2.4 ECOLOGY

2.4.1 Terrestrial Ecology

The terrestrial ecology of the Calvert Cliffs Nuclear Power Plant (CCNNP) site, including the CCNPP Unit 3 construction area, was characterized in a series of field studies conducted over a one year period extending from May 2006 to April 2007. The field studies include a flora survey, a faunal survey, rare tiger beetles, rare plants, and wetlands delineation. The subsections below summarize relevant information from each of these studies and provide other data on existing terrestrial ecology in accordance with the guidance in NUREG-1555 (NRC, 1999a). In addition, a Forest Stand Delineation Report and a Forest Conservation Plan were finalized in July, 2008.

A topographic map of the site is provided as Figure 2.3-4.

2.4.1.1 Terrestrial Habitats

The flora survey covers each plant community type (terrestrial habitat type) observed on the CCNPP site in 2006 and 2007. A map of the plant community types is presented in Figure 2.4-1, and each plant community type is briefly discussed below.

<u>Lawns and Developed Areas</u>

(Gray in Figure 2.4-1) - Lawns and developed areas occur over a broad area in the east-central part of the CCNPP site (surrounding the two existing CCNPP reactor units) and in Camp Conoy. Camp Conoy includes several athletic fields and other lawn areas surrounding recreational facilities. Other than scattered trees and shrubs planted as ornamental landscaping, the lawns on the CCNPP site consist only of a groundcover stratum. Most of the lawns consist of cool season grasses (grasses that typically seed during spring and fall) such as tall fescue (*Festuca arundinacea*), bluegrass (*Poa pratensis*), large crabgrass (*Digitaria sanguinalis*), and Bermuda grass (*Cynodon dactylon*). Common broadleaf weeds typical of lawns are also present, such as white clover (*Trifolium repens*), broadleaf plantain (*Plantago major*), dandelion (*Taraxicum officinale*), and yellow hawkweed (*Hieracium pretense*).

Old Field (Yellow and Light Brown in Figure 2.4-1) - The largest area of old field vegetation in the CCNPP site is on the dredge spoils deposited since the early 1970s on lands extending west from CCNPP Units 1 and 2 (Yellow in Figure 2.4-1). The dredge spoils are covered by a dense stand of phragmites (Phragmites australis). Phragmites is a perennial grass that can grow to more than 10 ft (3 m) tall and typically infests brackish and fresh tidal and non-tidal marshes. Its presence on the dredge spoil piles is likely a result of propagules (seeds and rhizome fragments) carried with dredge spoils excavated from the shoreline. Other plants typical of old fields, such as common blackberry (Rubus allegheniensis) and tall fescue (Festuca arundinacea), are also present on the dredge spoils but are not as prevalent as phragmites.

Old field vegetation is also located in some small fields in the northwestern part of the CCNPP Unit 3 construction area, in scattered forest clearings around the perimeter of the dredge spoils, and in other developed areas on the CCNPP site, as well as along roadsides (Light Brown in Figure 2.4-1). Many such areas were disturbed during construction of CCNPP Units 1 and 2 and various support facilities, such as the Independent Spent Fuel Storage Installation (ISFSI). Vegetation in these areas is dominated by tall fescue, sericea lespedeza (*Lespedeza cuneata*), common blackberry, Canada goldenrod (*Solidago canadensis*), and asters (*Aster sp.*).

<u>Mixed Deciduous Forest</u>

(Light Green in Figure 2.4-1) - Most forested uplands on the CCNPP site, as well as the southern and western parts of the CCNPP Unit 3 construction area, support deciduous forest dominated by tulip poplar (*Liriodendron tulifera*); chestnut oak (*Quercus prinus*); white oak (*Quercus alba*); red oaks such as black oak (*Quercus velutina*), southern red oak (*Quercus falcata*), and scarlet oak (*Quercus coccinia*); American beech (*Fagus grandifolia*); and Virginia pine (*Pinus virginiana*). Other canopy trees include hickories such as pignut hickory (*Carya glabra*) and bitternut hickory (*Carya cordiformis*), red maple (*Acer rubrum*), sweet gum (*Liquidambar styraciflua*), swamp chestnut oak (*Quercus michauxii*), and black gum (*Nyssa sylvatica*). The forest understory consists of dense patches of mountain laurel (*Kalmia latifolia*), pawpaw (*Asimina trilobata*), and American holly (*Ilex opaca*), with scattered but frequent saplings of canopy species. Ground cover is sparse except where recently fallen trees have left gaps in the tree canopy. Scattered patches of the following species are present in the groundcover: partridgeberry (*Mitchella repens*), Christmas fern (*Polystichum acrostichoides*), common violet (*Viola papilionacea*), and large whorled pogonia (*Isotria verticillata*).

Mixed Deciduous Regeneration Forest

(Dark Green in Figure 2.4-1) - Several areas of relatively level highlands that formerly supported mixed deciduous forest have been subjected to timber harvest activities within the past 20 years. These areas presently support dense thickets of deciduous trees and Virginia pines. The deciduous trees consist of tulip poplar, oaks, sweet gum, and red maple. Virginia pine is generally more frequent in the regenerating forest than in adjoining areas of mature mixed deciduous forest. The regenerating forest lacks a distinct understory but does contain scattered mountain laurel and American holly. Little groundcover is present other than along fire roads or in other small openings.

Well-Drained Bottomland Deciduous Forest

(Light Red in Figure 2.4-1) - Areas of well-drained soils in lowlands adjoining Johns Creek, Goldstein Branch, their headwaters, and other streams on the CCNPP site support bottomland deciduous forest dominated by tulip poplar, American beech, sweet gum, black gum, and red maple. This vegetation represents an ecotone (transition) between the mixed deciduous forest on the adjoining upland slopes and the bottomland hardwood forest in wetter areas closer to the stream channel. The understory is generally sparse, although some mountain laurel and American holly are present. While groundcover is generally sparse, dense patches of New York fern (*Thelypteris noveboracensis*) are frequent. (Note: Bottomland deciduous forest outside of the area addressed by the wetland delineation is mapped as a single unit (purple) rather than separated into well-drained and poorly drained components.)

Poorly Drained Bottomland Deciduous Forest

(Dark Red in Figure 2.4-1) - Areas of poorly-drained, seasonally saturated soils in lowlands adjoining Johns Creek, Goldstein Branch, their headwaters, and other streams on the CCNPP site support bottomland hardwood forest dominated by red maple, sweet gum, and black gum. The shrub layer is generally sparse. The groundcover is generally dense, dominated by ferns such as New York fern, sensitive fern (*Onoclea sensibilis*), and royal fern (*Osmunda regalis*); sedges and rushes such as tussock sedge (*Carex stricta*), eastern bur-reed (*Sparangium americanum*), and soft rush (*Juncus effusus*); and forbs such as lizard tail (*Saururus cernuus*) and skunk cabbage (*Symplocarpus foetidus*). (Note: Bottomland deciduous forest outside of the area addressed by the wetland delineation is mapped as a single unit (purple) rather than separated into well-drained and poorly drained components.)

Herbaceous Marsh Vegetation

(Light Blue in Figure 2.4-1) - Herbaceous marsh vegetation occurs throughout much of the broad bottomland areas adjoining Johns Creek in the western part of the CCNPP site as well as in localized gaps in the forest cover in the narrower bottomlands adjoining the headwaters of Johns Creek, Goldstein Branch, and other streams. It is dominated in many places by phragmites. Other areas are dominated by sedges, rushes, and bulrushes; lizard tail, which forms localized dense patches; and various other wetland forbs such as dotted smartweed (*Polygonum punctatum*), Pennsylvania smartweed (*Polygonum pensylvanicum*), jewelweed (*Impatiens capensis*), and halberd-leaved tearthumb (*Polygonum arifolium*). These areas include a marshy fringe surrounding the shore of Lake Conoy, two smaller impoundments on the stream carrying the outflow from Lake Conoy to the Chesapeake Bay, a constructed wetland in the northwestern part of the CCNPP site, and a marshy fringe surrounding a stormwater detention pond west of a dock on the Chesapeake Bay.

<u>Successional Hardwood Forest</u>

(Dark Brown in Figure 2.4-1) - Small patches of forest on recently disturbed lands in the central part of the CCNPP site support forest cover dominated by fast-growing tree species that establish in sunny areas such as old fields. Dominant tree species include black locust (*Robinia pseudoacacia*), black cherry (*Prunus serotina*), and eastern redcedar (*Juniperus virginiania*). The understory generally consists of the same shrub, vine, and herbaceous species described for old field vegetation. Most of the canopy trees are less than 10 in (25.4 cm) diameter at breast height (DBH). The canopy trees cast only weak shade and allow dense undergrowth by old field species.

As noted in the Forest Stand Delineation Report ("FSD"), of these plant communities, only the Mixed Deciduous Forest, Mixed Deciduous Regeneration Forest, Bottomland Deciduous Forest (Well-Drained and Poorly Drained), and Successional Hardwood Forest meet the definition of "Forest" established under the Maryland Forest Conservation Act. These forest areas were further characterized, mapped and quantified. Table 1 of the FSD lists each stand studied in the FSD, and describes the type of tree cover found in the stand and the size of the stand. The FSD also identifies priority areas for forest retention, including Sycamore-Sweetgum-American Elm, and Chestnut Oak forest stands. The Forest Conservation Plan ("FCP") draws on the baseline data developed in the FSD, identifies the impact of the proposed project on forest stands, and outlines the mitigation requirements under the Maryland Forest Conservation Act.

Most lands elsewhere on the CCNPP site support the habitats described above. Where the Chesapeake Bay shoreline has not been developed with the existing reactor units and barge dock, it consists of a narrow sandy beach at the base of steep, sandy cliffs. The beach is generally less than 20 ft (6 m) wide during normal low tides. There are no tidal marshes on the CCNPP site. However, small tidal marshes are present in the Flag Ponds Natural Area north of the CCNPP site and on the shoreline of tidal reaches of St. Leonard's Creek and its tributaries. Some forested areas close to the Chesapeake Bay or other tidal waters support forest dominated by loblolly pine (*Pinus taeda*), and some inland areas support forest dominated by Virginia pine. The latter consist primarily of recently abandoned farmlands or other lands recently disturbed and left to naturally regenerate.

2.4.1.2 Important Terrestrial Species and habitats

NUREG-1555 (NRC, 1999a) defines important species as: 1) species listed or proposed for listing as threatened, endangered, candidate, or of concern in 50 CFR 17.11 and 50 CFR 17.12 (CFR, 2007a), by the U.S. Fish and Wildlife Service, or the state in which the project is located; 2) commercially or recreationally valuable species; 3) species essential to the maintenance and survival of rare or commercially or recreationally valuable species; 4) species critical to the

structure and function of local terrestrial ecosystems; or 5) species that could serve as biological indicators of effects on local terrestrial ecosystems. Floral and faunal surveys that document observations made on the CCNPP site between May 2006 through April 2007 are summarized herein.

Three plant communities occurring on the CCNPP site are identified as important habitats: herbaceousmarsh vegetation, poorly drained bottomland deciduous forest, and well-drained bottomland deciduous forest and are shown in Figure 2.4-1. Herbaceous marsh vegetation and poorly-drained bottomland deciduous forest meet the definition of wetlands established in 33 CFR 328.3 for the Federal Clean WaterAct and COMAR 26.23.01.01(B)(62) for the Maryland Nontidal Wetland Protection Act. The exact boundaries of wetlands in the CCNPP site area were delineated between May 2006 and September 2006 using routine onsite procedures in the Corps of Engineers Wetlands Delineation Manual. The wetland boundaries were marked in the field using sequentially numbered flags. The coordinates for each flag were determined in the field as part of a land survey. Well-drained bottomland deciduous forest habitat in the CCNPP site area occurs in stream valley lands that are too well-drained to meet the regulatory definition of a wetland but still occur in floodplains.

Table 2.4-1 lists each species and habitat identified as important for the CCNPP site and surrounding area according to the criteria in NUREG-1555 (NRC, 1999a). Each species deemed an important species is discussed in more detail below.

2.4.1.2.1 Mammals

The only mammal species meeting the NUREG-1555 criteria for important is the white-tail deer (*Odocoileus virginianus*). White-tail deer is a recreationally valuable species that is valued for hunting in most rural counties in Maryland, including Calvert County.

2.4.1.2.1.1 Population Abundance and Distribution

White-tail deer were observed in all habitats on the CCNPP site during the 2006 fauna survey. Although other mammal species were observed, none were as frequent or widespread over all habitats as white-tail deer.

2.4.1.2.1.1.1 Habitat Requirements

White-tail deer are large herbivorous (plant-eating) mammals favoring fragmented brushy woods interspersed with abandoned fields and thickets.

2.4.1.2.1.1.2 Life History

Rutting season extends from late September through February, with a peak in November. Gestation takes between 200 and 210 days. Does reproduce only once a year, in May or June, and usually produce one fawn the first year, but may produce twins or even triplets in the following years, if food is plentiful. Fawns remain in the den for the first couple of weeks, and are weaned between the ages of four and eight months, but begin to graze before this time. They lose their white spots in the fall. Males reach puberty at around 18 months, and begin growing their first rack in the spring following their birth. Deer are more social in winter and congregate in herds, and tend to disperse and become more solitary in spring.

2.4.1.2.1.1.3 Population Dynamics

Natural predators in Maryland were historically limited to large carnivores such as wolves and mountain lions. Elimination of these predators coupled with a recent increase in forest fragmentation has resulted in very high white-tail deer populations in Maryland and Virginia.

Today, white-tail deer are a pest species that damage forest and landscape vegetation and cause numerous automobile collisions.

2.4.1.2.2 Birds

Two bird species have been identified as important according to NUREG-1555 (NRC, 1999a). They are the bald eagle (*Haliaeetus leucocephalus*) and the scarlet tanager (*Piranga olivacea*).

2.4.1.2.2.1 Bald Eagle

2.4.1.2.2.1.1 Population Abundance and Distribution

The bald eagle, a federal protected species, and a state threatened species, is the only bird species observed during the 2006 to 2007 field surveys or anecdotally reported by site personnel to occur on the CCNPP site that is designated threatened or endangered on the federal or state level, or candidates for such listing. As of the end of 2006, three bald eagle nests were known to exist on the CCNPP Site as shown in Figure 2.4-2. All were outside of the Project Area. Chicks were reported at two of the three nest locations during site reconnaissance conducted in April 2008; i.e., a nest located along Johns Creek near the Lake Davies Dredge Disposal Area and a nest located at Rocky Point to the east of Camp Conoy Road. The third eagle nest, which was located to the northwest of CCNPP Units 1 and 2, blew down prior to 2007. In April 2007, a new active bald eagle nest was observed in a Virginia pine tree close to Camp Conoy Road, near the southwestern corner of a baseball field. Parent bald eagles were observed circling the nest, suggesting that it was active and contained eggs or recently hatched chicks. However, one of the previously recognized nests (located near the shoreline north of the existing reactors) was reported by site personnel to be inactive in April 2007.

2.4.1.2.2.1.2 Habitat Requirements

Bald eagles prefer to nest in tall trees within sight of lakes, rivers, and other open waters. Bald eagles feed primarily on fish but also feed on waterfowl, seagulls, and small mammals. The optimal bald eagle nesting habitat on the CCNPP site is therefore the forested areas at the top of the cliffs overlooking the Chesapeake Bay. Two of the known nesting locations are in such areas, to the north and south of the project area. The Camp Conoy nest is more than 1,500 feet inland from the Chesapeake Bay but is within sight of the Camp Conoy Fishing Pond. The western nest is situated even farther inland but directly adjoins a large marshy area with pools of open water formed by beaver dams on Johns Creek. The mixture of forest cover and open water present throughout the CCNPP site and surrounding region therefore provides potentially suitable bald eagle habitat.

2.4.1.2.2.1.3 Life History

In Maryland and Virginia, bald eagles typically lay eggs in March or April. They typically hatch about 35 days later, and the young typically begin to fly about 12 weeks after hatching.

2.4.1.2.2.1.4 Population Dynamics

Bald eagle population levels have rebounded in the eastern U.S., including Maryland and Virginia, in recent years.

2.4.1.2.2.2 Scarlet Tanager

The scarlet tanager is included as an important species because it can serve as a biological indicator of effects related to forest fragmentation. Given the relatively high frequency of

observance at the CCNPP site and its forest interior habitat preference, a rarity or absence of observations could indicate a degradation of forest interior habitat.

2.4.1.2.2.2.1 Population Abundance and Distribution

The scarlet tanager (*Piranga olivacea*) represents the most frequently observed forest interior bird (FIB) species observed in the CCNPP site area during the late spring and summer of 2006 (as expected, this migratory species was not observed during fall 2006 or winter or early spring 2007). All of the FIB species were observed in forested areas in the southern, southwestern, and western part of the project site area.

2.4.1.2.2.2.2 Habitat Requirements

FIB species are birds requiring large forested areas to breed successfully and maintain viable populations. Most FIB species have suffered noticeable population declines in Maryland and elsewhere in the eastern United States concurrent with increased fragmentation of forest cover by urban development in the last 50 years. The Chesapeake Bay Critical Area Commission has identified an objective of preserving habitat for FIBs in lands surrounding the Chesapeake Bay (CAC, 2000).

2.4.1.2.2.2.3 Life History

The scarlet tanager breeds in woodland areas, constructing open-cup nests in the mid-story/canopy. Eggs are laid in clutch sizes of 3 to 5, with an incubation period of 13 to 14 days. Nine to 11 days are needed to fledge.

2.4.1.2.2.2.4 Population Dynamics

The scarlet tanager is a neotropical migrant that breeds in Maryland but winters primarily in Central and South America. Most of the FIB species that have suffered the greatest population declines over the last 50 years are neotropical migrants. Neotropical migrant FIB species are sensitive not only to changes in their breeding habitats in eastern North America but also to changes to their wintering habitats in Central and South America. The scarlet tanager typically occupies its breeding grounds in Maryland between May 25 and August 10 (CAC, 2000).

2.4.1.2.3 Insects

The Puritan Tiger Beetle (*Cicindela puritana*) and the northeastern beach tiger beetle (*Cicindela dorsalis dorsalis*) have been identified as important because they are Federally threatened beetle species known to occur on sandy cliffs and beaches in Calvert County.

2.4.1.2.3.1 Puritan Tiger Beetle

2.4.1.2.3.1.1 Population Abundance and Distribution

The Puritan Tiger Beetle (*Cicindela puritana*), is known to presently inhabit only three locations: the Chesapeake Bay shoreline in Calvert County, around the mouth of the Sassafras River in eastern Maryland, and along the Connecticut River in Connecticut and Massachusetts. The Calvert County population has fluctuated greatly from peak numbers of over 9,000 in 1998 and 1988 to less than 6,000 in the past three years. A population of the Puritan Tiger Beetle has been known to be present at the shoreline of the CCNPP site since 1997. This site, like all others, has exhibited dramatic fluctuations in population size since that time. Counts of adults at the CCNPP site have varied more than some other locations, with the following estimates of adult numbers (USFWS, 1993):

YEAR	COUNT
1997	119
1998	616
1999	49
2000	367
2002	80
2003	226
2004	121
2006	111

2.4.1.2.3.1.2 Habitat Requirements

The Puritan Tiger Beetle has very specific habitat requirements. In Maryland, the larvae live in deep burrows, which they dig in sandy deposits on non-vegetated portions of bluff faces. They may also burrow at the base of bluffs in sediment deposits that have eroded from bluff faces. Chesapeake Bay populations are most abundant where bluffs are long and high, with little or no vegetation, and composed at least in part of yellow or red sandy soil. Wave-producing storms and concomitant erosion of bluffs are necessary to maintain the bare-bluff faces required for larval habitat. Larvae will not utilize densely vegetated bluffs; no tiger beetle larvae or adults were found to occupy bluffs stabilized by kudzu at Calvert Beach, though individuals were numerous on adjacent natural bluffs.

2.4.1.2.3.1.3 Life History

Puritan Tiger Beetles typically undergo a two-year larval period before emergence. Larvae hatch in late July or August as first instars. This stage lasts 2 to 4 weeks; larvae then molt and become second instars. Larvae generally over-winter as second instars and become active again (as evidenced by open burrows) the following spring, when they molt to the third instar.

2.4.1.2.3.1.4 Population Dynamics

Population variations are caused by year-to-year variations in climatic and other factors that affect survival and reproduction. Variations in recorded populations may, to a lesser extent, depend on survey conditions.

2.4.1.2.3.2 Northeastern Beach Tiger Beetle

2.4.1.2.3.2.1 Population Abundance and Distribution

There are two extant populations of *C. dorsalis* in southeastern Massachusetts, and the beetle has been found in the Chesapeake Bay region at 55 sites in Virginia and 13 sites in Calvert County, Maryland. The Chesapeake Bay populations include 15 with more than 500 adults (USFWS, 1994).

This species does not have an established population within the boundaries of the CCNPP site, and consequently this site has not been one of the target sites that are annually surveyed for *C. dorsalis* in Calvert County. However, in some years small numbers of adults (<25 individuals) have been observed at the far north end of the CCNPP site. These adults were found to be confined to an approximate 328 ft (100 m) section bordering Flag Ponds Nature Park, having apparently moved south from that area where a breeding population exists. No larvae or other evidence of a breeding population of *C. dorsalis* has been known in this northern section of the CCNPP site. No adults were found on the CCNPP site in 2006, nor were there any in the bordering section of Flag Ponds Nature Park. At Flag Ponds Nature Park, most of the adults

and all larvae of *C. dorsalis* are restricted to the northern half of this area, and only occasionally are small numbers of adults found in the southern end near the CCNPP site boundary.

2.4.1.2.3.2.2 Habitat Requirements

The beach ecosystem conducive to *C. dorsalis* survival is undisturbed by heavy human use, highly dynamic, and subject to natural erosion and accretion processes.

2.4.1.2.3.2.3 Life History

Larvae dig vertical burrows over a relatively narrow band of the upper intertidal to high drift zone, capturing small arthropod prey passing nearby. In the Chesapeake Bay region, adults emerge in mid-June, reach peak abundance by very early July, and begin to decline through August. The adults are active on warm, sunny days along the water's edge, where they are commonly seen feeding, mating, or basking. Mating and egg laying occur from late June through August. Egg laying occurs in burrows.

2.4.1.2.3.2.4 Population Dynamics

Populations are highly variable from year to year; the beetle is subject to local population extinctions and capable of dispersal and recolonization. The extirpation of *C. dorsalis* from most of its range has been attributed primarily to destruction and disturbance of natural beach habitat from shoreline developments, beach stabilization structures, and high recreational use.

2.4.1.2.4 Plants

Several plant species have been identified as important according to NUREG-1555 (NRC, 1999a). They are the showy goldenrod (*Solidago speciosa*), Shumard's oak (*Quercus shumardii*), spurred butterfly pea (*Centrosema virginianum*), tulip poplar (*Liriodendron tulipifera*), chestnut oak (*Quercus prinus*), mountain laurel (*Kalmia latifolia*), and New York fern (*Thelypteris noveboracensis*). The rare plant inspections were conducted in late July/early August 2006, October 2006, and April 2007 so as to coincide with the flowering period for each plant listed by the Maryland Department of Natural Resources as rare, threatened, or endangered for Calvert County, Maryland.

2.4.1.2.4.1 Showy Goldenrod

The showy goldenrod (*Solidago speciosa*) is listed as threatened by the State of Maryland. Showy goldenrod is a perennial forb with showy yellow flower heads that typically flowers in August and September in Maryland. The tops typically die in late October, and the roots over-winter underground and regenerate new tops in spring. Patches of showy goldenrod were observed in several locations around Camp Conoy in October 2006.

2.4.1.2.4.2 Shumard's Oak

The Shumard's oak (*Quercus shumardii*) is listed as threatened by the State of Maryland. Shumard's oak is a deciduous tree whose leaves and bark closely resemble the more common red oak (*Quercus rubra*). Trees appearing to be Shumard's oak were observed at multiple locations in the Johns Creek floodplain in 2006 and 2007.

2.4.1.2.4.3 Spurred Butterfly Pea

The spurred butterfly pea (*Centrosema virginianum*) is designated by Maryland as rare It is not Federally-listed or listed by the State of Maryland as threatened or endangered. The Maryland Natural Heritage Program has a record of occurrence of the spurred butterfly pea on the CCNPP site southwest of the CCNPP Unit 3 construction area (MDNR, 2006). The plant was

observed at multiple locations in early August 2006 in Johns Creek floodplain but well west of the CCNPP Unit 3 construction area. It is a perennial, climbing, leguminous vine with light purple flowers with a wide tolerance of habitat conditions.

2.4.1.2.4.4 Tulip Poplar

Tulip poplar (*Liriodendron tulipifera*) is the most numerous and widespread tree in upland forests on the CCNPP site. It is a tall, fast-growing deciduous tree that favors upland habitats with mesic (deep, rich, and moist) soils. Many tulip poplars in the CCNPP Unit 3 construction area are over 20 inches (50 cm) DBH. It is a key contributor to the overall structure and ecological function of the plant communities and serves as an indicator of the overall ecological stability.

2.4.1.2.4.5 Chestnut Oak

Chestnut oak (*Quercus prinus*) is another common tree on the CCNPP site, dominating on dry, sloping lands adjoining forested stream valleys. Tulip poplar and chestnut oak together comprise the majority of the tree canopy in forested areas on and surrounding the CCNPP site.

The chestnut oak is a tall, slow-growing deciduous tree that occurs in primarily dry soils. Acorns from chestnut oaks on the CCNPP site provide a key food source for gray squirrels, blue jays, and many of the other observed wildlife species. Chestnut oak is the principal tree stabilizing many steep slopes adjoining the Johns Creek and Goldstein Branch floodplains. It is a key contributor to the overall structure and ecological function of the plant communities and serves as an indicator of the overall ecological stability.

2.4.1.2.4.6 Mountain Laurel

Mountain laurel (*Kalmia latifolia*) is the most widespread shrub on the CCNPP site. It forms dense shrub thickets in the understory of upland forests throughout the CCNPP site and the CCNPP Unit 3 construction area, including most of the steep slopes adjoining the Johns Creek and Goldstein Branch floodplains. Although primarily a shrub, many mountain laurels on the steep slopes near Johns Creek and south of Camp Conoy are exceptionally large, reaching heights of over 20 ft (6 m). It is a key contributor to the overall structure and ecological function of the plant communities and serves as an indicator of the overall ecological stability.

2.4.1.2.4.7 New York Fern

New York fern (*Thelypteris noveboracensis*) is the most widespread groundcover plant in the CCNPP Unit 3 construction area and elsewhere on the CCNPP site. It forms large, dense patches of groundcover throughout most of the forested floodplain lands, and many of the patches extend to adjoining slopes. Mountain laurel and New York fern together comprise the majority of the understory and groundcover vegetation in forested areas on and surrounding the CCNPP Unit 3 construction area. It is a key contributor to the overall structure and ecological function of the plant communities and serves as an indicator of the overall ecological stability.

2.4.1.2.5 Habitats

Three plant communities occurring on the CCNPP site are identified as important habitats: herbaceous marsh vegetation, poorly drained bottomland deciduous forest, and well-drained bottomland deciduous forest and are shown in Figure 2.4-1. Herbaceous marsh vegetation and poorly drained bottomland deciduous forest meet the definition of wetlands established in 33 CFR 328.3 for the Federal Clean Water Act (CFR, 2007b) and COMAR 26.23.01.01(B)(62) for the Maryland Nontidal Wetland Protection Act (COMAR, 2007). The exact boundaries of

wetlands in the CCNPP site area were delineated between May 2006 and September 2006 using routine onsite procedures in the Corps of Engineers Wetlands Delineation Manual (USACE, 1987). The wetland boundaries were marked in the field using sequentially numbered flags. The coordinates for each flag were determined in the field as part of a land survey. Well-drained bottomland deciduous forest habitat in the CCNPP site area occurs in stream valley lands that are too well-drained to meet the regulatory definition of a wetland but still occur in floodplains.

Two areas outside of but close to the CCNPP site are also identified as important habitats. The first is the Flag Ponds Natural Area, situated immediately north of the CCNPP site. The second is Calvert Cliffs State Park, situated immediately north of the CCNPP site.

2.4.1.3 Habitat Importance

White-tail Deer: White-tail deer are habitat generalists but tend to favor areas at the edge of forests. Because of the ability of the white-tail deer to adapt to a variety of habitats, their populations are not generally sensitive to localized habitat changes.

Bald Eagle: Bald eagles tend to return and reuse nests from previous years. Any construction close to the active bald eagles nests on the CCNPP site as shown in Figure 2.4-2 could discourage use of those nests in the future. Trees on top of the cliffs adjoining the Chesapeake Bay along the eastern edge of the CCNPP site provide some of the best bald eagle habitat in Calvert County. Local populations of bald eagle would be sensitive to loss or degradation of forested habitats adjoining the cliffs.

Scarlet Tanager (and other Forest Interior Birds): Recent aerial photographs of southern Calvert County suggest that the forested areas in the northern, southern and southwestern parts of the CCNPP site, including areas within the Unit 3 construction area draining to Johns Creek, provide some of the largest remaining blocks of unfragmented forest habitat in the region. Most areas of Calvert County outside of the CCNPP site and adjoining state parks (Calvert Cliffs State Park and Flag Ponds Natural Area) have experienced fragmentation caused by agricultural land uses, road construction, and construction of rural residences and small residential subdivisions. Therefore, the forested areas on the CCNPP site, including those close to Johns Creek in the CCNPP Unit 3 construction area, are likely valuable in sustaining localized populations of the scarlet tanager and other forest interior birds.

Puritan and Northeastern Beach Tiger Beetles: The undeveloped cliffs and beaches on the CCNPP site provide some of the best remaining habitat, both locally and nationally, for these two insect species with very specific habitat requirements.

Plants: None of the plant species identified as important are highly dependent on the CCNPP Unit 3 construction area or CCNPP site for their survival. Loss of suitable habitats in the CCNPP Unit 3 construction area would cumulatively contribute to the risk for population declines for each species but not likely result in immediate declines in regional populations.

2.4.1.4 Disease Vector and Pest Species

A disease vector is an organism (commonly an insect) that carries disease agents (commonly bacteria or fungi) to a receptor host, which can be man, domestic or wild animals, or crops or wild plants. The only disease vector known to occur on the CCNPP site is the deer tick (*Ixodes scapularis*), which transmits Lyme Disease to humans. Lyme Disease is a non-fatal but debilitating disease whose victims can display fever and severe joint pain. The causal agent is

a bacterium, *Borrelia burgdorferi*, which is transmitted by the deer tick from white-tail deer, squirrels, rodents, and other mammalian wildlife to humans.

No pest species are known to be widespread over the CCNPP site and surrounding areas. However, two non-native invasive plant species were found to be prevalent at several locations on the CCNPP site in 2006. The most widespread is phragmites, which forms dense stands over large areas of wetlands and dredge spoils in the CCNPP site. Phragmites is a perennial grass species with hollow culms (stems) that can grow to more than 10 ft (3 m) in height. Flowers develop by mid summer and are arranged in tawny spikelets with tufts of silky hair. Flowering and seed set occur between July and September. Germination occurs in spring on exposed moist soils. Vegetative spread by below-ground rhizomes (roots) can result in dense patches with up to 20 stems per square foot (200 stems per square meter). Phragmites is capable of vigorous vegetative reproduction and often forms dense, nearly monospecific stands. Although some phragmites stands are of genotypes native to North America, most large stands of phragmites in North America today are considered to be of non-native genotypes.

Another non-native invasive plant species, Japanese stiltgrass (*Microstegium vimineum*), forms scattered patches in the groundcover of some forested areas in the CCNPP site. It occurs mostly in areas with a history of soil disturbance, such as along the sides of roadways and trails. Where it occurs, it has likely precluded the development of other more ecologically valuable groundcover.

2.4.1.5 Wildlife Travel Corridors

Wildlife tends to move across landscapes using distinct corridors of favorable habitat. Movement of most forest wildlife across fragmented agricultural and suburban landscapes is enhanced by linear corridors of forest that can consist of forested hedgerows, forested stream valleys, or forested ridge tops. The minimum width for a forest corridor to benefit wildlife is not known but may vary among wildlife species depending on body size. Wildlife movement is also enhanced by strings of closely spaced patches of favorable habitat that form "stepping stones" across areas of unfavorable habitat. For forest wildlife, such stepping stones can consist of woodlots in agricultural landscapes or parks and other undeveloped forest tracts in suburban landscapes.

The landscape of southern Calvert County consists predominantly of forest land broken by small agricultural fields, small developed areas referred to as "town centers," rural residences on lots of one to a few acres, and small subdivisions of single-family houses on small lots. The landscape is crossed by a network of forested stream valleys that consist of forested floodplains adjoined by steep forested slopes. These stream valleys form corridors that facilitate the movement of forest wildlife around farm fields and developed areas.

The central part of the CCNPP site consists mostly of open land surrounding the existing reactors. The remainder of the CCNPP site, the Calvert Cliffs State Park to the south, and the Flag Ponds Natural Area to the north include large blocks of forest land. The forested stream valley surrounding Goldstein Branch and its tributaries along the western perimeter of the project site forms a corridor that may facilitate the north-south movement of wildlife. The forested stream valley surrounding Johns Creek and its tributaries may facilitate east-west movement.

2.4.1.6 Existing Natural and Man-Induced Ecological Effects

While most of the CCNPP site area north and south of the CCNPP Unit 3 construction area consists of contiguous forest cover, forest cover in the central part of the CCNPP site, including the north-central and northwestern parts of the CCNP Unit 3 construction area, has been fragmented by development of facilities serving the existing reactors, by dredge material disposal, and by development of recreational facilities at Camp Conoy. This fragmentation has reduced the habitat value of some forested areas in the northern part of the CCNPP Unit 3 construction area and adjoining Camp Conoy for wildlife such as the forest interior bird species that require large blocks of forest to successfully live and nest. However, the observation of several forest interior bird species in forest lands south of Camp Conoy and along Johns Creek, indicates that forest cover in those areas qualifies as forest interior dwelling habitat.

Several areas of mixed deciduous forest on uplands west of Camp Conoy Road were clear cut for timber within the last 20 years but presently support robust stands of regenerated deciduous tree saplings. Some of the former clear cuts are on slopes near Johns Creek where forest interior bird species were observed in 2006. Although the clear cuts may have temporarily reduced habitat quality for forest interior bird species, the effects seem to have diminished with regeneration of tree cover. However, large canopy trees over 12 in (30 cm) DBH are limited to areas not recently clear cut, mostly on steep slopes and lands east of Camp Conoy Road. Prescribed burns are not conducted to manage vegetation anywhere on the CCNPP site, and there have not been any substantial wild fires in the past several decades.

Several upland areas in the northern part of the CCNPP Unit 3 construction area were used for farming until recently. These areas presently support old field vegetation. No areas on the CCNPP site are presently used for farming or grazing, although several large areas around the existing reactors, along paved roads, and in Camp Conoy are kept regularly mowed. Areas under several electric transmission lines in the CCNPP Unit 3 construction area and elsewhere on the CCNPP site are periodically mowed and treated with herbicides to prevent regeneration of trees under the conductors.

There is no evidence that the CCNPP Unit 3 construction area has been subjected to substantial recent environmental stresses such as insect or disease outbreaks or storm damage. Occasional fallen canopy trees were observed throughout forested areas of the CCNPP Unit 3 construction area, especially on the slopes adjoining Johns Creek and its headwaters. These trees may have been felled by the winds from Hurricane Isabel, which passed through Calvert County on September 19, 2005. Large areas of oak-dominated forests in central Maryland experienced multiple rounds of defoliation by gypsy moths in the late 1980s. However, large numbers of dead trees as might have resulted from a localized gypsy moth (Lymantria dispar) outbreak were not observed anywhere within the CCNPP Unit 3 construction area during the 2006 floral survey.

2.4.1.7 Ongoing Ecological and Biological Studies

The only ecological or biological investigations performed on the CCNPP site within the last 5 years were the surveys described herein. Those studies are now complete.

2.4.1.8 Regulatory Consultation

The Maryland Natural Heritage Program, operated by the Maryland Department of Natural Resources, was consulted for information on known occurrences of Federally-listed and State-listed threatened, endangered, or special status species and critical habitats (MDNR,

2006). Identification of the important species discussed above was based in part on information provided by that consultation.

2.4.1.9 Offsite Transmission and Access Corridors

There are no new offsite transmission or access corridors associated with the construction and operation of CCNPP Unit 3.

2.4.2 Aquatic Ecology

2.4.2.1 Aquatic Habitats

2.4.2.1.1 Freshwater Bodies Onsite

Freshwater bodies at the CCNPP site are described in Section 2.3.1. A topographic map is provided as Figure 2.3-4 which shows the aquatic habitats. In addition, a separate wetlands delineation study was conducted. It describes the area as a steeply rolling landscape dissected by a dendritic pattern of stream valleys with narrow floodplains adjoined by steep side slopes whose grade exceeds 25% in places. Large areas in the north-central part of the site have been graded to accommodate existing facilities and the dredge spoil disposal area. The eastern part of the site, including most lands east of Camp Conoy Road, drains directly into the Chesapeake Bay. Drainage enters a series of unnamed intermittent and first-order perennial streams that flow generally eastward. The streams become increasingly incised as they approach the cliffs and then cascade over the cliffs and across the narrow beach into the bay. All stream reaches on the site are non-tidal; the cliffs prevent tidal influence from extending west of the beach.

In the north-central part of the site, large areas have been graded to accommodate existing facilities and a dredge spoil disposal area. The eastern part of the site, including most lands east of Camp Conoy Road, drains directly into the Chesapeake Bay. Drainage enters a series of unnamed intermittent and first-order perennial streams that flow generally eastward. The streams become increasingly incised as they approach the cliffs and discharge across the narrow beach into the Bay. All stream reaches on the site are nontidal; the cliffs prevent tidal influence from extending west of the beach.

The western part of the site, west of Camp Conoy Road, drains toward the Patuxent River. Lands west of Camp Conoy Road drain into intermittent headwaters of Johns Creek, which flows west under Maryland Route 2/4 and ultimately to the Patuxent River. Most lands in the northwestern part of the CCNPP site flow into the headwaters of the Goldstein Branch. Goldstein Branch flows south, close to the western CCNPP site perimeter, entering Johns Creek just east of Maryland Route 2/4. A small area in the northern part of the CCNPP site drains to the north and east into small streams that flow to the Chesapeake Bay north of the CCNPP Units 1 and 2; these are shown as Branch 1 and Branch 2 on Figure 2.3-2. The dredge spoil disposal area drains to the man-made Lake Davies, which discharges into a tributary to Goldstein Branch as well as through wetlands to Johns Creek. Three other ponds retain surface water onsite before discharging to Chesapeake Bay: Camp Conoy Fishing Pond, Pond 1 and Pond 2.

Surveys of the benthic macroinvertebrates and fish inhabiting selected onsite streams and ponds were conducted during September 2006 and March 2007. Benthic invertebrates were collected using techniques developed for low gradient, non-tidal streams (USEPA, 1999). Fish sampling followed the guidance provided in the Maryland Biological Stream Survey Sampling Manual (MDNR, 2001). At each sampling station, standard water quality field measurements were made, and water samples were collected for laboratory analysis of nutrients and other physico-chemical parameters. At the same time, habitat quality was assessed using the survey

sampling guidance (MDNR, 2001). The results of the surveys are summarized for each water body in the following sections.

2.4.2.1.1.1 Johns Creek

Two locations in Johns Creek were sampled: one upstream and one downstream of a dewatered reach that had filled in with an invasive reed (*Phragmites*). Water quality at both locations indicated a healthy stream. Benthic invertebrate and fish assemblages at the downstream location were excellent, and the overall habitat assessment produced an optimal score. The upstream location, however, supported only one species of fish, the eastern mudminnow (*Umbra pygmaea*), which is a common stream species that is extremely tolerant of poor water quality.

Differences in the benthic community of the two reaches were also apparent. The upstream location was numerically dominated by oligochaetes and chironomids; the downstream location by amphipods during the fall and amphipods and ostracods during the spring. However, both locations supported at least two of the three groups of aquatic insects that are considered indicators of nondegraded streams (Ephemeroptera, Plecoptera, and Trichoptera). Although both locations scored in the "optimal" category on the habitat assessment, an evaluation of the subscores reveals that the upstream site has poor pool variability, marginal epifaunal substrate and cover, and suboptimal pool substrate, sediment deposition, and channel sinuosity. The difference in the overall scores of the two reaches is attributable to substrate, cover, and pool variability. Johns Creek downstream station had the highest score of all locations sampled during both fall and spring.

Results of the biological survey are presented in Table 2.4-2. Water quality data are in Table 2.3-28 through Table 2.3-31.

2.4.2.1.1.2 Goldstein Branch

One location in Goldstein Branch, upstream from its confluence with Johns Creek, was sampled. This location had similar dissolved oxygen and pH, but higher conductivity, alkalinity, and total dissolved solids (TDS), compared with Johns Creek. Despite water quality indicators of a healthy stream, only one species of fish, the American eel (*Anguilla rostrata*), was collected at Goldstein Branch. Benthic invertebrate diversity and abundance were lower than in Johns Creek during fall, but higher during spring. The reach supported all three groups of aquatic insects that are considered indicators of nondegraded streams (Ephemeroptera, Plecoptera, and Trichoptera). The overall habitat assessment produced an optimal score; individual subscores were similar to the upstream location at Johns Creek.

Results of the biological survey are presented in Table 2.4-3. Water quality data are presented in Table 2.3-28 through Table 2.3-31.

2.4.2.1.1.3 Impoundments

The four ponded waterbodies are neither functionally related nor similar in water quality. They are discussed here together for purposes of conciseness only.

Water quality in Lake Conoy was representative of a healthy pond. Six species of fish were collected; the eastern mosquitofish (*Gambusia affinis*) and the bluegill (*Lepomis macrochirus*) were numerically dominant, which is typical of an impoundment of this nature. The benthic invertebrate assemblage was more diverse than in the other three impoundments. Two of the three taxa of aquatic insects that are sensitive to degraded aquatic conditions, mayflies and

caddisflies, were present in Lake Conoy; the stoneflies (Plecoptera) were absent from all impoundments at the site.

Neither Lake Davies nor the ponds had adequate dissolved oxygen (greater than 5 ppm) to be considered a healthy habitat during fall, but dissolved oxygen was high and similar to the other sampling locations during the spring survey. In Lake Davies, the dissolved oxygen dropped as low as 2.2 ppm at the bottom. In Pond 2, dissolved oxygen was less than 1.0 ppm. Fish species in the ponds were the same as those collected in Lake Conoy, except for the absence of the larger gamefish (white crappie (*Pomoxis annularis*) and largemouth bass (*Micropterus salmoides*)). Benthic invertebrate assemblages were dominated by chironomids in the two lakes, and by oligochaetes in the two ponds. Neither caddisflies nor stoneflies occurred in any samples from Lake Davies or the ponds, although mayflies were present.

Results of the biological survey are presented in Table 2.4-4. Water quality data are in Table 2.3-28 through Table 2.3-31. Invertebrate and fish data represent the cumulative totals from all samples in each water body. No federal or state rare, threatened or endangered aquatic species was reported during site surveys. However, the American eel (*Anguilla rostrata*) was collected from every water body sampled, except Lake Davies.

2.4.2.1.1.4 Nontidal Wetlands

Nine assessment areas were described based on field surveys conducted in 2006 and early 2007. Wetland Assessment Areas are defined as contiguous wetland and aquatic areas with a high degree of hydrological interaction and biological similarity. Assessment Areas I, II, and III correspond to small unnamed watersheds that drain directly to the Chesapeake Bay (Assessment Area III flows out of the proposed project plant and construction area before reaching the Chesapeake Bay). Assessment Areas IV, V, and VI form the Johns Creek watershed (upstream of Goldstein Branch). Assessment Area IV constitutes the up-gradient headwaters to Johns Creek and their adjoining wetlands, while Assessment Area V constitutes the main channel and adjoining wetlands of Johns Creek. Assessment Area VI comprises a sequence of man-made basins carrying runoff from the Lake Davies dredged material disposal area to Johns Creek. Assessment Area VII constitutes the headwaters, main channel, and associated wetlands of Goldstein Branch. Assessment Area VIII consists of a small cluster of seepages and headwaters that flow north to ultimately contribute to Woodland Branch and St. Leonard Creek, which eventually drain into the Patuxent River. Assessment Area IX comprises a series of seepages and headwaters that drain into a storm drain system under the existing developed portion of the CCNPP site. Wetland functions and values for the nine assessment areas at the site are provided in Table 2.4-5.

The greatest overall functions and values are provided by Assessment Area V, which consists of the main channel of Johns Creek and its adjoining wetlands. Within the CCNPP site, Johns Creek remains largely free of human disturbance. It flows through a stream valley bounded throughout on both sides by mature deciduous forest cover free of agricultural or urban development. The channel is generally diffuse and poorly defined, spreading its flow through dense wetland vegetation that is more than 100 ft (30.5 m) in width at many locations. The vegetation is capable of attenuating flow velocity, filtering out dissolved nutrients or contaminants in the water and causing suspended sediment to settle out before flowing downstream to the tidal waters of St. Leonard’s Creek.

Many of the same functions and values are provided by Assessment Area IV, which consists of the seepages, springs, and headwaters that flow into the upper end of Johns Creek. The reach

of Johns Creek east of Maryland Route 2/4 constitutes one of the largest remaining systems of headwaters and stream whose watershed is still largely forested.

The Camp Conoy fishing pond (part of Assessment Area II) has a long history of enjoyment by Constellation employees and their families; recreation is therefore identified as a principal function for Assessment Area II.

2.4.2.1.2 Chesapeake Bay

2.4.2.1.2.1 Importance of the Bay as a Resource

The Chesapeake Bay is fed by freshwater flows from a 64,000 square mile (166,000 km^2) drainage basin that touches parts of 6 states, as well as the District of Columbia. This freshwater is mixed in almost equal proportions with saline water from the Atlantic Ocean, forming, the largest estuary in the U.S. In addition to its role as a center of commerce and shipping, the Bay is home to dozens of species of wildlife and produces millions of pounds of seafood for domestic and international markets. In recent years, government, industry, and the public have focused efforts on reversing the processes that have led to a decline in the quality of the bay for both wild species and the human population. Pollution, nutrient enrichment, and over-harvesting of estuarine species are among the key threats to the health of the bay.

2.4.2.1.2.2 Review of Key Data Sources

Key data sources of information on the Chesapeake Bay are found with the following Federal, State, and private organizations:

- The Chesapeake Bay Program (CBP) is a regional partnership responsible for developing and implementing restoration plans for the Chesapeake Bay. The CBP includes state and federal government resource managers as well as citizen advisory groups in the Chesapeake Bay area. In addition to annual reports on the overall condition of the Chesapeake Bay and progress of the restoration, the CBP provides data on the life history, distribution, abundance, and harvest of numerous estuarine and marine species in the Chesapeake Bay.

- The Maryland Department of Natural Resources (MDNR) provides commercial landings data for a variety of fish and shellfish species. Crab, oyster, and striped bass data are available for the Chesapeake Bay region; all other species are reported on a statewide basis. The MDNR data is used to describe trends in commercial harvest, and to support the designation of a species as "important."

- The Atlantic States Marine Fisheries Commission coordinates the conservation and management of the near shore fishery resources shared among the 15 Atlantic states. The Atlantic States Marine Fisheries Commission provides data on the life history, distribution, abundance, and status of the marine finfish and shellfish that it manages.

- The NOAA Fisheries Office of Science and Technology provides commercial landing data for either statewide or a Maryland-specific portion of the Chesapeake Bay.

- The Chesapeake Bay Foundation is a not-for-profit organization devoted to improving the overall environment of the Chesapeake Bay area. The foundation produces an annual report summarizing the condition of key components of the Chesapeake Bay ecosystem and issues a "health index" for the Chesapeake Bay.

2.4.2.1.2.3 Overall Condition of Chesapeake Bay Ecosystem

Both government and non-government reports on the status of the Chesapeake Bay reach the same conclusion: the overall health of the ecosystem remains degraded. Much of the extensive restoration effort expended during the last 20 years has merely kept the Chesapeake Bay from becoming even more severely impacted by the growing human population in the area.

The Chesapeake Bay Foundation assigned the Chesapeake Bay an overall score of 29 (out of a possible 100) based on measures of pollution, habitat, and fisheries. Despite the failing grade, the score was 2 points higher than in the last three years, indicating a slight improvement.

The CBP annual health assessment reached the following conclusions:

- Water Quality – Most of the Chesapeake Bay's waters are degraded. Each summer, a large expanse of its waters does not hold enough oxygen to support striped bass, crabs and oysters. Algal blooms fed by nutrient pollution block sunlight from reaching the underwater bay grasses needed to support aquatic life. Sediment from urban development and agricultural lands is carried into the Chesapeake Bay, clouding its waters and covering critical oyster reef habitat. Currently, about one-third of the Chesapeake Bay water quality goals are being met.

- Habitats and Lower Food Web – The Chesapeake Bay's critical habitats and food webs are at risk. Nutrient and sediment runoff have harmed bay grasses and bottom habitat. Excessive algae growth has pushed the Chesapeake Bay food web out of balance. A large portion of the Chesapeake Bay's wetlands has been lost to development. Currently, the Chesapeake Bay's habitats and lower food web are at about a third of desired levels.

- Benthic Organisms - In 2005, about 41% of the Chesapeake Bay's benthic habitat was considered healthy as measured by the composite Benthic Index of Biotic Integrity. This decline is likely due to persistent low dissolved oxygen levels during the summer. Reduced amounts of nutrients, sediment and chemical contaminants flowing into the Chesapeake Bay will help these bottom dwelling communities improve.

- Phytoplankton – microscopic plants commonly called algae are an excellent indicator of the health of the Chesapeake Bay's surface waters, as they are especially sensitive to changes in nutrient pollution and water clarity. Phytoplankton form the base of the food web. While increased populations provide more food to organisms further up the food web, too much or the wrong type of algae can harm the overall health of the Chesapeake Bay. In some cases, harmful algal blooms can impact human health. Scientists assess microscopic algal community health with a Phytoplankton Index of Biotic Integrity. Data from Spring 2005 show that about 9% of the Chesapeake Bay's phytoplankton communities were considered healthy.

- Fish and Shellfish - Many of the Chesapeake Bay's fish and shellfish populations are below historic levels. The number of adult blue crabs is below the long term average for the seventh straight year and oyster populations are at or near historic lows. American Shad are recovering slowly, while other species like striped bass show mixed signals. Current striped bass populations exceed restoration goals, but approximately 60% to 70% are infected by a disease called mycobacteriosis. Researchers are currently working to understand the extent and severity of the disease and the extent to which environmental conditions in the Chesapeake Bay influence it.

2.4.2.2 Identification of Important Estuarine Species

NUREG-1555 (NRC, 1999a) defines important species as: 1) species listed or proposed for listing as threatened, endangered, candidate, or of concern in 50 CFR 17.11 and 50 CFR 17.12 (CFR, 2007a), by the U.S. Fish and Wildlife Service, or the state in which the project is located; 2) commercially or recreationally valuable species; 3) species essential to the maintenance and survival of rare or commercially or recreationally valuable species; 4) species critical to the structure and function of local terrestrial ecosystems; or 5) species that could serve as biological indicators of effects on local terrestrial ecosystems.

A list of species considered important in the project area was compiled based on these criteria and summarized in Table 2.4-6. A single species may meet more than one of the five criteria. A 6th criterion, status as a potential nuisance to plant operation, is not discussed, as no nuisance aquatic species are expected to occur in the vicinity of the project area.

- Species Under Special Protection - Threatened, Endangered, or Candidate Species: Any species that is known to occur or could occur in the Chesapeake Bay or near the CCNPP site that is afforded special protection under the federal Endangered Species Act, or under the equivalent State of Maryland law, is defined as an important species.

- Commercially Harvested Species: Finfish and shellfish that rely on habitat in the vicinity of the CCNPP site during any life stage, and are commercially harvested to a substantial degree, are considered important resources.

- Recreational Target Species: Finfish and shellfish that rely on habitat in the vicinity of the CCNPP site during any life stage, and are preferentially taken by recreational anglers or trappers to a substantial degree are considered important resources.

- Keystone Species: Any species that is essential to maintaining the structure and function of the estuarine ecosystem in the vicinity of the CCNPP site will be identified as important.

- Indicator Species: A species whose abundance, distribution, or condition is known or believed to be a reliable predictor of the status of another species of interest is considered an important species.

In addition, Section 5.3.1.2 includes information regarding additional estuarine and marine species not discussed in this section, e.g., Weakfish (Cynoscion regalis), Summer Flounder (Paralicthys dentatus), Spotfin Killifish (Fundulus luciae), and the Soft Shell Clam (Mya arenaria). These estuarine and marine species were determined not to be important species as defined above, because they do not meet any of the six criteria.

2.4.2.2.1 Description of Important Species

Each important species is described in terms of the following parameters, which provide a context within which site-related effects may be measured and interpreted:

- Critical life support (natural history) requirements, including spawning areas, nursery grounds, food habits, feeding areas, wintering areas, and migration routes (including maps)

- Temporal and three-dimensional spatial distribution and abundance, especially in the discharge area and receiving water body (including maps)

- Seasonal catch data (location, volume, and value) for commercially and recreationally important species
- Existing stressors and adverse effects not related to the proposed project

2.4.2.2.2 Threatened or Endangered Species

Two fish and two sea turtle species in the project area are afforded special protection under the Endangered Species Act: the Shortnose and Atlantic Sturgeon, and the Loggerhead and Kemp's Ridley Turtle.

2.4.2.2.2.1 Shortnose Sturgeon

The Shortnose Sturgeon (*Acipenser brevirostrum*) is an anadromous bony fish that has historically inhabited sluggish tidal rivers and nearshore marine waters of the western Atlantic coast, including Chesapeake Bay. The ancestral range of this species is believed to extend from the St. John River in New Brunswick, Canada, to the St. Johns River in Florida. It moves up river channels to spawn in fresh water. Although this fish once supported an enormous international export business, the stock plummeted during the 1900s due to overharvesting. The Shortnose Sturgeon was listed as federally endangered in 1967, and is considered extremely rare under Commonwealth of Maryland law. Deteriorating water quality (especially low dissolved oxygen) and placement of dams that restrict its access to historical spawning grounds have likely inhibited the strong comeback that could have been expected once legal protections were put in place.

In 1979, Baltimore Gas and Electric researchers captured a Shortnose Sturgeon during trawl studies in the vicinity of the CCNPP site. Other isolated individuals may use the area intermittently; however, no Shortnose Sturgeon is known to have spawned in the Chesapeake in decades. In August, 2006, a female with eggs was captured as she swam up the Potomoc, supposedly to spawn. It is not known whether she spawned, but biologists consider it doubtful, since males are exceedingly rare in the area. Another female was captured near the Choptank River entrance in 2007. Intensive efforts by biologists to document the presence of this species in the Chesapeake are ongoing. No Shortnose Sturgeon has been captured in impingement samples at CCNPP Units 1 and 2.

2.4.2.2.2.2 Atlantic Sturgeon

A larger, longer-lived relative of the Shortnose Sturgeon, the Atlantic Sturgeon (*Acipenser oxyrhynchus*) once supported a robust fishery in the Chesapeake Bay. It is currently on the candidate species list maintained by NOAA Fisheries, because it is undergoing a status review under the Endangered Species Act. The decline of the Atlantic Sturgeon was not as sudden or steep as that of the Shortnose Sturgeon, but its populations are currently depleted. In late 1997, a moratorium on the harvest of wild Atlantic Sturgeon was implemented and remains in effect until there are at least 20 protected year classes in each spawning stock, which may take up to 40 or more years.

The sturgeon's dependence on both estuarine and freshwater habitat makes it susceptible to harm from habitat degradation due to pollution, physical barriers to spawning areas, channelization or elimination of backwater habitats, de-watering of streams, and physical destruction of spawning grounds.

The MDNR conducted a trial stocking experiment in 1996 to investigate the viability of juvenile hatchery fish that were released on the Eastern Shore. During the subsequent 5 years, 14% of the juveniles were recaptured, suggesting that habitat conditions were adequate to

support growth and survival. Recent changes to the water quality goals in the Chesapeake Bay are expected to result in habitat improvements for both sturgeon species.

2.4.2.2.2.3 Atlantic Loggerhead Turtle

Loggerheads (*Caretta caretta*) occur throughout the temperate and tropical regions of the Atlantic, Pacific, and Indian Oceans. The Loggerhead is the most abundant species of sea turtle found in U.S. coastal waters, including the Chesapeake Bay. Approximately 2,000 to 10,000 young Loggerheads forage in the bay each summer for horseshoe crabs, jellyfish, and mollusks. They are most often seen near the mouths of rivers, in water greater than 13 ft (4 m) deep. Most sightings are in the Virginia portion of the bay, where salinity is higher. In addition to the well-known juveniles, it has been reported that up to 5% of the Loggerheads in Chesapeake Bay are adult females who are taking time off between nesting efforts.

The stock structure of the U.S. population of Loggerheads is poorly understood. Some evidence suggests that individuals nesting in Georgia represent a population distinct from the Florida nesters. If so, the northern population may be more severely threatened. NOAA Fisheries suggests that it may become necessary to consider listing them as endangered. Adult Loggerheads are known to make extensive migrations between foraging areas and nesting beaches. The Virginia Institute of Marine Science Sea Turtle Program actively tracks individuals that nest on Virginia beaches in an effort to determine the migration routes of these turtles. At present, the place of origin of an individual turtle cannot be determined. Turtles feeding in the Chesapeake Bay may represent a number of nesting populations worldwide.

At the global level, the primary threat to Loggerhead turtle populations is incidental capture in fishing gear, especially in longlines and gillnets, but also in trawls, traps and pots, and dredges. NOAA Fisheries is currently implementing a program to evaluate the incidence of bycatch of sea turtles in various types of gear, including pound nets in the Chesapeake Bay.

2.4.2.2.2.4 Kemp's Ridley Turtle

The Kemp's Ridley Turtle (*Lepidochelys kempii*) is one of the smallest of the sea turtles, with adults reaching about 2 ft (0.6 m) in length and weighing up to 100 lbs. The Kemp's Ridley Turtle has been on the endangered species list since 1970. Nesting occurs in spring on Mexican beaches. After leaving the nesting beach, hatchlings are believed to become entrained in eddies within the Gulf of Mexico, where they are dispersed within the Gulf and Atlantic by oceanic surface currents until they reach about 7.9 in (20 cm) in length, (or about two years of age) at which size they enter coastal shallow water habitats.

A sizeable group of the Kemp's Ridley Turtle spends the summers in the Chesapeake Bay, although most remain in the higher salinity waters of the Virginia portion of the bay. This turtle is a shallow water benthic feeder with a diet consisting primarily of crabs.

The principal threats to this species occur on the nesting beaches, where both deliberate and accidental disturbances interfere with nesting success and in accidental take by fisheries vessels. Restoration of the species requires protecting sub-adult and adult animals by the use of turtle excluder devices on shrimp trawls wherever turtles occur.

2.4.2.2.3 Harvested Fish

Nine species of fish that are harvested commercially or recreationally in the Chesapeake Bay are considered important in the project area, as shown in Table 2.4-6.

2.4.2.2.3.1 American Shad

The American Shad (*Alosa sapidissima*) is one of six shad and herring species to occur in the Chesapeake Bay. From January to June, shad older than about four years old enter the Chesapeake Bay to spawn in fresh or near-fresh tributaries as far north as the Susquehanna River. Shad usually complete the spawning run without feeding and move far enough upstream for the eggs to drift downstream and hatch before reaching saltwater. After spawning, the adult either dies or resumes its long pelagic migration. Within a month, young fish are feeding on zooplankton in the Chesapeake Bay. More than 70% die before leaving the estuary.

Historically, it is likely that American Shad spawned in suitable waters across the Atlantic coast. Current spawning runs are limited by physical barriers as well as degraded water quality. These impediments to spawning, added to overharvesting, spurned Maryland to implement a fishing moratorium in 1980. Virginia concurred in 1994, making it illegal to harvest American Shad anywhere in the Chesapeake Bay. Stocks are being enhanced in three ways: (1) Restoring native spawning habitat by removing dams or building fishways; (2) supplementing wild stocks with hatchery fish; and (3) improving water quality.

A low of several hundred American Shad per year was reported in the early 1980s. The most recent data available show an average of 101,140 per year between 2003 and 2005. The increased abundance falls short of the long term restoration goal of two million fish per year. The Atlantic States Marine Fisheries Commission has identified habitat areas of particular concern for the American Shad, including spawning sites; nursery areas; inlets that provide access to coastal bays, estuaries and riverine habitat upstream to spawning grounds; and sub-adult and adult nearshore ocean habitat.

The abundance of the closely related Hickory Shad (*Alosa mediocris*) dropped so low in the Chesapeake Bay in the late 1970s that a moratorium on commercial and recreational capture in Maryland's portion of the Chesapeake Bay was implemented in 1981. Although the population is increasing, the moratorium remains in place. Ocean landings of hickory shad are still allowed and Maryland recorded landings less than 4000 lb (1800 kg) in 2004.

2.4.2.2.3.2 Bay Anchovy

The Bay Anchovy (*Anchoa mitchilli*) is the most abundant fish in the Chesapeake Bay. Through predator-prey relationships, the Bay Anchovy forms a link between zooplankton and top game fish. Striped bass, bluefish, and other sport fish, as well as some birds and mammals, depend on the abundance of Bay Anchovy to sustain them. In one study, Bay Anchovy accounted for up to 65% of the biomass consumed by striped bass in the Bay.

The Bay Anchovy spawns throughout the Bay. In summer months from 1995 to 2000, Bay Anchovy eggs comprised more than 94% of the fish eggs in the plankton of the Middle Bay portion of the Chesapeake Bay. More than 75% of all larval fish collected in ichthyoplankton tows were Bay Anchovy.

The Bay Anchovy is not commercially harvested. However, Bay Anchovy populations in the Chesapeake Bay fluctuate annually. Since 1994, the Bay Anchovy population in the Chesapeake Bay has been on a long term decline, the first ever recorded for the species. In recent years, recruitment of Bay Anchovy has been lower than expected, based on the various trawl surveys. Although the specific causes of the decline are not well understood, it is known that oxygen levels below 3.0 mg/l can be lethal to eggs and larvae. Dissolved oxygen greater than 2.0 mg/ l is critical for adult survival.

2.4.2.2.3.3 Atlantic Menhaden

Like the Bay Anchovy, the Atlantic Menhaden (*Brevoortia tyrannus*) is a key component of the estuarine food web, consuming plankton and small fish while being consumed by larger predatory fish. Adults are present in near proximity to the CCNPP site year round. In the Middle Bay, spring egg collections were comprised of more than 80% menhaden. Unlike the Bay Anchovy, however, the Atlantic Menhaden is directly targeted by commercial harvesters. In 2004, more than 3 million lb (1.4 million kg) were landed in Maryland.

Atlantic Menhaden stocks across the Atlantic coast are stable. However, reduced abundance in the Chesapeake Bay, a key nursery area, has been reported. Due to the concern over the steady decline in recruitment in the Chesapeake Bay, fisheries managers have recently (starting in 2006) capped the commercial harvest of Atlantic Menhaden for 5 years. The limits on harvest of Atlantic Menhaden are based on the importance of Atlantic Menhaden to predatory fish, including the striped bass and bluefish.

2.4.2.2.3.4 Atlantic Croaker

The Atlantic Croaker (*Micropogonias undulates*) is one of the top ten recreational finfish in the Chesapeake Bay. Adults are abundant in the bay from March to October. They move offshore and south along the Atlantic coast in the fall. Juveniles are present essentially year round. Spawning occurs over the shelf in fall and winter.

The Atlantic Croaker is a bottom-feeding generalist, consuming benthic invertebrates and some fish. It is associated with muddy substrates in depths less than 400 ft (120 m), in a wide range of salinity and temperature conditions. All of the major predatory fish in the Chesapeake Bay, including striped bass, flounder, shark, spotted seatrout, other croaker, bluefish and weakfish, include croaker in their diet.

The Atlantic Croaker is a perennial favorite of the human population, as well, ranking within the top 10 species caught by anglers. Historically, the Chesapeake Bay region accounted for the majority of Atlantic Coast croaker landings. Recreational landings in the region have been declining since 1986.

After a sharp decline in commercial landings during the 1970s and 1980s, Atlantic croaker landings in Maryland increased to close to 1 million lb (454,000 kg) per year for most of the 1990s. In fact, commercial landings in 2001 were higher than at any time since 1956, indicating a rebound of the Atlantic Croaker fishery in the Chesapeake Bay.

2.4.2.2.3.5 Striped Bass

The Striped Bass (*Morone saxitilis*) is the dominant predator in the Chesapeake Bay. Juveniles and adults occur in the Chesapeake Bay year round. The abundance and distribution of the Striped Bass affect countless other species, including the Atlantic Menhaden. Juvenile Striped Bass feed on zooplankton and benthic invertebrates. Adults eat a variety of other important fish, including Bay Anchovy, Atlantic Menhaden, Spot, Atlantic Croaker, and White Perch.

This large anadromous species has a complex life history that centers on the Chesapeake Bay, where historically, about 90% of the Atlantic population spawned. Distribution patterns are influenced by the age, sex, degree of maturity and the river in which they were born. Successful completion of the striped bass life cycle requires a variety of habitats including spawning sites, nursery areas, passages between inland spawning and estuarine nursery habitats, and offshore wintering grounds.

Commercial and recreational landings in the Chesapeake Bay generally increased from the 1930s through the mid-1970s, then declined sharply through the mid-1980s. Aside from direct overfishing, it is thought that low dissolved oxygen increased stress on the fish, making them susceptible to disease. A moratorium on all striped bass fishing in Maryland in 1985, and in Virginia in 1989, allowed the population to rebound. According to the Maryland Department of Natural Resources (MDNR), 602,506 lb (273,292 kg) of striped bass were harvested from the south central area of the Chesapeake Bay near the CCNPP site in 2004. This was one of the top 10 years of greatest harvest since data collection began in 1944. Concerns about the future of this fishery remain. A large percentage of striped bass appear to be malnourished and up to 70% of the population is infected with mycobacteriosis, a type of wasting disease. The impact of this disease of sustainability of the stock is not well understood at this time.

2.4.2.2.3.6 Spot

The Spot (*Leiostomus xanthurus*), like the Atlantic Croaker, occupies a middle position in the Chesapeake Bay food web, as a consumer of benthic invertebrates and as prey for striped bass, bluefish, weakfish, shark and flounder. The Spot is a generalized omnivorous bottom feeder that ranges throughout the Chesapeake Bay from April through October. The Spot is broadly tolerant of temperature and salinity fluctuations. Spawning occurs offshore, then the young move into the estuary for rearing.

In addition to their central role in the food web, Spot are important to both commercial harvesters and recreational anglers. Inter-annual variability in spawning conditions leads to unpredictable landings. No long term declines, however, have been noted. Commercial landings are highest during the fall migration out of the Chesapeake Bay, when they are taken as by-catch from the pound net fishery in the lower Bay. According to MDNR, commercial catches in Maryland have exceeded 100,000 lb (45,000 kg) annually since 1998.

2.4.2.2.3.7 White Perch

White Perch (*Morone americana*) migrate from the open Chesapeake Bay into the tidal-fresh portions to spawn from April to June over the sandy bottoms of brackish or tidal-fresh rivers. Young White Perch remain nearshore downstream from their hatching areas for several months, foraging for insect larvae and crustaceans. Adult White Perch overwinter in the deeper channels of the Chesapeake Bay. They never move into the open ocean. White Perch are heavy consumers of fish eggs, including those of the striped bass.

The White Perch is considered a delicious table fish, and supports an important recreational fishery in the Chesapeake Bay. It is also commonly taken as by-catch by commercial harvesters. Large schools of White Perch are vulnerable to capture when they aggregate in large schools to feed on herring. According to MDNR, commercial catches in Maryland have exceeded 1 million lb (453,000 kg) annually since 1995.

2.4.2.2.3.8 Bluefish

The migratory Bluefish (*Pomatomus saltatrix*) visits the Chesapeake Bay area from spring to fall; it spawns offshore in the Chesapeake region in July. Juvenile Bluefish move into the bay during late summer. Larger juveniles and adult bluefish have broad habitat tolerances, and range throughout the Chesapeake Bay in search of forage fish. Its diet is varied, consisting of fish species at all depths, including Atlantic Menhaden, Weakfish, and Croaker. As a large, mobile predator, it competes with the striped bass for food.

About 20% of the Bluefish caught commercially in the U.S. are landed in the Chesapeake Bay, making bluefish a significant fishery in the area. The majority of the catch is in the Virginia

portion of the Chesapeake Bay. Historic highs and lows in the harvest have occurred during the last 70 years. Until about 1992, commercial landings of Bluefish in Maryland routinely exceeded 200,000 lb (90,000 kg) annually. Although overall stocks of Bluefish in the Atlantic are increasing, landings in the Chesapeake Bay are on the decline, possibly due to over harvesting. According to MDNR, about 52,000 lb (23,000 kg) of Bluefish were landed by commercial fishermen in 2004.

The Bluefish ranked first in number and weight among sportfish in the Chesapeake Bay for nearly 20 years, until the current decline began in 1990. Recreational landings outnumber commercial landings by at least 5 times. MDNR implemented a management plan in 1990 in response to concerns about declining regional bluefish stocks.

2.4.2.2.3.9 American Eel

The American, or common, Eel (Anguilla rostrata) is a widely distributed catadromous species, which lives predominately in rivers, lakes and estuaries, but spawns in the Atlantic Ocean. The American Eel is abundant year-round in all tributaries to the Chesapeake Bay. During the 5 to 20 years the American Eel spends in the Chesapeake Bay, it feeds at night on insects, mollusks, crustaceans, worms, and other fish.

In all its life stages, the American Eel is an important prey species, as it is consumed by a variety of fish, aquatic mammals, and birds. The American Eel is caught in commercial eelpots. Most eels landed in the Chesapeake Bay area are juveniles, or "glass eels," which are exported to Europe and Asia. Recreational anglers do not typically target the eel for consumption, although they are often bought for use as bait for striped bass and other sport fish.

In 2005 the Atlantic States Marine Fisheries Commission determine that eel abundance had fallen since the late 1970s to mid-1980s, and was at or near historic lows along the entire Atlantic coast. The decline was not attribute to any particular cause although several possible factors such as harvest, habitat loss, predation, hydroturbine mortality, disease, parasitism, and reduced fecundity resulting from pollution were noted. The commercial catch in 1981 was more than 700,000 lb (317,000 kg) in both Maryland and Virginia, but has been declining ever since.

The American Eel is currently being considered for special protection under the Endangered Species Act, which may affect the way the species is managed by the Atlantic States Marine Fisheries Commission. The American Eels mature slowly (reproducing at age 8 to 24 years), and are vulnerable to targeted harvest during seasonal migrations, which occur before the first spawning of new adults.

2.4.2.2.4 Harvested Invertebrates

Two species of invertebrates have been historically important to commercial and recreational harvesters near the CCNPP site, and throughout the Chesapeake Bay: the Blue Crab and the American Oyster. Both species are now severely depleted, and under strict management provisions.

2.4.2.2.4.1 Blue Crab

The Blue Crab (*Callinectes sapidus*) plays a vital role in the Chesapeake Bay region as both predator and prey. The Chesapeake Bay is the largest producer of crabs in the country, supporting major commercial and recreational fisheries. In most years, at least 30% of the nation's Blue Crabs come from Chesapeake Bay waters. According to the CBP, annual commercial harvests can approach 100 million lb (45.4 million kg) of crab.

Blue Crabs range from the upper Chesapeake Bay near freshwater tributaries down to the mouth of the Chesapeake Bay. Although mating occurs in the areas near the CCNPP site, the females typically migrate down-bay to a spawning and hatching area approximately 70 mi (110 km) south of the CCNPP site, where an appropriate salinity of approximately 23 to 28 parts per thousand occurs.

The number of mature female Chesapeake Bay Blue Crabs, or spawning stock, remains below the long term average. The 2006 winter survey conducted by MDNR showed that the total number of crabs in the Chesapeake Bay was low compared with historical averages, but stable. In 2006, the Chesapeake Bay Foundation issued a Chesapeake Bay score of 38%, or grade C for the Blue Crab. Reasons for the observed reduction in harvest are complex, but may include over-harvesting, loss of habitat, and degradation of water quality. Juvenile crabs are closely tied to submerged aquatic vegetation, and may suffer a decline when submerged aquatic vegetation is unavailable for use as habitat and nursery grounds. Crabs are bottom feeders, and can be sensitive to low dissolved oxygen near the substrate.

2.4.2.2.4.2 American Oyster

The American Oyster (*Crassostrea virginica*) is highly valued in the Chesapeake Bay, but has been declining since the late 1800s due to over-harvesting, parasites, and poor water quality. After 2 to 3 weeks in the plankton, or as weak swimmers, larval oysters attach to the Chesapeake Bay substrate in a place where they will become permanently attached as adults. From there, a healthy oyster provides many services to the Chesapeake Bay ecosystem, including filtering the water, producing planktonic larvae that feed a variety of larval fish, and creating a physical structure with its shell that many other animals use for shelter and foraging.

Efforts to restore the oyster fishery include expanding the amount of clean, hard surfaces for oyster spat (juvenile oysters) to settle, increasing the number of breeding adult oysters and developing methods for controlling oyster diseases.

Oyster breeding and nursery areas occur near the CCNPP site. New beds were created during CCNPP Units 1 and 2 construction to mitigate habitat loss. However, oysters have not occurred in sufficient number for commercial fishery near the CCNPP site since at least 1971.

2.4.2.2.5 Other Important Resources

In addition to the fish and invertebrates already mentioned, submerged aquatic vegetation and plankton are considered important resources in the project area.

2.4.2.2.5.1 Submerged Aquatic Vegetation

Submerged aquatic vegetation (SAV) includes a group of about 16 rooted plant species that live within the shallows of the Chesapeake Bay and its tributaries. This vital resource provides refuge and nursery habitat for numerous organisms, increases the structural complexity of the bottom, adds oxygen to the water, and prevents erosion and sedimentation. In addition, microscopic algae and protozoa use the leaves of SAV as attachment locations. Small fish are attracted to these areas for feeding. Decaying leaves are consumed by zooplankton, which are then eaten by larval fish.

SAV is considered an indicator group because the plants respond quickly and dramatically to degradation of water quality. At one time, SAV covered about 200,000 shallow and shoreline acres (81,000 hectares) of the Chesapeake Bay. Acreage has fluctuated widely over the past few decades. In 2004, bay grasses covered 72,935 acres (29,516 hectares). Although this value

represented an increase over previous years, it is still only about 42% of what experts believe to be necessary for complete restoration of function. Acreage of SAV in the middle and lower Chesapeake Bay has diminished even more significantly over the past decade. In addition, late in 2005 much of the SAV in the lower Chesapeake Bay died, possibly due to high temperatures.

In 2006, the Chesapeake Bay Foundation issued a Chesapeake Bay score of 18% (failing grade) in the SAV category. No SAV were located during the surveys conducted to support CCNPP Unit 3 in the immediate vicinity of the CCNPP site.

2.4.2.2.5.2 Plankton (Phytoplankton and Zooplankton)

The term plankton refers to organisms of the open water that drift on currents and tides. Phytoplankton are plants or algae that manufacture their own food using nutrients in the water. Zooplankton are animals that generally consume phytoplankton. A small but significant component of the plankton consists of bacterial cells. Although most plankton are tiny, they range in size from microscopic bacteria and plants to larger animals, such as jellyfish.

In the Chesapeake Bay, plankton provides the nutritional support for the entire fisheries industry. Plankton are short-lived and highly responsive to both positive and negative environmental changes. As such, plankton are useful indicators of overall environmental quality. Phytoplankton abundance is a readily visible measure of invisible nutrient loads in the Chesapeake Bay. The composition and abundance of zooplankton are predictors of near term fisheries abundance, as most larval fish rely on zooplankton to grow to a size large enough to compete as a predator. Some species, such as Blueback Herring, Alewife, and Shad, rely on mesozooplankton food their entire lives. The influence of zooplankton on Striped Bass and White Perch in Chesapeake Bay is well-documented. Striped Bass, White Perch, and Yellow Perch depend on mesozooplankton and microzooplankton as larvae, and shift to larger prey as they grow. The role of zooplankton in the Chesapeake Bay is an area of active research.

Zooplankton are categorized by size as the barely visible microzooplankton (20 µm - 0.2 mm) and mesozooplankton (0.2 - 20 mm), and the more familiar macrozooplankton (20 mm - 20 cm), which includes ctenophores (Comb Jellyfish), shrimp, amphipods, euphausiids, and larval fish. The megazooplankton (20 cm - 2 m) are the true jellyfish.

The overall health of the zooplankton in the Chesapeake Bay is suboptimal, and worsening in most reaches:

- Despite universal improving trends, zooplankton food levels for migratory fish larvae are currently inadequate in most major spawning/nursery areas.
- Sharp declines in mesozooplankton abundance were noted in almost all of the middle and lower Chesapeake Bay mainstem and lower tributary reaches. At the station nearest to the CCNPP site (just north of the CCNPP site), a 32% drop in abundance from 1984 to 2002 was reported.
- In contrast, abundances of the smaller microzooplankton increased in the mid Chesapeake Bay. The overall zooplankton food base for important forage fish such as bay anchovy, menhaden, and immature stages of other resident species is declining and shifting to smaller sizes.

However, some positive trends have been documented, likely in response to improvements in water quality.

- Significant increases in mesozooplankton abundance indicate an improving trend in the overall food base for fish in some areas, especially where water quality significantly improved, as in the Patuxent River.

Relationships among various components of the plankton are complex, and not well-understood. For example, phytoplankton food quality, which is influenced by water quality, appears to be an important factor affecting mesozooplankton. However, high phytoplankton biomass does not necessarily produce high mesozooplankton abundances. The specific phytoplankton groups, such as diatoms, influence the success of the zooplankton that consume them.

Monitoring of phytoplankton using a Phytoplankton Index of Biotic Integrity showed that about 9% of the Chesapeake Bay's phytoplankton communities were considered healthy in Spring 2005.

2.4.2.2.6 Nuisance Species

No nuisance aquatic species occur in the vicinity of the CCNPP site.

2.4.2.3 Habitat Importance

Onsite streams and ponds were described in terms of the typical surface water habitats in the area. Headwater streams in general are considered important; however, there is nothing of regional significance about these particular streams. All of the onsite aquatic species mentioned in this section are common in the area. No loss of onsite stream and pond critical habitat is expected.

The Chesapeake Bay is considered important estuarine habitat to most, if not all, of the estuarine species identified in the area. However, none of the important species in the vicinity of the project are endemic to Chesapeake Bay. All of them range widely throughout the mid-Atlantic coast, and most occur in the Gulf of Mexico, as well.

The portion of the Chesapeake Bay nearest the CCNPP site is of lower relative importance than other areas of the bay. Estuarine species that use the bay as nursery grounds need the submerged aquatic vegetation (SAV) and tidal marshes for nutrient-rich forage for the larvae and young of the year, as well as for protective cover from predators. The area near the CCNPP site has no SAV, and does not provide critical habitat for any species.

The National Marine Fisheries Service (NMFS) designated Essential Fish Habitat (EFH) for each life stage of federally managed marine fish species in the Chesapeake Bay area; the bluefish is the only important species in the project area that is federally managed, and for which EFH has been designated. EFH is defined in Title 50 CFR Section 600.10 (CFR, 2007c) implementing the EFH provisions of the Magnuson-Stevens Fishery Conservation and Management Act (USC, 1996) as those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity. Bluefish eggs and larvae are found only offshore, so no EFH occurs in Chesapeake Bay. For juvenile bluefish, all major estuaries between Penobscot Bay, Maine and St. Johns River, Florida, are EFH. Generally juvenile bluefish occur in North Atlantic estuaries from June through October, Mid-Atlantic estuaries from May through October, and South Atlantic estuaries March through December, within the "mixing" and "seawater" zones. Adult bluefish are found in North Atlantic estuaries from June through October, Mid-Atlantic estuaries from April through October, and in South Atlantic estuaries from May through January in the "mixing" and "seawater" zones. Bluefish adults are highly migratory and distribution varies seasonally and according to the size of the individuals comprising the

schools. Bluefish are generally found in normal shelf salinities (greater than 25 parts per thousand).

Four threatened and endangered aquatic species known to occur in the area include two species of sturgeon and two species of sea turtles. No sturgeon is known to have spawned in the Chesapeake in decades. The sea turtles that occasionally use the Chesapeake Bay spawn much further south, outside the Chesapeake Bay watershed.

2.4.2.4 Other Preexisting Environmental Stresses

Pollution, nutrient enrichment, and over-harvesting of estuarine species are among the key threats to the health of the Chesapeake Bay. Based on conditions throughout 2006, the Patuxent River Watershed portion of the Chesapeake Bay received a grade of D- (23%) based on very poor water clarity and chlorophyll *a*, moderate dissolved oxygen conditions, poor benthic and phytoplankton scores, and loss in bay grasses.

Section 2.4.2.1.2.3 includes information on the types of stresses that organisms have experienced.

2.4.2.5 Transmission and Access Corridors

There are no new offsite transmission or access corridors associated with CCNNP Unit 3.

2.4.3 References

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Table 2.4-1— Important Terrestrial Species and Habitats

(Page 1 of 2)

Name	Common Name	Description	Location	Rationale
		Mammals		
Odocoileus virginianus	White-tail Deer	Large, herbivorous mammal. Favors forest edge habitat. Game species.	Observed frequently in all habitats in the CCNPP site area. Likely to be abundant elsewhere on the CCNPP site and surrounding landscape.	Recreationally valuable species
		Birds		
Piranga olivacea	Scarlet Tanager	Neotropical migratory bird that breeds in North America in late spring and early summer and winters in Central and South America in fall and winter. Favors large tracts of forest, especially forest with lots of dead or declining trees, for breeding territory.	Heard frequently throughout forested areas on the CCNPP site. Likely common in other forested areas in surrounding landscape.	Designated as "Forest Interior Bird" (FIB) by Maryland Department of Natural Resources
Haliaeetus leucocephalus	Bald Eagle	Large, piscivorous (fish-eating) bird.	Maryland Natural Heritage Program has a record of a nest on the Chesapeake Bay shoreline in the southern part of the CCNPP site, just south of the CCNPP Unit 3 construction area. Observed flying along cliffs east of the CCNPP site.	Federal Protected Maryland Threatened
		Insects		
Cicindela dorsalis dorsalis	Northeastern Beach Tiger Beetle	Small beetle inhabiting sandy beaches.	Cliffs and beaches (primarily beaches) on Chesapeake Bay (eastern edge of the CCNPP site and north of CCNPP Units 1 and 2).	Federal Threatened Maryland Endangered
Cicindela puritana	Puritan Tiger Beetle	Small beetle inhabiting sandy shores on fresh and brackish waters. Limited to shorelines of Connecticut River in Connecticut and Chesapeake Bay in Maryland. Feeds on other insects (i.e., insectivorous). Spends approximately 23 months of roughly 2 year life cycle in shallow underground tunnels in sand.	Cliffs and beaches on Chesapeake Bay (eastern edge of the CCNPP site).	Federal Threatened Maryland Endangered
		Plants		
Centrosema virginianum	Spurred Butterfly Pea	Perennial forb.	Maryland Natural Heritage Program has record of occurrence on the CCNPP site southwest of the CCNPP Unit 3 construction area. Observed in August 2006 in John's Creek floodplain.	Maryland Rare
Kalmia latifolia	Mountain Laurel	Evergreen woody shrub.	Forms dense stands in the understory of many upland forested areas throughout the CCNPP Unit 3 construction area, the CCNPP site, and surrounding landscape.	Ecosystem Critical, Biological Indicator

Table 2.4-1— Important Terrestrial Species and Habitats
(Page 2 of 2)

Name	Common Name	Description	Location	Rationale
Liriodendron tulipifera	Tulip Poplar	Deciduous tree.	Dominant tree in most upland forest areas in the CCNPP Unit 3 construction area, the CCNPP site, and surrounding landscape.	Ecosystem Critical, Biological Indicator
Quercus prinus	Chestnut Oak	Deciduous tree.	Dominant tree in most sloping and dry upland forest sites in the CCNPP Unit 3 construction area, the CCNPP site, and surrounding landscape.	Ecosystem Critical, Biological Indicator
Quercus shumardii	Shumard's Oak	Deciduous tree.	Possible occurrence in John's Creek floodplain.	Maryland Threatened
Solidago speciosa	Showy Goldenrod	Perennial forb with showy yellow flowerheads consisting of hundreds of small yellow flowers.	Several locations on forest edges in Camp Conoy.	Maryland Threatened
Thelypteris noveboracensis	New York Fern	Perennial fern.	Forms dense groundcover in large patches in Mesic Deciduous Forest and Bottomland Deciduous Forest.	Ecosystem Critical, Biological Indicator
Habitats				
Herbaceous Marsh Vegetation		Dominated by sedges, rushes, bulrushes, and grasses and forbs typical of poorly drained soils.	Fringes of Lake Conoy and other ponds; floodplain areas on the CCNPP Unit 3 construction area and elsewhere on the CCNPP site that lack tree canopy.	Wetland Floodplain
Poorly Drained Bottomland Deciduous Forest		Dominated by red maple, sweet gum, and black gum with understory of ferns.	Primarily in bottoms of stream valleys.	Wetland Floodplain
Well-Drained Bottomland Deciduous Forest		Dominated by tulip poplar, American beech, sweet gum, black gum, and red maple.	Primarily in bottoms of stream valleys.	Wetland Floodplain
Flag Ponds Nature Park		327 acres (132 hectares) park comprising a matrix of sandy beach, tidal marsh, freshwater marsh, freshwater pond, and forest habitats.	Directly north of the CCNPP Unit 3 construction area.	County-Owned Preserve
Calvert Cliffs State Park		3,030 acres (1,226 hectares) forested park containing same upland and wetland habitats as natural areas on CCNPP site area. 1079 acres (436.7 hectares) are designated as wildland area and 550 acres (222.6 hectares) are designated as public hunting area.	Directly south of the CCNPP Unit 3 construction area.	State-Owned Preserve

Table 2.4-2— Survey Results for John's Creek (Fall 2006)

Parameter	Upstream (JCUS-01)**	Downstream (JCDS-01)**
Total Number of Individual Invertebrates	1,628	1,414
Total Number of Invertebrate Taxa	29	33
Total Number of Individual Fish	4	105
Total Number of Fish Species	1	8
Overall Habitat Quality *	147	167

Notes:
* Any value greater than 139 is considered optimal.
** Sample points from biological survey

Table 2.4-3— Survey Results for Goldstein Branch (Fall 2006)

Parameter	GB-01**
Total Number of Individual Invertebrates	1,238
Total Number of Invertebrate Taxa	24
Total Number of Individual Fish	65
Total Number of Fish Species	7
Overall Habitat Quality *	149

Notes:
* Any value greater than 139 is considered optimal.
** Sample point from biological survey

Table 2.4-4— Dip Net Survey Results for Lakes and Ponds (Fall 2006)

Parameter	Lake Davies	Pond 1	Pond 2	Lake Conoy
Total Number of Individual Invertebrates	10,719	2,972	1,817	4,157
Total Number of Invertebrate Taxa	14	20	21	31
Total Number of Individual Fish	81	8	56	213
Total Number of Fish Species	1	4	5	6

Note:
Overall habitat quality values are only calculated for streams.

Table 2.4-5— Summary of Functions and Values for Assessment Areas

Function or Value	Wetland Assessment Areas *								
	I	II	III	IV	V	VI	VII	VIII	IX
Functions									
Groundwater Recharge/Discharge	X	X	X	X	X		X	X	
Floodflow Alteration									
Fish and Shellfish Habitat		X			$\boxed{X}$		X		
Sediment/Toxicant Retention		X	X	X	$\boxed{X}$	X	X	X	
Nutrient Removal		X	X	X	$\boxed{X}$	X	$\boxed{X}$	X	
Production Export		X	X	X	$\boxed{X}$	X	X	X	
Sediment/Shoreline Stabilization		X			X	X			
Wildlife Habitat	X	$\boxed{X}$	$\boxed{X}$	$\boxed{X}$	$\boxed{X}$	X	$\boxed{X}$	$\boxed{X}$	X
Values									
Recreation		$\boxed{X}$	X	X	X		X	X	
Educational/Scientific Value			X	X	X			X	
Uniqueness/Heritage		X	X	$\boxed{X}$	$\boxed{X}$			X	
Visual Quality/Aesthetics		X						X	X

Legend:
X
Function or Value Present
$\boxed{X}$
Function or Value Principal
Note:
* As shown in the Wetlands Delineation Study

Table 2.4-6— Important Species in the Chesapeake Bay Near the CCNPP Site

Species (*Scientific Name*)	Commercially Harvested	Recreational Target	Keystone Species	Indicator Species
Threatened and Endangered Species				
Shortnose Sturgeon * Acipenser brevirostrum				
Atlantic Sturgeon Acipenser oxyrhynchus	**X (Moratorium since 1997)**			
Atlantic Loggerhead Turtle * Caretta caretta				
Kemps Ridley Turtle * Lepidochelys kempii				
Harvested Fish				
American Shad Alosa sapidissima	**X**			
Bay Anchovy Anchoa mitchilli	**X**		**X**	
Atlantic Menhaden Brevoortia tyrannus	**X**		**X**	**X**
Atlantic Croaker Micropogonias undulatus	**X**	**X**		
Striped Bass Morone saxitilis	**X**	**X**		
Spot Leiostomus xanthurus	**X**	**X**		
White Perch Morone americana	**X**	**X**		
Bluefish Pomatomus saltatrix	**X**	**X**		
American Eel Anguilla rostrata	**X**	**X**		
Harvested Invertebrates				
Blue Crab Callinectes sapidus	**X**	**X**		
American Oyster Crassostrea virginica	**X**			**X**
Other Important Resources				
Submerged Aquatic Vegetation (SAV)			**X**	**X**
Plankton			**X**	**X**

Note:

* Threatened and Endangered Species are not allowed to be taken in the Chesapeake Bay.

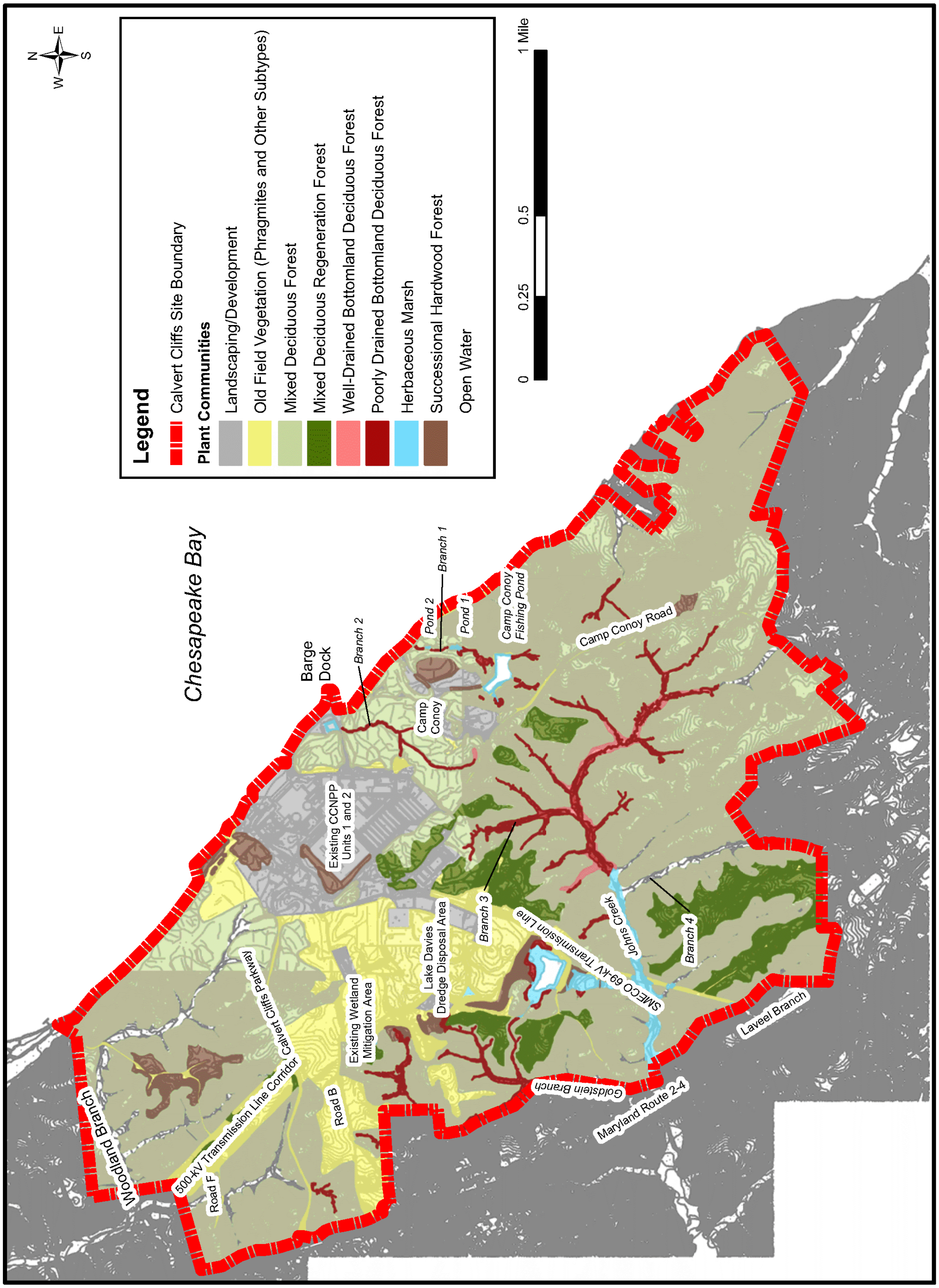
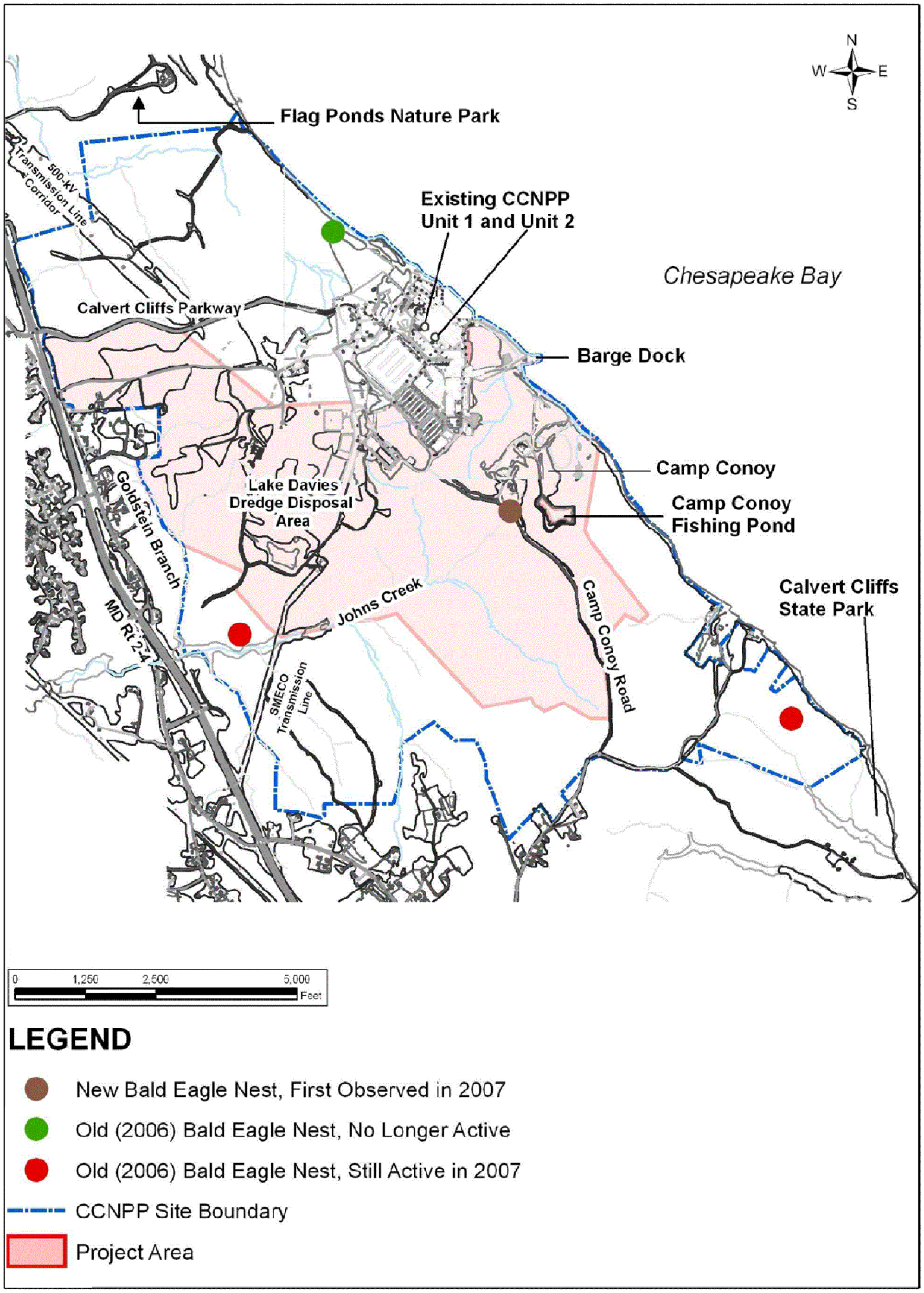


Figure 2.4-1— Plant Community (Natural Habitat Map)

Figure 2.4-2— Approximate Locations of Known Bald Eagle Nests – April 2007



2.5 SOCIOECONOMICS

This section describes the socioeconomic characteristics of the areas that could potentially be impacted by the construction and operation of Calvert Cliffs Nuclear Power Plant (CCNPP) Unit 3 on the CCNPP site. This section contains four subsections: 1) Demography, 2) Community Characteristics, 3) Historic Properties, and 4) Environmental Justice. These sections include a discussion about the socioeconomic characteristics of the 50 mi (80 km) comparative geographic area and the two-county region of influence (ROI)) that includes Calvert County and St. Mary's County, which are the primary areas of concern for the socioeconomic impact assessment. In addition, socioeconomic characteristics are also described for the 10 mi (16 km) emergency planning zone and the 2 mi (3.2 km low population zone (LPZ), which are consistent with NUREG-1555 (NRC, 1999).

The 50 mi (80 km) comparative geographic area was established by using the CCNPP site as the center point and drawing a 50 mi (80 km) radius circle around the CCNPP site. This comparative geographic area is consistent with NUREG-1555 (NRC, 1999), as a basis for conducting the socioeconomic analyses and evaluating the potential radiological and accident impacts.

The region of influence (ROI) for the socioeconomic analyses include Calvert County and St. Mary's County, Maryland. The borders of these counties extend less than 30 mi (48 km) from the CCNPP site. These adjacent counties are located in the southern part of Maryland on a peninsula bounded by the Chesapeake Bay and the Patuxent River. Potential socioeconomic impacts, if any, arising from the proposed plant are likely to be confined to these two counties because a majority of the existing workforce for CCNPP Units 1 and 2 reside in these counties and it is assumed that the potential in-migrating construction and operational workforces for CCNPP Unit 3 are most likely to reside in this same two-county ROI. As of November 2006 a total of 833 employees work at the CCNPP site. Of this total, 793 of them are Constellation Energy employees and 40 are contractors. As shown in Table 2.5-1, more than 91% of the current workforce at CCNPP resides in Calvert County or St. Mary's County. Of the 833 employees at the CCNPP site, approximately 560 (67%) of the workers had a home address in Calvert County and approximately 200 (24%) of these workers had a home address in St. Mary's County.

2.5.1 Demography

2.5.1.1 Current Demographic and Economic Characteristics

The following sections describe the current demographic and economic characteristics for the 50 mi (80 km) comparative geographic area, the two-county region of influence, the 10 mi (16 km) emergency planning zone, and the 2 mile (3.2 km) LPZ. Most demographic data generated by the U.S. Census Bureau and used in this analysis are from the year 2000, sometimes updated to 2003, 2004 or 2005, in order to have comparable data for both counties in the region of influence. Census Bureau data is used because it is the most reliable, most often cited, and most detailed data available for comparison of multiple jurisdictions or areas. The U.S. Census Bureau gathers more detail and updates demographic data more often in the metropolitan areas than in the non-metropolitan or micro communities. In some cases recent socioeconomic data is was not available for St. Mary's County.

2.5.1.1.1 50 mi (80 km) Geographic Area of Comparison

Figure 2.5-1 presents geographical details of the area within a 50 mi (80 km) radius of the CCNPP site. The map shows overlaying circles which mark 10, 20, 30, 40, and 50 mi (16, 32, 48, 64, and 80 km) distances from the CCNPP site.

The nearest major population centers within about 50 mi (80 km) of the CCNPP site are Washington, D.C., located approximately 55 driving miles (88 km) to the northwest and Annapolis, Maryland, 50 driving miles (80 km) to the north. Smaller cities and towns within 50 driving miles (80 km) include Glenarden, 50 driving miles (80 km) away, North Beach, 26 driving miles (42 km), La Plata at 36 driving miles (58 km), Leonardtown which is 20 driving miles (32 km) and Seat Pleasant at 49 driving miles (79 km). Calvert County is part of the Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Statistical Area (MSA) and shares a high degree of economic and social integration with the metropolitan area. St. Mary's County is a part of the much smaller Lexington Park, Maryland Micro Area.

Table 2.5-2 (USCB, 2000c) (USCB, 2005) presents the demographic data for the residential population within each of the five 10 mi (16 km) circles radiating from the CCNPP site. These demographic characteristics – age and sex distributions, racial and ethnical distributions, and household income figures – are presented to familiarize the reader with the statistical profile of a portion of southern Maryland in 2000.

In 2000, approximately 90%, or 2,878,003 people, of the 3,195,170 people that resided within the 50 mi (80 km) radius of the CCNPP site lived more than 30 mi (48 km) from the CCNPP site. Within the 50 mi (80 km) radius, less than 7% were under 5 years old, 76% were 18 years old or older, and nearly 10% were 65 years old or older. Almost 52% of the population was female. The ethnic composition of the 50 mi (80 km) radius included 53% Caucasians, 36% African-Americans, and 8% were persons of Hispanic/Latino origin. Median household income in the area was $57,464 and 9% of the population lived below the poverty level. (USCB, 2000c) (USCB, 2005)

The Census Bureau does not report information about the transient population in this area.

2.5.1.1.2 Two-County Region of Influence

The two-county region of influence, Calvert County and St. Mary's County, has experienced steady population growth for the last three and one-half decades, from 1970 to 2005 (MDDP, 2005). Table 2.5-3 presents the population data for select years from 1990 to 2080 in these two Maryland counties (MDDP, 2005) (USCB, 2005). Within the ROI, the population grew an annual average of 2.36% from 1990 to 2000. From 2000 to 2010, the population of Calvert County is expected to grow an annual average of 2.5%, about two times the annual average State of Maryland population growth rate of 1.08% per year. During that same period, the population of St. Mary's County is expected to grow an annual average of 2.25%, also substantially more than the average growth rate in Maryland. The population in the ROI is expected to grow from 160,774 in 2000 to 502,840 in 2080.

Table 2.5-4 (USCB, 2005) presents data about selected demographic and economic characteristics for the years 2000 to 2004 for persons in Calvert County and St. Mary's County. The population in the ROI grew from 160,774 in 2000 to 181,355 in 2004, an annual average of 3.0%. During that same period, Calvert County grew from 74,563 people to 86,434, an annual average of 4.0%. St. Mary's County grew from 86,211 to 94,921, an annual average of 2.5%. These growth rates are significantly greater than the average annual growth rates of 1.2% for the State of Maryland and 1.1% for the U.S.

Population densities have increased noticeably in both counties from 2000 to 2005. The year 2000 population densities were 377 people per square mile in Calvert County and 239 people per square mile in St. Mary's County. In comparison, the 2005 population density in Calvert County was 409 people per square mile and the population density in St. Mary's County was

267.4 people per square mile. Nationally, the average population density was 83.8 people per square mile in 2005 (USCB, 2005).

The age compositions of Calvert County and St. Mary's County are comparable to Maryland and the U.S. for persons under 5 years of age and for persons 18 years and over. However, both counties had somewhat smaller portions of people 65 years and older than found for Maryland and the U.S. The percentage of females in all four jurisdictions was similar. (USCB, 2005)

There were also similarities in the ethnic compositions of the two counties and the U.S. These three jurisdictions had comparable percentages of Caucasians and African-Americans. However, both counties had substantially fewer people of Hispanic/Latino origins. In comparison, the State of Maryland had substantially lower proportions of Caucasians and greater proportions of African-Americans than the two counties. The State also had more than twice as many persons of Hispanic/Latino origins than the two counties. (USCB, 2005)

In 2000, 52,433 workers, or 64.9% of the workers in the two-county area, were employed in either Calvert County or St. Mary's County (USCB, 2000b). The unemployment rate in the region remains well below state and national averages. The unemployment rate in May 2006 in Calvert County was 2.8%; in St. Mary's County the unemployment rate was 3.2%. In comparison, the May 2006 unemployment rate in the State of Maryland was 4.2%, in the MSA it was 3.8%, and nationally it was 4.6% (MDDLLR, 2006). The number of jobs in the two counties is increasing at a rate that is approximately three times the rate of job expansion in the State of Maryland as a whole (MDDLLR, 2006).

The Calvert Cliffs Nuclear Power Plant is the second largest employer in Calvert County, employing 833 people to operate CCNPP Units 1 and 2. The Patuxent River Naval Air Station is the largest employer in St. Mary's County. It is the headquarters of the Naval Air Systems Command, the Naval Warfare Center Aircraft Division, home of the U.S. Naval Test Pilot School, and is the base for the VC-6 Unmanned Aerial Vehicle Detachment (MDDBED, 2002). There are 10,500 civilian and ex-military employees and 9,300 contractors. Employment at the Patuxent River Naval Air Station in FY 2005 was 20,200 persons (SMCDEC, 2006). Eighty-three percent of the Patuxent River Naval Air Station employees lived in either St. Mary's County or Calvert County (MDDBED, 2002).

The median household income in Calvert County was $71,488 in 2003, approximately 65% higher than the national average for that year of $43,318. The 2003 median household income in St. Mary's County of $58,651 was approximately 35% higher than the national average that year (USCB, 2005). Much of the relatively high median household income can be attributed to growth in the number of higher income households in both counties as the area continues to attract highly paid technical and professional personnel associated with the technology base industries.

Table 2.5-5 (USCB, 2000c) presents the same demographic and economic information for several towns or communities within the two-county ROI that includes Calvert County and St. Mary's County, as described above.

2.5.1.1.3 10 mi (16 km) Emergency Evacuation Area

Figure 2.5-2 displays overlaying circles which mark 1, 2, 3, 4, 5, and 10 mi (2, 3, 5, 6, 8, and 16 km) distances from the CCNPP site. The area within a 10 mi (16 km) radius of the CCNPP site is predominately rural, dominated by farmland and forests, clusters of residential communities,

and by the waters of the Chesapeake Bay. Cities and recognizable unincorporated but named communities within a 10 mi (16 km) driving distance of the CCNPP site include California, Calvert Beach-Long Beach, Chesapeake Ranch Estates-Drum Point, Lusby, and Prince Frederick.

2.5.1.1.3.1 Overall Demographic and Economic Characteristics

As shown in Table 2.5-6 (USCB, 2000b), an estimated 40,745 people reside within a 10 mi (16 km) radius of the CCNPP site. The greatest concentrations of people appear to be located to the south of the CCNPP site.

Detailed information about the distribution of racial minority populations and low income populations within a 10 mi (16 km) radius of the site is discussed in Section 2.5.4.

2.5.1.1.3.2 Transient Population Levels

The term "transient" is used in this analysis to mean persons who live (are domiciled) outside the referenced area, but may be predictably expected to be in the area at some point. In this analysis, "transient population" includes:

- workers, also referred to as commuters, who live permanently outside of the area but who commute to a worksite within the two-county ROI (Calvert County and St. Mary's County) on a regular basis;
- persons who live outside the area but travel at least 50 mi (80 km) from their home to visit, shop, or tend to personal business or to conduct business within the region;
- tourists and visitors recreating in the area; and
- seasonal workers employed in the agriculture sector.

A "visitor" in this study is considered to be a transient when the following definition is met: the individual travels, at least 50 mi (80 km) each way, into the area for the day, and seeks overnight accommodations. Individuals who simply travel through the area from a point outside the area to a destination outside the area are not included in this definition.

SECPOP 2000, a code developed for the Nuclear Regulatory Commission by Sandia National Laboratories to calculate populations by emergency planning zone sectors (NRC, 2003), was used to develop projections of the resident and transient populations by sectors, within the 10 mi (16 km) radius around the CCNPP site. Population projections for the years 2010 through 2080 were projected by using years 1990 and 2000 U.S. census data (USCB, 2005, USCB, 2000c and USCB 2000a), updated with estimates from 2001, 2002, 2003, 2004, 2005 and 2006 (USCB, 2008) as the baseline data. Additional county census projection data was obtained for 2010, 2015, 2020. and 2030 for Delaware and Maryland (MSDC, 2008 and SD, 2008), and 2010, 2020, and 2030 for Virginia and the District of Columbia (USCB, 2008 and VDA, 2008). The population estimates were projected from 2040 to 2080 using linear and quadratic equations fit to population trend lines calculated from USCB and state generated county population projections (DEDO, 2000) (MDP, 2005) (VEC, 2006). This data and these growth rates were then used to develop the subsequent projections. The population distribution for each time period was computed in SECPOP 2000 by overlaying the 2000 census block point data (the smallest unit of census data) on the grid of this calculation package.

The Calvert Cliffs Units 1 and 2 Evacuation Time Estimate report was used to obtain the estimated transient population (CCNPP, 2002). This report is distributed to the State of

Maryland and the Calvert County, St. Mary's County, and Dorchester County Emergency Management Agencies.

Table 2.5-6 presents population distributions, by residential population and transient population in 2000, within each of sixteen geographic directional sectors at radii of 0 to1 mi (0 to 2 km), 1 to 2 mi (2 to 3 km), 2 to 3 mi (3 to 5 km), 3 to 4 mi (5 to 6 km), 4 to 5 mi (6 to 8 km), and 5 to10 mi (8 to 16 km) from the CCNPP site.

Commuters

Table 2.5-7 summarizes the commuting patterns to and from the ROI. The ROI experienced a net loss of 20,931 persons during the work week/work day/work hour period based on 2000 Census Bureau County-to-County Worker Flow survey data (USCB, 2000b). This out-commuting represents a significant change to the population base in the area of interest.

Visitors/Tourists

Recreational use is considered to be the primary contributor to the transient population in the area. The Southern Region of Maryland, a term designated by the Maryland Office of Tourism Development to include Calvert County, St. Mary's County, and Charles County, had 541,791 visitors in 2004 (MDDBED, 2005). Major parks within the 10 mi (16 km) radius include Calvert Cliffs State Park and Flag Ponds Park.

Calvert Cliffs State Park, in the immediate vicinity of the CCNPP site, covers 1,400 acres (567 hectares) with 1,079 acres (437 hectares) designated as a wild land area. The park features 1.3 mi (2.1 km) of shoreline beneath fossil-bearing, 15 million year old cliffs (MDDNR, 2005). The park also includes a camping area, Bay Breeze Youth Campground, which is used by organized groups such as the Girl Scouts for camping. Calvert Cliffs State Park had 17,113 day visitors from July 2005 to June 2006 (FY 2006) and 2,175 overnight visitors. The peak month for day users was October with 5,650 people and the peak month for overnight users was July with 875 people. The month with the most visitors of both types was October with 6,035.

Flag Ponds Park, which is operated by the Calvert County Natural Resources Division, is open seven days a week from Memorial Day to Labor Day and weekends after that. The park has hiking trails and picnicking and receives approximately 20,000 annual visitors, primarily during the three summer months.

Seasonal Workers in Agriculture

No farm in Calvert County or St. Mary's County employed seasonal, migrant workers in 2004. In addition, it is highly unlikely that seasonal agricultural migrant workers would be hired in the area in the future because the number of farms and the acres devoted to farming in the region has been declining as the land is increasingly converted to non-farm uses. (MDHRSA, 2000)

2.5.1.1.4 Low Population Zone

The LPZ is defined as a 2 mi (3.2 km) radius from the midpoint between the CCNPP Units 1 and 2 reactors. The 1.5 mi (2.4 km) radius from CCNPP Unit 3 is fully contained within this larger LPZ definition. Figure 2.5-3 shows both the CCNPP Unit 3 and the existing LPZ.

2.5.1.1.4.1 Overall Population Levels

As shown in Table 2.5-8 (CCNPP, 2002), 2,508 people resided in the LPZ in the year 2000. The communities of Lusby and Calvert Beach-Long Beach lie within the LPZ, as well as a portion of the Chesapeake Bay. Portions of Calvert Cliffs State Park and Bay Breeze Youth Campground,

along with the majority of Flag Ponds Park also fall within the LPZ. No nursing homes, hospitals, prisons, or major employers (other than CCNPP) are known to exist within the LPZ (CCNPP 2002). One school, the Southern Middle School at 9615 HG Trueman Road in Lusby, is located within the LPZ 1.9 mi (3.1 km) south of CCNPP Units 1 and 2. This school had a combined student and faculty population of 771 (CCNPP, 2002).

The demographics in the LPZ are most closely compared to the Calvert Beach-Long Beach Census Designated Place (CDP) as shown in Table 2.5-5. This is the closest CDP within the LPZ.

2.5.1.1.4.2 Transient Population Levels

There is considerable variation in peak daily and seasonal transient population levels within the LPZ. Winter daytime population with its one large school (771 students and staff) sees the highest population. Of course, this occupancy is minimal at night. Residents in the LPZ would have the highest population at night as many workers commute to points beyond the LPZ during the day. The LPZ population would be lowest in the summer, when school is not in session.

2.5.1.2 Demographic Projections

As described above for transient population estimates, SECPOP 2000 (NRC, 2003) was used to calculate population projections for the years 2010 through 2080, using 2000 U.S. Census data as the baseline data (DEDO, 2000) (MDP, 2005) (USCB, 2005) (VEC, 2006).

2.5.1.2.1 50 mi (80 km) Comparative Impact Area

Table 2.5-9 presents the 2000 estimated population in concentric rings around the CCNPP site. Table 2.5-9 also displays the projected population within those rings from 2010 to 2080. CCNPP Unit 3 is estimated to start operation in 2015 and operate for 40 years until 2055. Population projections, in 10 year increments, have been provided through the year 2080. Populations for 2015, the estimated startup year, have also been provided.

Within the 50 mi (80 km) radius of the site, the average annual percent change for the 10 year periods range from 0.62% (for the years 2070 to 2080) to 1.28% (for the years 2000 to 2010). The average annual change in population between the years 2000 and 2080 is projected to be 0.87%, doubling the current population (an aggregate 100% increase over the 80 year period). Calvert County is currently the fastest growing of the 23 counties in the State of Maryland; St. Mary's County is the third fastest growing. Calvert County's population grew by an annual average of 4.0% from 2000 to 2004; St. Mary's County grew by an average annual of 2.5% during the same period. (NRC, 2003) (USCB, 2000c)

Table 2.5-10 (NRC, 2003, USCB, 2005, USCB, 2000c, DEDO, 2000, MDP, 2005, VEC, 2000) presents residential population projections from the years 2000 through 2080 for each of the 16 geographic sectors to 50 mi (80 km) from the CCNPP site. Demographic characteristics for the residential population in the years beyond 2000 are assumed to reflect the ratios found in year 2000.

2.5.1.2.2 Two-County Region of Influence

Within the ROI, which is comparable to the 30 mi radius in Table 2.5-9, average annual population changes ranged from 6.4% for the 2070 to 2080 period to 13.6% for the 2000 to 2010 period. Population levels would increase from 315,592 in 2000 to 632,417 in 2080, an average annual increase of 0.87% (an aggregate of 100% increase over the 80 year period). (NRC, 2003) (USCB, 2000c).

2.5.1.2.3 10 mi (16 km) Emergency Evacuation Area

The population projections in Table 2.5-8 reflect an upper limit of the estimated projected population at various points during the next several decades. Average annual population changes would range from 13.6% for the 2000 to the 2010 period to 6.3% for the 2070 to 2080 period. Population levels would increase from 40,745 in 2000 to 81,633 in 2080, an average annual increase of 0.87% (an aggregate of 100.4% increase over the 80 year period) (NRC, 2003) (USCB, 2000c).

2.5.1.2.4 Low Population Zone

The population within the LPZ, including years 2015 and 2055, the estimated initial year of operation for CCNPP Units 3, and the year of license expiration are provided in Table 2.5-8. Average annual population changes would range from 4.0% for the 2020 to the 2030 period to 28% for the 2000 to 2010 period. Population levels would increase from 2,508 in 2000 to 6,047 in 2080, an average annual increase of 1.8% (an aggregate of 141% increase over the 80 year period).

2.5.1.3 References

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2.5.2 Community Characteristics

A number of areas are used to define community characteristics for the two county ROI, Calvert County and St. Mary's County, Maryland. These characteristics include:

- the economy in the ROI,
- the political structure of the region,

- social structure information,
- the housing in the area,
- primary, secondary, and post secondary education in the region,
- recreation activities near the CCNPP site,
- tax structure in the region,
- land use in Calvert and St. Mary's Counties,
- community infrastructure and public services available to residents of the ROI including water, sewer, police, fire, emergency medical service, hospitals, and doctors,
- transportation in the two county area, and
- a profile of any distinctive communities in the ROI.

As described in Section 2.5.1, the region of influence (ROI) is limited to Calvert County and St. Mary's County. Calvert County is included because it is the county in which the proposed CCNPP Unit 3 will be located and significant portions (67%) of the existing CCNPP Units 1 and 2 maintenance and operations work forces live there (see Table 2.5-11) . St. Mary's County is also included in the ROI because significant portions (24%) of the CCNPP Units 1 and 2 maintenance and operations work forces also currently live there. A significant portion of the construction, maintenance, and operations work force for the proposed plant is also expected to live in Calvert County or St. Mary's County. The ROI is limited to these two counties because any stress to community infrastructure and services caused by changes in the work force as a result of the proposed plant would be expected to occur in these two counties. No other county or urbanized area's community services are expected to receive stress from the proposed plant. Information about the construction industry's labor force in the Washington DC Metropolitan Statistical Area (MSA) is included because portions of the construction and operations work force could be drawn from this area.

Figure 2.5-1 and Figure 2.5-2 are maps of the vicinity of the CCNPP site. The maps display basic geographical features such as rivers, roads, cities, and airports within a 50 mi (80 km) and 10 mi (16 km) radius of the plant and displays county boundaries.

Community characteristics of the general population in the ROI have been compared to data obtained on low income and racial minority populations in the ROI. The findings are presented in Section 2.5.4.

2.5.2.1 Area Economic Base

2.5.2.1.1 50-Mile (80 km) Geographic Area of Comparison

Table 2.5-12 (MDDLLR, 2006a), displays data about the size of the total civilian labor force, the number of employed civilians, the number of unemployed civilians, and the rate of unemployment in October 2006 for the U.S., the state of Maryland, the Washington DC MSA, Calvert County, and St. Mary's County. The Washington DC MSA includes the District of Columbia and 5 counties in the state of Maryland, 12 counties and 5 cities in Virginia, and 2 counties in West Virginia. The Washington DC MSA had a total civilian labor force of 583,647 in October 2006, of which 22,689 (3.9%) were unemployed. In comparison, the state of Maryland had a civilian labor force of more than 3 million people with an unemployment rate of 3.7%

and the United States had a civilian labor force of somewhat less than 152 million with an unemployment rate of 4.4%. (MDDLLR, 2006a)

The Washington DC MSA could provide construction, operations, and maintenance workers for the proposed CCNPP Unit 3. Table 2.5-13 (BLS, 2005) presents data about the construction and extraction occupational labor force in the MSA, which includes Calvert County (St. Mary's County is part of the much smaller Lexington Park Maryland Micro Area). In May 2005, 108,860 people were employed in construction and extraction jobs in the MSA. These workers earned mean salaries of $19.04 per hour and $39,610 per year.

2.5.2.1.2 Two-County Region of Influence

Generally, the economy across the ROI can be viewed as being economically diverse, healthy, and stable. Employment in the professional and technical services, health care and social services, state and local government, and in the civilian branch of the federal government account for the 33,186 jobs or 39% of the employment in the ROI (MDDP, 2005). The relative high average salaries of workers in the ROI are directly attributable to the large number of positions in these industrial sectors.

The construction industry makes up a relatively small portion of total employment in the ROI, representing slightly more than 10% of employment in Calvert County and less than 5% in St. Mary's County (MDDLLR, 2006a). Within the three county areas called "Southern Maryland," construction labor is the seventeenth fastest growing occupation, and is expected to increase from 1,610 jobs in 2002 to 2,030 in 2012. Construction manager jobs are expected to increase in this area from 610 jobs in 2002 to 805 jobs by 2012. Construction equipment operator jobs in this area are expected to increase from 435 jobs in 2002 to 585 jobs in 2012 (MDDLLR, 2006b).

Employment in fishing, forestry, and agricultural services has witnessed a decline in the last two decades. Employment in the farming sector, alone, also has been in decline for the last twenty years as the region has experienced pressures from the rapid population growth.

2.5.2.1.3 Calvert County

Calvert County is a fast growing bedroom community of Washington D.C. and is part of that MSA. The principle economic centers within Calvert County are the towns of North Beach and Chesapeake Beach. The unincorporated but recognizable communities or "town centers" that serve as nuclei for residential, commercial, and light industrial activity and development include Calvert Beach-Long Beach, Chesapeake Ranch Estates-Drum Point, Dunkirk, Huntington, Lusby, Ownings, Prince Frederick, St. Leonard, and Solomons. The county seat is Prince Frederick.

As shown in Table 2.5-12 (MDDLLR, 2006a), Calvert County had a civilian labor force of 47,247 people in October 2006, of which 45,971 were employed and 1,276 (2.7%) were not employed. During the same month, the Washington DC MSA's unemployment rate was 3.9%, the state of Maryland's was 3.7%, and the national unemployment rate was 4.4% (all unemployment percentages are seasonally adjusted figures). Calvert County added 7,849 jobs from 2000 to 2005, thus experiencing a 19.9% aggregate growth in jobs in five years (MDDLLR, 2006).

Table 2.5-14 (MDDLLR, 2006a) presents total, governmental, and private sector employment data by industrial sector, within Calvert County, St. Mary's County and the ROI. A total of almost 21,000 people were employed in Calvert County in 2005 (see the table note regarding this total), with almost 3,800 people employed in the governmental sector and over 17,000

people employed in the private sector. The largest governmental employment sector was the local government with over 3,400 employees, and the largest private sector employer was the trade, transportation, and utilities sector with more than 4,700 employees (MDDLLR, 2006a).

Calvert County has 1,770 businesses, of which 15 businesses employ 100 or more workers each. As shown in Table 2.5-15 (MDDLLR, 2006a), major non-governmental employers in Calvert County in 2005 included Calvert Memorial Hospital with 915 employees, Constellation Energy with 833 employees (excluding contractors), ARC of Southern Maryland with 375 employees, Walmart with 310 employees, DynCorp with 296 employees, and Recorded Books with 291 employees (MDDLLR, 2006a).

The fastest growing private industries from 2004 to 2005 in Calvert County and St. Mary's County are presented in Table 2.5-16 and Table 2.5-17 (MDDLLR, 2006a). Within Calvert County, the credit intermediation sector was the fastest growing sector with a 32.3% increase. Other sectors experiencing more than 10% growth included merchant wholesalers of durable goods (17.4%), general merchandise stores (12.4%), and transit and ground passenger transportation (10.8%) (MDDLLR, 2006a).

2.5.2.1.4 St. Mary's County

Within St. Mary's County, the town of Leonardtown represents an economic hub. Unincorporated communities or town centers within the county include California, Charlotte Hall, Golden Beach, and Lexington Park. As shown in Table 2.5-12 (MDDLLR, 2006a), St. Mary's had a civilian labor force of 50,375 people in October 2006, of which 48,793 were employed and 1,582 (3.1%) were not employed. During the same month, the Washington DC MSA's unemployment rate was 3.9% (MDDLLR, 2006c), the state of Maryland's was 3.7%, and the national unemployment rate was 4.4% (all unemployment percentages are seasonally adjusted figures) (BLS, 2005) (USCB, 2006a). St. Mary's added 5,668 jobs from 2000 to 2005, thus experiencing a 12.3% growth in the number of jobs in the five year span.

As shown in Table 2.5-14 (MDDLLR, 2006a) a total of almost 37,600 people were employed in St. Mary's County in 2005 (see table note regarding this total), with more than 11,000 people employed in the governmental sector and almost 26,500 people employed in the private sector. The largest governmental employment sector was the federal government with almost 6,900 employees. Local governmental employment was similar to Calvert County. The largest private sector was the professional and business sector with more than 8,600 employees, followed by the trade, transportation, and utilities sector with almost 6,500 employees (MDDLLR, 2006a).

St. Mary's County has over 1,830 businesses, of which 37 businesses employ 100 or more workers each. As shown in Table 2.5-16 (MDDLLR, 2006a), the largest employers in the county include Patuxent River Naval Air Station (NAS) with 10,500 employees in 2005, DynCorp/CSC with 1,500 employees, EMA with 1,000 employees, St. Mary's Hospital with 900 employees, and BAE Systems with 854 employees.

The Patuxent River NAS plays a significant role in the county's economy. This facility includes the U.S. Naval Air Systems Command, and the Naval Air Warfare Center Aircraft Division, and also provides employment for 200 defense contractors (MDDBED, 2006). In 2005, the Patuxent NAS directly employed about 3,000 military personnel and about 7,500 civilians. In addition, its supporting contractors employed about 9,400 workers. Major defense-related employers supporting the Patuxent NAS included BAE Systems Lockheed Martin, Northrop Grumman, Titan Systems, Wye Laboratories, and Boeing.

In St. Mary's County, see Table 2.5-17 (MDDLLR, 2006a), three industrial sectors experienced similar growth from 2004 to 2005. The transit and ground passenger transportation sector experienced 11.7% growth, the miscellaneous store retailer sector experienced 11.6% growth, and the nursing and residential care facilities sector experienced 11.0% growth (MDDLLR, 2006a).

2.5.2.2 Area Political Structure

2.5.2.2.1 50-Mile (80 km) Comparative Geographic Area

The 50 mi (80 km) radius centered at the CCNPP site includes all or parts of 2 counties in Delaware, 14 counties in Maryland, 16 counties in Virginia, and the District of Columbia. Data gathering and planning agencies within the 50 mi (80 km) radius of the CCNPP site include the Maryland Department of Planning, the Delaware Economic Development Office, the Virginia Employment Commission, and the U.S. Census Bureau. Individual cities, towns, and counties within the 50 mi (80 km) radius, but outside of the ROI, are represented by their respective, previously mentioned state planning/economic departments because no impacts would be expected to occur to community services in these areas.

As described in Section 2.5.4.1, there are no federally recognized Native American tribes within the 50 mi (80 km) radius of the site, so no Native American tribes are represented in major planning functions within the area. However, the Piscataway-Conroy Confederacy, a non-recognized Indian Tribe, is located in La Plata in Douglas County, Maryland (NAL, 2006).

2.5.2.2.2 Two-County Region of Influence

Calvert County is governed by a Board of County Commissioners. The board consists of five members elected county wide. Each of the three county districts must have at least one board member who is a resident of that district. Two other members serve at large. Officers of the Board include a President and Vice President who are elected by majority vote of the Board members. County departments include: Community Resources; Economic Development; Finance and Budget; General Services: Personnel; Planning and Zoning; Public Safety; Public Works; Technology Services and Transportation (CCCAFR, 2005).

The county of St. Mary's is governed by a Board of County Commissioners consisting of five members. Four of these members represent one district each. Districts are defined by election districts. For example, the first Commissioner District includes the 1st, 2nd, and 9th election district. The 2nd Commissioner District includes the 3rd and 6th election districts, and so forth. the Commission President is elected at large. St. Mary's County departments include the: Department of Aging; County Attorney; Economic and Community Development; Finance; Marcey Halfway House; Information Technology; Human Resources; Land use & Growth Management; Public Works and Transportation; Recreation and Parks; and, Public Safety (SMC, 2006).

Many of the towns in both Calvert and St. Mary's Counties such as Lusby and Solomons, the nearest population centers to the CCNPP site, are census designated places but have no political or tax structure independent of the County (LMP, 2006). This includes Prince Frederick, the Calvert County seat.

Incorporated towns include Leonardtown in St. Mary's County and North Beach, Calvert County. North Beach governance is based on a Town Council and Mayor. Its departments include Administration, Public Works, Town Clerk, and Code Enforcement. Its tax structure is based on property at $0.67 per hundred assessed value in addition to sewer and water fees (MD, 2007). Leonardtown governance is based on a Board of Commissioners. Town

departments include Administration, Planning and Zoning, Board of Appeals and Water and Wastewater Treatment.

There are no federally recognized or non-recognized Native American tribes within the ROI, so no Native American tribes are represented in major planning functions within the area (NAL, 2006).

2.5.2.3 Area Social Structure

Calvert County and St. Mary's County comprise a relatively affluent area, offer water vistas and open lands, and lie within commuting distance of the Washington DC MSA. Two indicators of the affluence in an area are the median household income and the poverty levels. As shown in Table 2.5-18 (USCB, 2005), the 2005 median household income was $84,388 in Calvert County, significantly greater than the $61,592 median household income for the state of Maryland and the $46,242 for the U.S. From 2000 to 2005, Calvert County's median household income grew at an average annual rate of 5.6%, noticeably faster than the 3.3% for the state of Maryland and the 2.0% average annual increase for the U.S. Table 2.5-19 (USCB, 2005) provides similar information about mean salaries in Calvert County and other jurisdictions for 2005. As shown in Table 2.5-18, Calvert County's 5.5% of individuals below the poverty level is much less than the 8.2% for the state of Maryland and the 13.2% for the U.S. (USCB, 2005)

The 2005 median household income was $62,939 in St. Mary's County, negligibly greater than the $61,592 median household income for the state of Maryland and significantly greater than the $46,242 for the U.S. From 2000 to 2005, St. Mary's County's median household income grew at an average annual rate of 3.0%, slightly less than the 3.3% for the state of Maryland but noticeably greater than the 2.0% average annual increase for the U.S. St. Mary's County's 9.0% of individuals below the poverty level is slightly greater than the 8.2% for the state of Maryland and much less than the 13.2% for the U.S. (USCB, 2005).

The populations of Calvert County and St. Mary's County are aging, as represented by their rising median ages. In 2000, Calvert County had a median age of 36 years and St. Mary's County had a median age of 34 years. These medians were similar to the state median age of 36 years and the national median of 35 years (USCB, 2005).

2.5.2.4 Housing

Table 2.5-20 (USCB, 2000c) presents information gathered by the U.S. Census Bureau about the residential and rental housing markets in Calvert County and St. Mary's County in 2000. The ROI had a total of 61,657 housing units in 2000. Of these units, 56,089 were occupied and 5,568 (9.0%) were unoccupied. Of the total number of occupied units in the ROI, 22.1% were occupied by renters. There were significantly more year-around units available than seasonal or occasional units, with 3,348 units available year-around and 2,220 units available seasonally (USCB, 2000c).

Future housing needs will be determined by population growth, vacancy rates, and persons per household trends. As shown in Table 2.5-21 (MDDP, 2006), the number of single and multifamily residential building permits issued annually in the ROI increased from 1,435 permits in 2001 to 1,909 permits issued in 2004. However, in 2005 the number of approved permits for construction decreased to 1,481, a decrease of 428 permits or 22.4% from 2004.

In addition to the single family housing units in the ROI, rental units include 33 apartment/ townhouse complexes (see Table 2.5-22, Apartments, 2007), and 24 hotel, motels, and bed and breakfasts with 1,202 units (see Table 2.5-23) in the two-county ROI. Within the greater

roughly 30 mi (48 km) radius, an additional 7 hotels and motels with 571 units are available in Charles County and Prince Georges County. Many of the apartment/townhouse complexes require a minimum of a 6 to 12 month lease. Hotels and motels are the most occupied (80% or more) during the summer season from about April through August, and Mondays through Wednesdays during the business week.

There are no Native American reservations nor any housing reserved for Native Americans in the ROI.

2.5.2.4.1 Calvert County

As shown in Table 2.5-20 (USCB, 2000d), Calvert County had a total of 27,576 housing units in 2000, and a significantly larger proportion of single family units than the 2005 Maryland state average of 76% (MDDP, 2006). Of the total units, 25,447 were occupied and 2,129 (7.7%) were unoccupied. Of the total number of occupied units in Calvert County, 14.8% were occupied by renters. The unoccupied units were relatively equally comprised of units available year-around and those available only seasonally or occasionally, with 1,125 units available year-around and 1,004 units available seasonally. Of the available housing units in 2000, the vast majority of units had plumbing and kitchen facilities, with the exception of 146 units (USCB, 2000c).

Despite the apparent availability of housing in 2000, discussions with county agency representatives indicate that the current availability of new houses or rental houses might be much more limited than indicated by the census data.

As shown in Table 2.5-21 (MDDP, 2006), the number of single and multifamily residential building permits issued annually in Calvert County decreased over four years, from 928 permits issued in 2002 to 488 permits issued in 2005. From 2004 to 2005 alone, the number of approved permits for construction decreased from 525 in 2004 to 488 in 2005, a decrease of 37 permits or 7.0%. No multi-family units were approved or built in either year.

Housing prices have significantly increased in Calvert County, nearly quadrupling in value over the past decade. The median value of an owner occupied unit in Calvert County in 2000 was $169,200 (USCB, 2000c). From 2003 to 2004, prices for residential properties rose 13.7%, with 1,628 units sold at a median price of $259,900 in 2004. In 2005, the median price of the 1,675 residential units sold in Calvert County was $325,000, up by 25% from 2004. In 2006, the sale price of many four bedroom houses in the northern half of the county averaged $800,000. (MLS, 2006).

In 2000, the gross median rent was $837 per month in Calvert County (USCB, 2000c).

In addition to the single family housing units in the ROI, rental units include 5 apartment/ townhouse complexes (see Table 2.5-22, Apartments, 2007), and 8 hotel, motels, and bed and breakfasts with 655 units (see Table 2.5-23) in Calvert County. Many of the apartment/ townhouse complexes require a minimum of a 6 to 12 month lease. Hotels and motels are the most occupied (80% or more) during the summer season from about April through August, and Mondays through Wednesdays during the business week.

2.5.2.4.2 St. Mary's County

As shown in Table 2.5-20 (USCB, 2000c) (USCB, 2006), St. Mary's County had a total of 34,081 housing units in 2000, and a significantly larger proportion of single family units than the 2005 Maryland state average of 76% (MDDP, 2006). Of the total units, 30,642 were occupied and 3,439 (10.1%) were unoccupied. Of the total number of occupied units in St. Mary's County,

28.2% were occupied by renters. There were almost twice as many year-around units available as seasonal or occasional units, with 2,223 units available year-around and 1,216 units available seasonally. Of the available housing units in 2000, the vast majority of units had plumbing and kitchen facilities, with the exception of 432 units (USCB, 2000c).

Despite the apparent availability of housing in 2000, discussions with county agency representatives indicate that the current availability of new houses or rental houses might be more limited than indicated by the census data. They stated that the housing market is not nearly as tight as it was 2 to 3 years ago when the vacancy rates may have been as low as 2% or 3%. Builders were offering a number of incentives to entice purchasing of single-family houses by new home buyers, and two new housing developments were in the process of being completed at the time of discussions with the agency representatives.

As shown in Table 2.5-22 (MDDP, 2006), the number of single and multifamily residential building permits issued annually in St. Mary's County increased from 2001 through 2004, from 549 permits issued in 2001 to 1,384 permits issued in 2004. This was followed by a decrease in the number of permits issued from 2004 to 2005. In 2004, there were 1,384 permits issued for construction, of which 1,096 or 79.2% were single family units. In 2005, St. Mary's County issued 993 permits for construction, of which 963 permits or 97.0% were for single family construction. The decrease of 391 approved permits in 2005 represents a drop of 28.3% from 2004 (MDDP, 2006).

The median value of an owner occupied unit in St. Mary's County in 2000 was $150,000 (USCB, 2000c). From 2003 to 2004, prices for residential properties rose 26.3%, with 1,446 units sold at a median price of $237,950 of 2004. In 2005, the median price of the 1,731 units sold in St. Mary's County was $295,000, up 24% from the 2004 (MLS, 2006).

In St. Mary's County, the gross median rent was $719 per month in 2000 (USCB, 2000c).

In addition to the single family housing units in the ROI, rental units include 28 apartment/ townhouse complexes (see Table 2.5-22, Apartments, 2007), and 16 hotel, motels, and bed and breakfasts with 737 units (see Table 2.5-23) in St. Mary's County. High occupancy periods are similar to those for Calvert County.

2.5.2.5 Local Educational System

This section describes the school district facilities and enrollment levels in the two counties comprising the ROI. The two school districts in the ROI have a total of 51 public schools with 33,983 students enrolled (see Table 2.5-24; CCSD, 2007; SMCPS, 2007; and GS, 2007). There are also a total of 33 private schools in the ROI, with 3,814 students enrolled (see Table 2.5-25) (GS, 2007).

2.5.2.5.1 Calvert County Public and Private Schools

The Calvert County Public School System, which includes all of Calvert County, includes 4 high schools, 6 middle schools,12 elementary schools, 1 school that teaches pre-kindergarten through 12th grade, 1 Career and Technology Center, 1 Alternative School, and 1 Special Education Center (see Table 2.5-24, which has only 4 students per FTE teacher) (CCSD, 2007 and GS, 2007). The Calvert County school system opened a new high school, Huntington High School, in fiscal year 2005 and is now constructing a new elementary school. The school system employed a total of 2,209 people in the 2003-2004 school year, of which 1,256 were teachers. Current student/teacher ratios range from 15 to 20 students per full-time equivalent (FTE) teacher (with the exception of the Calvert Country School) (CCSD, 2007).

In 2006, there were 17,431 students (GS, 2007) enrolled in Calvert County public schools (Pre-K to Grade 12), which reflects an aggregate14.3% increase over a five year period (CCPS, 2005). The enrollment is expected to be 18,260 primary and secondary students in public schools in 2015, an aggregate increase of 4.8% (CCSD, 2007). Racial minorities make up approximately 15% of the student population. In comparison, schools in the state of Maryland are expected to experience an average increase of 1.8% in enrollment during the same period.

Approximately 13% of the student body receives free and reduced priced meals and approximately 18% are enrolled as Title 1 students. Approximately 18% of the students are in Special Education classes. A very small percent of the student body (0.7%) are classified as English as a second language (a Limited English proficient person, or LEP) persons (GS 2007).

The 2005-2006 fiscal year operating budget was $163,596,308, an 8.5% increase over the 2004-2005 fiscal year operating budget (CCPS, 2005). The Calvert County Public School Master Plan states that the annual percentage increase in student enrollment generally declined from 2000 to 2005: from 3.46% in 2000 to 2.53% in 2001, 3.07% in 2002, 3.09% in 2003, 1.64% in 2004, and 0.12% in 2005 (GS 2007).

The school district reports that essentially all schools, and the classrooms within them, are operating at capacity. As additional facilities are needed, the school will add modular classroom units. Despite operating at facility capacity, the system has indicated that they are not in need of additional equipment for their classrooms, and the greatest needs that they are now addressing include ongoing growth in the special services portion of the educational system (i.e., special education and other specialized teaching programs).

In addition to the public school system, Calvert County has eight private schools with 1,051 students. Current student/teacher ratios range from 6 to 18 students per FTE teacher (see Table 2.5-25, GS, 2007).

2.5.2.5.2 St. Mary's County Public and Private Schools

The St. Mary's County Public School System has 3 high schools, 1 middle/high school, 4 middle schools, 16 elementary schools, and 1 career and technology center (see Table 2.5-24, SMCPS, 2007, and GS, 2007). The district is now building a new elementary school, and feels that a new middle school and a high school would have to be built by about 2012. Current student/teacher ratios range from 11 to 21 students per FTE teacher (with the exception of the St. Mary's County Alternative Learning School, which has 5 students per FTE teacher) (CCSD, 2007).

There were 16,552 students enrolled in St. Mary's County public schools in 2006 (GS, 2007). These enrollment levels are reported to have been relatively stable over the past few years. That number is expected to grow by 8.3%, to 17,930 students by 2015 (MDDE, 2006). The State of Maryland Agency for Public School Construction reported that St. Mary's County public elementary schools had a 98.6% utilization for the 2005-2006 school year, the middle schools had a 95.4% utilization rate, and the high schools had a utilization rate of 102.1% (MDDE, 2006). Because enrollments have been relatively stable, the school district is focusing its efforts on improving performance levels (i.e., test scores) of the students.

The St. Mary's County Public School System's FY 2006 budget was $147,340,296. The St. Mary's County Public School district may experience a significant reduction in operating funds if a proposed initiative to reduce funds for Impact Aid to Local Educational Agencys (LEAs) with children associated with federal facilities but not living on the facilities is passed. The

mid-Atlantic Naval District has approved plans to move all families currently living on the Patuxent Naval Air Station to off-base, contract-owned, and contractor-operated housing. If the initiative is passed, the district will lose all impact dollars when the Navy housing plan is completed (MDDE, 2006).

In addition to the public school system, St. Mary's County has 25 private schools with 2,763 students. Current student/teacher ratios range from 8 to 31 students per FTE teacher. (see Table 2.5-25, GS, 2007)

2.5.2.5.3 Colleges and Higher Education

There are two colleges in the ROI, St. Mary's College of Maryland and The College of Southern Maryland. St. Mary's College of Maryland is located in St. Mary's City (which is not an incorporated city, town or a Census Designated Place [CDP]). It is a public, baccalaureate granting institution and had 1,908 students in the 2005-2006 school year. The College of Southern Maryland has campuses in eastern Leonardtown (St. Mary's County), western Prince Frederick (Calvert County), and in La Plata and Waldorf (Charles County). The College of Southern Maryland is a public institution awarding Associates degrees and Certificates/ Diplomas. It had a student enrollment of 4,961 people in the 2005-2006 school year (CHE, 2006).

2.5.2.6 Area Recreational Opportunities

Many of the recreational opportunities available in Calvert County and St. Mary's County involve the Chesapeake Bay and the Patuxent River, or open green spaces. Chesapeake Bay area beaches provide opportunities to swim and fish from shore. Boat ramp/launch sites and marinas provide many private opportunities for power boating, sailing, fishing from boats, crabbing, canoeing, and kayaking. Charter services provide additional commercial fishing opportunities in the area (CCMP, 2004).

Additional on-land recreational opportunities include biking, golf, and fossil hunting (CCMP, 2004). Utilization numbers and capacities for these types of venues are not recorded by the applicable agencies or departments because the utilization numbers are difficult to capture and not generally used in facilities planning activities.

2.5.2.6.1 Calvert County

The relative value of tourism to the state of Maryland is summarized by the Maryland Department of Labor (MDL, 2006). Between 2001 and 2004, the number of tourism related jobs increased from 215,073 to 230,537. The payroll value in those same years increased from \$3.5 billion to \$4.1 billion. The combined value encompassed various employment categories including scenic transportation, travel services, arts and sports, accommodations and food services. Of these, food services represented the largest value with payroll of \$2.3 billion in 2004. Southern Maryland which includes Calvert, Charles and St. Mary's county has 11,122 tourism related jobs in 2004, representing total wages of \$134.4 million.

The relative value of tourism in Calvert County has been summarized by the Maryland Department of Business and Economic Development (CCM, 2006). This report provides information on various economic parameters including labor force, employment, agriculture, income, tax base, education and tourism (pg. 16). Tourist expenditures in Calvert County during 2003, 2004, and 2005 were approximately \$59.5M, \$68.1M and \$74.9M, respectively. Expenditures within the recreational boating industry in those same years were \$38.7M, \$36.7M and \$33.8M. Tourism related county revenues derive from taxes on personnel income, admissions, amusements, hotels, restaurants and gasoline among others. Leisure and

hospitality occupations accounted for 2,963 and 2,849 jobs in 2004 and 2005, respectively, representing approximately 17.4% of private employment. Average weekly wages in the leisure and hospitality sector during 2004 and 2005 were $227 and $252, respectively. In St. Mary's County, leisure and hospitality accounted for approximately 3.293 jobs in 2006 representing 8,6% of the total employment in that County.

Calvert County has approximately 360 acres (146 hectares) of county or municipal parkland. The County has ten county-operated parks with a variety of amenities. It also has 20 baseball fields, 6 football fields, 6 basketball courts, and 10 tennis courts (CCCAFR, 2005). Other area recreational opportunities include bird watching, lighthouses, an estuarine research center, boardwalks, a rail museum, and the Arthur Storer Planetarium. (CCMP, 2004) Calvert County has several public and private golf courses, including Chesapeake Hills in Lusby and Twin Shields in Dunkirk.

Major park facilities located within the county include Calvert Cliffs State Park located south of the CCNPP site and the Flag Ponds Nature Park (CCDED, 2007a). Calvert Cliffs State Park is comprised of about 3,030 acres (1,226 hectares) of land, of which about 90% is forested, and 1.3 mi (2 km) of shoreline on the Chesapeake Bay. Common recreational activities include wildlife viewing and bird watching, swimming, fishing, hunting, fossil hunting, hiking, picnicking, and use of the playground facilities. The park has 1,079 acres (432 hectares) of designated wildlands area. Hunting of upland game (e.g., squirrels and rabbits), turkey, and deer is allowed on 550 acres (223 hectares) of the park. The park also has 6 marked and maintained hiking trails covering 13 miles (20 km), a 1 acre (0.4 hectare) stocked fishing pond next to the parking lot, 6 youth camp sites available from March 30 through October 29, and parking spaces for more than 100 cars.

Flag Ponds Nature Park is comprised of 327 acres (132 hectares) and 1 mi (1.6 km) of shoreline on the Chesapeake Bay. Common recreational activities include wildlife viewing and bird watching, swimming, fishing, hiking, and picnicking. It has over 2 mi (3 km) of hiking trails and 2 freshwater ponds.

As shown in Table 2.5-26 (DB, 2007 and CCDED, 2007b), Calvert County has four boat ramps/ launch sites, two of them only provide access for canoes and kayaks. There are also 15 marinas in which to store, rent, or charter boats, with a total of 2,422 slips (see Table 2.5-27, CC, 2007 and CCDED, 2007b). Numerous opportunities also exist to charter fishing and sightseeing boats within the county. As shown in Table 2.5-28 (CCDED, 2007b), there are seven charter boat associations with more than 100 boats available to charter (individual boats/charters are not listed because of the extensive number of them in the county).

Two campgrounds, although each is a large facility, provide limited overall camping opportunities in the county (see Table 2.5-29, GC, 2007 and CCDED, 2007a). Breezy Point Beach & Campground has 60 camp spaces and Patuxent Camp Sites has 75 campsites (GC, 2007 and CCDED, 2007a).

The Calvert County Comprehensive Plan and the Land and Recreation Plan recommend the creation of greenways throughout the county (MDDNR, 2006). Calvert County is also exploring opportunities to create water access points to the Chesapeake Bay. The Calvert County Comprehensive Plan calls for town centers to serve as focal points for community-based recreation and for development of a network of county-wide parks featuring unique natural, cultural, and historical sites (CCMP, 2004).

While Calvert County has existing recreational facilities available to residents and visitors, it also recognizes the need for facility expansion. The Calvert County Land Preservation, Parks and Recreation Plan Appendix E contains detailed information on recreation facility use (demand) in 2005, carrying capacity, unmet demand and therefore projected needs. The data show that the current County recreational facilities do not meet need. Needs due to population growth are projected out to the year 2020. The Plan establishes goals for meeting this demand. Included in the plan is a list of priority facility and estimated capital needs for each (CCMP, 2004).

2.5.2.6.2 St. Mary's County

St. Mary's County has 4 state parks, 12 community parks, 7 neighborhood parks, and 15 school recreational parks. St. Mary's County also maintains 3,983 acres (1,612 hectares) of resource lands, some of which are used for recreation and environmental education. St. Mary's County has 400 mi (640 km) of shoreline (MDDBED, 2007) and approximately 1,500 acres (610 hectares) of public county or municipal parkland. There are two 18-hole golf courses located in the county, including the Wicomico Shores Golf Course owned by St. Mary's County and the privately owned Breton Bay Golf and Country Club.

The four state park facilities located within the county include St. Mary's River State Park, Point Lookout State Park, St. Clements Island State Park, and Greenwell State Park. St. Mary's River State Park is located southwest of the CCNPP site and south of California. The park is comprised of 2,000 acres (810 hectares) of land, a 250 acre (101 hectares) fishing lake, and 9 miles (15 km) mountain biking and hiking trails (SMCD, 2007).

Point Lookout State Park has 143 wooded campsites (26 with full hook-ups and 27 with electricity), one campsite for youth groups, and the Civil War Museum/Nature Center. Water-based recreation facilities and activities include a beach area (with grills, picnic tables, a playground, showers, and restrooms) with lifeguard supervised swimming, a boat launch facility and fish-cleaning station, boat rentals and supplies available from the camp store, three fishing areas, and a 710 ft (216 m) pier (SMCD, 2007).

St. Clements Island State Park is a 40 acre (16 hectare) island with hiking, picnicking, scenic views of the Potomac River, a museum highlighting island history, and pier and docking facilities. A seasonal water taxi provides access only during the weekends from May through September (SMCD, 2007).

Greenwell State Park is comprised of 600 acres (243 hectares) of land with 10 miles (16 km) of trails, 2 miles (3.2 km) of waterfront along the Patuxent River, a 50 ft (80 m) pier, kayak/canoe launch sites, beach and picnicking areas, a pavilion, Knott Lodge (an overnight facility for up to 16 guests), and historic Rosedale Manor. Horseback riding programs, summer camps and special events are additional recreational opportunities available at the park (SMCD, 2007).

As shown in Table 2.5-26 (DB, 2007 and SMCDT, 2007), St. Mary's County has 18 boat ramps/ launch sites, two of them only provide access for canoes and kayaks and another five only have piers. There are also 21 marinas in which to store, rent, or charter boats (see Table 2.5-27, SMCTT, 2007 and SMCDT, 2007). Numerous opportunities also exist to charter fishing and sightseeing boats within the county. As shown in Table 2.5-28 (SMCDT, 2007), there are an estimated 35 charter boat services in the county.

Significantly more camping facilities and opportunities are available in St. Mary's County than Calvert County. The county has six campgrounds/RV parks with a total of over 630 spaces (see Table 2.5-29, GC, 2007 and SMCDT, 2007).

St. Mary's County abounds in sites and structures of historic interest; 27 are listed on the National Register of Historic Places and 666 on the Maryland Inventory of Historic Sites (SMCMP, 2003). Calvert County and St. Mary's County are part of a three county "Southern Maryland Heritage Area." Over 63 sites and activities in St. Mary's County are identified in the Heritage Plan as historic, cultural, or recreational centers. The most important fixed visitor destinations are Point Lookout State Park, Historic St. Mary's City, and the Sotterley Mansion. The air exposition at the Naval Air Station each spring, the Blessing of the Fleet, the Crab Festival, and the Oyster Festival each fall, attracts large numbers of people (SMCMP, 2003).

The St. Mary's Comprehensive Plan and the Land Preservation and Recreation Plan recommend the creation of greenways throughout the county (SM, 2003). St. Mary's County practices managed growth and land preservation via tools such as the Comprehensive Zoning Ordinance and the Adequate Public Facilities guidelines. Within St. Mary County, 230,799 acres (93,404 hectares) or 79.1%, are devoted to agriculture, forests, extraction/barren, or wetlands (SMC, 2005).

2.5.2.7 Region Tax Structure and Distribution

2.5.2.7.1 State of Maryland

Statewide and county administrative and taxing organizations that may be directly affected by the proposed action include the state of Maryland, Calvert County, and St. Mary's County. The Maryland Department of Natural Resources evaluated the tax revenue generation impacts of power plants in the state (MDNR, 2006). The department found that power plants are required to pay property taxes like all other businesses in Maryland and are subjected to two tax rates, a state utility property tax and a county utility property tax (covering real and personal property). Non-utility generators are subject to three tax rates, state real property taxes, county real property taxes, and county personal property taxes. Real property refers to the land and buildings at a site, whereas personal property refers to equipment and components used at a site. Tax assessments are allocated to the jurisdictions where the generation facility is located using a cost-based estimate of value, to which the county tax rates are applied. Power plants receive a 50 percent exemption for personal property (i.e., machinery or equipment) that is used to generate electricity for sale, and all personal property is subjected to a minimum assessment of 25 percent of the original cost (MDNR, 2006).

In 2006, the Maryland sales and use tax rate was 5 percent on all taxable sales, other than certain vehicle rentals and sales of mobile homes. Most sales of food by substantial grocery or market businesses are not subjected to the sales tax. Other exemptions included medicine, energy for residential use, manufacturing machinery and equipment, and certain agricultural equipment and supplies (MD, 2007).

Maryland has the Maryland Agricultural Land Preservation Program, which provides tax credits for preserved farm land (CCMP, 2004).

2.5.2.7.2 Calvert County

Calvert County is the main beneficiary of the CCNPP tax base, including county property taxes, county income taxes, and portions of the state sales tax revenues. Taxing districts that may be directly affected by the proposed action include Calvert County and the Calvert County Public School System. As shown in Table 2.5-30, the Calvert County effective property tax rate is

3.1220% per $100 of property valuation, comprised of a real property tax rate of 0.8920%, a personal property tax rate of 2.2300%, and a utility property tax rate of 22.300%. (MDNR, 2006, MD, 2007) The CCNPP site had a Calvert County assessed property value of over $675 million in fiscal year 2005. In addition, county residents in general and those working for CCNPP specifically pay personal and real property taxes to the county for their residences.

Calvert County had a 2.80 percent income tax rate in 2006 and also receives a portion of the Maryland state sales and use tax rate of 5 percent. The high tech nature of the jobs at CCNPP results in relatively high salaries to workers, which in turn leads to higher than average disposable income. This income is available for purchases of goods and services, which in turn create jobs and generate sales tax and other user fee revenues for the county and for the state. However, many other ROI area workers (other than CCNPP employees) commute to worksites and employers outside of the county and the ROI. These daily commutes represent an out-migration of potential sales and use tax revenues as residents make some purchases (e.g., gasoline and meals for example) in counties other than those in which the worker resides (SMCMP, 2003).

Table 2.5-31 (CCBCC, 2005) presents information about the actual general revenues, taxes, and expenditures for Calvert County for FY 2005. Total revenues were about $174.1 million, with 45.3% ($78.8) obtained from property taxes, 31.2% ($54.4) obtained from income taxes, 8.3% ($14.5 million) obtained from other local taxes, and the remainder originating from other sources. Total expenditures were about $166.2 million, including $83.6 million for county operations, $80.9 million for the Board of Education, and $1.7 million for transfers out to other organizations. The greatest expenditures within the operating portion of the budget are allocated to the sheriff and corrections (14.4% and $12.0 million), pensions and insurance (12.4% and $10.4 million), debt and other miscellaneous expenses (12.2% and $10.2 million), capital projects (10.5% and $.8 million), and public works and transportation (9.1% and $7.6 million).

Table 2.5-32 (CCBCC, 2005) presents information about historical total revenues, property tax revenues, and the total assessed value of property in Calvert County from FY 2000 through 2005.

2.5.2.7.3 St. Mary's County

St. Mary's County had a 0.872 percent property tax rate in 2006 and a 3.00 percent income tax rate. Table 2.5-31 (SMCBCC, 2006) presents information about the actual general revenues, taxes, and expenditures for St. Mary's County for FY 2005. Total revenues were about $145.2 million, with 40.2% ($58.3) obtained from property taxes, 37.3% ($54.1) obtained from income taxes, 9.2% ($13.4 million) obtained from other local taxes, and the remainder originating from other sources. Total expenditures were about $131.1 million, including $70.8 million for county operations, $58.9 million for the Board of Education, and $1.4 million for transfers out to other organizations. The greatest expenditures within the operating portion of the budget are allocated to the sheriff and corrections (25.1% and $17.8 million), public works and transportation (19.2% and $13.6 million), and debt and other miscellaneous expenses (17.1% and $12.1).

2.5.2.8 Local Land Use Plans

The State of Maryland Legislature has mandated that each county and municipality adopt a comprehensive land use plan, per the Economic Growth, Resource Protection, and Planning Act, including Smart Growth initiatives. In compliance with this mandate, Calvert County and

St. Mary's County have adopted land use plans that guide development within their respective counties.

The Maryland Master Facilities Plan for schools (MDDE, 2006) coupled with the land use plans effectively limit the development of new housing, which would strain community services without the construction of accompanying new infrastructure. Development is allowed, but the developer, rather than the county taxpayer, bears the costs.

2.5.2.8.1 Calvert County

Calvert County has a total area of 345 sq miles (894 sq km); 215 sq miles (557 sq km) of land and 130 sq miles (337 sq km) or 37.7% of water. St. Mary's County borders Calvert County to the south, the Chesapeake Bay is to the east, and Anne Arundel County is to the north.

The Calvert County Comprehensive Plan (as amended), adopted in 2004 (CCMP 2006) strongly encourages residential and light industrial growth in corridors where adequate infrastructure is in place. In addition, the County has adopted a plan to charge developers whose activities generate additional demands on the existing infrastructure. The County has established a waiting list for commercial land developers desirous of constructing new residential subdivisions (of greater than five lots).

2.5.2.8.2 St. Mary's County

St. Mary's County is 611 sq mi (1,582 sq km), of which 284 sq miles (736 sq km), or 46.5% is water. The county is bordered by the Patuxent River, the Chesapeake Bay, the Potomac River, and the Wicomico River. (SMCMP, 2003).

St. Mary's County has a comprehensive land use plan (SM, 2003) that addresses current and future land use issues, water supply, traffic congestion, sewerage, and solid waste management. The mission of the plan is to "preserve the county's environment, heritage, and rural charter …" (SM, 2003). The plan calls for clustered growth by directing the majority of new high-density residential and non-residential development to designated development districts and existing population centers. The plan calls for public facilities and infrastructure to be made available in these areas, as a way to control where growth is to occur. The citizens of St. Mary's County are concerned about the loss of economic vitality of some of the town centers, particularly Leonardtown (SM, 2003).

2.5.2.9 Area Public Facilities and Social Services

Public services consist of schools and colleges or universities; social services; water and sewer services; police protection, fire suppression, and emergency medical service (public safety); and hospitals and doctors. In both counties, most of these services are located near economic centers.

Schools and post-secondary education are discussed in Section 2.5.2.5.

2.5.2.9.1 Social Services

The Calvert County Department of Health and Human Services provides for and/or coordinates social and other services for the county. Under its guidance are the Department of Social Services, Aging Services, Calvert Alliance Against Substance Abuse, Substance Abuse program, Calvert County Health Department, Calvert County Memorial Hospital, Calvert Hospice, Calvert County Family Network, the Southern Maryland Chapter of the Red Cross, the

Department of Community Resources, and the Maryland Cooperation Extension office (CCMP, 2006).

The St Mary's County Department of Social Services provides for and/or coordinates social and other services for the county, along with the St. Mary's County Public Health Department. Social service programs include Emergency Food Providers, Family to Family Foster Care in Southern Maryland, the Director of Emergency & Transitional Housing Programs, and the Child Care Administration Regional Office for St. Mary's County (SM, 2003).

2.5.2.9.2 Water and Sewer Services

2.5.2.9.2.1 Calvert County

Table 2.5-33 lists the public water districts/systems in Calvert County (CCWS, 2007). Calvert County had 22 water treatment plants and 14 storage tanks serving 9,400 accounts and provided 459,385,053 gal (1.7 million cubic meters) of treated water in FY 2005 (CCCAFR, 2005). As can be seen in Table 2.5-33, the water districts have more than enough excess capacity to accept more hookups, ranging from a low of 4.7% utilization of the Summit/Highlands Water district's water treatment and delivery capacity to a high of 86.6% for the Chesapeake Beach System. Residents who are not provided service by a public water district/system use private wells as sources of water and rely upon the area groundwater aquifers. Calvert County is served by seven aquifers: Patapsco, Aquia, Piney Point-Nanjemoy, Magothy, Brandywine, Choptank-St. Mary's, and the Brightseat. Ground water resources have been and are expected to remain adequate to meet the needs of a growing population in Calvert County, according to the comprehensive water and sewage plan (CCMP, 2004).

Table 2.5-34 lists the public sewer districts/systems in Calvert County (CCWS, 2007). Calvert County has 8 sewage treatment plants and 27 sewer pumping stations serving 9,835 accounts and providing 555,799,835 gal (2.1 million cubic meters) of treated sewerage in FY 2005 (CCCAFR, 2005). As can be seen in Table 2.5-34, the sewer districts have more than enough excess capacity to accept more hookups, ranging from a low of 18% utilization of the Calvert Cliffs Nuclear Power Plant Sewer district's water treatment and delivery capacity to a high of 57.1% for the Solomons Water and Sewer district. Residents who are not serviced by a public sewer district/system rely upon private septic tanks and drain fields for wastewater treatment.

2.5.2.9.2.2 St. Mary's County

St. Mary's water and sewer services are provided by the St. Mary's County Metropolitan Commission (SMCMC), created in 1957 by the State Legislature as a quasi-governmental, non-profit agency to supply water and sewer services to St. Mary's County. Table 2.5-33 lists the individual water systems in St. Mary's County (SMCMC, 2007). The Commission operates 27 water systems with 12.5 mgd pumping capacity (47.3 mld) and a 5.4 mgd (20.4 mld) average daily flow. The systems serve 13,808 accounts from 72 wells and 54 pumping stations (SMMC, 2006). As can be seen in Table 2.5-33, the water districts have more than enough excess capacity to accept more hookups, ranging from a low of 4.2% utilization of the Wicomico Shores water treatment and delivery capacity to a high of 55.1% for the Piney Point system. Residents who are not provided service by the SMCMC water system use private wells as sources of water and rely upon the area groundwater aquifers. St. Mary's County is served by six aquifers: the Upper Patapsco, Lower Patapsco, Aquia, Piney Point-Nanjemony, Magothy, and Pauxtent. Only the Aquia aquifer serves the entire county, the remaining aquifers are found in limited areas within the county (CCMP, 2004). Ground water resources have been and are expected to remain adequate to meet the needs of a growing population, according to the comprehensive water and sewage plan (CCMP, 2004).

Table 2.5-34 lists the SMCMC's individual sewer systems in St. Mary's County (SMCMC, 2007). The four wastewater treatment plants in the county are Forest Farm, Marlay-Taylor, St. Clement's Shores and Wicomico Shores (CCMP, 2004). These four treatment systems have 53 waste water pumping stations with a capacity of 6.3 mgd (23.8 mld) and an average daily flow of 5.0 mgd (19.0 mld), serving approximately 16,836 accounts (SMMC, 2006). As can be seen in Table 2.5-34, the individual public sewer systems are operating closer to their capacities than the Calvert County systems. System utilization ranges from a low of 64.0% for the Marlay-Taylor system to a high of 97% for the Wicomico Shores system. Residents who are not serviced by one of public sewer systems rely upon private septic tanks and drain fields for wastewater treatment.

2.5.2.9.3 Police and Sheriff Services

The two-county ROI receives law enforcement services from the State of Maryland Department of State Police, the Calvert County Sheriff's Office, and the St. Mary's County Sheriff's Department.

2.5.2.9.3.1 Calvert County

Calvert County has 1 police station, 135 uniformed officers, 25 civilian personnel, and 135 police vehicles. The department has three, 9.5 hour shifts that patrol officers work. Additional law enforcement resources are available from the City of Baltimore at the request of the Sheriff's Department as are the resources of the Sheriff Department in St. Mary's County (CCCAFR, 2005). Table 2.5-36 (CCBCC, 2005) (MDSP, 2007) summarizes the staff levels and budgets for law enforcement departments and detention facilities for the state of Maryland, Calvert County, and St. Mary's County. In FY 2005, the Calvert County Sheriff's Office had a budget of $6.9 million. The county's detention facility had a budget of $4.5 million, 64.5 FTE staff, and had an average daily population of 222 inmates (CCBCC, 2005). The facility has a capacity of 750 inmates and reaches capacity during the summer months, with winter populations being lower. The department has identified the need for additional funding to support the addition of more staff, more office space, increased detention facility capacities, and additional equipment.

The CCNPP site maintains its own security within the site property boundaries and will request assistance from police and sheriff departments, as needed, in accordance with the emergency and security plan.

2.5.2.9.3.2 St. Mary's County

The St. Mary's County Sheriff Department, is one of the oldest in the nation. It has 117 authorized law enforcement officers (SMC, 2005). The St. Mary's Department of Public Safety reported 11,632 calls for service in 2005, a modest drop of 2.4% from the 11,910 calls in 2004 (SMDPS, 2005). As shown in Table 2.5-35 (SMCBCC, 2006) St. Mary's County Sheriff's Department had a FY2005 budget of $11.8 million. The county's detention facility had a budget of $6.0 million and it had an average daily population of 292 inmates. The department has identified the need for additional funding to support the addition of more staff.

2.5.2.9.4 Fire Suppression Services

2.5.2.9.4.1 Calvert County

Calvert County has 7 fire stations and 870 volunteer firefighters (CCCAFR, 2005). The Southern Maryland Volunteer Fireman's Association lists 7 volunteer fire departments in Calvert County, 6 volunteer rescue squads, and 1 dive rescue team (SMVFA, 2004). The number of stations and an indication of the general distribution of volunteers (see the note in the table regarding the

total number of staff) are provided in Table 2.5-36 (FD, 2007 and CCDFB, 2005). The department has 12 engines/attack pumpers, 3 ladder trucks, 5 tankers, and a wide assortment of other vehicles. The engines/attack pumpers carry 750 to 1,000 gals of water each and are typically about 15 years old. Most tankers can carry about 3,000 gals of water each. The department has identified a current need for more support personnel for fire and rescue services, and additional staff in the Emergency Management and the Public Safety Director's Office. The county also has identified a current need for additional vehicles and equipment.

Fire prevention and response on the CCNPP site is handled by an onsite force with backup resources available from both Fire Departments in Calvert County and St. Mary's County. The CCNPP onsite force maintains an emergency response team, including a fire brigade, to respond to fires within the facilities' buildings and structures.

2.5.2.9.4.2 St. Mary's County

The Southern Maryland Volunteer Fireman's Association identifies 9 volunteer fire departments in St. Mary's County and 7 volunteer rescue squads (SMVFA, 2004). These departments were staffed by more than 730 volunteer firefighters and 150 other support staff (FD, 2007).

2.5.2.9.5 Emergency Medical Services

Calvert County and St. Mary's County are part of Region V of the Maryland Emergency Medical Services (EMS) System. In most cases their EMS services are provided from the same stations and by most of the same volunteers that staff the fire stations. The Maryland State Police provide MEDVAC services to both counties in emergency evacuation situations.

The 2005-2006 Maryland Institute for Emergency Medical Services Systems Annual Reports noted that Region V made bioterrorism and weapons of mass destruction planning a major focal point of effort (MIEMSS, 2006).

2.5.2.9.5.1 Calvert County

In Calvert County certified EMS volunteers provide rescue and emergency services throughout the county. The fire/EMS services have 500 volunteer emergency medical technicians (EMTs) that provide services throughout the county. Calls for assistance are received by a central dispatch system and units are dispatched by that system. Table 2.5-37 (MIEMSS, 2006) presents information about EMS responses to calls for FY 2005. Calvert County responded to 132 EMS events that involved 175 patients.

The Calvert County Sheriff has the ability to draw upon surrounding counties and metropolitan areas to assist his staff in the event there was a simultaneous emergency event at CCNPP, as well as offsite evacuations near the plant.

2.5.2.9.5.2 St. Mary's County

As with Calvert County, St. Mary's County also has certified EMS volunteers that provide rescue and emergency services throughout the county. Calls for assistance also are received by a central dispatch system and units are dispatched by that system. As shown in Table 2.5-37, in FY 2005 St. Mary's County responded to 147 EMS events that involved 119 patients.

2.5.2.9.6 Hospitals and Doctors

50-Mi (80 km) Comparative Geographic Area

In 2003, the U.S. Census Bureau determined that the Washington DC MSA had 22,334 doctors, or 440 physicians for every 100,000 persons. There also were 39 community hospitals with 9,342 beds, or 184 beds for every 100,000 persons in the MSA (USCB, 2006).

There are two hospitals in the ROI: Calvert Memorial Hospital in Prince Frederick and St. Mary's Hospital in Leonardtown. These facilities and other medical services are described below.

2.5.2.9.6.1 Calvert County

Calvert Memorial Hospital (CMH) is a nongovernmental, general medical and surgical, not-for-profit hospital with Joint Commission on Accreditation of Healthcare Organizations (JCAHO) accreditation. (AHA, 2006). The facility has 120 licensed beds, has a 138 bed capacity (they are not currently using all available spaces), and has a surge capacity of 157 beds in the cases of large-scale emergencies. There were 8,201 admissions in 2006 (AHA, 2006) and now have an average of 76 beds used each day.

The emergency department of CMH has 19 emergency beds and 5 fast-track (i.e., minor injuries/illness) beds, and sees about 100 patients each day (MIEMSS, 2006). The surge capacity of the emergency department is 38 emergency beds and 10 fast-track beds. CMH also has a 10-bed intensive care unit that can be surged to 20 beds in an emergency. Finally, in the event of a large-scale emergency, CMH could also use 16 beds in the Same Day Surgery area, 6 treatment chairs in the Infusion Therapy Center, 5 beds in the Outpatient Department, and 4 beds in the Pain Management Center.

The hospital currently has a decontamination area capable of treating 10 patients per hour. It also has a portable decontamination unit onsite that can handle 50 patients per hour. The hospital has 1,065 employees and 289 members of the medical staff. The employees include 38 administrators, 341 nurses, 141 professionals, 184 technical staff, 184 clerical staff, and 177 service staff. The medical staff includes 157 active medical staff, 73 consulting physicians, 2 honorary physicians, 30 allied health professionals, and 27 telemedicine physicians.

The hospital will complete a $33 million expansion in fall 2007 that includes a new 35-bed emergency department, 10-bed intensive care unit, an expanded laboratory, 16 additional monitored beds, and a new outpatient concourse. The expansion will also include a new 3-stage internal decontamination center capable of treating 50 patients per hour, increasing the total decontamination capabilities to 110 patients per hour from all of the permanent and portable decontamination facilities.

In the summer of 2007, CMH will also begin construction of a 75,000 sf medical office building, to be located adjacent to the hospital. This expansion will provide additional physicians' offices, physical therapy, and expanded outpatient imaging services. Construction of this facility is to be completed by fall 2008. Both expansion projects are anticipated to meet the short and intermediate future needs of the hospital.

In addition to the primary facilities in Prince Frederick, CMH also has an urgent care center in Dunkirk, another one in Solomons, and a community health center in North Beach that provide primary care services. Each of these facilities has excess capacity that can be drawn upon when needed.

CMH has a formally established memorandum of understanding (MOU) with St. Mary's Hospital in Leonardtown and Civista Medical Center in La Plata (Charles County) to facilitate the transfer of personnel, equipment, and supplies between the three facilities in the event of an emergency. In addition, CMH and St. Mary's Hospital have identical internal disaster management plans to facilitate their staff's ability to work at each other's facilities, if needed. CMH also has formal MOUs with area tertiary care centers to facilitate the transfer of patients. These tertiary care centers include Washington Hospital Center, University of Maryland, Georgetown University Medical Center, Prince Georges Hospital Center and Washington Adventist Hospital, and Johns Hopkins. CMH also participates in the Maryland Incident Management System (MIMS) and is FEMA certified for a nuclear response.

In the event that an emergency should occur, or that the hospital has to be evacuated, the on-call CMH administrator would coordinate the efforts, in conjunction with the CMH Disaster Management Council. CMH has a comprehensive All Hazards Response Plan that addresses the responsibilities and procedures for such responses, and the facility conducts drills twice a year. CMH is also part of the Maryland Statewide Evacuation Plan and would conduct an evacuation in conjunction with the Maryland Emergency Management Agency. The Maryland state plan stipulates that patients are to be evacuated, by zones, to the 51 hospitals in the state. In the event of an evacuation, ambulatory patients would be transported by bus and other patients would be transported by private/voluntary ambulance services or via air support provided by the Maryland Department of State Police's, Park Service's, and Coast Guard's medivac/rescue helicopters.

Calvert County, in general, also has 156 physicians practicing in 39 specialties throughout the county (AHA, 2006). Calvert County also had 4 Nursing and Personal Care facilities with 481 employees in 2000 (USCB, 2000e).

2.5.2.9.6.2 St. Mary's County

St. Mary's Hospital had 108 beds in 2007. The number of workers was 1,090 with 252 medical staff. Patient admissions in 2007 totaled 9,254. Emergency care visits totaled 43,222 and outpatient visits totaled 48,040. The average daily census was 76.7 patients (SMH, 2007).

The St. May's Hospital emergency acute care facility is open 24 hours a day, seven days a week. Helicopter transport is available to transfer critical patients to other facilities as needed. An advanced MRI/CT technology room is under construction adjacent to the emergency room along with a room to include radiography capability. An Express Care facility is located in Charlotte Hall to treat minor injuries and illnesses.

Partner facilities supporting St. Mary's Hospital under the umbrella of the Chesapeake Potomac Healthcare Alliance include the Chesapeake Potomac Home Health Agency and the Chesapeake Potomac Regional Cancer Center. Therapies of the Cancer Center include external beam radiation, advanced CT simulation, 3-D treatment planning and radiation therapy (SMH 2006;2007).

In Maryland Emergency Response Region 5, which includes Montgomery, Prince George's, Charles, Calvert, and St. Mary's Counties, there were over 8,800 emergency providers of differing qualifications and over 220 emergency vehicles equipped to transport and/or treat patients, about 20% of the state's transport capacity. During June 2006 to May 2007, Calvert County reported a total of 135 scene oriented emergency cases or about 0.7% of the state's total (17,686). St. Mary's County reported a total of 166 cases or 0.9% of the state's total (MIEMSS, 2008).

St. Mary's County also has 135 physicians practicing in 35 specialties throughout the county (AHA, 2006). St. Mary's County also had 3 Nursing and Personal Care facilities with 473 employees in 2000 (USCB, 2000e).

2.5.2.10 Transportation

2.5.2.10.1 Airports

50-mi (80 km) Comparative Geographic Area

There are three major airports in the Baltimore-Washington area including the Baltimore/ Washington International Thurgood Marshall Airport (BWI), Reagan National Airport (DCA), and Washington Dulles International Airport (IAD) (MDDBED, 2007).

Two-County Region of Influence

There are no commercial airports within the ROI. However, the Chesapeake Ranch Airpark is a private airport located 6 mi (10 km) southeast of the CCNPP site. There are no aircraft permanently based here. A busy summer weekend would result in approximately six privately-owned and operated airplanes using the field.

There is also a helipad on the CCNPP site that is used for corporate flights and Medivac flights, if needed.

The St. Mary's County Airport (Captain Duke Airport), located 10 mi (16 km) southwest of the CCNPP site and 4 mi (6 km) northeast of Leonardtown, has approximately 100 single engine planes based at the facility. The Maryland State Police have a rescue helicopter based at the St. Mary's County Airport. The single runway is 4,150 ft x 75 ft (1,265 m x 23 m) (SMDPW, 2006). The airport is currently only available for private planes. However, the St. Mary's Transportation Master Plan Update suggests determining what additional infrastructure would be needed at the airport to ready it for future commuter air service (SMDPW, 2006) (SMDPW, 2007) (MDDBED, 2007).

The Patuxent River Naval Air Station, in St. Mary's County, is 11 mi (18 km) south of the CCNPP site. Patuxent River Navel Air Station operates naval aircraft in test and development missions.

2.5.2.10.2 Public Transportation (Bus)

50-Mi (80 km) Comparative Geographic Area

A commuter bus service is operated by Calvert County as an alternative mode of transportation for those individuals living in the county, but working in the Washington D.C. area (MDDBED, 2007).

St. Mary's County provides daily mass transit services to the Washington D.C. area for commuters. The commuter service to the Washington D.C. area is well utilized and ridership has been increasing over the years (SMCMP, 2003).

Two-County Region of Influence

Calvert County has 17 passenger buses on 7 service routes that cover 475,635 mi (765,297 km). There were approximately 113,354 passengers for FY 2005 (CCCAFR, 2005). Calvert County's Public Transportation Division operates a deviated fixed route system and a demand route system to meet the transportation needs of the general public, the elderly, and persons with disabilities.

St. Mary's Transit System operates daily, including evenings and on the weekends. Ridership has increased from approximately 54,395 passengers annually in FY 2000 to over 300,000 passengers annually in FY 2006 (SMTS, 2006). Ridership on the St. Mary's Transit System has increased but excess capacity exists (SMCMP, 2003).

2.5.2.10.3 Roads and Highways

There are no interstate highways in Calvert County or St. Mary's County. Transportation routes, both at the state maintained level and at the county maintained level are limited in both counties. The major highway in the area is Maryland state highway (MD) 2/4, which passes the CCNPP site on a north-south axis towards Solomon. MD 2/4 has two lanes going in each direction, with selected left and right hand turn lanes and some traffic lights at busy intersections. Access into Calvert County is also available via MD 231. This is a two lane road with bridge access to southern Charles County.

Table 2.5-38 shows the peak hour traffic volumes at Calvert Cliffs Parkway and the CCNPP site access road, MD 2/4 within 4 mi (6.4 km) of the site access road in the north and south direction (KLD, 2007).

Calvert County is surrounded by water except at the north end where it meets Anne Arundel County, Maryland. This somewhat limits the number of access points into the county. Calvert County is only 30 mi (48 km) long north to south, and 5 to 9 mi (8 to 14 km) wide. Calvert County owns 435 mi (700 km) of streets (CCCAFR, 2005).The Calvert County Comprehensive Plan has identified the need to reconstruct some roads. However, there is no new highway construction planned in the area by either the State of Maryland or Calvert County. Calvert County is connected to St. Mary's County on the south with a bridge at Solomon's Island.

St. Mary's County has adopted a county-wide Transportation Plan that is fully funded. In addition, the County's Comprehensive Zoning Plan and the Adequate Public Facilities Plan require residential and commercial developers to address the transportation impacts before new residential, commercial, or industrial entities are approved for construction.

2.5.2.10.4 Rail

There is some discussion of implementing light rail train service between Washington D.C. and La Plata (in Charles County) within the next 15 years. If this occurred, out-bound commuting along the MD 301 corridor would be expected to increase dramatically (SMCMP, 2003).

There are no rail depots in Calvert County. The nearest depot is in adjacent Prince George's County (MDDBED, 2007). There also are no rail depots in St. Mary's County. The nearest depot is in the adjacent Charles County, in Waldorf (MDDBED, 2007).

2.5.2.10.5 Freight Carriers

There are 23 motor freight common carriers that serve Calvert County and there are 17 motor freight common carriers that serve St. Mary's County (MDDBED, 2007).

2.5.2.10.6 Deep Water Ports

There are no deep water ports in Calvert County or St. Mary's County. Both are are served by the Port of Baltimore (MDDBED, 2007). However, the CCNPP site does have its own barge dock that is used for delivery of large equipment or large quantities of materials.

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2.5.3 Historical Properties

2.5.3.1 Overview

Detailed archaeological and historical surveys of the CCNPP site for Unit 3 and associated onsite transmission corridors supporting CCNPP Unit 3 have been conducted. The cultural resources investigation consisted of Phase Ia and Ib surveys and Phase II National Register Site Evaluations that were conducted of the proposed project area between October 2006 and May 2008. The Phase Ia survey was conducted to identify previously recorded or surface-visible archaeological resources and architectural resources, and to identify those areas with archaeological potential that would require a Phase Ib survey. Phase Ib survey

(including an initial and two supplemental Phase Ib studies) was conducted to identify cultural resources within the project area, to evaluate the eligibility of identified architectural and historical resources for listing in the National Register of Historic Places (NRHP), and to provide recommendations on the potential National Register eligibility of identified archaeological sites. Phase II studies were performed to conclusively determine NRHP eligibility of potentially-eligible archaeological sites that could not be avoided by project construction.

There are two Areas of Potential Effect (APE) for cultural resources that could potentially be affected by the proposed project. The APE for archeological resources is 727 acres (294 hectares) and represents the location and extent of areas required for all project-related construction activities. The APE for visual effects to architectural resources includes the 727 acres (294 hectares) and extends 1000 ft (305 m) beyond the 727 acre (294 hectare) boundary.

Phase Ib survey identified 17 archaeological sites and 37 isolated archaeological finds within the project area. Based on Phase Ib results and review by the Maryland Historical Trust (MHT) four of the 17 identified archaeological sites were concluded to be Potentially-Eligible for listing in the National Register of Historic Places (NRHP). Because these four potentially-eligible archaeological sites could not be avoided by proposed construction activities, Phase II National Register evaluations were conducted to conclusively determine their NRHP eligibility. Based Phase II results and concurrence from MHT one site (18Cv474) is recommended as eligible to the NRHP; the other three sites were concluded to be ineligible for listing in the NRHP. Because this site is located within the proposed construction footprint of CCNPP Unit No. 3 and cannot be avoided by proposed construction, a Phase III Data Recovery of this site will be conducted to mitigate project impacts.

Five architectural and historical resources were also identified within the project area. Based on review of Phase I results by the MHT, four of these resources were determined eligible for listing in the NRHP and would likely be affected by proposed construction activities. These four properties include portions of the Baltimore and Drum Point Railroad prism, the abandoned YMCA Camp Conoy, Preston's Cliffs, and Parran's Park; the existing CCNPP facility was determined ineligible for listing in the NRHP. Three of the four NRHP- eligible historic properties may be impacted by proposed construction activities; no impacts are anticipated at Preston's Cliffs. Based on a Criteria of Effects Evaluation (GAI 2008b) and review by MHT, the project will have an Adverse Effect on two of these properties: the Baltimore and Drum Point Railroad and Camp Conoy. The undertaking will have No Effect on Preston's Cliffs and will have No Adverse Effect on Parran's Park.

2.5.3.2 Survey Methodologies

The Phase Ia and Ib survey methodologies were developed and conducted in accordance with Federal and State laws, regulations, and guidelines, including: Section 106 of the National Historic Preservation Act (USC, 2007), guidelines developed by the Advisory Council on Historic Preservation, the amended Procedures for the Protection of Historic and Cultural Properties as set forth in 36 CFR 800 (CFR, 2007a), the Secretary of the Interior’s Standards and Guidelines for Archeology and Historic Preservation (NPS, 1983), National Register Bulletin 15 – How to Apply the National Register Criteria for Evaluation (NPS, 1992a), National Register Bulletin 21 – Defining Boundaries for National Register Properties (NPS, 1992b), the Standards and Guidelines for Archeological Investigations in Maryland (MHT, 1994), the Standards and Guidelines for Architectural and Historical Investigations in Maryland (MHT, 2000), and General Guidelines for Compliance-Generated Determinations of Eligibility (MHT, 2002).

2.5.3.3 Qualification of Surveyors

GAI Consultants, Inc. conducted the Phase Ia and Ib surveys. The surveyors meet and exceed the professional qualifications as stipulated in 36 CFR Part 61 (CFR, 2007b). The surveyors are listed on the Maryland Historical Trust Preservation Consultant List and have completed similar survey projects in Maryland.

2.5.3.4 Phase Ia Investigation

The Phase Ia survey, as discussed in the draft technical report Phase I Cultural Resource Investigations and Phase II National Register evaluations (GAI, 2008a) and the revised letter report, second supplemental Phase Ib Cultural Resources Investigation (GAI, 2009). Phase Ib Report (GAI, 2007), was conducted on the 727 acre (294 hectare) APE in October 2006 and September 2008. The Phase Ia survey included background research of files and records, geomorphological reconnaissance, and archaeological reconnaissance. Background research was conducted to identify previously recorded historic properties located within the proposed project area. Examination of archaeological site files, historic structure files, National Register of Historic Places listings, historic maps, and cultural resource reports was conducted at the Maryland Historical Trust in Crownsville, Maryland, and the Calvert County Historical Society and Calvert County Department of Planning and Zoning, both located in Prince Frederick, Maryland.

Geomorphological reconnaissance of the APE was conducted to identify landforms with moderate to high potential to contain archaeological sites, identify areas of surface disturbance, and estimate relative landform ages. The geomorphological reconnaissance included study of topographic maps and a walkover of the APE with periodic shovel and hand auger tests to observe the soils. Information was recorded on maps and with a GPS unit.

Archaeological reconnaissance of the APE was conducted to identify surface-visible archaeological resources and architectural resources. The archaeological reconnaissance included a walkover of the APE, excavation of occasional judgmental shovel tests, and locational recording of cultural resources observed. Information was recorded on maps and with a GPS unit. Architectural resources located within the APE for visual effects were noted and were photographed for preliminary review by an architectural historian.

The Phase Ia background research identified one previously recorded cultural resource, the Parran's Park tobacco barn, located within the proposed project area. The geomorphological reconnaissance determined that 245 acres (99 hectares) of landforms within the APE have a moderate to high archaeological potential that required Phase Ib investigation. The remaining 482 acres (195 hectares) were excluded due to slopes in excess of 10%, soil disturbance (largely associated with construction of the existing plant facility), or the presence of wetlands or recent deposits. The reconnaissance also determined that there are no settings within the APE with a potential for deeply buried archaeological resources. The archaeological reconnaissance re-located the previously recorded tobacco barn. Additional cultural resources identified within the APE during the Phase Ia archaeological reconnaissance include portions of the Baltimore and Drum Point Railroad, five historic-age archaeological sites, and four previously unrecorded buildings.

2.5.3.5 Phase Ib Investigation

The initial Phase Ib archaeological survey was conducted on 190 acres (77 hectares), located in parcels throughout the APE, identified during the Phase Ia survey as having moderate to high potential for containing archaeological resources. An architectural survey was also conducted within the APE for visual effects. This survey was conducted between November 2006 through

January 2007. Supplemental Phase Ib surveys were conducted of 55 acres (22 hectares) of new project areas in April/May 2008 and January 2009.

The Phase Ib survey included more extensive background research, systematic shovel testing within the 245 acres (99 hectares), and recording and evaluation of identified archaeological and architectural resources located within the APE and visual effects APE. Background research was conducted to collect material to be used to develop a context for evaluation of recorded resources and to provide background information on specific resources. The research included review of architectural survey reports, published histories of Calvert County, historic maps of the project area, and files at the University of Baltimore's Langsdale Library.

Systematic shovel testing was conducted in the 245 acres (99 hectares) identified as having moderate to high potential for containing archaeological resources. Shovel testing, rather than pedestrian surface inspection, was necessary due to poor ground visibility. Systematic shovel test pits (STPs) were excavated at 50 ft (15 m) intervals within transects spaced 50 ft (15 m) apart. Additional STPs were excavated in select areas to confirm the presence of cultural artifacts, disturbed soils, or recent deposits. A total of 4,672 STPs were excavated across the 245 acres (99 hectares). Excavated soils were screened through 0.25 in (0.6 cm) wire mesh for systematic artifact recovery.

Prehistoric and historic artifacts recovered during systematic shovel testing were bagged and labeled with appropriate provenience information. STP locations were recorded on project maps and were backfilled upon completion. Identified archaeological resources were recorded on standardized forms, plotted on maps, documented with photographs, and their locations were recorded using mapping grade GPS equipment. Identified architectural resources were recorded using photographs, maps, and Maryland Historical Trust Determination of Eligibility forms.

The architectural survey conducted as part of the Phase Ib study resulted in identification, recording, and evaluation of 5 historic-age architectural resources within the APE for visual effects. These resources include Parran's Park, Preston's Cliffs, the Calvert Cliffs Nuclear Power Plant and the Baltimore and Drum Point Railroad. They comprise 21 buildings/structures. Table 2.5-39 summarizes the five resources and the recommended National Register of Historic Places status (GAI, 2007). Based on results of this study and MHT's review (MHT, 2007) four of these resources are concluded to be NRHP-eligible.

The Phase Ib survey excavated 4,672 STPs within the 245 acres (99 hectares), of which 313 STPs yielded 1,120 artifacts (1,102 historic-age and 18 prehistoric). The survey resulted in identification, recording, and evaluation of 17 archaeological sites and 37 isolated archaeological finds. Table 2.5-40 summarizes the 17 sites. Table 2.5-41 summarizes the 37 isolated archaeological finds. Both tables show the recommended National Register of Historic Places status for each site and isolated find (GAI, 2007). Based on Phase Ib results and with concurrence from MHT (MHT, 2007) four of the 17 sites were recommended Potentially Eligible for listing in the NRHP.

2.5.3.6 Phase II Investigations

Phase II National Register Evaluations were conducted of four archaeological sites (18Cv474, 18Cv480, 18Cv481 and 18Cv482) identified during Phase Ib survey that could not be avoided by project construction. This study included site-specific archival research, fieldwork and laboratory analysis. Phase II fieldwork, performed between March 10 and May 3, 2008,

consisted of close-interval shovel testing and test unit excavations at each site. This work included excavation of 961 STPs and 46 test units.

Based on the results of this study and on MHT's concurrence with site eligibility recommendations (MHT, 2009), one of the four sites, Site 18Cv474, is concluded to be eligible for listing in the NRHP, under Criterion D. Site 18Cv474 is a mid-nineteenth to early-twentieth-century domestic site centered on the remains of a stone foundation and containing diagnostic artifacts, and features. The site has good integrity and a potential to yield additional dateable artifacts and features which may address research questions relating to nineteenth-century domestic agricultural sites in the region. Because of its NRHP eligibility, project impacts to Site 18Cv474 would constitute an adverse effect on this significant archaeological resource. Accordingly, it will be necessary to avoid or mitigate the adverse effect on the site. If Site 18Cv474 cannot be avoided by project construction Phase III data recovery excavations will be required to resolve adverse effects from project development.

The other three sites (18Cv480, 18Cv481 and 18Cv482) are recommended as Not Eligible to the NRHP under Criterion D. Based on this assessment, proposed construction impacts will constitute a "No Effect" to these sites. Consequently, no further archaeological investigations are required at Sites 18Cv480, 18Cv481 and 18Cv482.

2.5.3.7 Consultation

The Maryland State Historic Preservation Officer (SHPO) has been consulted with throughout completion of the Phase Ia and Ib surveys to ensure compliance and maintain a strong working relationship. The results of the Phase Ia and Ib surveys were documented in a February 2007 report (GAI, 2007). This report was submitted the Maryland SHPO for review and consultation under Section 106 of the National Historic Preservation Act (USC, 2007). Comments from the Phase Ia and Ib surveys were received from the Maryland SHPO in a letter dated June 7, 2007 (MHT, 2007). A Phase I/II Technical Report (GAI 2008a), a Supplemental Phase Ib Letter Report (GAI 2009) and a Criteria of Effects Evaluation (GAI 2008b), presenting the results of Phase I and II archaeological investigations and an assessment of effects for architectural and historical resources for the project, have been submitted to the MHT for review and consultation. The MHT provided comments on these three documents in a February 13, 2009, review letter (MHT 2009).

In addition, consultation with potentially interested Native American tribes is pending. Information from the tribal consultation could influence the National Register of Historic Places status of any of the recorded resources. As project design and layout are finalized, any additions to the APE would be surveyed and evaluated for potential impacts to historic properties in consultation with the Maryland SHPO, prior to activities taking place in the additional APE.

2.5.3.8 Site National Register Eligibility

Tables 2.5-42 and 2.5-43 list the NRHP eligible archaeological sites and NRHP eligible architectural resources located within the project APEs. These evaluations of eligibility reflect the comments received from the Maryland SHPO (MHT, 2007, and MHT, 2009). Phase III Data Recovery investigations and subsequent consultation with the Maryland SHPO will be performed for the NRHP-eligible site 18Cv474 if this site cannot be avoided by construction activities in order to mitigate adverse effects from project construction.

2.5.3.9 Offsite National Register Eligibility

Research was conducted to identify previously recorded cultural resources located within 10 mi (16 km) of the proposed project site that are listed in the National Register of Historic Places; that have been determined eligible or determined potentially eligible for listing on the National Register of Historic Places; that have not been evaluated for National Register of Historic Places listing; and/or that are listed in the Maryland Register of Historic Places or county and local registers or inventories. Research was conducted at the Maryland Historical Trust archives and library, Calvert County Department of Planning and Zoning, St. Mary's County Department of Land Use and Growth Management, and the Dorchester County Planning and Zoning Department. Research was also conducted of the National Register of Historic Places and list of National Historic Landmarks.

Research identified 1,029 previously surveyed, inventoried, and recorded cultural resources within a 10 mi (16 km) radius of the existing CCNPP site. This number includes historic districts, buildings, sites, and objects. Resource types range from archaeological sites and historic districts with numerous contributing resources to boats, a lighthouse, churches, dwellings, factories, commercial buildings, cemeteries, parks, and a tree. The resources identified are located in the Maryland counties of St. Mary's, Calvert, and Dorchester.

Appendix 2.5-A contains the full list of cultural resources located within the 10 mi (16 km) radius. None of the offsite cultural resources are affected by the construction and subsequent operation of the proposed CCNPP Unit 3.

2.5.3.10 References

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USC, 2007. Title 16, United States Code, Part 470, National Historic Preservation Act of 1966, as amended, 2007.

2.5.4 Environmental Justice

Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations (EO, 1999), directs Federal agencies to identify and address, as appropriate, disproportionately high and adverse health or environmental effects of their programs, policies, and activities on minority populations and low-income populations. Environmental justice is defined as the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies (EPA, 2007). The Council on Environmental Quality (CEQ) has provided guidance for addressing environmental justice (CEQ, 1997). NUREG-1555, Section 2.5.4 (NRC, 1999), the Nuclear Regulatory Commission (NRC) Policy Statement on the treatment of environmental justice in licensing matters (FR, 2004), and the NRC Office Instruction LIC-203, Revision 1, regarding procedural guidance for preparing environmental assessments (NRC, 2004) were used to develop the following analysis. Project impacts are discussed in Chapter 4 and Chapter 5 for any minority or low-income populations identified in this section.

Similar to Section 2.5.1 and Section 2.5.2, this section describes the minority and low income populations residing within a 50 mi (80 km) comparative geographic area and the two-county region of influence (ROI)) that includes Calvert County and St. Mary's County. The 50 mi (80 km) comparative geographic area was selected based upon the guidance provided by NUREG-1555 (NRC, 1999) and was established by using the Calvert Cliffs Nuclear Power Plant (CCNPP) site as the center point and drawing a 50 mi (80 km) radius circle around the CCNPP site. This area includes portions of Maryland, Virginia, Washington D.C., and Delaware.

The region of influence (ROI) includes Calvert County and St. Mary's County, Maryland. The borders of these counties extend less than 30 mi (50 km) from the CCNPP site. These adjacent counties are located in the southern part of Maryland, on a peninsula bounded by the Chesapeake Bay and the Patuxent River. Potential socioeconomic impacts, if any, arising from the proposed plant are likely to be confined to these two counties because a majority of the existing workforce for CCNPP Units 1 and 2 reside in these counties and it is assumed that the potential in-migrating construction and operational workforces for CCNPP Unit 3 are most likely to reside in this same two-county ROI. More than 91% of the current workforce at CCNPP

resides in Calvert County or St. Mary's County. Of the 833 employees at the CCNPP site, approximately 560 (67%) of the workers had a home address in Calvert County and approximately 200 (24%) of these workers had a home address in St. Mary's County.

2.5.4.1 Methodology to Identify and Locate Minority and Low Income Populations

Using ArcView® GIS software and U.S. Census Bureau's 2000 census data (USCB, 2000a) (USCB, 2000b), all census block groups within a 50 mi (80 km) radius were identified. A census block group was included in the 50 mi (80 km) comparative geographic area if its boundaries were fully contained in the area, or if any part of the census block group was contained in the area. The ArcView® GIS software and U.S. Census Bureau's 2000 census data were then used to determine the minority and low income characteristics, by census block group, within 50 mi (80 km) of the CCNPP site and within each county.

As shown in Table 2.5-44 (USCB, 2000a and USCB, 2006), the 50 mi (80 km) radius contains a total of 2,177 census block groups. Within the 50 mi (80 km) radius, there are 14 Maryland counties with a total of 1,116 census block groups. There also are16 counties in Virginia that contain 605 census block groups, Washington D.C. contains a total of 433 census block groups, and there are 2 counties in Delaware that contain 23 census block groups.

Within the ROI, there are a total of 96 census block groups. Calvert County has a total of 41 census block groups and St. Mary's County has 55 census block groups.

2.5.4.1.1 Minority Populations

A "minority" racial population is defined as: American Indian or Alaskan Native; Asian, Native Hawaiian, or other Pacific Islander; Black (African-American) races; and multi-racial, or "some other race" (NRC, 2004). The racial population is expressed in terms of the number and/or percentage of people that are minorities in an area. The sum of these racial minority populations is referred to, within this section, as the aggregate racial minority population. Persons of Hispanic/Latino origin are the ethnic minority, may be of any race including the identified racial populations, and thus are identified as a separate subcategory.

The NRC guidance indicates that a minority population exists if either of the following two criteria is met:

1. The minority population of the census block group or environmental impact area (in this case the 50 mi (80 km) comparative geographic area) exceeds 50%; or

2. The minority population percentage of the environmental impact area is significantly greater (typically at least 20 percentage points) than the minority population percentage in the geographic area chosen for comparative analysis (in this case the 50-mile comparative geographic area).

For each of the 2,177 census block groups within the 50 mi (80 km) radius, the percent of the census block group's population represented by each minority classification (each race, aggregate minority population, and Hispanic/Latino origin) was calculated and compared to the two criteria listed above. If any census block group minority percentage exceeded 50%, then the block group was identified as containing a minority population. If any census block group percentage exceeded the applicable percentage in the 50 mi (80 km) geographical area by more than 20 percentage points, then the census block group was identified as containing a minority population.

Table 2.5-45 and Figure 2.5-4 though Figure 2.5-8 (USCB, 2000a) identify the various minority block groups. Within the 50 mi (80 km) comparative geographic area there are a total of 891 census block groups that are classified as having minority populations. Maryland has 463 minority census block groups, Virginia has 113 blocks, Washington D.C. has 312 blocks, and Delaware has 3 minority census block groups.

There are no federally recognized Native American tribes within the 50 mi (80 km) comparative geographic area or within the State of Maryland. However, non-recognized Native American tribes and communities include the Piscataway-Conroy Confederacy based in La Plata, in Charles County. There are established Amish and Mennonite communities in the northwestern section of St. Mary's County, Maryland. Phase 1 cultural resources survey consultation with Native American tribes is complete. Additional consultation will also occur with the SHPO during Phase II investigations.

2.5.4.1.2 Low Income Populations

One of the common means of tracking income levels is by total income for a household, rather by the total number of people in an area (as was done for minority populations, above). The Census Bureau's definition of a low income household is based on governmental statistical poverty thresholds. For the purposes of conducting this analysis, a block group is considered to be low income if either of the following two criteria are met:

1. The number of low income households in the census block group or the environmental impact site (in this case the 50 mi (80 km) geographic area) exceeds 50%; or

2. The percentage of households below the poverty level in an environmental impact area is significantly greater (typically at least 20 percentage points) than the low income population percentage in the geographic area chosen for comparative analysis (in this case, the 50 mi (80 km) comparative geographic area).

As determined by the 2000 Census survey (USCB, 2000b), low income households in each census block group were divided by the total households for that census block group to obtain the percentage of low income households per block group. If any census block group low income percentage exceeded 50%, then the block group was identified as containing a low income population. If any census block group percentage exceeded the applicable percentage in the geographical area by more than 20 percentage points, then the census block group was identified as containing a low income population.

Table 2.5-44 (USCB, 2000a and USCB, 2000b) and Table 2.5-46 (USCB, 2000b) present low income census block group information, and Figure 2.5-9 (USCB, 2000b) shows the locations of the low income block groups. Within the 50 mi (80 km) comparative geographic area there are a total of 67 census block groups that are classified as having low income populations. Maryland has 27 low income census blocks, Virginia has 3 blocks, Washington D.C. has 35 blocks, and Delaware has 2 low income census blocks.

2.5.4.2 Analysis

2.5.4.2.1 Minority Populations

50 mi (80 km) Comparative Geographic Area

Table 2.5-45 summarizes minority populations by the portion of each state and Washington D.C. within the 50 mi (80 km) radius of the site. There are 714 census block groups within the 50 mi (80 km) radius that have an African-American race population that meets at least one of the two criteria defined as a minority population; 22 census block groups are defined as Asian; 38 census block groups as "Some Other Race;" and 130 census block groups as Hispanic.

Based on the "20 percentage points" or the "exceeded 50%" criterion, no American Indian or Alaskan Native; Native Hawaiian or other Pacific Islander; or multi-racial minority census block groups exist in the geographic area.

As shown in Figure 2.5-4, concentrations of census block groups of African-American minority populations are most prevalent in the Washington-Arlington-Alexandria, DC-MD-VA-WV Metropolitan Area and in Prince Georges County, with 632 of the 714 census block groups classified as an African-American minority.

There are 22 census block groups that meet the criteria of being an Asian minority; the majority of these census blocks are in Fairfax County, Virginia. Figure 2.5-5 presents this information and shows the locations of Asian minority populations.

There are 38 census block groups of persons that are "Some Other Race" that meet the criteria; 12 of those census block groups are in Prince Georges County, Maryland and 15 are in the Washington-Arlington-Alexandria, DC-MD-VA-WV Metropolitan Area. Figure 2.5-6 presents this information and shows the locations of Other Minority Populations.

The aggregate (i.e., total) of 891 census block groups within the 50 mi (80 km) radius are defined as aggregate racial minority populations. The aggregate racial minority populations are shown on Figure 2.5-7.

There are 130 census block groups that have a population of persons of Hispanic origin. Hispanic populations within 50 mi (80 km) of the CCNPP site are primarily in Prince Georges County, Maryland, and in Fairfax County and Arlington County, Virginia. Figure 2.5-8 locates the census block groups with significant Hispanic populations.

Two-County Region of Influence

No census block group in Calvert County is defined as being a racial minority or a Hispanic minority population, or as having an aggregate (i.e., total) minority population.

Two census block groups in St. Mary's County are defined as meeting the definition of having an aggregate minority concentration, but no census block groups met the definition of having an individual racial minority or a Hispanic population.

2.5.4.2.2 Low Income Populations

50 mi (80 km) Comparative Geographic Area

As shown in Table 2.5-46, there are very few concentrations of low income populations within 50 mi (80 km) of the site. Figure 2.5-9 shows the locations of low income census block groups within a 50 mi (80 km) radius of the CCNPP site. There are 67 census block groups that exceed the 50 mi (80 km) radius' average number of low income households by 20 percentage points

or more. Of those 67 census block groups, 35 are located in Washington DC and 27 are located in Maryland.

Two-County Region of Influence

There are no low income census block groups in Calvert County. There is only 1 low income census block group in St. Mary's County, out of the total of 55 census block groups located there.

2.5.4.3 Subsistence Uses

Subsistence is the use of natural resources as food for consumption and for ceremonial and traditional cultural purposes. Often these types of activities are discussed for minority populations, but sometimes also for low income populations. Subsistence information is often difficult to collect, partially because it is relatively site specific and because it is difficult to differentiate between subsistence uses and recreational uses of natural resources. Often, a number of different informational sources have to be relied upon that collect data via different methods, for different classifications of groups, and for differing types of uses. Thus, it is not possible to present this information for the 50 mi (80 km) and ROI study areas that have been used in previous sections. Common major classifications of subsistence uses include gathering plants for consumption, for medicinal purposes, and use in ceremonial activities; fishing; and hunting. These activities are in addition to or replace portions of the foods that might be bought from businesses, and thus can represent reduced costs of living. They also often represent an important part of the cultural identity or lifestyle of the participants. This section presents the subsistence/recreational information that is available from a variety of sources obtained through an internet search.

About 220 acres (89 hectares) of the CCNPP site are currently developed. For safety and security reasons the general public is not allowed uncontrolled access to the CCNPP site. Thus, no ceremonial or subsistence gathering of culturally significant plants, berries, or other vegetation occurs on the site.

2.5.4.3.1 Plant Gathering

Although no information could be found, it is assumed that collection of plants for ceremonial and food purposes (i.e., culturally significant plants, berries, or other vegetation) could be occurring in the two-county region of influence. Again, minority and low-income populations might be conducting these collection activities, off of the CCNPP site more often, or could be harvesting greater quantities of plants, than the general population.

2.5.4.3.2 Hunting

As stated in Section 2.4.1.2.1 and Section 4.3.1.2, white-tail deer and waterfowl populations are abundant throughout Maryland and on or near the CCNPP site. These populations represent a valuable resource for hunters. While hunting for deer and waterfowl occurs in the ROI, no hunting is allowed on the CCNPP site.

2.5.4.3.3 Fishing

Predominant subsistence, recreational, and commercial fisheries in the Chesapeake Bay include the eastern oyster, blue crab, soft shell clams, and striped bass. Weakfish, bluefish, spot, croaker, flounder, herring, other finfish, and other shellfish are also harvested in the Chesapeake Bay. As shown in Table 2.5-47 (CFEPTAP, 2004), the most common species caught by Chesapeake Bay recreational users within the states of Maryland and Virginia in the year

2000 were Atlantic Croaker (3,780 tons or 3,429 metric tons, mt), Striped Bass (2,054 tons or 1,863 mt), Summer Flounder (852 tons or 773 mt), Weakfish (585 tons or 531 mt), and Bluefish (239 tons or 217 mt). In comparison, the most common commercially caught species were Atlantic Menhaden, Black Sea Bass or Blue Crab (see table note regarding conflicting information), Atlantic Croaker, Striped Bass, Eastern Oyster, and Summer Flounder. Chesapeake Bay oysters breeding and nursery areas occur and are commercially harvested near the CCNPP site (MDNR, 2006).

In 2004, Gibson and McClafferty (GM, 2005) conducted studies of recreational fishing for three areas of the Chesapeake Bay, including the Lower Patapsco and Back Rivers in the Baltimore region, the Lower Potomac and Anacostia Rivers in the Washington D.C. region, and the Elizabeth and James Rivers in the Tidewater region of Virginia. As shown in Table 2.5-48 through Table 2.5-50 (GM, 2005), the most common species harvested in the Baltimore region were Striped Bass/Rockfish (27.9%), White Perch (21.8%), and Blue Crab/Crab (12.0%). In the Washington D.C. region, the most commonly harvested species were Catfish (29.2%), Striped Bass/Rockfish (17.3%), and Largemouth Bass (10.9%). In the Virginia region, the most commonly harvested species were Croaker (38.1%), Spot (19.3%), and Flounder (12.2%).

Some of Gibson and McClafferty's findings also are summarized by minority anglers and by the income levels of anglers. The following sections briefly summarize the results of these recreational studies, focusing on the fishing characteristics of minority and low income populations.

2.5.4.4 Subsistence Uses by Minority Populations

As shown in Table 2.5-51 through Table 2.5-53 (GM, 2005), the vast majority of minorities harvesting fish and shellfish in the three regions studied were African-Americans (ranging from 33% to 49% of the total number of people surveyed). There were very limited proportions of other types of minorities, but the most notable were 9.3% of Hispanics/Latinos and 5.7% of Asians surveyed in the Washington D.C. region.

Significantly more Caucasian recreationists fished from boats, and conversely a significantly greater percentage of minorities fished from the shore or piers in the three regions. Minorities traveled 10 mi or less to conduct their harvesting activities more often than Caucasians (83% versus 54%) in the Washington D.C. region, about equally (48% versus 44%) in the Virginia region, and less often than Caucasians (67% versus 85%) in the Baltimore region.

African-Americans in the Baltimore region and in the Virginia region were more likely than Caucasians to state that subsistence fishing was important as a means of reducing food expenses (44% versus 17% in Baltimore and 52% versus 34% in Virginia). However, equal percentages of African-Americans and Caucasians stated that subsistence was important as a way of reducing food costs (12% versus 13%). African-Americans were somewhat to moderately more likely than Caucasians to eat the fish that they harvested in all three regions. For both groups, the impression that the water was polluted was a greater reason given for not consuming fish than was the publication of fish advisories.

2.5.4.5 Subsistence Uses by Low Income Populations

Gibson and McClafferty (GM, 2005) also evaluated the harvesting activities of anglers using the following annual income categories: $20,000 or less, $20,001 to $40,000, $40,001 to $80,000, and $80,001 or more. They found that, generally speaking, there were relatively few differences between recreationists in each of these income categories than were found for minorities as shown in Tables 2.5-54 and Table 2.5-55. In the Baltimore region, the only

significant differences were that those in the $20,001 - $40,000 income category were more likely (40%) than other groups to state that subsistence fishing was important as a means of reducing food expenses. In addition, those with annual incomes of $40,001 or more were more likely to consume fish than members of other income categories.

In the Washington D.C. and the Virginia regions, those making $80,000 or less were more likely to fish from shore or a pier, and those making $80,001 or more were more likely to fish from a boat. As might be expected, those fishing from boats also usually preferred to use sites that had boat ramps available for use. Also, anglers making $40,000 or less were more likely to fish within 10 mi (16 km) of their residences and those making $40,001 or more were more likely to travel greater distances. For both regions, the importance of subsistence fishing as a means for reducing food expenses for the household tended to decreased with each increase income category.

2.5.5 References

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Table 2.5-1— Counties of Residence for Existing CCNPP Units 1 and 2 Operational Employees

	CCNPP Units 1 and 2 Employees	
County of Residence	Number	Percent
Alleghany	1	0.1%
Anne Arundel	27	3.2%
Baltimore	4	0.5%
Calvert	562	67.5%
Charles	30	3.6%
Howard	2	0.2%
Prince Georges	6	0.7%
St. Mary's	198	23.8%
Washington	1	0.1%
Out of State	2	0.2%
Total	833	99.9%

Note:
The total percentage does not equal 100.0% due to rounding.
References:
November 2006 CCNPP Units 1&2 plant records.

Table 2.5-2— Select Demographic and Economic Characteristics of Residential Population, By Distance from the CCNPP Site, 2000

Demographic and Economic Characteristics	Radii/Distances mi (km)					
	0 to 10 mi (0 to 16 km)	10 to 20 mi (16 to 32 km)	20 to 30 mi (32 to 48 km)	30 to 40 mi (48 to 60 km)	40 to 50 mi (60 to 80 km)	0 to 50 mi (0 to 80 km)
Total Population(1)	40,745	111,659	163,358	618,846	2,259,157	3,195,170
Age Composition:						
Person under 5 yrs old	2,992	7,588	10,873	41,578	148,788	211,819
Persons 18 yrs and over	29,458	80,295	120,226	456,584	1,738,152	2,424,715
Persons 65 yrs and older	4,203	9,721	18,951	61,657	218,766	313,298
Gender Composition:						
Females	21,169	55,925	83,981	322,859	1,161,278	1,645,212
Ethnic Composition:						
Caucasians(2)	35,454	91,113	116,465	265,801	1,170,147	1,678,980
African-Americans(2)	5,219	15,657	40,378	322,496	767,075	1,150,825
Persons of Hispanic/ Latino origins(3)	782	1,885	2,578	14,135	241,685	261,065
Income Characteristics:						
Median Household Income(4), 1999	$61,369	$59,241	$57,945	$60,221	$57,464	$57,464

Notes:
(1) Resident population excludes transient populations.
(2) Persons describing themselves as of one race only.
(3) Persons of Hispanic or Latino origin may be of any race.
(4) Median Household Income is the median income for the cumulative households from the CCNPP site; for example. Median Household Income in column labeled 30 to 40 mi (48 to 60 km) is the median for all household 0 to 40 mi (0 to 60 km) from the plant site.
References:
USCB, 2000c
USCB, 2005

Table 2.5-3— Historical and Projected Populations in Calvert County, St. Mary's County, and Maryland from 1990 to 2080

	Calvert County		St. Mary's County		Region Of Influence – Calvert and St. Mary's Combined		State of Maryland	
Year	Population	Average Annual Growth Percent	Population	Average Annual Growth Percent	Population	Average Annual Growth Percent	Population	Average Annual Growth Percent
1990	51,372	--	75,974	--	127,346	--	4,780,753	--
2000	74,563	3.80%	86,211	1.27%	160,774	2.36%	5,296,486	1.03%
2010	95,450	2.50%	107,700	2.25%	203,150	2.37%	5,897,600	1.08%
2015	98,650	0.66%	119,450	2.09%	218,100	1.43%	6,176,075	0.93%
2020	101,750	0.62%	130,750	1.82%	232,500	1.29%	6,386,225	0.67%
2030	105,850	0.40%	151,700	1.50%	257,550	1.03%	6,737,750	0.54%
2040	128,245	1.94%	181,412	1.80%	309,657	1.86%	7,110,558	0.54%
2050	141,127	0.96%	212,317	1.59%	353,444	1.33%	7,503,995	0.54%
2055	147,568	0.90%	228,897	1.52%	376,465	1.27%	7,708,802	0.54%
2060	154,009	0.86%	246,228	1.47%	400,237	1.23%	7,919,200	0.54%
2070	166,891	0.81%	283,145	1.41%	450,036	1.18%	8,357,380	0.54%
2080	179,773	0.75%	323,067	1.33%	502,840	1.12%	8,819,804	0.54%

References:
MDDP, 2005
USCB, 2005

Table 2.5-4— Select Demographic and Economic Characteristics of Persons in Calvert County, St. Mary's County, Maryland, and the U.S. From 2000 to 2004

Demographic and Economic Characteristics	Calvert County	St. Mary's County	State of Maryland	U.S.
Population Levels, Change, Density:				
Total Population, 2000	74,563	86,211	5,296,486	281,421,906
Total Population Estimate, 2004	86,434	94,921	5,558,058	293,656,842
Average Annual Percent Change, 2000-2004	4.0%	2.5%	1.2%	1.1%
Population per square mile, 2000	376.5	238.6	541.9	79.6
Age Composition:				
Persons under 5 years old, 2004	6.1%	7.0%	6.7%	6.8%
Persons 18 years and over, 2004	73.5%	73.4%	74.9%	75%
Persons 65 years old and older, 2004	9.2%	9.2%	11.4%	12.4%
Gender Composition:				
Females, 2004	50.7%	49.9%	51.6%	50.8%
Ethnic Composition:				
Caucasians, 2004(1)	84.7%	82.1%	64.5%	80.4%
African-Americans , 2004(1)	12.8%	13.9%	29.1%	12.8%
Persons of Hispanic/Latino origin, 2004(2)	1.9%	2.2%	5.4%	14.1%
Income Characteristics:				
Median Household Income, 2003	$71,488	$58,651	$54,302	$43,318
Persons below poverty, 2003	5.3%	7.4%	8.8%	12.5%

Notes:
(1). Persons describing themselves as being of one race only
(2). Persons of Hispanic or Latino Origin may be of any race
References:
USCB, 2005

Table 2.5-5— Demographic and Economic Characteristics of Residential Populations in Select Cities and Communities within Calvert County and St. Mary's County, 2000

	Cities or Communities (CDPs)								
Demographic Characteristics	**California, CDP[1]**	**Calvert Beach-Long Beach, CDP**	**Charlotte Hall, CDP**	**Chesapeake Estates-Drum Point, CDP**	**Leonardtown**	**Lexington Park, CDP**	**Lusby**	**North Beach**	**Prince Frederick, CDP**
Total Population	9,307	2,487	1,214	11,503	1,896	11,021	1,666	1,880	1,432
Age Composition:									
Persons under 5 years old	694	184	58	974	80	1,112	86	154	92
Persons 18 years and over	6,568	1,718	994	7,558	1,594	7,554	1,191	1,366	1,118
Persons 65 years and older	678	169	403	748	578	337	216	136	372
Gender Composition:									
Females	4,635	1,246	484	5,753	1,036	5,138	861	994	830
Ethnic Composition:									
Caucasians[3]	7,323	2,248	923	9,837	1,380	6,612	1,202	1,683	891
African-Americans[3]	1,370	165	245	1,210	455	3.306	412	117	484
Persons of Hispanic / Latino[2] origin	255	42	7	280	16	527	46	39	26
Income Characteristics:									
Median Household Income[4],1999	$62,320	$63,262	$51,111	$56,904	$35,563	$39,214	$40,769	$46,111	$44,625
Persons below poverty	407	28	169	558	330	1,219	72	203	226

Notes:
(1)CDP = Census Designated Place; a statistical counterpart of an incorporated place; a concentration of population, housing, and commercial structures that are Identifiable by name, but are not incorporated.
(2) Persons of Hispanic/Latino origin may be of any race or a combination of races.
(3) Persons describing themselves as of one race only.
(4). The Census Bureau states that the median household income for the Prince Frederick CDP is $22,321. This number is inconsistent with other Census Bureau income information and, therefore, is assumed to be incorrectly reported by them. Thus, for illustrative purposes, the median family income is reported here.
References:
USCB, 2000c

Table 2.5-6— Resident and Transient Populations, by Sector and Distance from the CCNPP Site, 2000
(Page 1 of 2)

	Population by Radii/Distances mi (km)						
Sector/Type of Population	0 to 1 (0 to 2)	1 to 2 (2 to 3)	2 to 3 (3 to 5)	3 to 4 (5 to 6)	4 to 5 (6 to 8)	5 to 10 (8 to 16)	0 to 10 (0 to 16)
N Total	0	0	0	0	0	0	0
Transient Population	0	0	0	0	0	0	0
Resident Population	0	0	0	0	0	0	0
NNE Total	0	0	0	0	0	0	0
Transient Population	0	0	0	0	0	0	0
Resident Population	0	0	0	0	0	0	0
NE Total	0	0	0	0	0	1	1
Transient Population	0	0	0	0	0	0	0
Resident Population	0	0	0	0	0	1	1
ENE Total	0	0	0	0	0	606	606
Transient Population	0	0	0	0	0	408	408
Resident Population	0	0	0	0	0	198	198
E Total	0	0	0	0	0	35	35
Transient Population	0	0	0	0	0	0	0
Resident Population	0	0	0	0	0	35	35
ESE Total	0	0	0	0	0	0	0
Transient Population	0	0	0	0	0	0	0
Resident Population	0	0	0	0	0	0	0
SE Total	0	0	283	0	188	0	471
Transient Population	0	0	283	0	0	0	0
Resident Population	0	0	0	0	188	0	0
SSE Total	0	0	33	974	3,242	4,664	8,913
Transient Population	0	0	0	535	0	0	535
Resident Population	0	0	33	439	3,242	4,664	8,378
S Total	0	67	245	189	1,504	9,006	11,011
Transient Population	0	0	217	0	0	3,163	3,380
Resident Population	0	67	28	189	1,504	5,843	7,631
SSW Total	0	43	207	143	204	6,795	7,392
Transient Population	0	0	0	0	0	1,477	1,477
Resident Population	0	43	207	143	204	5,318	5,915
SW Total	0	329	0	165	57	2,865	3,416
Transient Population	0	0	0	0	0	485	485
Resident Population	0	329	0	165	57	2,380	2,931
WSW Total	0	857	702	65	445	2,323	4,392
Transient Population	0	0	90	0	360	33	483
Resident Population	0	857	612	65	85	2,290	3,909
W Total	30	432	289	175	357	1,465	2,748

Table 2.5-6— Resident and Transient Populations, by Sector and Distance from the CCNPP Site, 2000
(Page 2 of 2)

	Population by Radii/Distances mi (km)						
Sector/Type of Population	0 to 1 (0 to 2)	1 to 2 (2 to 3)	2 to 3 (3 to 5)	3 to 4 (5 to 6)	4 to 5 (6 to 8)	5 to 10 (8 to 16)	0 to 10 (0 to 16)
Transient Population	0	0	0	0	0	135	135
Resident Population	30	432	289	175	357	1,330	2,613
WNW Total	0	55	59	85	506	2,723	3,428
Transient Population	0	0	0	0	0	378	378
Resident Population	0	55	59	85	506	2,345	3,050
NW Total	0	695	1,157	1,037	319	2,416	5,624
Transient Population	0	263	151	0	32	0	446
Resident Population	0	432	1,006	1,037	287	2,416	5,178
NWW Total	0	0	0	0	0	718	718
Transient Population	0	0	0	0	0	0	0
Resident Population	0	0	0	0	0	718	718
Total Population	30	2,478	2,975	2,833	6,822	33,617	48,755
Transient Population	0	263	741	535	392	6,079	8,010
Resident Population	30	2,215	2,234	2,298	6,430	27,538	40,745

References:
USCB, 2000b

Table 2.5-7— Commuting Patterns To and From the ROI, 2000

Parameter	County/ROI	Charles County	Prince George's County	Anne Arundel County	District of Columbia	Other	Total
Worker Inflow to ROI	Calvert	640	641	1,118	59	678	3,136
	St. Mary's	2,197	378	262	126	1,357	4,320
	ROI	2,837	1,019	1,380	185	2,035	7,456
Worker Outflow from ROI	Calvert	1,178	8,243	1,739	3,967	3,909	19,036
	St. Mary's	3,313	2,244	80	1,828	1,886	9,351
	ROI	4,491	10,487	1,819	5,795	5,795	28,387
Net Worker Outflow from ROI	Calvert	538	7,602	621	3,908	3,231	15,900
	St. Mary's	1,116	1,866	(182)	1,702	529	5,031
	ROI	1,654	9,468	439	5,610	3,760	20,931

Note:
ROI = region of influence (Calvert County and St. Mary's County combined)
References:
USCB, 2000b

Table 2.5-8— Current Population and Population Projections for the CCNPP Low Population Zone

Year	LPZ Population	Average Annual Percent Change for the 10 Year Period
2000	2,508	N/A
2010	3,210	2.50%
2015	3,318	N/A
2020	3,422	0.64%
2030	3,560	0.40%
2040	4,314	1.94%
2050	4,747	0.96%
2055	4,964	N/A
2060	5,180	0.88%
2070	5,614	0.81%
2080	6,047	0.75%

Notes:
The populations for years 2010 through 2080 have been projected by calculating a growth rate using state population projections for Calvert County as the base.
N/A = not applicable
References:
CCNPP, 2002

Table 2.5-9— Population Projections from 2000 to 2080 within 50 mi (80 km) of the CCNPP Site

Year	Population Projections within Radii/Distances mi (km)							Annual Average Percent Change for the 10 Year Period
	0 to 10 mi(1) (0 to 16 km)	10 to 20 mi (16 to 32 km)	20 to 30 mi (32 to 48 km)		30 to 40 mi (48 to 60 km)	40 to 50 mi (60 to 80 km)	Total 0 to 50 mi (0 to 80 km)	
2000	40,745	112,841	162,006		618,907	2,267,761	3,202,260	N/A
2010	46,272	128 ,170	183,991		703,086	2,576,246	3,637,765	1.28%
2015	49,031	135,788	194,909		744,798	2,729,381	3,853,907	N/A
2020	51,126	141,542	203,279		776,201	2,843,806	4,015,954	0.99%
2030	55,256	152,988	219,647		839,208	3,075,213	4,342,312	0.78%
2040	61,716	170,849	245,359		936,915	3,432,515	4,847,354	1.11%
2050	66,723	184,811	265,321		1,013,675	3,714,072	5,244,602	0.79%
2055	69,214	191,711	275,225		1,051,616	3,853,665	5,441,431	N/A
2060	71,781	198,759	285,436		1,090,176	3,994,214	5,640,366	0.73%
2070	76,764	212,590	305,242		1,165,937	4,272,187	6,032,720	0.67%
2080	81,633	226,166	324,618		1,240,436	4,545,717	6,418,570	0.62%

Notes:
Residential population in 2000, US Census Bureau, Decennial Census.
The populations for years 2010 through 2060 have been projected by calculating a growth rate using state population projections (by county) as the base.
References:
NRC, 2003
USCB, 2005

Table 2.5-10— Population Projections by Sector and Distance from the CCNPP Site from 2000 to 2080
(Page 1 of 12)

Sector	Radius in mi (km)	Population Projection by Year										
		2000	2010	2015	2020	2030	2040	2050	2055	2060	2070	2080
N	0–1 mi (0–2 km)	0	0	0	0	0	0	0	0	0	0	0
NNE		0	0	0	0	0	0	0	0	0	0	0
NE		0	0	0	0	0	0	0	0	0	0	0
ENE		0	0	0	0	0	0	0	0	0	0	0
E		0	0	0	0	0	0	0	0	0	0	0
ESE		0	0	0	0	0	0	0	0	0	0	0
SE		0	0	0	0	0	0	0	0	0	0	0
SSE		0	0	0	0	0	0	0	0	0	0	0
S		0	0	0	0	0	0	0	0	0	0	0
SSW		0	0	0	0	0	0	0	0	0	0	0
SW		0	0	0	0	0	0	0	0	0	0	0
WSW		0	0	0	0	0	0	0	0	0	0	0
W		30	34	36	38	41	45	49	51	53	57	60
WNW		0	0	0	0	0	0	0	0	0	0	0
NW		0	0	0	0	0	0	0	0	0	0	0
NNW		0	0	0	0	0	0	0	0	0	0	0
Total		**30**	**34**	**36**	**38**	**41**	**45**	**49**	**51**	**53**	**57**	**60**

Table 2.5-10— Population Projections by Sector and Distance from the CCNPP Site from 2000 to 2080
(Page 2 of 12)

		Population Projection by Year										
Sector	**Radius in mi (km)**	**2000**	**2010**	**2015**	**2020**	**2030**	**2040**	**2050**	**2055**	**2060**	**2070**	**2080**
N	1-2 mi (2-3 km)	0	0	0	0	0	0	0	0	0	0	0
NNE		0	0	0	0	0	0	0	0	0	0	0
NE		0	0	0	0	0	0	0	0	0	0	0
ENE		0	0	0	0	0	0	0	0	0	0	0
E		0	0	0	0	0	0	0	0	0	0	0
ESE		0	0	0	0	0	0	0	0	0	0	0
SE		0	0	0	0	0	0	0	0	0	0	0
SSE		0	0	0	0	0	0	0	0	0	0	0
S		67	76	81	84	91	102	110	114	118	126	134
SSW		43	49	51	55	58	65	70	73	76	80	86
SW		329	374	396	414	446	497	538	560	581	620	660
WSW		857	972	1,032	1,074	1,165	1,297	1,403	1,455	1,508	1,613	1,715
W		432	492	520	542	585	654	707	733	761	814	866
WNW		55	62	66	69	74	84	90	93	97	103	110
NW		432	491	520	542	586	654	708	734	761	814	866
NNW		0	0	0	0	0	0	0	0	0	0	0
Total		**2,215**	**2,516**	**2,666**	**2,780**	**3,005**	**3,353**	**3,626**	**3,762**	**3,902**	**4,170**	**4,437**

Table 2.5-10— Population Projections by Sector and Distance from the CCNPP Site from 2000 to 2080

(Page 3 of 12)

Sector	Radius in mi (km)	Population Projection by Year										
		2000	2010	2015	2020	2030	2040	2050	2055	2060	2070	2080
N	2-3 mi (3-5 km)	0	0	0	0	0	0	0	0	0	0	0
NNE		0	0	0	0	0	0	0	0	0	0	0
NE		0	0	0	0	0	0	0	0	0	0	0
ENE		0	0	0	0	0	0	0	0	0	0	0
E		0	0	0	0	0	0	0	0	0	0	0
ESE		0	0	0	0	0	0	0	0	0	0	0
SE		0	0	0	0	0	0	0	0	0	0	0
SSE		33	37	40	41	45	50	54	56	58	62	66
S		28	32	34	35	38	42	46	48	49	53	56
SSW		207	235	249	259	281	312	339	351	364	390	415
SW		0	0	0	0	0	0	0	0	0	0	0
WSW		612	695	737	767	830	927	1,002	1,040	1,077	1,153	1,226
W		289	329	346	362	391	439	475	491	510	545	578
WNW		59	67	71	74	81	90	96	100	104	111	118
NW		1,006	1,144	1,208	1,260	1,362	1,524	1,646	1,709	1,771	1,896	2,014
NNW		0	0	0	0	0	0	0	0	0	0	0
Total		**2,234**	**2,539**	**2,685**	**2,798**	**3,028**	**3,384**	**3,658**	**3,795**	**3,933**	**4,210**	**4,473**

Table 2.5-10— Population Projections by Sector and Distance from the CCNPP Site from 2000 to 2080
(Page 4 of 12)

		Population Projection by Year										
Sector	**Radius in mi (km)**	**2000**	**2010**	**2015**	**2020**	**2030**	**2040**	**2050**	**2055**	**2060**	**2070**	**2080**
N	3-4 mi (5-6 km)	0	0	0	0	0	0	0	0	0	0	0
NNE		0	0	0	0	0	0	0	0	0	0	0
NE		0	0	0	0	0	0	0	0	0	0	0
ENE		0	0	0	0	0	0	0	0	0	0	0
E		0	0	0	0	0	0	0	0	0	0	0
ESE		0	0	0	0	0	0	0	0	0	0	0
SE		0	0	0	0	0	0	0	0	0	0	0
SSE		439	498	528	551	596	664	718	746	774	828	880
S		189	215	227	236	255	286	310	321	333	356	379
SSW		143	162	172	180	194	217	234	242	252	270	286
SW		165	187	198	207	224	250	269	280	290	311	330
WSW		65	74	78	81	88	98	106	110	114	122	130
W		175	199	211	219	237	265	287	297	308	330	351
WNW		85	97	102	107	115	129	139	144	150	160	170
NW		1,037	1,177	1,248	1,302	1,407	1,570	1,697	1,760	1,827	1,955	2,079
NNW		0	0	0	0	0	0	0	0	0	0	0
Total		**2,298**	**2,609**	**2,764**	**2,883**	**3,116**	**3,479**	**3,760**	**3,900**	**4,048**	**4,332**	**4,605**

Table 2.5-10— Population Projections by Sector and Distance from the CCNPP Site from 2000 to 2080
(Page 5 of 12)

		Population Projection by Year										
Sector	**Radius in mi (km)**	**2000**	**2010**	**2015**	**2020**	**2030**	**2040**	**2050**	**2055**	**2060**	**2070**	**2080**
N	4-5 mi (6-8 km)	0	0	0	0	0	0	0	0	0	0	0
NNE		0	0	0	0	0	0	0	0	0	0	0
NE		0	0	0	0	0	0	0	0	0	0	0
ENE		0	0	0	0	0	0	0	0	0	0	0
E		0	0	0	0	0	0	0	0	0	0	0
ESE		0	0	0	0	0	0	0	0	0	0	0
SE		188	214	226	239	253	289	306	318	331	354	377
SSE		3,242	3,681	3,903	4,065	4,398	4,909	5,307	5,508	5,709	6,107	6,497
S		1,504	1,705	1,811	1,886	2,040	2,280	2,462	2,553	2,650	2,834	3,014
SSW		204	232	246	257	276	309	334	346	360	384	409
SW		57	65	69	73	76	86	94	97	102	107	114
WSW		85	96	102	106	115	129	140	145	150	160	170
W		357	406	429	448	485	541	584	606	629	672	716
WNW		506	575	609	635	687	766	828	860	891	954	1,015
NW		287	328	346	361	390	435	470	488	505	540	574
NNW		0	0	0	0	0	0	0	0	0	0	0
Total		**6,430**	**7,302**	**7,741**	**8,070**	**8,720**	**9,744**	**10,525**	**10,921**	**11,327**	**12,112**	**12,886**

Table 2.5-10— Population Projections by Sector and Distance from the CCNPP Site from 2000 to 2080

(Page 6 of 12)

Sector	Radius in mi (km)	Population Projection by Year										
		2000	2010	2015	2020	2030	2040	2050	2055	2060	2070	2080
N	5-10 mi (8-16 km)	0	0	0	0	0	0	0	0	0	0	0
NNE		0	0	0	0	0	0	0	0	0	0	0
NE		1	1	1	1	1	2	2	2	2	2	2
ENE		198	224	238	250	268	301	324	335	349	373	396
E		35	40	42	44	48	54	57	59	62	66	70
ESE		0	0	0	0	0	0	0	0	0	0	0
SE		0	0	0	0	0	0	0	0	0	0	0
SSE		4,664	5,302	5,612	5,855	6,325	7,059	7,640	7,922	8,217	8,784	9,349
S		5,843	6,630	7,028	7,339	7,924	8,847	9,565	9,928	10,293	11,006	11,698
SSW		5,318	6,041	6,405	6,670	7,212	8,055	8,712	9,040	9,367	10,021	10,657
SW		2,380	2,703	2,863	2,985	3,228	3,604	3,900	4,044	4,192	4,487	4,766
WSW		2,290	2,598	2,757	2,872	3,108	3,471	3,751	3,887	4,038	4,315	4,589
W		1,330	1,512	1,598	1,669	1,804	2,014	2,177	2,259	2,344	2,505	2,665
WNW		2,345	2,665	2,823	2,941	3,182	3,551	3,842	3,985	4,132	4,417	4,702
NW		2,416	2,742	2,908	3,031	3,275	3,662	3,958	4,106	4,259	4,553	4,842
NNW		718	814	864	900	971	1,091	1,177	1,218	1,263	1,354	1,436
Total		**27,538**	**31,272**	**33,139**	**34,557**	**37,346**	**41,711**	**45,105**	**46,785**	**48,518**	**51,883**	**55,172**

Table 2.5-10— Population Projections by Sector and Distance from the CCNPP Site from 2000 to 2080
(Page 7 of 12)

		Population Projection by Year										
Sector	**Radius in mi (km)**	**2000**	**2010**	**2015**	**2020**	**2030**	**2040**	**2050**	**2055**	**2060**	**2070**	**2080**
N	0-10 mi (0-16 km)	0	0	0	0	0	0	0	0	0	0	0
NNE		0	0	0	0	0	0	0	0	0	0	0
NE		1	1	1	1	1	2	2	2	2	2	2
ENE		198	224	238	250	268	301	324	335	349	373	396
E		35	40	42	44	48	54	57	59	62	66	70
ESE		0	0	0	0	0	0	0	0	0	0	0
SE		188	214	226	239	253	289	306	318	331	354	377
SSE		8,378	9,518	10,083	10,512	11,364	12,682	13,719	14,232	14,758	15,781	16,792
S		7,631	8,658	9,181	9,580	10,348	11,557	12,493	12,964	13,443	14,375	15,281
SSW		5,915	6,719	7,123	7,421	8,021	8,958	9,689	10,052	10,419	11,145	11,853
SW		2,931	3,329	3,526	3,679	3,974	4,437	4,801	4,981	5,165	5,525	5,870
WSW		3,909	4,435	4,706	4,900	5,306	5,922	6,402	6,637	6,887	7,363	7,830
W		2,613	2,972	3,140	3,278	3,543	3,958	4,279	4,437	4,605	4,923	5,236
WNW		3,050	3,466	3,671	3,826	4,139	4,620	4,995	5,182	5,374	5,745	6,115
NW		5,178	5,882	6,230	6,496	7,020	7,845	8,479	8,797	9,123	9,758	10,375
NNW		718	814	864	900	971	1,091	1,177	1,218	1,263	1,354	1,436
Total		**40,745**	**46,272**	**49,031**	**51,126**	**55,256**	**61,716**	**66,723**	**69,214**	**71,781**	**76,764**	**81,633**

Table 2.5-10— Population Projections by Sector and Distance from the CCNPP Site from 2000 to 2080
(Page 8 of 12)

		Population Projection by Year										
Sector	**Radius in mi (km)**	**2000**	**2010**	**2015**	**2020**	**2030**	**2040**	**2050**	**2055**	**2060**	**2070**	**2080**
N	10-20 mi (16-32 km)	0	0	0	0	0	0	0	0	0	0	0
NNE		403	461	484	506	545	609	662	684	710	761	807
NE		1,020	1,157	1,224	1,283	1,381	1,549	1,669	1,732	1,799	1,924	2,042
ENE		1,668	1,895	2,007	2,094	2,258	2,531	2,735	2,828	2,939	3,146	3,338
E		236	268	283	297	319	358	387	401	416	445	472
ESE		709	804	850	891	960	1,076	1,164	1,201	1,251	1,339	1,420
SE		183	207	220	231	248	277	299	311	324	344	366
SSE		477	541	574	599	647	721	780	810	840	899	955
S		20,464	23,249	24,631	25,666	27,746	30,976	33,525	34,774	36,049	38,553	41,024
SSW		16,134	18,326	19,415	20,228	21,882	24,428	26,419	27,413	28,418	30,391	32,348
SW		8,487	9,636	10,211	10,656	11,510	12,858	13,901	14,412	14,954	15,989	17,003
WSW		7,558	8,584	9,095	9,476	10,242	11,448	12,377	12,841	13,309	14,239	15,150
W		11,560	13,135	13,916	14,505	15,672	17,505	18,932	19,645	20,356	21,777	23,177
WNW		11,857	13,469	14,269	14,875	16,079	17,947	19,416	20,148	20,883	22,336	23,764
NW		11,561	13,127	13,911	14,498	15,677	17,503	18,932	19,647	20,366	21,787	23,172
NNW		20,524	23,311	24,698	25,737	27,822	31,063	33,613	34,864	36,145	38,660	41,128
Total		**112,841**	**128,170**	**135,788**	**141,542**	**152,988**	**170,849**	**184,811**	**191,711**	**198,759**	**212,590**	**226,166**

Table 2.5-10— Population Projections by Sector and Distance from the CCNPP Site from 2000 to 2080
(Page 9 of 12)

		Population Projection by Year										
Sector	**Radius in mi (km)**	**2000**	**2010**	**2015**	**2020**	**2030**	**2040**	**2050**	**2055**	**2060**	**2070**	**2080**
N	20-30 mi (32-48 km)	7,848	8,916	9,443	9,844	10,636	11,883	12,850	13,325	13,816	14,782	15,715
NNE		6,479	7,356	7,788	8,141	8,783	9,815	10,609	10,998	11,425	12,210	12,969
NE		8,948	10,155	10,763	11,239	12,130	13,560	14,655	15,193	15,772	16,862	17,916
ENE		17,492	19,871	21,042	21,944	23,722	26,491	28,653	29,714	30,819	32,961	35,028
E		468	532	560	590	634	713	767	792	827	885	936
ESE		594	675	711	745	806	901	975	1,007	1,050	1,120	1,188
SE		0	0	0	0	0	0	0	0	0	0	0
SSE		795	902	956	1,001	1,076	1,210	1,303	1,347	1,401	1,498	1,591
S		2,277	2,586	2,738	2,864	3,091	3,455	3,731	3,869	4,019	4,295	4,561
SSW		4,340	4,920	5,215	5,454	5,875	6,588	7,106	7,368	7,654	8,178	8,689
SW		2,985	3,383	3,589	3,753	4,044	4,531	4,892	5,072	5,265	5,628	5,979
WSW		4,213	4,778	5,062	5,295	5,705	6,399	6,899	7,148	7,427	7,946	8,436
W		8,962	10,176	10,788	11,255	12,155	13,580	14,672	15,226	15,796	16,884	17,956
WNW		54,835	62,305	65,997	68,765	74,356	82,998	89,805	93,194	96,586	103,295	109,939
NW		19,014	21,594	22,882	23,845	25,784	28,786	31,138	32,311	33,496	35,826	38,106
NNW		22,756	25,842	27,375	28,544	30,850	34,449	37,266	38,661	40,083	42,872	45,609
Total		**162,006**	**183,991**	**194,909**	**203,279**	**219,647**	**245,359**	**265,321**	*275,225*	**285,436**	**305,242**	**324,618**

Table 2.5-10— Population Projections by Sector and Distance from the CCNPP Site from 2000 to 2080

(Page 10 of 12)

		Population Projection by Year										
Sector	Radius in mi (km)	2000	2010	2015	2020	2030	2040	2050	2055	2060	2070	2080
N	30-40 mi (48-64 km)	91,036	103,420	109,561	114,165	123,437	137,816	149,109	154,667	160,363	171,478	182,399
NNE		13,477	15,310	16,214	16,906	18,277	20,403	22,073	22,896	23,738	25,387	27,008
NE		19,513	22,165	23,463	24,489	26,455	29,555	31,949	33,126	34,388	36,766	39,078
ENE		9,015	10,231	10,832	11,333	12,217	13,675	14,757	15,298	15,893	16,996	18,041
E		4,739	5,378	5,702	5,949	6,419	7,187	7,767	8,044	8,351	8,928	9,480
ESE		3,635	4,127	4,369	4,568	4,925	5,512	5,952	6,166	6,405	6,846	7,275
SE		1,030	1,172	1,241	1,293	1,392	1,560	1,692	1,749	1,815	1,941	2,062
SSE		1,136	1,284	1,362	1,435	1,539	1,731	1,859	1,928	2,007	2,152	2,273
S		5,420	6,140	6,515	6,823	7,345	8,223	8,872	9,191	9,573	10,225	10,858
SSW		8,751	9,943	10,526	10,980	11,866	13,252	14,337	14,868	15,422	16,493	17,538
SW		3,412	3,872	4,102	4,284	4,625	5,172	5,592	5,792	6,014	6,425	6,835
WSW		13,953	15,845	16,775	17,523	18,910	21,133	22,858	23,695	24,588	26,287	27,947
W		8,346	9,480	10,042	10,466	11,308	12,642	13,669	14,177	14,698	15,725	16,728
WNW		67,423	76,586	81,139	84,554	91,429	102,053	110,420	114,573	118,742	127,024	135,130
NW		272,660	309,789	328,181	341,869	369,758	412,679	446,573	463,377	480,230	513,631	546,610
NNW		95,361	108,344	114,774	119,564	129,306	144,322	156,196	162,069	167,949	179,633	191,174
Total		618,907	703,086	744,798	776,201	839,208	936,915	1,013,675	1,051,616	1,090,176	1,165,937	1,240,436

Table 2.5-10— Population Projections by Sector and Distance from the CCNPP Site from 2000 to 2080
(Page 11 of 12)

		Population Projection by Year										
Sector	**Radius in mi (km)**	**2000**	**2010**	**2015**	**2020**	**2030**	**2040**	**2050**	**2055**	**2060**	**2070**	**2080**
N	40-50 mi (64-80 km)	144,479	164,125	173,874	181,180	195,922	218,681	236,615	245,505	254,480	272,183	289,551
NNE		9,394	10,664	11,294	11,795	12,732	14,241	15,381	15,948	16,542	17,709	18,816
NE		14,160	16,076	17,026	17,798	19,197	21,463	23,183	24,040	24,965	26,697	28,341
ENE		29,169	33,109	35,073	36,634	39,535	44,180	47,771	49,528	51,405	54,953	58,405
E		77,460	87,967	93,207	97,178	105,036	117,302	126,849	131,593	136,448	145,955	155,142
ESE		15,217	17,284	18,304	19,093	20,628	23,047	24,924	25,855	26,809	28,677	30,489
SE		7,158	8,128	8,615	8,985	9,699	10,849	11,725	12,157	12,618	13,482	14,333
SSE		1,855	2,107	2,225	2,335	2,512	2,817	3,036	3,143	3,270	3,500	3,713
S		7,210	8,177	8,641	9,081	9,770	10,956	11,813	12,225	12,735	13,620	14,438
SSW		6,820	7,747	8,199	8,568	9,244	10,338	11,171	11,586	12,016	12,861	13,653
SW		5,020	5,703	6,038	6,296	6,803	7,602	8,223	8,529	8,844	9,459	10,054
WSW		7,842	8,907	9,437	9,836	10,630	11,885	12,841	13,327	13,813	14,781	15,714
W		25,052	28,458	30,150	31,418	33,967	37,923	41,032	42,576	44,129	47,203	50,219
WNW		346,300	393,439	416,837	434,233	469,619	524,107	567,169	588,508	609,926	652,343	694,298
NW		1,285,806	1,460,774	1,547,654	1,612,230	1,743,683	1,946,050	2,105,862	2,185,135	2,264,575	2,422,224	2,577,585
NNW		284,819	323,581	342,807	357,146	386,236	431,074	466,477	484,010	501,639	536,540	570,966
Total		**2,267,761**	**2,576,246**	**2,729,381**	**2,843,806**	**3,075,213**	**3,432,515**	**3,714,072**	**3,853,665**	**3,994,214**	**4,272,187**	**4,545,717**

Table 2.5-10— Population Projections by Sector and Distance from the CCNPP Site from 2000 to 2080

(Page 12 of 12)

		Population Projection by Year										
Sector	**Radius in mi (km)**	**2000**	**2010**	**2015**	**2020**	**2030**	**2040**	**2050**	**2055**	**2060**	**2070**	**2080**
N	0-50 mi (0-80 km)	243,363	276,461	292,878	305,189	329,995	368,380	398,574	413,497	428,659	458,443	487,665
NNE		29,753	33,791	35,780	37,348	40,337	45,068	48,725	50,526	52,415	56,067	59,600
NE		43,642	49,554	52,477	54,810	59,164	66,129	71,458	74,093	76,926	82,251	87,379
ENE		57,542	65,330	69,192	72,255	78,000	87,178	94,240	97,703	101,405	108,429	115,208
E		82,938	94,185	99,794	104,058	112,456	125,614	135,827	140,889	146,104	156,279	166,100
ESE		20,155	22,890	24,234	25,297	27,319	30,536	33,015	34,229	35,515	37,982	40,372
SE		8,559	9,721	10,302	10,748	11,592	12,975	14,022	14,535	15,088	16,121	17,138
SSE		12,641	14,352	15,200	15,882	17,138	19,161	20,697	21,460	22,276	23,830	25,324
S		43,002	48,810	51,706	54,014	58,300	65,167	70,434	73,023	75,819	81,068	86,162
SSW		41,960	47,655	50,478	52,651	56,888	63,564	68,722	71,287	73,929	79,068	84,081
SW		22,835	25,923	27,466	28,668	30,956	34,600	37,409	38,786	40,242	43,026	45,741
WSW		37,475	42,549	45,075	47,030	50,793	56,787	61,377	63,648	66,024	70,616	75,077
W		56,533	64,221	68,036	70,922	76,645	85,608	92,584	96,061	99,584	106,512	113,316
WNW		483,465	549,265	581,913	606,253	655,622	731,725	791,805	821,605	851,511	910,743	969,246
NW		1,594,219	1,811,166	1,918,858	1,998,938	2,161,922	2,412,863	2,610,984	2,709,267	2,807,790	3,003,226	3,195,848
NNW		424,178	481,892	510,518	531,891	575,185	641,999	694,729	720,822	747,079	799,059	850,313
Total		**3,202,260**	**3,637,765**	**3,853,907**	**4,015,954**	**4,342,312**	**4,847,354**	**5,244,602**	**5,441,431**	**5,640,366**	**6,032,720**	**6,418,570**

References:
NRC, 2003
USCB, 2005
USCB, 2000c
DEDO, 2000
MDP, 2005
VEC, 2006

Table 2.5-11— Counties of Residence of the Existing Operational Workforce at CCNPP Units 1 and 2, November 2006

County/Location of Residence	CCNPP Units 1 & 2 O&M Workforce	
	Number	Percent
Alleghany	1	0.1%
Anne Arundel	27	3.2
Baltimore	4	0.5
Calvert	562	67.5
Charles	30	3.6
Howard	2	0.2
Prince Georges	6	0.7
St. Mary's	198	23.8
Washington	1	0.1
Out of State	2	0.2
Totals	833	99.9%
ROI Totals	760	91.3

Note:
The total percentage does not equal 100.0% due to rounding.
References:
November 2006 CCNPP Units 1&2 plant records

Table 2.5-12— Civilian Labor Force Data for Calvert County and St. Mary's County, October 2006

County/Location	Individuals in Labor Force	Individuals Employed	Individuals Unemployed	Unemployment Rate, Percent
Calvert County	47,247	45,971	1,276	2.7%
St. Mary's County	50,375	48,793	1,582	3.1
Washington-Arlington-Alexandria Metro Area	583,647	560,958	22,689	3.9
State of Maryland	3,030,037	2,918,627	111,410	3.7
U.S.	151,998,000	145,287,000	6,711,000	4.4

Notes:
The Washington DC MSA includes the District of Columbia and parts of the states of Maryland (Calvert, Charles, Frederick, Montgomery, and Prince George's counties), Virginia (Arlington, Clarke, Culpeper, Fairfax, Fauguier, King George, Loudoun, Prince William, Spotsylvania, Stafford, and Warren counties and the cities of Alexandria, Fairfax, Fall Church, Manassas, and manassas Park), and West Virginia (Berkeley and Jefferson counties.)The civilian labor force does not include employees of the Patuxent Naval Air Station in St. Mary's County; unemployment rates are only determined for civilian labor forces.
References:
MDDLLR, 2006a

Table 2.5-13— Construction and Extraction Occupational Labor Force, Washington-Arlington-Alexandria Metro Area, May 2005
(Page 1 of 3)

Construction and Extraction Occupations						
			Wage Estimates			
Occupation Code	Occupation Title	Employment	Median Hourly	Mean Hourly	Mean Annual (1)	Mean RSE (2)
47-0000	Construction and Extraction Occupations	108,860	$17.50	$19.04	$39,610	0.9 %
47-1011	First-Line Supervisors/ Managers of Construction Trades and Extraction Workers	12,480	$27.17	$28.74	$59,790	1.8 %
47-2011	Boilermakers	150	$23.10	$23.20	$48,270	6.9 %
47-2021	Brick masons and Block masons	2,380	$21.16	$20.75	$43,160	2.5 %
47-2022	Stonemasons	(3)	$21.51	$22.46	$46,720	6.8 %
47-2031	Carpenters	14,420	$18.81	$19.84	$41,260	1.9 %
47-2041	Carpet Installers	(3)	$13.69	$15.78	$32,830	13.5 %
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	50	$15.72	$15.96	$33,190	3.8 %
47-2043	Floor Sanders and Finishers	160	$12.07	$13.05	$27,150	2.9 %
47-2044	Tile and Marble Setters	1,050	$18.03	$18.50	$38,490	5.2 %
47-2051	Cement Masons and Concrete Finishers	4,220	$16.08	$16.21	$33,720	2.9 %
47-2053	Terrazzo Workers and Finishers	(3)	$15.73	$15.89	$33,050	3.0 %
47-2061	Construction Laborers	18,460	$12.68	$13.07	$27,180	1.7 %
47-2071	Paving, Surfacing, and Tamping Equipment Operators	490	$13.77	$14.59	$30,350	2.6 %
47-2072	Pile-Driver Operators	90	$19.41	$19.39	$40,340	7.4%
47-2073	Operating Engineers and Other Construction Equipment Operators	5,160	$18.69	$18.57	$38,620	1.0 %
47-2081	Drywall and Ceiling Tile Installers	2,040	$16.34	$17.02	$35,400	3.1 %
47-2082	Tapers	250	$15.94	$16.14	$33,570	1.8 %
47-2111	Electricians	11,040	$22.97	$23.27	$48,390	2.0 %
47-2121	Glaziers	800	$18.77	$18.49	$38,460	4.6 %
47-2131	Insulation Workers, Floor, Ceiling, and Wall	710	$16.57	$17.63	$36,680	9.2 %

Table 2.5-13— Construction and Extraction Occupational Labor Force, Washington-Arlington-Alexandria Metro Area, May 2005
(Page 2 of 3)

Construction and Extraction Occupations						
			Wage Estimates			
Occupation Code	Occupation Title	Employment	Median Hourly	Mean Hourly	Mean Annual (1)	Mean RSE (2)
47-2132	Insulation Workers, Mechanical	370	$17.78	$19.80	$41,190	13.7 %
47-2141	Painters, Construction and Maintenance	4,530	$16.19	$17.19	$35,750	3.3 %
47-2142	Paperhangers	30	$19.49	$19.10	$39,720	3.2 %
47-2151	Pipe layers	1,860	$15.63	$15.86	$32,990	2.8 %
47-2152	Plumbers, Pipe fitters, and Steamfitters	6,200	$20.77	$21.89	$45,520	2.3 %
47-2161	Plasterers and Stucco Masons	40	$19.82	$19.34	$40,220	3.9 %
47-2171	Reinforcing Iron and Rebar Workers	540	$19.18	$18.70	$38,900	2.9 %
47-2181	Roofers	1,460	$15.59	$16.81	$34,960	4.0 %
47-2211	Sheet Metal Workers	4,180	$17.96	$19.73	$41,040	4.0 %
47-2221	Structural Iron and Steel Workers	500	$18.08	$18.62	$38,730	2.6 %
47-3011	Helpers--Brick masons, Block masons, Stonemasons, and Tile and Marble Setters	1,750	$12.36	$12.80	$26,620	2.4 %
47-3012	Helpers--Carpenters	1,890	$11.61	$11.88	$24,700	2.3 %
47-3013	Helpers--Electricians	3,230	$13.19	$13.51	$28,090	3.1 %
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	(3)	$8.11	$9.58	$19,930	13.3 %
47-3015	Helpers—Pipe layers, Plumbers, Pipe fitters, and Steamfitters	1,310	$12.56	$12.61	$26,240	2.9 %
47-3016	Helpers--Roofers	440	$11.93	$12.10	$25,160	2.9 %
47-3019	Helpers, Construction Trades, All Other	530	$14.94	$15.54	$32,320	2.6 %
47-4011	Construction and Building Inspectors	2,030	$23.94	$24.34	$50,620	2.1 %
47-4021	Elevator Installers and Repairers	340	$30.95	$29.90	$62,200	2.3 %
47-4031	Fence Erectors	(3)	$11.82	$12.56	$26,130	5.8 %
47-4041	Hazardous Materials Removal Workers	350	$14.11	$15.14	$31,500	3.7 %
47-4051	Highway Maintenance Workers	740	$16.28	$16.47	$34,260	3.1 %

Table 2.5-13— Construction and Extraction Occupational Labor Force, Washington-Arlington-Alexandria Metro Area, May 2005
(Page 3 of 3)

Construction and Extraction Occupations						
			Wage Estimates			
Occupation Code	Occupation Title	Employment	Median Hourly	Mean Hourly	Mean Annual (1)	Mean RSE (2)
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	(3)	$13.74	$17.13	$35,630	19.0 %
47-4099	Construction and Related Workers, All Other	560	$15.10	$15.70	$32,650	3.0 %
47-5021	Earth Drillers, Except Oil and Gas	(3)	$17.45	$18.65	$38,790	7.7 %
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	200	$20.56	$20.87	$43,410	15.1 %
47-5081	Helpers--Extraction Workers	(3)	$12.46	$12.36	$25,700	3.1 %
47-5099	Extraction Workers, All Other	(3)	$12.89	$13.81	$28,720	3.6 %

Notes:
(1) Annual wages have been calculated by multiplying the hourly mean wage by a "year-round, full-time" hour's figure of 2,080 hours; for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from the reported survey data.
(2) The relative standard error (RSE) is a measure of the reliability of a survey statistic. The smaller the relative standard error, the more precise the estimate.
(3) Estimates not released.
References:
BLS, 2005

Table 2.5-14— Employment by Sectors and Industry in Calvert County St. Mary's County, and ROI, 2005

	Employment		
Sector/Industry	**Calvert County**	**St. Mary's County**	**ROI**
Total Government and Private Sector Employment	20,810	37,591	58,401
Government Total:	3,796	11,092	14,888
Federal	139	6,858	6,997
State	224	778	1,002
Local	3,433	3,456	6,889
Private Sector Total:	17,014	26,499	43,513
Natural Resources & Mining	18	29	47
Construction	2,300	1,860	4,160
Manufacturing	725	487	1,212
Trade, Transportation, Utilities	4,704	6,458	11,162
Information	316	226	542
Financial Activities	756	942	1,698
Professional and Business Services	1,599	8,655	10,254
Educational and Health Services	2,979	3,742	6,721
Leisure and Hospitality	2,849	3,224	6,073
Other Services	768	876	1,644
Unclassified	0	0	0

Note:
This table provides employment levels, by industry, for people working in Calvert County and St. Mary's County only. Total employment levels are less than those provided in Table 2.5-12, which displays totals for all people living in each county, even if they are working in other counties. The large difference in the totals in these tables shows how many people are commuting outside of the ROI to work.
References:
MDDLLR, 2006a

Table 2.5-15— Major Non-Governmental Employers in Calvert County, 2005

Calvert County		
Firm	**Product/Service**	**Employment**
Calvert Memorial Hospital	Medical Services	915
Constellation Energy/CCNPP	Nuclear power generation	833
ARC of Southern Maryland	Medical and Social Services	375
Wal-Mart	Consumer goods	310
DynCorp	Tech services	296
Recorded Books	Audio books	291
DM Group	Printing, fulfillment services	250
All American Ambulance & Transport	Ambulance services	240
Calvert Nursing Center	Medical services	203
The Gott Company	Fuel, A/C, heating services	200
Safeway	Groceries	175
Holiday Inn Select	Lodgings	171
Chesapeake Biological Laboratory	Fisheries research	168
References: MDDLLR, 2006a		

Table 2.5-16— Fastest Growing Private Industries in St. Mary's County, from 2004 to 2005

St. Mary's County		
Firm	**Product/Service**	**Employment**
Patuxent NAS	Military Installation	10,500
DynCorp/CSC	Professional and Tech services	1,500
EMA	Engineering, science services	1,000
St Mary's Hospital	Medical services	900
BAE Systems	Tech products & services	854
Veridian	Aeronautics, R D T and E	700
Information Spectrum	Professional & tech services	450
Northrop Grumman	Systems and software design	450
St Mary's College of Maryland	Higher Education	400
Food Lion	Groceries	344
Target	Consumer goods	319
Booz Allen Hamilton	Systems engineer and mgt	315
Sabre	Engineering services	300
Burch Oil	Gas and oil	280
Charlotte Hall Vet's Home	Nursing home, Asst living	280
Wal-Mart	Consumer goods	280
Mantech International	Systems and software dev	260
J F Taylor	Technology simulations	210
Lundeberg School of Seamanship	Seamanship training	210
Eagle Systems	Systems engineering and mgt	200
National Technology Assoc	Systems engineering and mgt	200
Lowe's	Home improvement products	193
DCS	Technology simulation	175
Merkle Mailing Services	Data Entry and fulfillment	145

References:
MDDLLR, 2006a

Table 2.5-17— Fastest Growing Private Industries in Calvert County and St. Mary's County from 2004 and 2005

County/Industry	Fastest Growing Private Industries 2004 – 2005, Percent Increase
Calvert County:	
Credit intermediation and related activities	32.3%
Merchant wholesalers, durable goods	17.4
General merchandise stores	12.4
Transit and ground passenger transportation	10.8
Miscellaneous store retailers	9.0
Health and personal care stores	8.9
Waste management & remediation services	7.9
St. Mary's County:	
Transit and ground passenger transportation	11.7%
Miscellaneous store retailers	11.6
Nursing and residential care facilities	11.0
Real estate	9.1
Admin and support services	6.9
Personal and laundry services	6.7
Merchant wholesalers, durable goods	4.5

References:
MDDLLR, 2006a

Table 2.5-18— Percent of Individuals in Poverty and Median Household Income in Calvert County and St. Mary's County, Maryland, and the U.S. 2000 and 2005

County/Location	Percent of Individuals Below the Poverty Level, 2005	Median Household Income		
		2000	2005	Average Annual Percent Change, 2000-2005
Calvert County	5.5	$65,945	$84,388	5.6
St. Mary's County	9.0	$54,706	$62,939	3.0
State of Maryland	8.2	$52,868	$61,592	3.3
U.S.	13.2	$41,994	$46,242	2.0

References:
USCB, 2005

Table 2.5-19— Mean Salaries in Calvert County, St. Mary's County Maryland, and the U.S. 2005

County/Location	Mean Earnings, 2005	Percent Greater Than The National Average
Calvert County	$95,403	49.5%
St. Mary's County	$74,825	17.2
State of Maryland	$79,644	24.8
U.S.	$63,834	N/A

Note:
N/A = not available
References:
USCB, 2005

Table 2.5-20— Occupied Housing Units and Vacant (available) Housing Units in Calvert County, St. Mary's County, and the ROI, 2000

Housing Type	County		Total ROI
	Calvert	St. Mary's	
Total Housing Units:	27,576	34,081	61,657
Total Occupied Units:	25,447	30,642	56,089
Owner Occupied	21,679	21,996	43,675
Renter Occupied	3,768	8,646	12,414
Total Unoccupied Units:	2,129	3,439	5,568
Year-around Units	1,125	2,223	3,348
Seasonal, recreational, or occasional use units	1,004	1,216	2,220
Percentage of Unoccupied Units (versus total housing units):	7.7%	10.1%	9.0%

References:
USCB, 2000c
USCB, 2000d
USCB, 2006

Table 2.5-21— New Housing Units (Single-family and Multi-family) Authorized for Construction, Calvert County, St Mary’s County from 2001 to 2005

County/Area	Total Existing Units, 2000	Number of Authorized New Housing Units by Year				
		2001	2002	2003	2004	2005
Calvert County	27,576	886	928	791	525	488
St. Mary's County	34,081	549	914	1,094	1,384	993
Total ROI	61,657	1,435	1,842	1,885	1,909	1,481

References:
MDDP, 2006

Table 2.5-22— Apartment and Townhouse Complexes
in Calvert County and St. Mary's County
(Page 1 of 2)

Complex	Location	Number of Bedrooms	Length of Leases
Calvert County:			
Solomons Landing Condominiums	Solomons	N/A	N/A
Calvertown Townhouses	Prince Frederick	N/A	N/A
Silverwood Farm Apartments	Prince Frederick	1 – 3	6 or 12 months
Courtyards at Fishing Creek	Chesapeake Beach	N/A	N/A
Towne Center Apartments	North Beach	N/A	N/A
Subtotals	5 complexes	N/A	N/A
St. Mary's County:			
Abberly Court	Lexington Park	1-3	12 or 13 months
Cherry Cove Manufactured Housing	Lexington Park	N/A	N/A
Cook Management Corporation	Lexington Park	N/A	N/A
Garrett Park	Lexington Park	N/A	N/A
Greens at Hilton Run	Lexington Park	1-3	6, 7, 9, or 12 months
Indian Bridge Apartments	Lexington Park	N/A	N/A
Joe Baker Village	Lexington Park	N/A	N/A
Lexington Village Apartments	Lexington Park	N/A	N/A
Mayfaire Apartments	Lexington Park	N/A	N/A
Lex-Woods Apartments	Lexington Park	N/A	N/A
Lord Calvert Manufactured Home Park	Lexington Park	N/A	N/A
Queen Anne Park Apartments	Lexington Park	1 – 3	1, 3, 6 or 12 months
St. Mary's Landing	Lexington Park	Efficiency – 3	3, 6, or 12 months
Spring Valley Apartments	Lexington Park	N/A	N/A
Spyglass at Cedar Cove	Lexington Park	1-2	12 or 13 months
Sunset Hall	Lexington Park	N/A	N/A
Valley Drive Estates	Lexington Park	N/A	N/A
Villas at Greenview (townhouses)	Lexington Park	2-3	12 months
Apartments of Wildewood	California	1 – 2	6 or 12 months
Chancellors Run Apartments	Great Mills	N/A	N/A
Foxchase Village	Great Mills	2	1 month
Greenview Village Townhomes	Great Mills	2 – 3	1 month
Hickory Hills Townhomes	Great Mills	Studio - 3	1, 3, 6 or 12 months
Hunting Meadows Apartments	Callaway	N/A	N/A
Breton Bay	Leonardtown	N/A	N/A
Cedar Lane Apartments	Leonardtown	N/A	N/A
Leonardtown Village Apartments	Leonardtown	N/A	N/A
New Towne Village	Leonardtown	N/A	N/A
Subtotals	28 complexes	N/A	N/A
Totals	**33 complexes**	**N/A**	**N/A**

Table 2.5-22— Apartment and Townhouse Complexes in Calvert County and St. Mary's County
(Page 2 of 2)

Complex	Location	Number of Bedrooms	Length of Leases

Note:
N/A = not available
References:
Apartments, 2007

Table 2.5-23— Hotels, Motels, and Bed & Breakfasts Within About 30 Miles (48.2 km) of Lusby, Maryland
(Page 1 of 2)

Hotel/Motel, Bed and Breakfast	Location or Area	Distance from Lusby (mi)	Number of Units	Occupancy Constraints	
				50-79 Percent Occupancy	80 Percent or More Occupancy
Calvert County:					
Holiday Inn Select Solomons Hotel	Solomons	5.1	326	Dec – Feb	March – Nov
Cliffs Motor Inn	St. Leonard	6.3	N/A	N/A	N/A
Comfort Inn - Beacon Marina	Solomons	6.7	60	N/A	N/A
Holiday Inn Express Prince Frederick	Prince Frederick	11.0	70	All year	--
Super 8 Motel	Prince Frederick	13.1	57	N/A	N/A
Comfort Suites	Prince Frederick		70	Sept - Dec	Jan – Aug
Chesapeake Beach Resort and Spa	Chesapeake Beach	19.7	72	N/A	N/A
Herrington Harbour Marinas	North Beach	31.3		N/A	N/A
Subtotals	8 facilities		655		
St. Mary's County:					
Sleep Inn & Suites Lexington Park/ Solomons	Lexington Park	8.0	81	N/A	Monday – Wednesday.; seasonal data N/A
Super 8 Motel	Lexington Park	8.4	61	Sept – April	May – Aug
Extended Stay America Lexington Park-Pax River	Lexington Park	9.0	98	Sept – Feb	March – Aug
Hampton Inn Lexington Park	Lexington Park	9.2	111	Thurs – Sat all year	Monday – Wed all year
Fairfield Inn by Marriott Lexington Park – Patuxent Naval Station	Lexington Park	9.3	78	N/A	Monday – Wed all year
Days Inn	Lexington Park	14.5	165	Sept – March	April – Aug
Lore's Lodging	Lexington Park	15.1	N/A	N/A	N/A
Patuxent Inn	Lexington Park	15.1	120	Oct – Feb	March – Sept
The Victorian Candle Bed & Breakfast	Hollywood	15.5	8	N/A	N/A
Relax Inn	Leonardtown	17.3	N/A	N/A	N/A
Scheible's Motel	Ridge	28.5	N/A	N/A	N/A
Bard's Field Bed & Breakfast	Ridge	28.8		N/A	N/A
Woodlawn Bed & Breakfast	Ridge	28.5	5	N/A	N/A
Brome-Howard Inn	St. Mary's City	22.5	4	N/A	N/A
Nekadesh Farm Bed & Breakfast	Colton's Point	24.6	2	N/A	N/A

Table 2.5-23— Hotels, Motels, and Bed & Breakfasts Within About 30 Miles (48.2 km) of Lusby, Maryland
(Page 2 of 2)

Hotel/Motel, Bed and Breakfast	Location or Area	Distance from Lusby (mi)	Number of Units	Occupancy Constraints: 50-79 Percent Occupancy	Occupancy Constraints: 80 Percent or More Occupancy
St. Michael's Manor Bed & Breakfast	Scotland	28.3--	4	--	--
Subtotals	16 facilities		737	N/A	N/A
Charles County:					
Comfort Suites Waldorf	Waldorf	28.7	69	N/A	N/A
La Quinta Inn Waldorf	Waldorf	28.7	87	Nov – Jan	Feb - Oct
Holiday Inn	Waldorf	36.6	191	N/A	N/A
Country Inn & Suites	Waldorf	37.0	66	n/h	May – Oct
Sleep Inn	La Plata	38.3	69	N/A	N/A
Subtotals	5 facilities	--	482	--	--
Prince Georges County:					
Colony South Hotel & Conference Center	Clinton	32.7	195	--	All year
Hampton Inn Easton	Easton	32.8	74	June – Nov	n/h
Subtotals	2 facilities	N/A	269	N/A	N/A
Totals	**31 facilities**	**--**	**2,143**	**N/A**	**--**

Notes:
N/A = not available
n/h = new hotel/motel, additional information is not available for the remainder of the year
Hotels, motels, and bed and breakfasts located within Dorchester County within the 30-linear mile radius of Lusby are excluded from this table because they are not on the peninsula and the actual driving miles would be too extensive for potential commuting to the CCNPP site.
References:
Calvert County, MD Visitors Guide website
St. Mary's County, MD Travel and Tourism website

Table 2.5-24— Public Schools Located in Calvert County and St. Mary's County

(Page 1 of 2)

Public School District / Schools	City or Location	Grades Taught	Number of Students	Students per FTE Teacher
Calvert County SD:				
Appeal Elementary School	Lusby	3-5	424	15
Beach Elementary School	Chesapeake Beach	PK-5	529	17
Calvert Career Center	Prince Frederick			
Calvert Country School	Prince Frederick	PK-12	76	5
Calvert Elementary School	Prince Frederick	PK-5	633	16
Calvert Middle School	Prince Frederick	6-8	503	15
Calvert High School	Prince Frederick	9-12	1,168	16
Dowell Elementary School	Lusby	PK-5	654	17
Huntingtown Elementary School	Huntingtown	PK-5	717	17
Huntingtown High School	Huntingtown	9-12	1,404	19
Mill Creek Middle School	Lusby	6-8	680	16
Mt. Harmony Elementary School	Owings	K-5	703	19
Mutual Elementary School	Port Republic	PK-5	648	16
Northern Middle School	Owings	6-8	783	17
Northern High School	Owings	9-12	1,565	19
Patuxent Elementary School	Lusby	PK-2	531	18
Patuxent High School	Lusby	9-12	1,490	20
Plum Point Elementary School	Huntingtown	K-5	786	19
Plum Point Middle School	Huntingtown	6-8	792	17
St. Leonard Elementary School	St. Leonard	PK-5	762	20
Southern Middle School	Lusby	6-8	662	15
Sunderland Elementary School	Sunderland	K-5	479	17
Windy Hill Elementary School	Owings	PK-5	695	18
Windy Hill Middle School	Owings	6-8	747	17
Subtotals	24 facilities		17,431	
St. Mary's County SD:				
Benjamin Banneker Elementary School	Loveville	PK-5	722	15
Chopticon High School	Morganza	9-12	1,710	20
Dr. James A. Forrest Career and Technology Center	Leonardtown			
Dynard Elementary School	Chaptico	PK-5	469	18
Esperanza Middle School	Lexington Park	6-8	877	15
George Washington Carver Elementary School	Great Mills	PK-5	355	14
Great Mills High School	Great Mills	9-12	1,681	19
Green Holly Elementary School	Lexington Park	PK-5	626	11
Greenview Knolls Elementary School	Great Mills	PK-5	501	18
Hollywood Elementary School	Hollywood	PK-5	646	17

Table 2.5-24— Public Schools Located in Calvert County and St. Mary's County
(Page 2 of 2)

Public School District / Schools	City or Location	Grades Taught	Number of Students	Students per FTE Teacher
Leonardtown Elementary School	Leonardtown	PK-5	554	20
Leonardtown High School	Leonardtown	9-12	1,796	21
Leonardtown Middle School	Leonardtown	6-8	1,020	17
Lettie Marshall Dent Elementary School	Mechanicsville	PK-5	522	17
Lexington Park Elementary School	Lexington Park	PK-5	509	15
Margaret Brent Middle School	Helen	6-8	889	16
Mechanicsville Elementary School	Mechanicsville	PK-5	339	20
Oakville Elementary School	Mechanicsville	PK-5	443	19
Park Hall Elementary School	Park Hall	PK-5	525	17
Piney Point Elementary School	Tall Timbers	PK-5	600	18
Ridge Elementary School	Ridge	PK-5	302	17
Spring Ridge Middle School	Lexington Park	6-8	897	16
St. Mary's County Alternative Learning Center	Leonardtown	7-11	52	5
Town Creek Elementary School	Lexington Park	PK-5	277	16
White Marsh Elementary School	Mechanicsville	K-5	240	17
White Oak Secondary Center	Great Mills			
Subtotals	27 facilities		16,552	
Totals	**51 facilities**		**33,983**	

Notes:
FTE = full-time equivalent
K = kindergarten
PK = pre-kindergarten
SD = School District
References:
CCSD, 2007
SMCPS, 2007
GS, 2007

Table 2.5-25— Private Schools Located in Calvert County and St. Mary's County
(Page 1 of 2)

County / Private School	City or Location	Grades Taught	Number of Students	Students per FTE Teacher
Calvert County:				
Cardinal Hickey Academy	Owings	K-8	226	12
Chesapeake Montessori Ltd.	Huntingtown	PK-4	52	6
Kinds Landing Academy	Huntingtown	1-12	34	9
Mount Harmony Children's Shelter	Owings	2-8	7	7
Our Lady Star of the Sea School	Solomons	K-8	199	18
Shiloh Christian Academy	Owings	PK-12	64	7
The Calverton School	Huntingtown	PK-12	410	9
The Tidewater School	Huntingtown	PK-5	59	11
Subtotals	8 schools		1,051	
St. Mary's County:				
Bay Montessori	Lexington Park	1-6	121	20
Clover Hill Mennonite School	Leonardtown	1-8	17	17
Father Andrew White SJ School	Leonardtown	PK-8	267	18
Friendship School	Mechanicsville	1-7	30	15
Gospel Light Baptist Academy	Mechanicsville	K-8	n/a	n/a
Holy Angels Sacred Heart School	Avenue	PK-8	99	10
Honey MacCallum Christian Preschool	California	PK-K	65	15
Leonard Hall Junior Naval Academy	Leonardtown	6-12	94	8
Lexington Park Baptist Preschool	Lexington Park	PK-K	80	14
Little Flower School	Great Mills	PK-8	276	16
Loveville Mennonite School	Leonardtown	1-8	43	22
Mechanicsville Mennonite Christian	Leonardtown	1-10	N/A	N/A
Mechanicsville Mennonite School	Leonardtown	1-10	N/A	8
Mother Catherine Spalding School	Helen	PK-8	194	15
Ryceville School	Mechanicsville	1-7	31	31
St. John's Elementary School	Hollywood	K-8	214	15
St. Mary's Ryken High School	Leonardtown	9-12	641	N/A

Table 2.5-25— Private Schools Located in Calvert County and St. Mary's County
(Page 2 of 2)

County / Private School	City or Location	Grades Taught	Number of Students	Students per FTE Teacher
St. Michaels School	Ridge	K-8	170	14
Starmaker Learning Center	California	PK-5	62	8
Sunny Meadow Amish School	Mechanicsville	1-8	N/A	N/A
The Creative Beginnings School	California	K	15	25
The King's Christian Academy	Callaway	K-12	257	17
Victory Baptist Academy	Charlotte Hall	1-11	59	8
Woodburn Hill School	Mechanicsville	1-8	28	28
Woodside Amish School	Mechanicsville	1-8	N/A	N/A
Subtotals	25 schools		2,763	
Totals	**33 schools**		**3,814**	

Notes:
FTE = full-time equivalent
K = kindergarten
PK = pre-kindergarten
N/A= Not available. Private schools are not required to release additional data and, thus, some data is not available.
References:
GS, 2007

Table 2.5-26— Boat Ramps and Public Landing/Launch Sites in Calvert County and St. Mary's County, Roughly from Closest to Farthest from the CCNPP Site

County/ Facility	Location	Availability of Boat Ramps
Calvert County:		
Hallowing Point Boat Ramp	Prince Frederick	Yes
Solomons Public Boat Ramp and Fishing/Crabbing Pier	Solomons	Yes
Nans Cove	Broomes Island	Canoes only
Kings Landing Park	Huntingtown	Canoes only
Subtotal	4 facilities	
St. Mary's County:		
Clarke's Landing	Hollywood	Yes
Forrest Landing	Hollywood	Yes
Abell's Wharf	Leonardtown	Yes
Camp Calvert Landing	Leonardtown	Canoes only
Paul Ellis Landing	Avenue	Piers only
River Springs Landing	Avenue	Piers only
Bushwood Wharf	Bushwood	Yes
Chaptico Wharf	Maddox	Yes
Wicomico Shores Landing	Chaptico	Yes
Tall Timbers Landing	Tall Timbers	Piers only
Piney Point Landing	Piney Point	Yes
St. George Creek/Potomac River	Piney Point	1
St. George Island Landing	St. George Island	Piers only
St. Mary's Lake	St. Mary's Lake	2
St. Inigoes Landing	St. Inigoes	Yes
St. Mary's River/Smith Creek	St. Inigoes	1
Fresh Pond Neck Landing	Ridge	Canoes only
Fox Harbor Landing	Wynne	Piers only
Subtotal	18 facilities	
Totals	**22 facilities**	

References:
DB, 2007
CCDED, 2007b
SMCDT, 2007

Table 2.5-27— Marinas in Calvert County and St. Mary's County, Roughly from Closest to Farthest from the CCNPP Site
(Page 1 of 2)

County / Marina	City or Location	Annual Dockage/Transients	Mean Water Level, feet
Calvert County:			
KB Derr & Son Marina	Lusby	100	4 ft
Vera's White Sands Marina	Lusby	100	15 ft
Flag Harbor Yacht Haven	St. Leonard	168	7 ft
Broomes Island Marina	Broomes Island	40	5.5 ft
Beacon Marina	Solomons	186	6 ft
Calvert Marina	Solomons	450	10 ft
Harbor Island Marina, Inc.	Solomons	115	12 ft
Hospitality Harbor Marina	Solomons	75	8 ft
Spring Cove Marina	Solomons	250	15 ft
Solomons Yachting Center	Solomons	100	12 ft
Zahniser's Yachting Center	Solomons	300	15 ft
Abner's Marina	Chesapeake Beach	100	6 ft
Breezy Point Marina	Chesapeake Beach	225	4.5 ft
Rod 'N Reel Dock	Chesapeake Beach	125	5 – 6 ft
Rod 'N Reel Marina West	Chesapeake Beach	88	5 – 6 ft
Subtotals	15 marinas	2,422	N/A
St. Mary's County:			
Boatel California	California	N/A	N/A
Blackstone Marina	Hollywood	N/A	N/A
Week's Marina	Hollywood	N/A	N/A
Combs Creek Marina	Leonardtown	N/A	N/A
Cape St. Mary's Marina, Inc.	Mechanicsville	N/A	N/A
Lindy's Marina	Avenue	N/A	N/A
St. Patrick's Creek Marina	Abell	N/A	N/A
Cather Marine, Inc.	Colton's Point	N/A	N/A
Colton's Point Marina	Colton's Point	N/A	N/A
Cedar Cove Marina	Valley Lee	N/A	N/A
Dennis Point Marina	Drayden	N/A	N/A
Feldman's Marine Railways	Drayden	N/A	N/A
St. Mary's Yachting Center	Drayden	N/A	N/A
Tall Timbers Marina	Tall Timbers	N/A	N/A
Curly's Point Marina	Piney Point	N/A	N/A
Haskell's Marina	Piney Point	N/A	N/A
Buzz's Marina	Ridge	N/A	N/A
Drury's Marina	Ridge	N/A	N/A
Phil's Marina	Ridge	N/A	N/A
Point Lookout Marina	Ridge	N/A	N/A
Rick's Marine	Scotland	N/A	N/A

Table 2.5-27— Marinas in Calvert County and St. Mary's County, Roughly from Closest to Farthest from the CCNPP Site
(Page 2 of 2)

County / Marina	City or Location	Annual Dockage/Transients	Mean Water Level, feet
Subtotals	21 marinas	N/A	N/A
Totals	**36 marinas**	**N/A**	**N/A**

Notes:
N/A = not applicable
References:
CC, 2007
CCDED, 2007b
SMCTT, 2007
SMCDT, 2007

Table 2.5-28— Charter Boat Services/Associations in Calvert County and St. Mary's County, Roughly from Closest to Farthest from the CCNPP Site
(Page 1 of 2)

County/Service	Location	Number of Boats
Calvert County:		
Bay Paddlers	Chesapeake Beach	N/A
Breezy Point Charter Boat Association	Chesapeake Beach	N/A
Chesapeake Beach Fishing Charters	Chesapeake Beach	15
Rod-N-Reel Charter Captains	Chesapeake Beach	25
Bunky's Charter Boats	Solomons	N/A
Calvert Marina Charter Dock	Solomons	16
Solomons Charter Captains Association	Solomons	40
St. Mary's County:		
Brady Bounds	Lexington Park	N/A
Mark Bowes	Leonardtown	N/A
John Guy	Leonardtown	N/A
Bob Holden	Leonardtown	N/A
James Sommerville	Loveville	N/A
Pete Ide	Callaway	N/A
Matt Bowes	Valley Lee	N/A
Joe Scrivener	Valley Lee	N/A
Mopey Barber	Tall Timbers	N/A
Bob Bowes	Tall Timbers	N/A
Mark Miller	Tall Timbers	N/A
Jeff Swanson	Tall Timbers	N/A
Jeff Pharis	Piney Point	N/A
Stan Harris	St. Inigoes	N/A
Phil Langley, Jr.	Dameron	N/A
Charles Nicholson	Dameron	N/A
David Bradburn	Ridge	N/A
Joseph Bryan	Ridge	N/A
Butch Cornelius	Ridge	N/A
Eddie Davis	Ridge	N/A
Steve Davis	Ridge	N/A
Greg Drury	Ridge	N/A
James Gray	Ridge	N/A
Craig Kelly	Ridge	N/A
Clayton Lore & Joseph Lore, II	Ridge	N/A
Greg Madjeski	Ridge	N/A
Jason McLaughlin	Ridge	N/A
Dave Norris	Ridge	N/A
Steve & Mike Owens	Ridge	N/A
Dave Norris	Ridge	N/A

Table 2.5-28— Charter Boat Services/Associations in Calvert County and St. Mary's County, Roughly from Closest to Farthest from the CCNPP Site
(Page 2 of 2)

County/Service	Location	Number of Boats
Steve & Mike Owens	Ridge	N/A
Randy Powers	Ridge	N/A
Scott Russell	Ridge	N/A
Gary Sacks	Ridge	N/A
Bruce Scheible	Ridge	N/A
Jim Van Reenen	Ridge	N/A
Darryl Gay	Scotland	N/A

Note:
Charter boat information for Calvert County was available by boat association whereas information for St. Mary's County was available by individual boat captain.
N/A = not available
References:
CCDED, 2007b
SMCDT, 2007

Table 2.5-29— Campgrounds and RV Parks Within About 30 Miles (48.3 km) of Lusby, Maryland

Campground/RV Park	Location or Area	Spaces	Distance from Lusby (mi)
Calvert County:			
Breezy Point Beach & Campground	Chesapeake Beach	80	N/A
Patuxent Camp Sites	St. Leonard	75	11.6
Subtotals	2 facilities	155	N/A
St. Mary's County:			
Take It Easy Campground	Callaway	264	18.5
St. Mary's Yachting Center (formerly Dennis Point)	Drayden	100	N/A
Dennis Point Campground	Drayden	75	24.9
Seaside View Park and Campground	Ridge	N/A	26.7
Camp Merryelande Vacation Cottages	Piney Point	49	28.3
Point Lookout State Park	Scotland	143	31.2
Subtotals	6 facilities	631	N/A
Charles County:			
Aqualand on the Potomac Campground	Newburg	98	44.4
Totals	**9 facilities**	**1,515**	**N/A**

Notes:
N/A = not available
Campgrounds within Dorchester County within the 30-linear mile radius of Lusby are excluded from this table because they are not on the peninsula and the actual driving miles would be too extensive for potential commuting to the CCNPP site.
References:
GC, 2007
CCDED, 2007a
SMCDT, 2007

Table 2.5-30— Property and Income Tax Rates in Calvert County and St. Mary's County, 2006

Type of Tax, 2006	County	
	Calvert	St. Mary's
Property Taxes, per $100 valuation:		
Real Property	0.892%	0.872%
Personal Property	2.23	N/A
Utility Property	22.3	N/A
Effective Rate	3.122	N/A
Income Tax:	2.80%	3.00%

References:
MD, 2007

Table 2.5-31— Fiscal Year 2005 Actual County Revenues and Expenditures in Calvert County and St. Mary's County (rounded, in 2005 million dollars)
(Page 1 of 2)

Type of Revenue/Expenditure	Calvert County		St. Mary's County	
	2005 million $	Percent	2005 million $	Percent
Revenues:				
Property Taxes	$ 78.8	45.3 %	$ 58.3	40.2 %
Income Taxes	54.4	31.2	54.1	37.3
Other Local Taxes	14.5	8.3	13.4	9.2
State Shared Taxes	5.3	3.0	6.2	4.3
Licenses & Permits	0.2	0.1	0.8	0.6
Intergovernmental	10.3	5.9	6.2	4.3
Charges for Services	3.5	2.0	4.7	3.2
Fines & Forfeitures	0.1	< 0.1	0.2	0.1
Miscellaneous	4.2	2.4	1.2	0.8
Other Financing Sources	2.8	1.6	0.0	0.0
Total Revenues	**$ 174.1**	**99.9 %**	**$ 145.2**	**100.0 %**
Operating Expenditures:				
County Commissioners/Admin.	0.3	0.4	0.9	1.3
Aging	1.4	1.7	1.7	2.4
Public Safety	4.0	4.8	3.3	4.7
State Attorney	1.1	1.3	1.9	2.7
County Attorney	0.6	0.7	0.4	0.6
Circuit & Orphan's Court	0.6	0.7	1.0	1.4
Sheriff & Corrections	12.0	14.4	17.8	25.1
Economic Development	0.9	1.1	2.3	3.2
Finance	1.3	1.6	1.1	1.6
Treasurer	0.3	0.4	0.3	0.4
Public Works & Transportation	7.6	9.1	13.6	19.2
Marcey Halfway House	n/a	n/a	0.4	0.6
Human Resources/Personnel	0.4	0.5	1.2	1.7
Land Use Planning/Zoning & Growth Management	2.2	2.6	2.0	2.8
Recreation & Parks	2.5	3.0	3.1	4.4
Natural Resources & Community Services/Resources	6.6	7.9		
Information Technology	1.4	1.7	1.7	2.4
Capital Projects	8.8	10.5	N/A	N/A
Pensions & Insurance	10.4	12.4	N/A	N/A
State & Other Agencies	5.4	6.5	2.2	3.1
College of Southern Maryland	1.9	2.3	2.1	3.0
Library	2.5	3.0	1.7	2.4
Debt Service & Other	10.2	12.2	12.1	17.1

Table 2.5-31— Fiscal Year 2005 Actual County Revenues and Expenditures in Calvert County and St. Mary's County (rounded, in 2005 million dollars)

(Page 2 of 2)

Type of Revenue/Expenditure	Calvert County		St. Mary's County	
	2005 million $	Percent	2005 million $	Percent
Subtotal Operating Expenditures	**$ 83.6**	**98.8 %**	**$ 70.8**	**100.1%**
Other Expenditures:				
Operating Transfers Out - Board Of Education	$ 80.9	97.9 %	$ 58.9	97.8 %
Operating Transfers Out – Other	1.7	2.1	1.4	2.3
Subtotal Other Expenditures	**$ 82.6**	**100.0 %**	**$ 60.3**	**100.1 %**
Total Operating and Other Expenditures	**166.2**	**N/A**	**$131.1**	**N/A**

Notes:
N/A = not applicable
Percentages and numbers may total slightly more or less than the total due to rounding.
References:
CCBCC, 2005
SMCBCC, 2006

Table 2.5-32— Calvert County General Fund Revenues and County-wide Taxable Assessed Property Values, 2000 to 2005

Calvert County General Fund Revenue	Fiscal Year		
	2000	2001	2002
Total Revenues:	$ 119,537,896	$ 127,871,223	$ 131,015,438
Total Taxes	106,816,325	112,063,431	114,167,126
Property Taxes (real and personal, levied)	66,287,086	64,521,905	63,182,466
Taxable Assessed Value (real property):	$1,885,426,385	$1,977,672,353	$5,203,051,084
Calvert County General Fund Revenue	**Fiscal year**		
	2003	**2004**	**2005**
Total Revenues:	$ 136,064,177	$ 149,011,597	$ 174,053,536
Total Taxes	120,210,329	133,860,495	153,049,038
Property Taxes (real and personal, levied)	66,188,158	71,093,332	78,790,203
Taxable Assessed Value (real property):	$5,577,546,203	$5,967,684,896	$6,522,591,844
CCNPP Assessed Value	N/A	N/A	$ 675,153,560

Notes:
As of FY 2002, real property taxes are assessed at the property's estimated actual value. Previously, real property taxes were assessed at 40% of the property's estimated real value. Reflects decreases in assessment due to tax reform related to electric deregulation. A 50% exemption was given on assets used in the generation of electricity. This exemption was phased in over two years.
N/A = not available
References:
CCBCC, 2005

Table 2.5-33— Water Districts/Systems in Calvert County and St. Mary's County
(Page 1 of 2)

County / Water System	Number of Accounts	Capacity (gals/ day)	Level of Use	
			Gallons/day	Percentage
Calvert County:				
Cavalier County	134	216,000	45,000	20.8 %
Chesapeake Beach	3,500	335,000	290,000	86.6
Chesapeake Heights	283	216,000	55,000	25.5
Chesapeake Lighthouse	134	N/A	1,000	N/A
Cross Point	141	N/A	3,000	N/A
Dares Beach	186	87,000	38,000	43.7
Hunting Hills	44	29,000	14,000	48.3
Industrial Park	34	N/A	2,000	N/A
Kenwood Beach	117	72,000	21,000	29.2
Lakewood	69	36,000	23,000	63.9
Marley Run	48	N/A	5,000	N/A
Mason Road	17	57,000	6,000	9.5
North Beach	2,000	432,000	166,000	38.4
Paris Oaks	89	32,000	13,000	40.6
Prince Frederick	1,029	288,000	117,000	40.6
Shores of Calvert	126	216,000	30,000	13.9
Solomons	976	900,000	225,000	25.0
St. Leonard	105	65,000	12,000	18.5
Summit/Highlands	259	860,000	40,000	4.7
Tara	24	N/A	2,000	N/A
Walnut Creek	56	N/A	2,000	N/A
White Sands	29	10,000	7,000	70.0
Subtotals – 22 Districts	9,400			
*** St. Mary's County:**				
Birch Manor	100	133,920	30,000	22.4
Breton Bay	359	648,000	107,700	16.6
Cedar Cove	445	540,000	133,500	24.7
Charlotte Hall/McKay	N/A	293,760	N/A	N/A
Country Lakes	1,074	1,869,480	322,200	17.2
Fenwick Manor	83	97,200	249,000	25.6
Forest Farms	N/A	N/A	N/A	N/A
Fox Meadow	32	181,400	9,600	5.3
Greenbrier	140	648,000	420,000	65.0
Greenciew Knolls	340	316,440	102,000	32.2
Hearts Desire	N/A	N/A	N/A	N/A
Holland Forest	49	216,000	14,700	6.8
Hollywood	N/A	174,960	N/A	N/A

Table 2.5-33— Water Districts/Systems in Calvert County and St. Mary's County
(Page 2 of 2)

County / Water System	Number of Accounts	Capacity (gals/day)	Level of Use	
			Gallons/day	Percentage
Hunting Quarters	120	540,000	360,000	67.0
King & Kennedy	59	151,200	17,700	11.7
Laurel Ridge	307	228,960	92,100	40.2
Lexington Park	9,379	N/A	2,813,700	N/A
Mulberry South	20	86,400	6,000	6.9
Persimmon Hill	N/A	N/A	N/A	N/A
Piney Point	218	118,800	65,400	55.1
Piney Point Landings	58	N/A	17,400	N/A
Rolling Acres	307	172,800	92,100	53.3
Southgate	79	27,000	N/A	N/A
St. Clements Shores	219	124,200	65,700	52.9
Village of Leonardtown	N/A	N/A	N/A	N/A
Wicomicco Shores	420	3,000,000	126,000	4.2
Wilderness Run	N/A	N/A	N/A	N/A
Subtotals – 25 Districts	13,808			
Totals – 49 Systems	23,208			

Note:
N/A = not available
Calvert County data is from 2003 - number of accounts equal to residential population served. St. Mary's County data is from 2003.
This table contains only water systems that are under the authority of the Utilities Bureau in the case of Calvert County and the St. Mary's Metropolitan Commission in the case of St. Mary's County.
* St. Mary's County "Level of Use" is equal to the number of occupied units x 300 gpd, (average usage per 1 unit according to the "St. Mary's County Metropolitan Commission Table of Equivalent Dwelling Units, Revised October 11, 2007") (SMCMCEDU, 2007).
References:
CCWS, 2007
SMCMC, 2007
SMCMCGR, 2009

Table 2.5-34— Sewer Districts/Systems in Calvert County and St. Mary's County

County / Sewer System	Number of Accounts	Capacity (gals/ day)	Level of Use	
			Gallons/day	Percentage
Calvert County:				
Calvert Cliffs Nuclear Power Plant	0	66,600	12,640	18.0
Chesapeake Beach Municipality	3,500	1,500,000	490,000	32.6
Industrial Park Water and Sewer	N/A	60,000	20,000	33.3
Marley Run Water and Sewer	N/A	15,000	6,000	40.0
Naval Research Facility Randle Cliffs	300	75,000	30,000	40.0
Northern High School	2,100	40,000	21,000	52.5
Prince Frederick Water and Sewer	435	750,000	400,000	53.3
Solomons Water and Sewer	3,500	700,000	400,000	57.1
Subtotals – 8 facilities	9,835			
St. Mary's County:				
Forest Farm	173	57,500	40,000	70.0
Marlay-Taylor	15,656	6,000,000	3,840,000	64.0
St. Clement's Shores	545	100,000	77,000	77.0
Wicomico Shores	462	141,000	137,000	97.0
Subtotals – 4 facilities	16,836			
Totals – 12 facilities	**26,671**			

Note:
N/A = not available
This table contains only water systems that are under the authority ofthe Utilities Bureau in the case of Calvert County and the St. Mary's Metropolitan Commission in the case of St. Mary's County.
* Data provided for St. Mary's County Sewer Systems is current data (2008).
References:
CCWS, 2007
SMCMC, 2007
SMCMCGR, 2009
SMCMCWN, 2009

Table 2.5-35— Fiscal Year 2005 Actual Law Enforcement Agency Staffing, Budgets, and Calls for Service in Calvert County and St. Mary's County

Department	Agency		
	Maryland State Troopers, Statewide	Calvert County	St. Mary's County
Law Enforcement Department:			
Staff (FTEs):			
Officers	1,516	92.4	N/A
Support/Other	723	13.2	N/A
Subtotals	2,239	105.6	N/A
Budget:			
Salaries	$ 171.6	$ 6.0	$ 11.3
Other Expenses	$ 114.1	0.9	0.5
Subtotals	$ 285.7	$ 6.9	$ 11.8
Detention Facilities:			
Staff (FTEs):			
Officers	N/A	51.0	N/A
Support/Other	N/A	13.5	N/A
Subtotals	11,740	64.5	N/A
Budget:			
Salaries	N/A	$ 3.3	N/A
Other Expenses	N/A	1.2	N/A
Subtotals	$1.0	$4.5	$ 6.0
Inmate Population:			
Number of Inmates Received/Processed	N/A	2,917	2,545
Average Daily Population	26,748	222	292

Notes:
FTE = full-time equivalents
References:
SMCBCC, 2006
CCBCC, 2005
MDSP, 2007

Table 2.5-36— Fire/EMS Departments in Calvert County and St. Mary's County

County / Department	Location or Area	Type of Department	Number of Stations	Number of Firefighters / Other Staff	CY 2005 Calls
Calvert County:					
Calvert Advanced Life Support, Co. 10	N/A	Volunteer	N/A	N/A	3,781
Calvert Dive Rescue Team, Co. 12	N/A	Volunteer	N/A	N/A	21
Dunkirk VFD & RS, Co. 5	Dunkirk	Volunteer	1	75 / 15	1,794
Huntingtown VFD & RS, Co. 6	Huntingtown	Volunteer	1	60 / 6	2,057
North Beach VFD & RS, Co. 1	Chesapeake Beach	Volunteer	1	65 / 0	1,691
Prince Frederick VFD, Co. 2	Prince Frederick	Volunteer	1	55 / 10	937
Prince Frederick VRS, Co. 4	Prince Frederick	Volunteer	See Co. 2	See Co. 2	2,001
Saint Leonard VFD & RS, Co. 7	Saint Leonard	Volunteer	N/A	N/A	1,700
Solomons VRS & FD, Co. 3	Solomons	Volunteer	2	60 / 25	2,815
Subtotals			6	800 (315 / 56 *)	16,797
St. Mary's County:					
Department of Public Safety, Fire & Emergency Services	Patuxent River	Career – U.S. Department of Defense	3	66 / 11	N/A
Hollywood VFD	Hollywood	Volunteer	1	75 / 20	N/A
Leonardtown VFD	Leonardtown	Volunteer	1	59 / 15	N/A
Mechanicsville VFD, Inc.	Mechanicsville	Volunteer	2	110 / 20	N/A
Ridge VFD	Ridge	Volunteer	1	80 / 30	N/A
Seventh District VFD, Inc.	Avenue	Volunteer	1	32 / 0	N/A
Subtotals			9	737 / 152	N/A
Totals			**15**		

Notes:
Cop. = Company
CY = calendar year
FD = Fire Department
n/a = not available
RS = Rescue Squad
VFD = Volunteer Fire Department
VRS = Volunteer Rescue Squad
* = The public safety office and other sources note that there are over 800 volunteers staffing the fire/EMS departments in Calvert County. Thus, the staff levels for each department are only provided to illustrate the general distribution of staff.
References:
FD, 2007
CCDFB, 2005

Table 2.5-37— EMS Calls for Service in Calvert County and St. Mary's County, June 2005 to May 2006

County of Occurrence	County Where Injury Occurred	Patient's County of Residence	Number of Children Injured
Calvert County	132	175	27
St. Mary's County	147	119	29

References:
MIEMSS, 2006

Table 2.5-38— Peak Hour Traffic Volumes at Calvert Cliffs Parkway and MD 2/4

Before Labor Day (Late Aug 2006					
	MD 2/4 NB	MD 2/4 SB	Site In	Site Out	Total
AM Peak Hour	1,252	1,048	82	14	2,396
PM Peak Hour	1,078	1,581	25	178	2,862
After Labor Day (Late September – Early October 2006)					
	MD 2/4 NB	MD 2/4 SB	Site In	Site Out	Total
AM Peak Hour	1,235	1,005	88	10	2,338
PM Peak Hour	1,104	1,412	37	204	2,757

References:
KLD, 2007

Table 2.5-39— Summary of Surveyed Architectural Resources

MHT No.	Name	Date	Resource Type	Location	Recommended NRHP Status
CT-58	Parran's Park	c1750	Abandoned Farmstead; 3 tobacco barns	In the APE	NRHP Eligible under Criterion A
CT-59	Preston's Cliff, Charles's Gift, The Wilson Farm	c1690	Ruins; 3 tobacco barns and house ruins	In the APE for visual effects	NRHP Eligible under Criteria A and C
CT-154	Calvert Cliffs Nuclear Power Plant	c1975	Nuclear Power Plant	In the APE and adjacent area	Not Eligible
CT-1295	Baltimore & Drum Point Railroad	c1890	Abandoned Railroad; railroad bed	In the APE	Offsite portions determined NRHP eligible; project portions NRHP Eligible under Criteria A and C
CT-1312	Camp Conoy	c1930	YMCA Camp; 6 buildings, 2 pavilions, playground, swimming pool, tennis courts	In the APE and adjacent area	NRHP Eligible under Criterion A

Notes:
MHT = Maryland Historical Trust
NRHP = National Register of Historic Places
References:
GAI, 2007

Table 2.5-40— Phase Ib Summary of Surveyed Archaeological Sites
(Page 1 of 2)

Site (MHT No.)	Dimensions feet (meters)	Artifacts (Hist.)	Artifacts (Prehist.)	Site Type	Age	Phase Ib Recommended NRHP Status	Phase Ib Recommendations
Site 1 (18CV474)	148 x 148 (45 x 45)	175	--	Artifact Scatter/ Foundation	19^{th} century	Potentially Eligible	Avoid/Phase II
Site 2 (18CV475)	49 x 49 (15 x 15)	17	--	Artifact Scatter/ Foundation	19^{th} century	Not eligible	No Further Work
Site 3 (18CV476)	82 x 26 (25 x 8)	4	--	Refuse Dump	20^{th} century/ Modern	Not eligible	No Further Work
Site 4 (18CV477)	148 x 449 (45 x 137)	102	--	Refuse Dump/ Outbuilding	Mid-late 20^{th} century	Not eligible	No Further Work
Site 5 (18CV478)	66 x 82 (20 x 25)	24	--	Artifact Scatter	20^{th} century	Not eligible	No Further Work
Site 6 (18CV479)	49 x 66 (15 x 20)	--	7	Lithic Scatter	Indeterminate Prehistoric	Not eligible	No Further Work
Site 7 (18CV480)	997 x 499 (304 x 152)	294	--	Domestic Site	Mid 19^{th} to 20^{th} century	Potentially Eligible	Avoid/Phase II
Site 8 (18CV481)	148 x 108 (45 x 33)	31	--	Domestic Site	19^{th} to early 20^{th} century	Potentially Eligible	Avoid/Phase II
Site 9 (18CV482)	148 x 98 (45 x 30)	64	--	Domestic Site	Mid19^{th} to early 20^{th} century	Potentially Eligible	Avoid/Phase II
Site 10 (18CV483)	141 x 118 (43 x 36)	54	1	Domestic Site/ Artifact Scatter/ Lithic Findspot	Mid 19^{th} to 20^{th} century; Indeterminate Prehistoric	Not Eligible	No Further Work
Site 11 (18CV484)	318 x 39 (97 x 12)	12	--	Field Scatter	20^{th} century	Not eligible	No Further Work
Site 12 (18CV485)	16 x 33 (5 x 10)	5	--	Artifact Scatter	Mid 19^{th} to 20^{th} century	Not eligible	No Further Work
Site 13 (18CV486)	69 x 39 (21 x 12)	9	--	Artifact Scatter	19^{th} to 20^{th} century	Not eligible	No Further Work
Site 14 (18CV487)	115 x 33 (35 x 10)	7	--	Artifact Scatter	19^{th} century	Not eligible	No Further Work

Table 2.5-40— Phase Ib Summary of Surveyed Archaeological Sites
(Page 2 of 2)

Site (MHT No.)	Dimensions feet (meters)	Artifacts (Hist.)	Artifacts (Prehist.)	Site Type	Age	Phase Ib Recommended NRHP Status	Phase Ib Recommendations
Site 15 (18Cv489)	148 x 295 (45 x 90)	83	--	Artifact Scatter	19^{th} to early 20^{th} century	Not eligible	No Further Work
Site 16 (18Cv490)	148 x 98 (45 x 30)	12	--	Artifact Scatter	20^{th} century	Not eligible	No Further Work
Site 17 (18Cv7)	250 x 530 (76 x 162)	143	1	Domestic Site	Early 19^{th} to 20^{th} century	Potentially eligible	No Further Work*

* MHT (February 13, 2009) concludes No Further Work based on reforestation of the area through hand-planting of seedlings. In the event that hand-planting of seedlings is not possible further consultation regarding potential impacts to the site will be necessary.

Notes:

NRHP = National Register of Historic Places

MHT = Maryland Historical Trust

References:

GAI, 2007

Table 2.5-41— Summary of Identified Isolated Finds
(Page 1 of 2)

IF	Setting	Landform	Age	NRHP Eligibility
IF 1	Upland	Ridge spur	Prehistoric	Not eligible
IF 2	Upland	Upland Flat	Prehistoric	Not eligible
IF 3	Upland	Bench	Prehistoric	Not eligible
IF 5	Upland	Side Slope	Prehistoric	Not eligible
IF 6	Upland	Ridge	Historic	Not eligible
IF 7	Upland	Broad Ridgetop	Historic	Not eligible
IF 8	Upland	Ridge Spur	Historic	Not eligible
IF 9	Upland	Saddle	Historic	Not eligible
IF 12	Upland	Saddle	Historic	Not eligible
IF 13	Upland	Bench	Historic	Not eligible
IF 14	Upland	Bench	Historic	Not eligible
IF 15	Upland	Bench	Historic	Not eligible
IF 16	Upland	Ridgetop	Historic	Not eligible
IF 17	Upland	Ridgetop	Historic	Not eligible
IF 18	Upland	Ridgetop	Historic	Not eligible
IF 19	Upland	Ridgetop	Historic	Not eligible
IF 20	Upland	Ridgetop	Historic	Not eligible
IF 21	Upland	Ridgetop	Historic	Not eligible
IF 22	Upland	Broad Ridgetop	Historic	Not eligible
IF 23	Upland	Broad Ridgetop	Historic	Not eligible
IF 24	Upland	Broad Ridgetop	Historic	Not eligible
IF 25	Upland	Ridgetop	Historic	Not eligible
IF 26	Upland	Broad Ridgetop	Historic	Not eligible
IF 27	Upland	Broad Ridgetop	Historic	Not eligible
IF 28	Upland	Broad Ridgetop	Historic	Not eligible
IF 29	Upland	Broad Ridgetop	Prehistoric	Not eligible
IF 30	Upland	Broad Ridgetop	Prehistoric/ Historic	Not eligible
IF 31	Upland	Broad Ridgetop	Prehistoric/ Historic	Not eligible
IF 32	Upland	Broad Ridgetop	Historic	Not eligible
IF 33	Upland	Broad Ridgetop	Historic	Not eligible
IF 34	Upland	Broad Ridgetop	Historic	Not eligible
IF 35	Upland	Broad Ridgetop	Historic	Not eligible
IF 36	Upland	Broad Ridgetop	Historic	Not eligible
IF 37	Upland	Broad Ridgetop	Prehistoric	Not eligible
IF 38	Upland	Broad Ridgetop	Prehistoric/ Historic	Not eligible
IF 39	Upland	Broad Ridgetop	Historic	Not eligible
IF 40	Upland	Broad Ridgetop	Historic	Not eligible

Table 2.5-41— Summary of Identified Isolated Finds
(Page 2 of 2)

IF	Setting	Landform	Age	NRHP Eligibility

Notes:
IF numbers are not sequential (numbers 4, 10 and 11 do not appear).
IF = Isolated Find
NRHP = National Register of Historical Places
References:
GAI, 2007

Table 2.5-42— Summary of Phase II National Register Site Evaluations [a]

Site (MHT No.)	Site Type	Age	NRHP Status	Recommended Action
Site 1 (18CV474)	Domestic Site	Mid 19th to early 20th century	Eligible, Criterion C	Avoid/Phase III
Site 7 (18CV480)	Domestic Site	Mid 19th to 20th century	Not Eligible	No Further Work
Site 8 (18CV481)	Domestic Site	Late 19th to early 20th century	Not Eligible	No Further Work
Site 9 (18CV482)	Domestic Site	Late 19th century	Not Eligible	No Further Work

Notes:
NRHP = National Register of Historic Places
MHT = Maryland Historical Trust
[a] Based on Maryland SHPO comments (February 13, 2009)
References:
MHT, 2007

Table 2.5-43— Summary of Eligible Architectural Resources [a]

MHT No.	Name	Date	Resource Type	Location	Recommended NRHP Status
CT-58	Parran's Park	C1750	Abandoned Farmstead; 3 tobacco barns	In the APE	NRHP Eligible under Criterion A
CT-59	Preston's Cliff, Charles's Gift, The Wilson Farm	c1690	Ruins; 3 tobacco barns and house ruins	In the APE for visual effects	NRHP Eligible under Criteria A and C
CT-1295	Baltimore and Drum Point Railroad	c1890	Abandoned Railroad; railroad bed	In the APE	Offsite portions determined NRHP eligible; project portions NRHP Eligible under Criteria A and C
CT-1312	Camp Conoy	c1930	YMCA Camp; 4 buildings, pavilion, playground, swimming pool, tennis courts	In the APE and adjacent area	NRHP Eligible under Criterion A

Notes:
NRHP = National Register of Historic Places
MHT = Maryland Historical Trust
[a] Based on Maryland SHPO comments
References:
MHT, 2007

Table 2.5-44— Census Block Groups within 50 mi (80 km) of the CCNPP Site with Minority and Low Income Populations
(Page 1 of 3)

State / County	Total Number of Census Block Groups	Number of Minority Census Block Groups								Number of Low Income Census Block Group
		Black	American Indian or Alaskan Native	Asian	Native Hawaiian or Other Pacific Islander	Some Other Race	Multi-Racial	Aggregate (Total)	Hispanic	
Maryland:										
Anne Arundel	240	13	0	0	0	0	0	16	2	5
Calvert	41	0	0	0	0	0	0	0	0	0
Caroline	21	1	0	0	0	0	0	1	0	0
Charles	76	6	0	0	0	0	0	10	0	0
Dorchester	30	4	0	0	0	0	0	5	0	2
Kent	5	0	0	0	0	0	0	0	0	0
Montgomery	49	7	0	2	0	6	0	32	16	0
Prince Georges	471	321	0	2	0	12	0	380	34	6
Queen Annes	18	0	0	0	0	0	0	0	0	0
St. Mary's	55	0	0	0	0	0	0	2	0	1
Somerset	19	5	0	0	0	0	0	5	0	4
Talbot	25	1	0	0	0	0	0	1	0	0
Wicomico	65	11	0	0	0	0	0	11	0	9
Worcester	1	0	0	0	0	0	0	0	0	0
Subtotal	1,116	369	0	4	0	18	0	463	52	27
Virginia:										
Accomack	2	0	0	0	0	0	0	0	0	0
Alexandria	99	9	0	1	0	3	0	33	11	0
Arlington	137	8	0	2	0	6	0	20	23	1
Caroline	3	1	0	0	0	0	0	1	0	1
Essex	9	4	0	0	0	0	0	2	0	0
Fairfax	219	7	0	12	0	4	0	38	25	0

Table 2.5-44— Census Block Groups within 50 mi (80 km) of the CCNPP Site with Minority and Low Income Populations
(Page 2 of 3)

State / County	Total Number of Census Block Groups	Number of Minority Census Block Groups: Black	American Indian or Alaskan Native	Asian	Native Hawaiian or Other Pacific Islander	Some Other Race	Multi-Racial	Aggregate (Total)	Hispanic	Number of Low Income Census Block Group
Falls Church	3	0	0	0	0	0	0	0	0	0
King and Queen	1	1	0	0	0	0	0	0	0	0
King George	11	0	0	0	0	0	0	0	0	0
Lancaster	8	4	0	0	0	0	0	4	0	0
Middlesex	2	0	0	0	0	0	0	0	0	0
Northumberland	13	3	0	0	0	0	0	0	0	0
Prince William	69	4	0	0	0	1	0	10	5	0
Richmond	6	2	0	0	0	0	0	0	0	0
Stafford	7	0	0	0	0	0	0	0	0	0
Westmoreland	16	5	0	0	0	0	0	5	0	1
Subtotal	605	48	0	15	0	14	0	113	64	3
Washington, D.C.:	433	294	0	3	0	6	0	312	17	35
Delaware:										
Kent	1	0	0	0	0	0	0	0	0	0
Sussex	22	3	0	0	0	0	0	3	0	2
Subtotal	23	3	0	0	0	0	0	3	0	2
Total Census Block Groups	**2,177**	**714**	**0**	**22**	**0**	**38**	**0**	**891**	**133**	**67**

Table 2.5-44— Census Block Groups within 50 mi (80 km) of the CCNPP Site with Minority and Low Income Populations
(Page 3 of 3)

		Number of Minority Census Block Groups								
State / County	Total Number of Census Block Groups	Black	American Indian or Alaskan Native	Asian	Native Hawaiian or Other Pacific Islander	Some Other Race	Multi-Racial	Aggregate (Total)	Hispanic	Number of Low Income Census Block Group

Notes:
(1) A person of Hispanic/Latino origin may be of any race, and therefore may also be included in the aggregate racial minority percentage.
(2) Calvert County and St. Mary's County are in the Region of Influence for socioeconomic impact analysis.
References:
USCB, 2000a
USCB, 2000b

Table 2.5-45— Census Block Groups and Percentages of Minority People Within 50 mi (80km) of the CCNPP Site

State / Area	Total Number of Census Block Groups	Aggregate (Total) Number of Minority Census Block Groups	African-Americans	Native Americans, Indians, or Alaskans	Asians	Native Hawaiians or Other Pacific Islanders	Some Other Race	Multi-Racial Persons	Aggregate (Total) of Racial Minorities	Percent of Ethnic Minority Hispanic/ Latino
50-Mile Radius:										
Maryland	1,116	463	27.89%	0.29%	3.98%	0.04%	1.80%	1.96%	35.97%	4.30%
Virginia	605	113	19.64	0.30	3.69	0.06	1.96	2.02	27.67	4.66
Washington, D.C.	433	312	60.01	0.30	2.66	0.06	3.84	2.35	69.22	7.86
Delaware	23	3	19.23	0.35	2.07	0.04	2.02	1.66	25.37	4.76
Region of Influence:										
Calvert County, MD	41	0	13.11	0.30	0.88	0.03	0.49	1.27	16.08	1.52
St. Mary's County, MD	55	2	13.92	0.34	1.80	0.08	0.61	1.68	18.43	2.00

References:
USCB, 2000a

Table 2.5-46— Census Block Groups and Percentage of Households within 50 mi (80 km) of the CCNPP Site with Low Income Populations

State / Area	Total Number of Census Block Groups	Number of Low Income Census Block Groups	Percentage of Low Income Households in Census Block Groups
50-Mile Radius:			
Maryland	1,116	27	8.32%
Virginia	605	3	9.61
Washington, D.C.	433	35	17.11
Delaware	23	2	8.75
Total	2,177	67	N/A
Region of Influence:			
Calvert County, MD	41	0	4.11
St. Mary's County, MD	55	1	6.75
Total	96	1	N/A

References:
USCB, 2000b

Table 2.5-47— Estimated Chesapeake Bay Recreational Catches in Metric Tons, Maryland and Virginia Combined, 1995 and 2000

	Commercial Catches (mt)		Recreational Catches (mt)	
Fish	**1995**	**2000**	**1995**	**2000**
American Eel	323.6	249.8	NR	NR
Atlantic Croaker	3,420.5	6,527.7	1,487.5	3,429.4
Atlantic Menhaden	319,535.3	168,738.9	NR	NR
Atlantic Sturgeon	N/A	N/A	N/A	N/A
Black Drum	32.5	28.4	77.0	7.8
Black Sea Bass*	34,812.8	22,788.5	NR	NR
Blue Crab*	34,812.8	22,788.5	NR	NR
Bluefish	292.7	279.9	245.6	216.8
Eastern Oyster	723.9	1,148.2	NR	NR
Horseshoe Crab	9.3	375.2	NR	NR
Mackerels	80.1	89.5	281.7	47.1
Red Drum	1.4	5.6	30.1	43.4
Shad/River herring	182.7	175.3	NR	NR
Spotted Seatrout	13.1	18.2	81.6	88.7
Striped Bass	896.7	2,229.0	1,366.8	1,862.7
Summer Flounder	1,582.0	1,001.0	557.1	773.3
Tautog	15.6	8.5	330.8	110.9
Weakfish	705.1	712.7	156.9	531.4

Notes:
* = the report gives identical catch levels for these two species, indicating that there is likely an error in the report. Rather than exclude the information, it is presented here assuming that the values are true for one of the species.
mt = metric tons
NR = not reported
n/a = not available
References:
CFEPTAP, 2004

Table 2.5-48— Chesapeake Bay Recreational Top Five Species Most Commonly Caught and Consumed Fish, Lower Patapsco and Back Rivers, in the Baltimore Region, Maryland, 2004

Sample Site / Type of Fish	Fish Caught and Consumed	
	Number	Percentage
Back River Sites:		
White Perch	9	27.3%
Striped Bass/Rockfish	8	24.2
Catfish (all)	3	9.1
Perch (unspecified)	3	9.1
All Others	10	30.3
Subtotal	33	100.0%
Baltimore Harbor/Patapsco River Sites:		
Striped Bass/Rockfish	33	28.9%
White Perch	23	20.2
Blue Crab/Crab	19	16.7
Catfish (all)	11	9.6
Croaker	7	6.1
All Others	21	18.4
Subtotal	114	99.9%
Combined Sites:		
White Perch	32	21.8%
Striped Bass/Rockfish	41	27.9
Blue Crab/Crab	19	12.9
Catfish (all)	14	9.5
Croaker	7	4.8
Perch (unspecified)	3	2.0
All Others	31	21.0
Total	**147**	**99.9%**

Note:
Numbers may not total 100 percent due to rounding.
References:
GM, 2005

Table 2.5-49— Chesapeake Bay Recreational Top Five Species Most Commonly Caught and Consumed Fish, Lower Potomac and Anacostia Rivers, in the Washington, D.C. Region, 2004

Type of Fish	Fish Caught and Consumed	
	Number	Percentage
Catfish (all)	59	29.2%
Striped Bass/Rockfish	35	17.3
Largemouth Bass	22	10.9
Crappie	20	9.9
Bluegill	18	8.9
All Others	48	23.8
Total	**202**	**100.0%**

References:
GM, 2005

Table 2.5-50— Chesapeake Bay Recreational Top Ten Species Most Commonly Caught and Consumed Fish, Elizabeth and James Rivers, in the Tidewater Region, Virginia, 2004

Type of Fish	Fish Caught and Consumed	
	Number	Percentage
Croaker	367	38.1%
Spot	186	19.3
Flounder	117	12.2
Striped Bass/Rockfish	76	7.9
Blue Crab	60	6.2
Trout	53	5.5
Catfish (all)	31	3.2
Crabs (unspecified)	14	1.5
Drum	12	1.2
Bluefish	9	0.9
All Others	37	3.8
Total	**962**	**99.8%**

Note:
Numbers may not total 100 percent due to rounding.
References:
GM, 2005

Table 2.5-51— Chesapeake Bay Recreational Fishing Characteristics for Minority Populations, Lower Patapsco and Back Rivers, in the Baltimore Region, Maryland, 2004

	Ethnicity / Percentages				
Fishing Characteristics	**Caucasians**	**African-Americans**	**Asians***	**Hispanics/ Latinos***	**Native Americans***
Study Sample Sizes (number / percent) – 135:	82 / 64%	43 / 33%	0 / 0%	1 / 0.7%	3 / 2%
Fishing Mode:					
Shore/Pier	79%	100%	N/A	N/A	N/A
Boat	21	0	N/A	N/A	N/A
Total	100%	100%	N/A	N/A	N/A
Distance Traveled to Fish:					
Less than 10 mi (16.1 km)	85	67	N/A	N/A	N/A
25 miles or less (40.2 km)	99	97	N/A	N/A	N/A
Consumption Over Past Year:					
Striped Bass/Rockfish	27%	10%	N/A	N/A	N/A
White Perch	13	17	N/A	N/A	N/A
Blue Crab/Crab	11	9	N/A	N/A	N/A
Catfish (all)	7	7	N/A	N/A	N/A
All Others	5	3	N/A	N/A	N/A
Total	63%	46%	N/A	N/A	N/A
Importance (Very and Somewhat) of Subsistence for:					
Fresh Fish for Dinner	54	65	N/A	N/A	N/A
To Reduce Food Expenses	17	44	N/A	N/A	N/A
Consume Fish Caught:	45	65	N/A	N/A	N/A
Reasons for Non-consumption:					
Water too polluted	43	23	N/A	N/A	N/A
Fish advisories	17	7	N/A	N/A	N/A

Note:
N/A = not available
*The samples sizes are too small to draw conclusions for these subgroups, so detailed analyses either were not conduct for all ethnic groups, or conclusions should not be drawn from any percentages presented.
References:
GM, 2005

Table 2.5-52— Chesapeake Bay Recreational Fishing Characteristics for Minority Populations, Lower Potomac and Anacostia Rivers, in the Washington, D.C. Region, 2004

Fishing Characteristics	Ethnicity / Percentages				
	Caucasians	African-Americans	Asians	Hispanics/ Latinos	Others*
Study Sample Sizes (number / percent) - 247:	79 / 32.0%	121/ 49.0%	14 / 5.7%	23 / 9.3%	10 / 4.0%
Fishing Mode:					
Shore/Pier	35%	96%	86%	100%	60%
Boat	65	4	14	0	40
Total	100%	100%	100%	100%	100%
Distance Traveled to Fish:					
Less than 10 mi (16.1 km)	54	83	64	48	n/a
Less than 25 mi (40.2 km)	> 75%	> 83%	> 75%	> 75%	> 75%
Fishing More than 50 Times Last Year:	17	25	14	N/A	N/A
Importance (Very only) of Subsistence for:					
Fresh Fish for Dinner	11	24	23	39	20
To Reduce Food Expenses	13	12	0	26	0
Consume Fish Caught:	30	36	64	43	40
Reasons for Non-consumption:					
Water too polluted	51	37	31	38	N/A
Fish advisories	4	8	0	5	N/A

Note:
N/A = not available
*The samples sizes are too small to draw conclusions for these subgroups, so detailed analyses either were not conduct for all ethnic groups, or conclusions should not be drawn from any percentages presented.
References:
GM, 2005

Table 2.5-53— Chesapeake Bay Recreational Fishing Characteristics for Minority Populations, Elizabeth and James Rivers, in the Tidewater Region, Virginia, 2004

Fishing Characteristics	Ethnicity / Percentages				
	Caucasians	African-Americans	Asians*	Hispanics / Latinos*	Native Americans*
Study Sample Sizes (number / percent) – 493:	277 / 56%	207 / 42%	1 / 0.2%	5 / 1%	4 / 0.8%
Fishing Mode:					
Shore	13%	11%	N/A	N/A	N/A
Pier	25	60	N/A	N/A	N/A
Boat	61	28	N/A	N/A	N/A
Total	99%	99%	N/A	N/A	N/A
Distance Traveled to Fish:			N/A	N/A	N/A
Less than 10 mi (16.1 km)	44	48	N/A	N/A	N/A
Greater than 100 mi (160.1 km)	25	26	N/A	N/A	N/A
Number of Times Fished Last Year:			N/A	N/A	N/A
Importance of Subsistence for:			N/A	N/A	N/A
Fresh Fish for Dinner					
Very Important	47%	53%	N/A	20%	75%
Somewhat Important	32	26	N/A	40	0
Subtotal	79%	79%	N/A	60%	75%
To Reduce Food Expenses					
Very Important	14%	26	N/A	20%	25%
Somewhat Important	20	26	N/A	20	0
Subtotal	34%	52%	N/A	40%	25%
Consume Fish Caught:	90	94	N/A	80	100
Reasons for Non-consumption:	N/A	N/A	N/A	N/A	N/A
Water too polluted	N/A	N/A	N/A	N/A	N/A
Fish advisories	N/A	N/A	N/A	N/A	N/A

Note:
N/A = not available
*The samples sizes are too small to draw conclusions for these subgroups, so detailed analyses either were not conduct for all ethnic groups, or conclusions should not be drawn from any percentages presented.
References:
GM, 2005

Table 2.5-54— Chesapeake Bay Recreational Fishing Characteristics for Low Income Populations, Lower Potomac and Anacostia Rivers, in the Washington, D.C. Region, 2004

Fishing Characteristics	Annual Household Income Levels / Percentages			
	$20,000 or Less	**$20,001 - $40,000**	**$40,001 - $80,000**	**$80,001 or More**
Study Sample Sizes (number / percent) – 247:	9%	22%	31%	39%
Fishing Mode:				
Shore/Pier	100%	N/A	N/A	49%
Boat	0	N/A	N/A	51
Total	100%	N/A	N/A	100%
Distance Traveled to Fish:	N/A	N/A	N/A	N/A
Less than 10 mi (16.1 km)	N/A	85% ($40K or less)	62% ($40K or more)	N/A
Number of Times Fished Last Year:	N/A	N/A	N/A	N/A
Importance (Very only) of Subsistence for:	N/A	N/A	N/A	N/A
Fresh Fish for Dinner	N/A	N/A	N/A	N/A
To Reduce Food Expenses	N/A	17% ($40K or less)	3% ($40K or more)	N/A
Consume Fish Caught:	30	46	36	33
Reasons for Non-consumption:	N/A	N/A	N/A	N/A
Water too polluted	N/A	N/A	N/A	N/A
Fish advisories	N/A	N/A	N/A	N/A

Note:
N/A = not available
References:
GM, 2005

Table 2.5-55— Chesapeake Bay Recreational Fishing Characteristics for Low Income Populations, Elizabeth and James Rivers, in the Tidewater Region, Virginia, 2004

Fishing Characteristics	Annual Household Income Levels / Percentages			
	$20,000 or Less	$20,001 - $40,000	$40,001 - $80,000	$80,001 or More
Study Sample Sizes (number / percent) – 493:	44 / 9%	138 / 28%	202 / 41%	109 / 22%
Fishing Mode:				
Shore	18%	13%	13%	12%
Pier	51	46	40	28
Boat	31	40	46	60
Total	100%	99%	99%	100%
Distance Traveled to Fish:				
Less than 10 mi (16.1 km)	N/A	N/A	N/A	N/A
Less than 25 mi (40.2 km)	N/A	N/A	N/A	N/A
Number of Times Fished Last Year:	N/A	N/A	N/A	N/A
Importance (Very only) of Subsistence for:	N/A	N/A	N/A	N/A
Fresh Fish for Dinner	64	56	50	38
To Reduce Food Expenses	41	29	14	11
Consume Fish Caught:				
Reasons for Non-consumption:				
Water too polluted				
Fish advisories				

Note:
N/A = not available
References:
GM, 2005

Figure 2.5-1— CCNPP Site 50 mi (80 km) Vicinity

Figure 2.5-2— CCNPP Site 10 mi (16 km) Vicinity

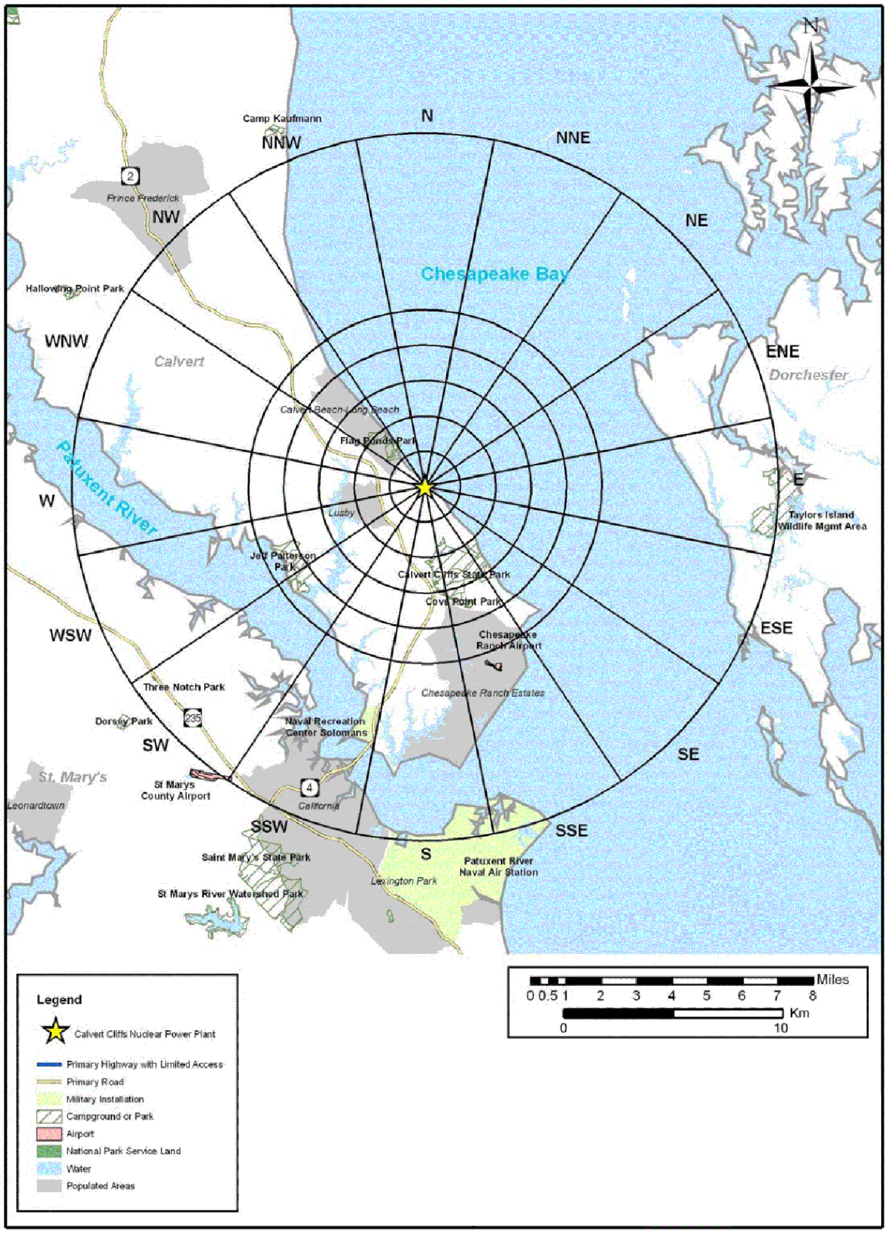
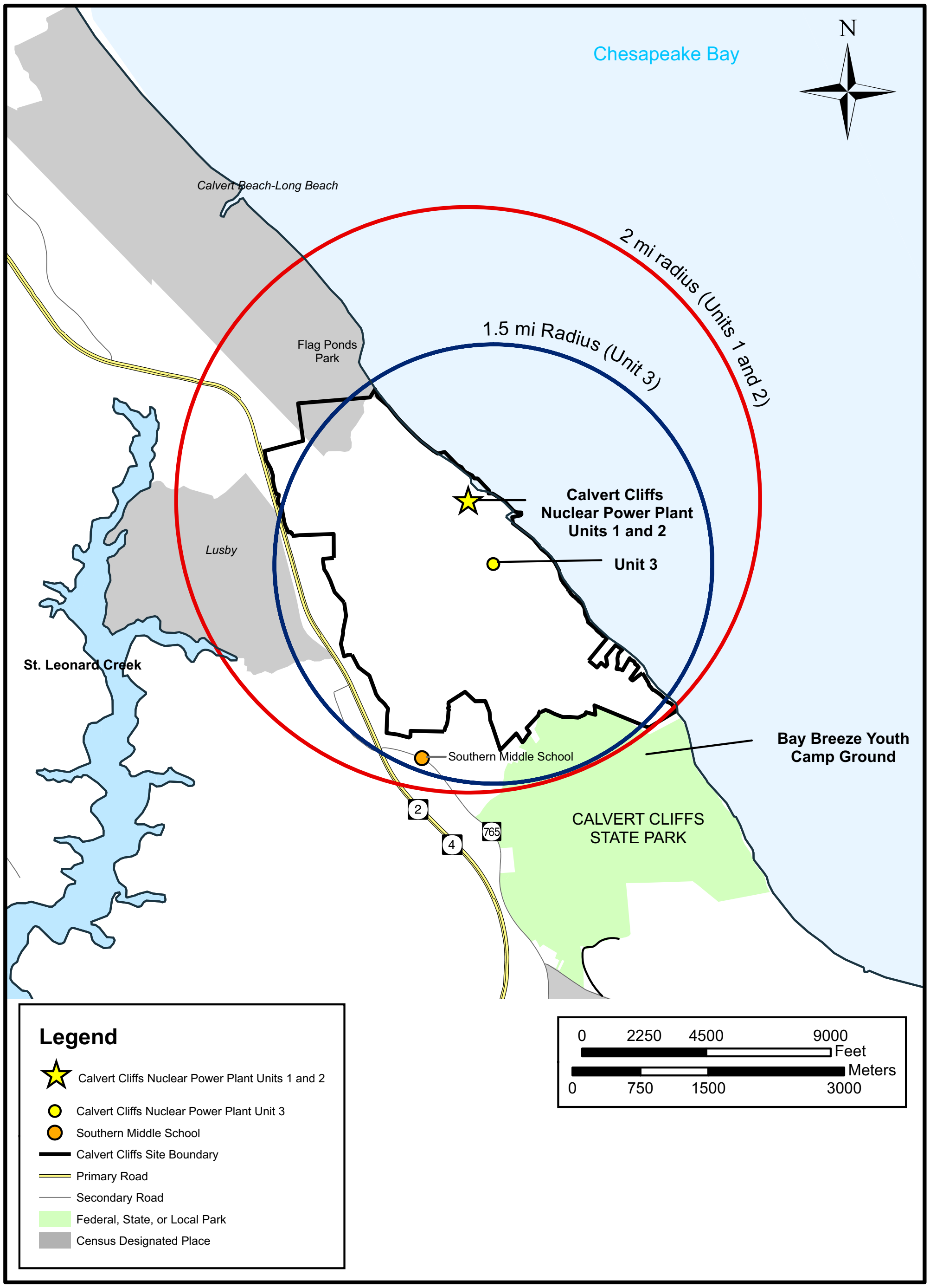
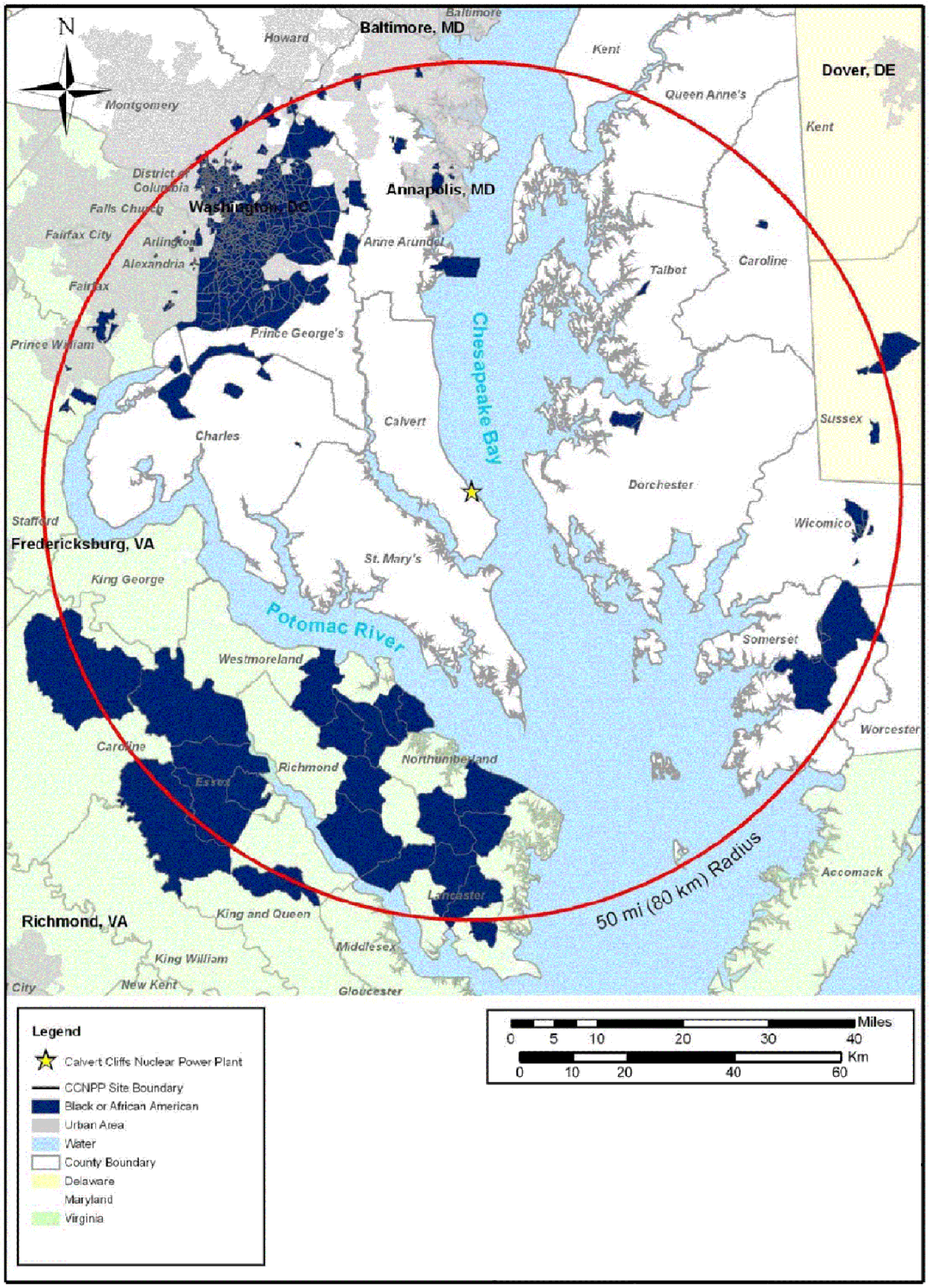


Figure 2.5-3— CCNPP Units 1, 2 and 3 Low Population Zone



References:
CCNPP, 2002

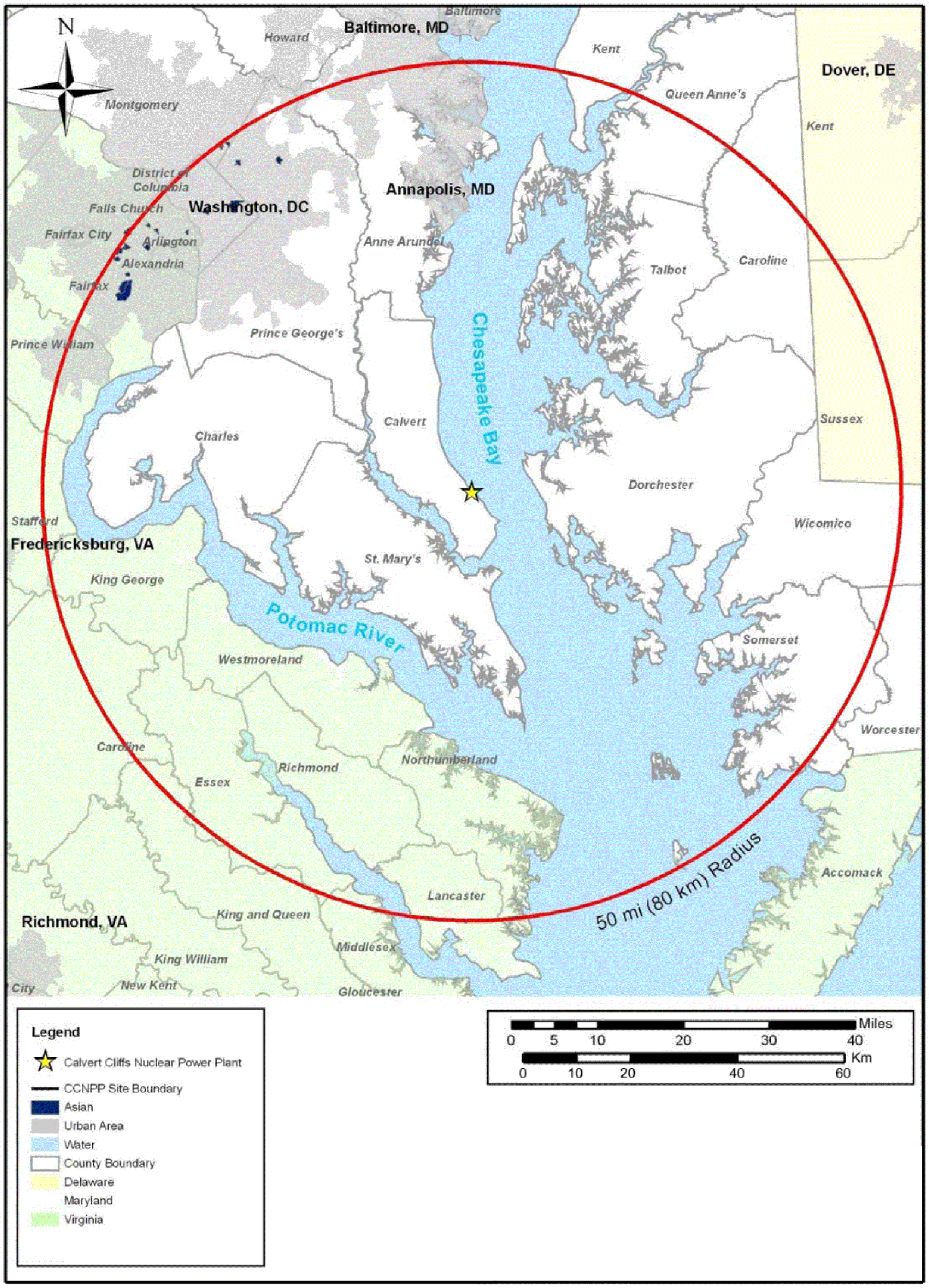
Figure 2.5-4— Black or African American Minority Population



References:

USCB, 2000a

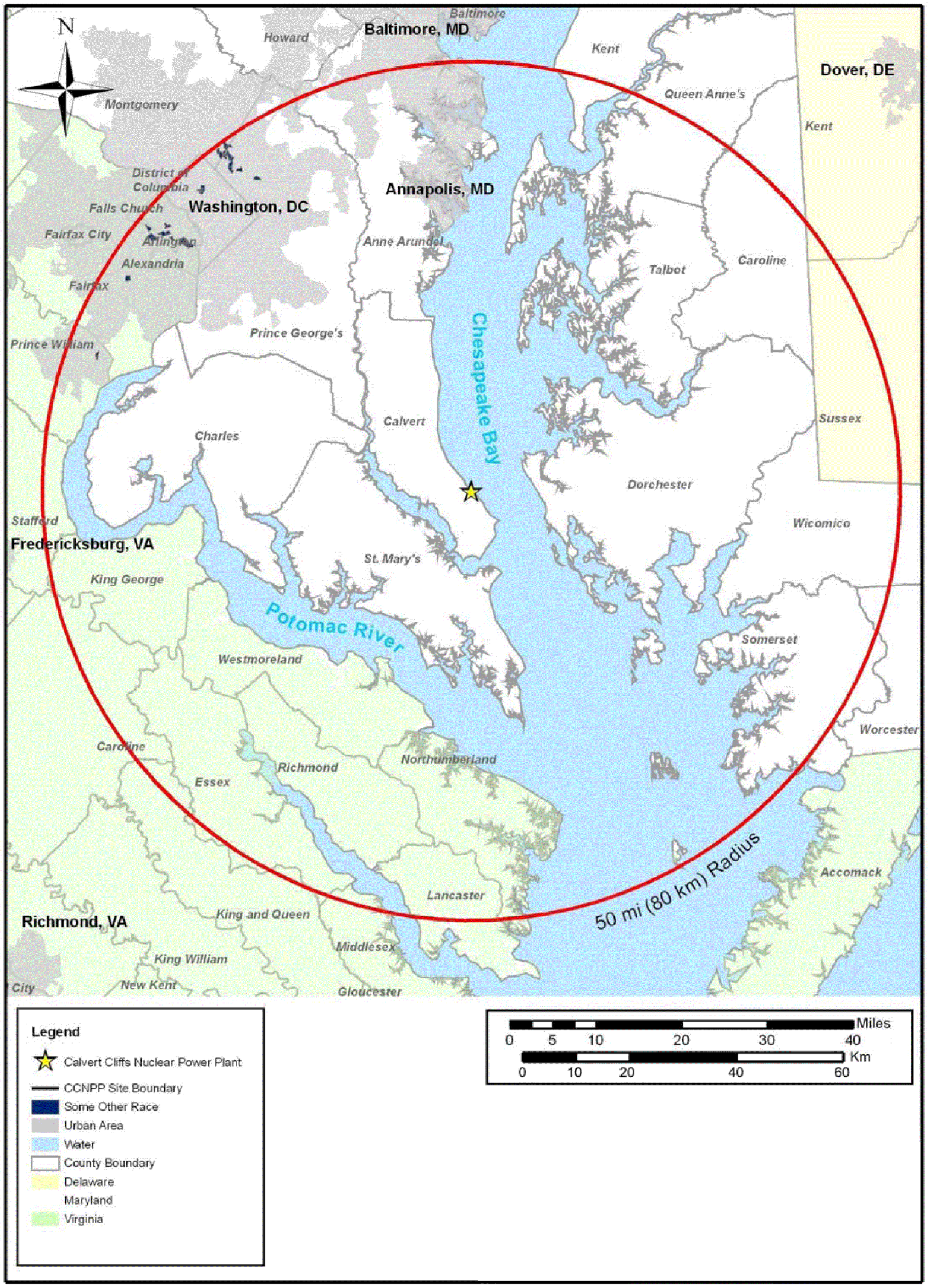
Figure 2.5-5— Asian Minority Population



References:

USCB, 2000a

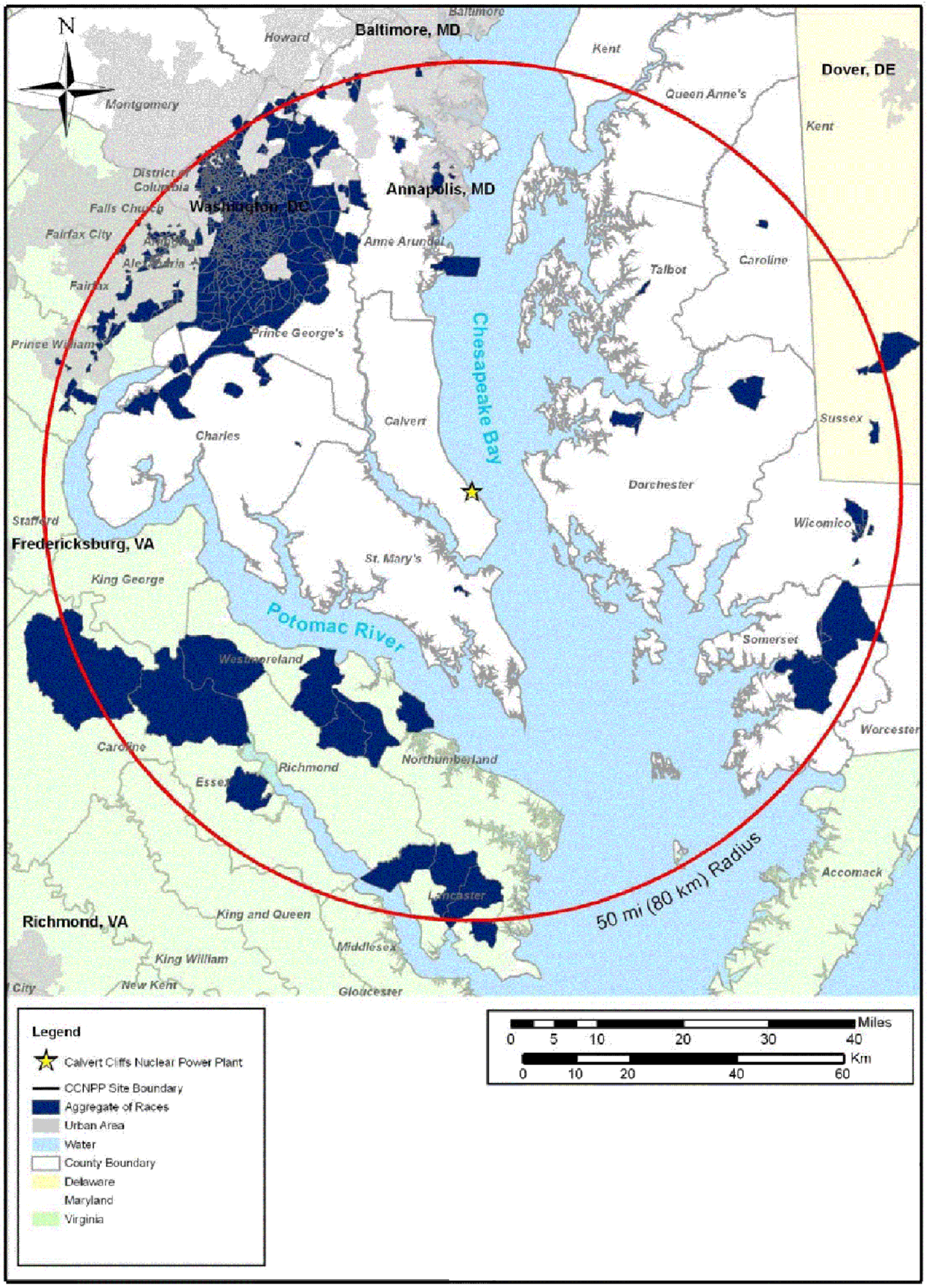
Figure 2.5-6— Some Other Minority Population



References:

USCB, 2000a

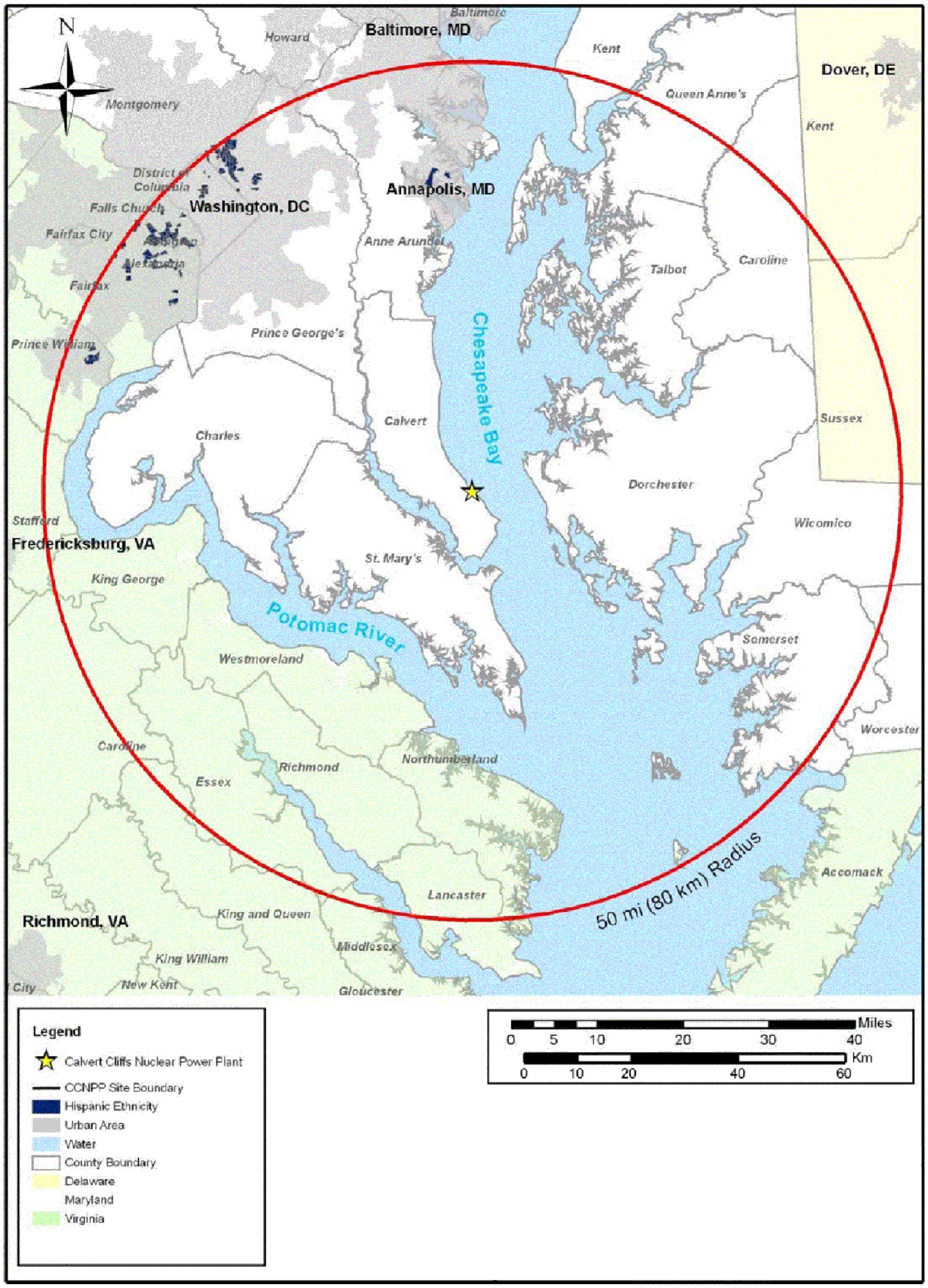
Figure 2.5-7— Aggregate Minority Population



References:

USCB, 2000a

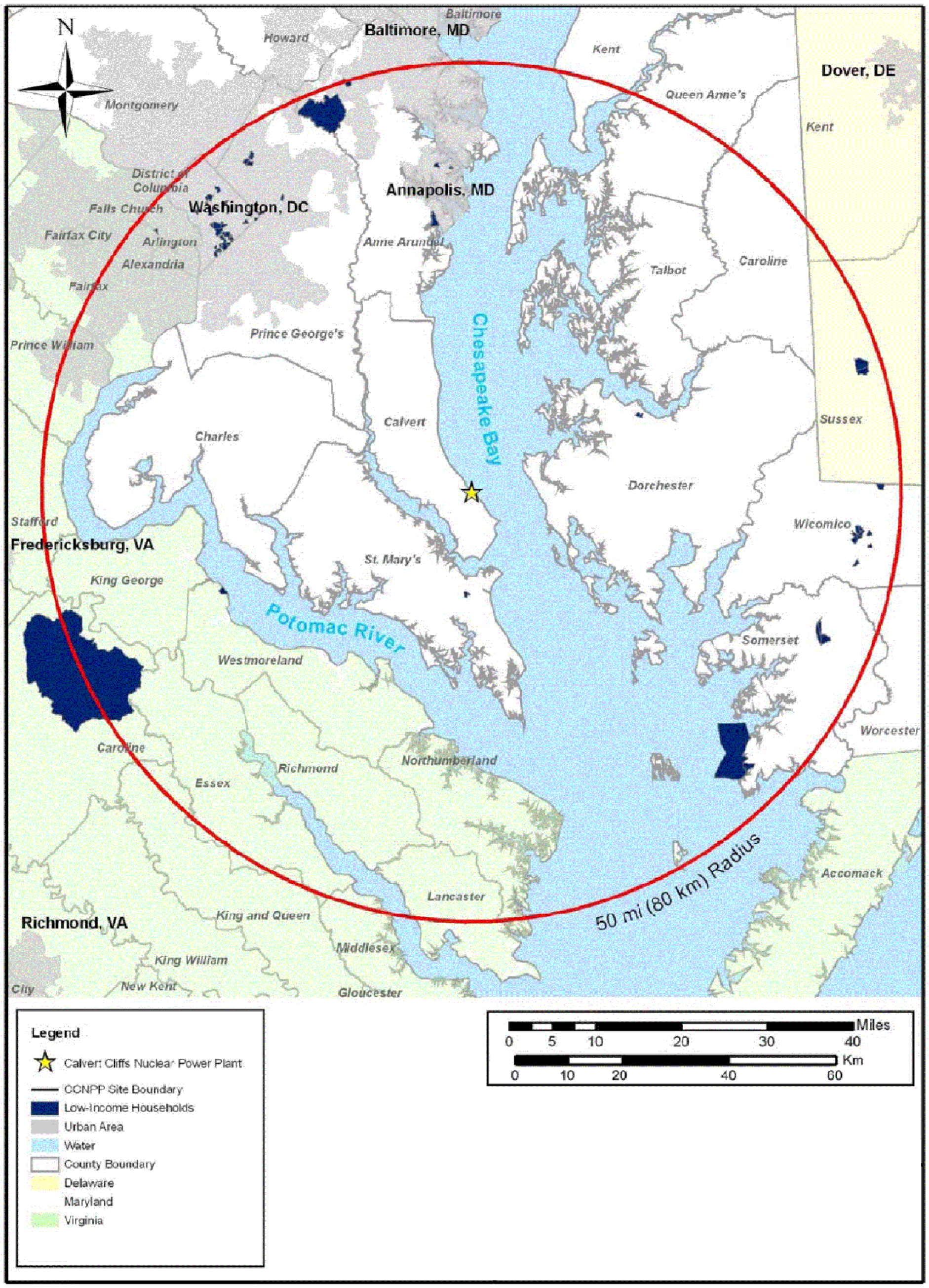
Figure 2.5-8— Hispanic Ethnicity Minority Population



References:

USCB, 2000a

Figure 2.5-9— Low Income Population



References:

USCB, 2000b

2.6 GEOLOGY

This section contains a brief description of the geologic conditions that are present at and in the vicinity of the Calvert Cliffs Nuclear Power Plant (CCNPP) site. Groundwater and surface water are discussed in Section 2.3. The CCNPP Unit 3 Final Safety Analysis Report (FSAR) presents detailed geological, seismological and geotechnical site evaluations in FSAR Section 2.5.

2.6.1 Geologic Setting

The CCNPP site is located in the Coastal Plain Physiographic Province as shown in Figure 2.6-1 (USGS, 1946). The CCNPP site and vicinity topography consists of gently rolling hills with elevations ranging from about sea level to nearly 130 ft (40 m) msl. The CCNPP site is well drained by short, ephemeral streams that form a principally dendritic drainage pattern. The longest stream nearest the CCNPP site is John's Creek, which is approximately 3.5 mi (5.6 km) long and drains into St. Leonard Creek. The ephemeral streams on the CCNPP site are either tributaries to John's Creek or flow directly to Chesapeake Bay.

The Chesapeake Bay shoreline forms the eastern boundary of the CCNPP site and generally consists of steep cliffs with narrow beaches at their base. The cliffs reach an elevation of about 100 ft (30 m) msl along the eastern portion of the CCNPP site's shoreline. Observations indicate that the exposed cliff face erodes along near vertical, irregular surfaces. The erosion is primarily caused by the undercutting action of waves along the base of the cliffs. Shoreline processes and slope failure along Chesapeake Bay are discussed in FSAR Section 2.4.9. Approximately 2,500 ft (762 m) of the shoreline east of the CCNPP site, extending from the existing CCNPP Units 1 and 2 intake southward to the existing barge jetty, is stabilized against shoreline erosion.

CCNPP Unit 3 will be constructed at a grade elevation of approximately 85 ft (26 m) msl and will be set back approximately 900 ft (274 m) from the Chesapeake Bay shoreline. The bearing layer on which structural fill will be placed to form the foundation for the plant structures is in the Chesapeake Group Choptank formation. The Chesapeake Group is considered to be a confining unit with respect to groundwater conditions (MGS, 1997).

2.6.2 Stratigraphy

The CCNPP site is located on Coastal Plain sediments ranging in age from Lower Cretaceous to Recent, which, in turn, rest on a pre-Cretaceous basement. The basement rock beneath the site likely consists of rocks similar to those found west of the CCNPP site in the Piedmont Physiographic Province (MGS, 1986). The Piedmont rocks range in age from Precambrian to Paleozoic. Figure 2.6-2 is a generalized stratigraphic column showing the geologic formations present beneath the CCNPP site and vicinity (Ward, 2004) (MGS, 1997).

The coastal plain sediments form a wedge which thickens from 0 ft (0 m) at its contact with the Piedmont Province southeastward to approximately 8,000 ft (2,438 m) along the Maryland coast. The surficial sediments (alluvium and beach deposits, terrace and lowland deposits, and upland deposits) at the CCNPP site consist of Quaternary alluvium in stream valleys and Tertiary Upland deposits consisting of sands and gravels above an elevation of 100 ft (30 m) msl as shown in Figure 2.6-3 (MGS, 2003) (SDC, 2006). Underlying the Upland deposits is the sand-clay sequence of the Chesapeake Group, consisting of the St. Mary's, Choptank and Calvert formations in descending order. The St. Mary's and Choptank formations are exposed in the cliffs along Chesapeake Bay east of the CCNPP site. They, along with the underlying Calvert formation, have a combined thickness of approximately 245 to 280 ft (75 to 85 m).

The base of the Chesapeake Group is marked by the top of the Piney Point Formation, which is about 20 ft (6 m) thick and is recognized by a distinctive, natural-gamma signature on borehole geophysical logs. The Piney Point together with the upper sandy section of the underlying Nanjemoy formation comprises the Piney Point-Nanjemoy aquifer. The Nanjemoy formation is approximately 180 ft (55 m) thick beneath the CCNPP site.

The Nanjemoy formation is underlain by the Marlboro clay; a thin (approximately 15 to 20 ft (4.6 to 6 m)), maroon clay overlying the Aquia formation, a major aquifer in the area. The Aquia formation is approximately 150 ft (46 m) thick beneath the CCNPP site

The lowermost Tertiary strata beneath the site is the Brightseat formation; a sandy, glauconitic clay approximately 10 to 20 ft (3 to 6 m) thick, and unconformably overlies the Cretaceous strata.

The Upper Cretaceous Magothy-Mattawan-Monmouth formations uncomformably underlie the Brightseat formation. These units are very thin beneath the site (possibly 30? ft (9? m)). Geologists use a question mark (?) as a standard symbol to explicitly identify uncertainty. The usage of a question mark or query, herein (in the ER) is consistent with usage by the cited documents. This usage is common for both U.S. Geologic Survey publications and Maryland Geologic Survey publications. Further to the north in Queen Anne County, the Magothy is an aquifer. Below the Magothy are the sands and clays of the Cretaceous Potomac Group. Uppermost in this group is the Patapsco formation, a sequence of gray, brown, and red variegated silts and clays interbedded with lenticular, cross-bedded clayey sands and minor gravels. A major aquifer near the Baltimore area, the Patapsco, is largely undeveloped in the vicinity of the CCNPP site. The Patapsco formation is described as being 1,000 to 1,100 ft (305 to 335 m) thick (MGS, 1997).

Underlying the Patapsco are the Lower Cretaceous Arundel/Patuxent formations (undivided). These two units are difficult to separate in the subsurface in the CCNPP site area because of the similarity of the clays in the two formations. This was described (MGS, 1984) by the upper portion of the (undivided) Arundel/Patuxent formations as variegated, silty clay with thin, very fine sand and silt interbeds that may be as thick as 150 to 200 ft (46 to 61 m) beneath the CCNPP site. The Arundel formation is not recognized in Southern Maryland (MGS, 1984). The Patuxent formation consists of a sequence of variegated sands and clays which form a major aquifer near Baltimore, but which have not been developed in the vicinity of the CCNPP site. The thickness of the Patuxent formation beneath the CCNPP site is estimated as 600 to 700 ft (183 to 213 m).

Underlying the Arundel/Patuxent formations is the basement rock. It has been indicated (MGS, 1986) that most of the borings that penetrate coastal plain sediments and extend to the underlying basement have encountered metamorphic or igneous rocks. Sparse geophysical and borehole data indicate that the basement likely consists of exotic crystalline magmatic arc material (MGS, 1986). The thickness of this unit is not known.

2.6.3 Geologic Impact Evaluation

Based on the CCNPP site and vicinity geologic conditions described in the previous subsection, long-term adverse impacts on the geology are not anticipated as a result of construction or operation of CCNPP Unit 3. For example:

- The absence of capable faults (as discussed in FSAR Sections 2.5.1.2 and 2.5.3) at the CCNPP site eliminates the possibility for a surface fault rupture as a result of construction or operation of the proposed facility.

- Surface settlement (as a result of facility construction) could affect the drainage of surface water. However, should such settlement occur it will likely take place during construction and can be mitigated by re-grading the CCNPP Unit 3 area.

- The geologic units are not subjected to dissolution and permanent dewatering is not needed.

- There are no natural slopes in proximity to the proposed facility that could be adversely impacted by: foundation excavation, loading resulting from construction of the proposed structures, or infiltration of precipitation as a result of surface modifications.

- Any potentially negative impacts that could result from the placement of fill in the proposed plant area will be mitigated by the earthwork design.

- Some short-term geologic impacts could occur during construction. These impacts could be a result of excavation, or temporary dewatering.

- Disposal of excavated material will likely be required either onsite or offsite. Generally accepted methods will be used to mitigate the potential for erosion of this material at the disposal site. Such methods may include the use of silt fences, seeding, and drainage control. Excavated soil surfaces exposed during construction will be protected to mitigate their erosion and control surface runoff.

- Temporary dewatering of foundation excavations could result in an impact on water levels in the water table aquifer. However, these impacts are not expected to be significant.

2.6.4 References

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Figure 2.6-1— Map of Regional Physiographic Provinces

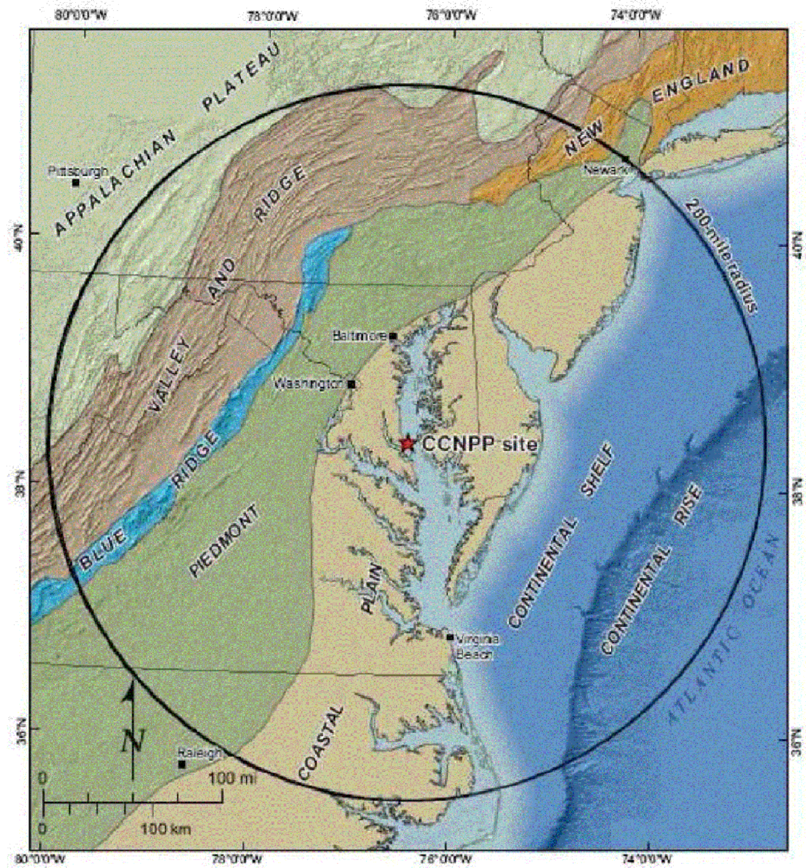
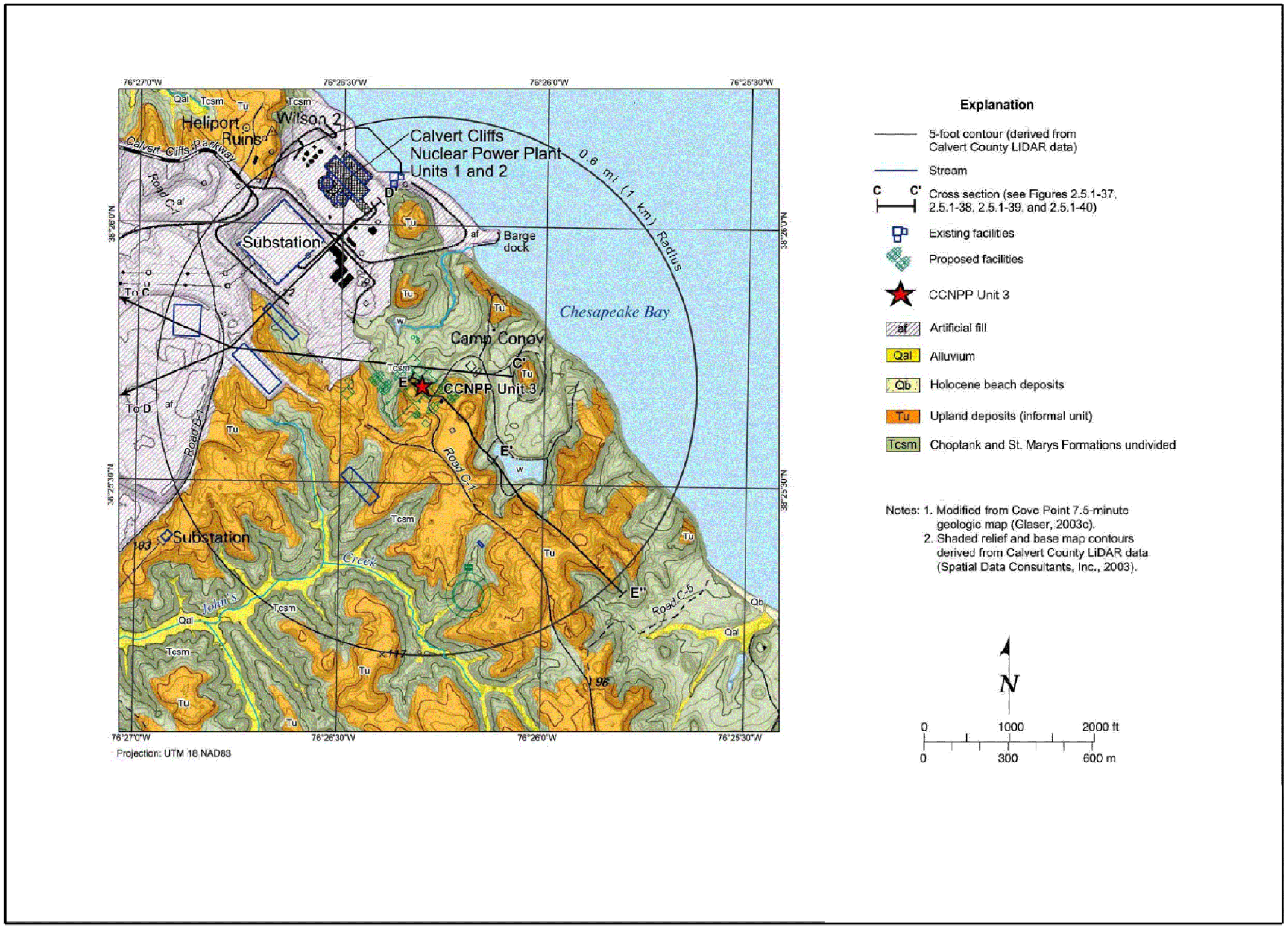


Figure 2.6-2— CCNPP Site-Specific Stratigraphic Column

ERA	PERIOD	EPOCH		AGE (Ma)	UNIT	THICKNESS (FT)
Cenozoic	Quarter-nary	Holocene		0.01	Alluvium & Beach Deposits	0-50
		Pleistocene		1.8	Terrace & Lowland Deposits	
	Tertiary	Pliocene		5.3	Upland Deposits	0-50
		Miocene	Upper	11.2		
			Middle	16.4	**Chesapeake Group** St. Marys Formation Choptank Formation Calvert Formation	245-280
		Eocene	Middle	49	Piney Point Formation	20
			Lower	54.8	Nanjemoy Formation	180
		Paleocene	Upper	61	Marlboro Clay Aquia Formation	165-170
			Lower	65	Brightseat Formation	10-20
Mesozoic	Cretaceous	Upper		99	Magothy, Monmouth, Matawan Formations undifferentiated	30?
		Lower		144	Potomac Group Patapsco Formation Arundel/Patuxent Formations (undivided)	1000-1100 750-900
Proterozoic/ Paleozoic				543+	Metamorphic/Igneous	Not Known

Figure 2.6-3— CCNPP Site 0.6 MI (1KM) Geologic Map



2.7 METEOROLOGY AND AIR QUALITY

2.7.1 General Climate

The Calvert Cliffs Nuclear Power Plant (CCNPP) site is located in Calvert County. Calvert County is in that portion of Maryland commonly referred to as Southern Maryland, and is located on the Coastal Plain (USEPA, 2006a). The CCNPP site is located in Maryland state climate division MD-03, Lower Southern (as designated by the U.S. National Climatic Data Center). The weather data used to create this narrative is from the period 1971-2000 (USDC, 2007a).

Seasons are well defined. Winter is the dormant season for plant growth due to low temperatures rather than drought. Spring and fall are characterized by a rapid succession of warm and cold fronts associated with storm systems that generally move from a westerly direction. Summers are warm to hot. The higher humidity along the Atlantic coast causes the summer heat to feel more oppressive and the winter cold to feel more penetrating than for drier climates.

At times, the Appalachian Mountains provide some protection from arctic air outbreaks in the winter. The mountain barrier may cause warming of the air descending the eastern slopes by as much as 10°F (6°C). In situations when high pressure is located over New England and a low pressure system is over the Ohio Valley, cold low-level winds may travel southwestward and be held east of the mountains.

2.7.1.1 Winds

The prevailing winds at the surface are determined by the frequency and intensity of anticyclones and cyclones that persist or move over the area. The majority of anticyclonic circulation over the northern portion of North America in winter brings a high percentage of cold northwesterly winds to Maryland. Therefore, the prevailing winds are from the northwesterly quadrant from October through June. In the summer, this pattern changes as the semi-permanent Atlantic High moves northwestward and dominates the circulation of air over the eastern U.S. A flow of warm, moist air spreads over the area with winds from the southwesterly quadrant most of the time. During the summer, the northern portion of North America is dominated by low pressure and the mean storm track is displaced north of Maryland.

Surface mean wind speeds range from 9 to 10 mph (4 to 5 mps) in summer to 10 to 12 mph (5 to 5.4 mps) in winter and early spring. The highest mean wind speeds are associated with the frequent passages of well-developed cyclones and anticyclones in the early spring.

2.7.1.2 Storm Tracks

Almost all migrating cyclones and anticyclones cross the U.S. from west to east. The greater numbers of cyclones travel in a northeastward direction in a path about 300 to 500 mi (483 to 805 km) north of Maryland. Storms that originate in the Gulf of Mexico, the southeastern U.S. or adjacent Atlantic coastal regions, frequently move northeastward or northward along the Atlantic Coast and can bring violent, destructive weather to the Maryland region. As these storms, commonly referred to as Northeasters, approach from the south, strong easterly to northeasterly winds bring widespread rains and cause higher than normal tides along the Atlantic Coast and on the west side of the Chesapeake Bay. Tropical cyclones or hurricanes that develop in the West Indies, the Caribbean, or the Gulf of Mexico sometimes move into, but rarely pass entirely over the State of Maryland. These systems also cause cloudy weather, heavy rains, and high tides.

2.7.1.3 Temperatures

Mean annual temperatures range from 48°F (9°C) in Northern Maryland to 58°F (14°C) in the lower Chesapeake Bay area. The winter climate on the Coastal Plain of Maryland is intermediate between the cold of the northeast and the mild weather of the South. The average frost penetration is about 5 in (12.7 cm) in extreme Southern Maryland; in extremely cold winters, maximum frost penetration may be double the average depth. Summer is characterized by considerable warm weather with at least several hot, humid periods. Nights are usually comfortable.

On the average, temperatures of 90°F (32°C) or higher occur 15 to 25 days per year along the shores of the Chesapeake Bay. The average number of days per year with minimum temperature of 32°F (0°C) or lower is about 80 along the shores of the southern Chesapeake Bay area. Average relative humidity is lower in the winter and early spring, from February through April, and highest in the late summer and early fall, from August to October.

2.7.1.4 Precipitation

Annual average precipitation is about 40 to 46 in (102 to 117 cm). Distribution is uniform throughout the year. Although the heaviest precipitation occurs in the summer, this is the season when severe droughts are most frequent. Summer precipitation is less dependable and more variable than in winter. Annual precipitation deficits of over 16 in (40 cm) occurred during extreme droughts of the 1930s, 1960s, and in the period from 1998-2002. Annual average snowfall along the coast ranges from 8 to 10 in (20 to 25 cm). Annual snowfall totals vary considerably from one year to another.

The most favorable situation for rain is when there is a well-developed high pressure system over New England or the St. Lawrence Valley and a well-developed low pressure system over Georgia, Tennessee or the Ohio Valley. The reverse of this situation usually produces clear, dry weather.

2.7.2 Regional Air Quality

2.7.2.1 Background

The Clean Air Act (USEPA, 1990), which was last amended in 1990, requires the U.S. Environmental Protection Agency (EPA) to set National Ambient Air Quality Standards (CFR, 2007d) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards.

- Primary standards set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly.
- Secondary standards set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. Units of measure for the standards are parts per million (ppm), milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air (μg/m^3). Areas are either in attainment of the air quality standards or in non-attainment. Attainment means that the air quality is better than the standard.

2.7.2.2 Calvert County

Based on U.S. EPA data, Calvert County, Maryland, is in attainment for all the National Ambient Air Quality Standards (NAAQS) except for the eight hour ozone standard (USEPA, 2006a) as of December 5, 2006. The eight hour ozone standard is 0.08 ppm and attainment is determined by whether the 3 year average of the fourth highest daily maximum 8 hour average ozone concentrations measured at each monitor within an area over each year exceeds the standard. From Figure 2.7-1, it can be seen that the fourth highest 8 hour average ozone concentration for Calvert County during 2006 is greater than 0.08 ppm and less than or equal to 1.0 ppm. Non-attainment of the eight hour ozone standard is due to Calvert County's proximity to Washington, D.C. A non-attainment designation requires a plan to be sent to the U.S. EPA describing how the area will implement air quality improvements. Note that the Maryland Department of the Environment reported that ground-level ozone levels have continued to show significant improvements since the early 1990s (MDE, 2007).

Calvert County is part of the Southern Maryland Intrastate Air Quality Control Region (AQCR), as designated in 40 CFR 81.156 (CFR, 2007a). The attainment status of the Southern Maryland Intrastate AQCR with regard to national ambient air quality standards is listed as being better than national standards for total suspended particulates, sulfur dioxide, and nitrogen dioxide, and unclassifiable/attainment for carbon monoxide, PM-2.5 (particulate matter with diameter less than 2.5 microns), and for the 8 hour ozone standard (CFR, 2007b).

2.7.3 Severe Weather Phenomena

2.7.3.1 Tornadoes

Tornadoes occur infrequently in Maryland compared with areas such as the Great Plains. Of the ones that do occur, most are small and result in nominal losses. However, two strong tornadoes hit Central and Southern Maryland within an eight month period in 2001-2002. About 25% of the tornadoes occur in Southern Maryland. Approximately 70% of the tornadoes occur between 2:00 PM and 9:00 PM with most occurring from 3:00 PM to 6:00 PM. As can be seen in Figure 2.7-2 and Figure 2.7-3, the annual average number of tornadoes and strong-violent tornadoes (F2-F5) are four and one, respectively (USDC, 2000).

In the period from January 1, 1950, through December 31, 2006, 12 tornados were reported in Calvert County (USDC, 2007b). This corresponds to an annual average of 0.2 tornados per year. The magnitude of the tornados ranged from F0 to F2, as designated by the National Weather Service. An F0 tornado has estimated wind speeds less than 73 mph (33 mps). An F1 tornado has estimated wind speeds between 73 and 112 mph (33 and 50 mps). An F2 tornado has estimated wind speeds between 113 and 157 mph (50 and 70 mps). In Calvert County, the 12 tornadoes had paths with widths estimated to range from 51 to 600 ft (16 to 183 m).

Figure 2.7-4 shows the date of maximum tornado threat for locations meeting the minimum data requirements of the study (the gray shaded areas). This figure is from a study reported in the Weather and Forecasting journal of the American Meteorological Society (AMS, 2003), in which an estimate was made of the probability of an occurrence of a tornado day near any location in the contiguous U.S. for any time during the year. The study applied Gaussian smoothers in space and time to the observed tornado days from 1980 to 1999 to produce daily maps and annual cycles at any point on a 50 mi by 50 mi (80 km by 80 km) grid. Areas with a white background signify that there was not enough information to predict the maximum tornado threat date, not that a tornado would not or could not occur. Late July is indicated as the date of maximum tornado threat for the part of Maryland that includes the CCNPP site (AMS, 2003).

NUREG/CR-4461, Revision 2, Table 5-1 (NRC, 2007a) presents tornado strike probabilities for the contiguous United States and for the West, Central, and East regions of the country. The listed tornado strike probability for the East region, in which CCNPP Unit 3 is located, is 2.58 X 10^{-5}. This value takes into account finite building dimensions and the variation of tornado intensity along and across the tornado path (see Section 4.0 of NRC, 2007a).

2.7.3.2 Hurricanes and Tropical Storms

Hurricanes sometimes move into but rarely pass entirely over the CCNPP site. National Hurricane Center statistics list only two direct hits on Maryland during the period from 1851 to 2004; neither of these was a major (greater than Category 2) hurricane (NOAA, 2005). Note that the Saffir-Simpson Hurricane Scale ranks hurricanes on a scale of 1-5 based on the intensity of the storm (NOAA, 2007a). In the eastern U.S., hurricane season begins June 1st and ends November 30th.

Table 2.7-1 shows the total and average number of tropical storms and hurricanes, by month, in the U.S., for the period 1851-2004 (NOAA, 2005). Note that most tropical storms and hurricanes occur in September.

The National Oceanic and Atmospheric Administration (NOAA) Coastal Services Center reports that there were 6 hurricanes, 38 tropical storms, 11 tropical depressions, one subtropical depression, and 16 extratropical storms that passed within 100 statute miles (161 km) of Calvert County, Maryland, during the period from 1851 through 2008. Of the 6 hurricane events, four were Category 1 hurricanes, one was a Category 2 hurricane, and one was a Category 3 hurricane (NOAA, 2009a). The hurricanes occurred in the months of August, September, and October. The tropical storms occurred in the months of May, July, August, September, and October.

Historical tropical cyclone-related extreme rainfall events that have occurred within the site area over a period of record from 1851 through 2008 were identified using information from (NOAA, 2009a), (NOAA, 2009b), (SERCC, 2009). These events are presented in Table 2.7-119.

The maximum tropical cyclone-related extreme rainfall event was 10.3 in (261.6 mm) at the Cambridge Water Treatment Plant, MD, in September 1935 from an unnamed storm. The second-highest event was 9.8 in (248.9 mm) at La Plata, MD, in August 1971 from Doria. The third-highest event was 8.6 in (218.4 mm) at Blackwater Refuge, MD, in August 1995 from Connie.

2.7.3.3 Thunderstorms

Thunderstorms are reported at any given station in the vicinity of Calvert County on an average of 30 to 40 days per year based on information from the National Climatic Data Center. They occur in all months of the year, but the majority occur in May through August (75% to 80%). They occur less than once per month from November to February. Thunderstorms are most likely to occur during the afternoon and evening hours.

Table 2.7-2 presents the monthly mean number of days on which thunderstorms occurred in the region during the period from 1971 through 2002 using local climatology data from Baltimore, Maryland (USDC, 2002a), Norfolk, Virginia (USDC, 2002b), Richmond, Virginia (USDC, 2002c) and regional precipitation data (USDC, 2002d).

2.7.3.4 Lightning

A methodology was presented (Marshall, 1973) for estimating lightning strike frequencies that includes consideration of the attractive area of structures. The method consists of determining the number of lightning flashes to earth per year per square kilometer and then defining an area over which the structure can be expected to attract a lightning strike. There are four flashes to earth per year per square kilometer in the vicinity of the CCNPP site (conservatively estimated using Figure 2.7-5 (NOAA, 2007c)). The total attractive area, A, of a structure with length L, width W, and height H, for lightning flashes with a current magnitude of 50% of all lightning flashes is defined (Marshall, 1973) as:

$$A = LW + 4H (L + W) + 12.57 H^2$$

The following building dimensions were used to conservatively estimate the attractive area of CCNPP Unit 3 (these values are much larger than the dimensions for the tallest building which measure approximately 58 m x 58 m x 60 m; they are also larger than the approximate dimensions of the combined containment, the four safeguards buildings, the access building, the fuel building, and the nuclear auxiliary building):

L = 215 m, W = 140 m, H = 40 m

The total attractive area is therefore equal to 0.11 square kilometers.

Consequently, the lightning strike frequency computed using Marshall's methodology for CCNPP Unit 3 is 0.44 flashes per year.

2.7.3.5 Droughts

Droughts in Calvert County occur most frequently during the summer season based on data from the National Climatic Data Center. Annual precipitation deficits of over 16 in (40 cm) occurred during extreme droughts of the 1930s, 1960s, and in the period of 1998-2002.

2.7.3.6 High Winds

Table 2.7-3 presents occurrences of winds greater than 50 knots (58 mph (26 mps)) by storm type for Calvert County. These data were retrieved from the National Climatic Data Center (USDC, 2007b). During the period from June 2, 1980, through December 31, 2006, there were 17 recorded occurrences of wind speed ranging from 50 to 90 knots (58 to 104 mph (26 to 46 mps)). The highest wind speed was recorded on April 21, 2000.

2.7.3.7 Hail

Table 2.7-4 presents 20 hail events reported in Calvert County between October 9, 1962, and December 31, 2006. These data were retrieved from the National Climatic Data Center (USDC, 2007b). Hail stone diameters ranged from 0.75 to 2 in (1.9 to 5.1 cm). The largest hail stone diameter was recorded on July 15, 1996.

2.7.3.8 Ice Storms

Table 2.7-5 presents ice storm events which occurred within surrounding counties of the site between January 1959, and January 27, 2009. These data were retrieved from the National Climatic Data Center (NOAA, 2009e) (NOAA, 2009f). Ice thickness observed within approximately 50 mi (80 km) of the site ranged from less than 0.1 to 1.0 in (less than 2.5 to 25.4 mm). The largest value occurred on January 14, 1999, January 30, 2000, and December 11, 2002.

2.7.3.9 Snow Storms

Table 2.7-117 presents snow storm events which occurred within surrounding counties of the site between February 12, 1993, and March 1, 2009. These data were retrieved from the National Climatic Data Center (NOAA, 2009c). Snow amounts observed within approximately 50 mi (80 km) of the site ranged from less than 1.0 to 25.0 in (less than 25.4 to 635.0 mm).

Using an expanded period of record and additional data sources ((NOAA, 2009b), (NOAA, 2009c), (SERCC, 2009)), the record 1-day snowfall events within approximately 50 mi (80 km) of the site were determined. The data was corroborated when confirmatory data from the other two sources existed. The record 1-day snowfall events are presented in Table 2.7-118. The highest 1-day snowfall event was measured on February 19, 1979, at Owings Ferry Landing, Maryland, with a snowfall of 26.0 in (660.4 mm) and a period of record from 1917 through 1998.

2.7.4 Local Meteorology

The CCNPP site meteorological data was used in this analysis. These data are from the onsite meteorological monitoring program which was designed, and has been operated, according to Regulatory Guide 1.23, Revision 0 (NRC, 1972). The data recovery goal of 90% was met for each of the six years of data (2000 through 2005).

An analysis of the differences between Regulatory Guide 1.23, Revision 0, and Regulatory Guide 1.23, Revision 1 (NRC, 2007), was made and it was concluded that the guidance provided in the two versions of the document are so similar that there is no adverse impact from using the onsite meteorological data monitored for CCNPP Units 1 and 2 in analyses for CCNPP Unit 3.

The CCNPP site and Patuxent River Naval Air Station are located in climate division MD-03, Lower Southern, as designated by the U.S. National Climatic Data Center. A climate division represents a region within a state that is as climatically homogeneous as possible. Since both sites are in the same climate division, both are located on the shoreline of Chesapeake Bay, and the sites are located within 11 miles of each other, it is deemed acceptable to use meteorological statistics from Patuxent River Naval Air Station to represent the CCNPP site.

2.7.4.1 Temperature and Relative Humidity

Daily average and extremes of temperature from the CCNPP on-site meteorological monitoring program are presented in Table 2.7-120 for the period from January 2000 through December 2005. Monthly and annual temperature summaries from the CCNPP onsite meteorological monitoring program are presented in Tables 2.7-6 through Table 2.7-13 for the period from January 2000 through December 2005. Table 2.7-121 presents monthly and annual mean temperature summaries from the CCNPP on-site meteorological monitoring program for the period from January 1987 through December 2006.

The monthly mean extreme maximum temperature is defined as the highest of the monthly average values for each month over the data period. The monthly mean extreme minimum temperature is defined as the lowest of the monthly average values for each month over the data period. These values are determined by calculating the monthly average temperature for each month of each year and then identifying the maximum and minimum monthly average temperature value for each month over the data period.

The monthly mean temperature at the CCNPP site ranges from 34.3°F (1.3°C) in January to 75.1°F (23.9°C) in July. The monthly mean extreme maximum temperature was 78.3°F (25.7°C)

in July and the monthly mean extreme minimum temperature was 29.5°F (-1.4°C) in January. The monthly mean daily maximum temperature was 81.8°F (27.7°C) in July and the monthly mean daily minimum temperature was 28.5°F (-1.9°C) in January. The maximum hourly temperature was 96.3°F (35.7°C) in July and the minimum hourly temperature was 8.5°F (-13.1°C) in December. The frequency of occurrence of hourly temperature values falling below the freezing point (32°F or 0°C) is less than 10%.

Temperature and humidity statistics from sites around the CCNPP site are presented in Table 2.7-14 through Table 2.7-26. (ASHRAE, 2005) (USDC, 2002a) (USDC, 2002b) (USDC, 2002c) (USDC, 2002d). Dry bulb temperature values are from the 30 year period from 1971-2000. Wet bulb temperature values are from the 18 year period from 1983-2000. Note that the monthly mean temperatures measured at the CCNPP site show good correspondence with the values presented in these tables, for example, almost all of the mean monthly temperatures measured at the CCNPP site fall within the range of values reported by the surrounding stations.

A comparison of the monthly average temperature values at CCNPP (Table 2.7-121) and the Patuxent River Naval Air Station (Table 2.7-14) was performed since Patuxent River NAS and CCNPP are located within 11 miles of each other and are both located in climate division MD-03, Lower Southern, as designated by the U.S. National Climatic Data Center. The comparison of the monthly average temperature values at CCNPP and the Patuxent River Naval Air Station was performed by determining the percent difference between the corresponding monthly values. The percent difference was defined as the absolute value of the difference between the monthly values times 100 and divided by the average of the monthly values. The comparison showed that the percent differences between the monthly average temperatures are within 3% of each other for all months, within 1.74% on average, and range from 0.26% to 2.65%. This shows good agreement between the two sites.

Table 2.7-24 through Table 2.7-26 present the monthly design wet bulb temperature and the mean coincident dry bulb temperature for locations in the vicinity of CCNPP. These wet bulb temperature values correspond to 0.4%, 1.0%, and 2.0% cumulative frequency of occurrence for the indicated month (ASHRAE, 2005) and were determined by the American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE). Data for the Patuxent River Naval Air Station, Maryland, are from the period 1982-2001. Data from Salisbury Wicomico County Airport, Maryland, are from the period 1982-2001. Data from Baltimore, Maryland, are from 1972-2001.

2.7.4.2 Precipitation and Fog

The monthly and annual precipitation summary from the CCNPP onsite meteorological monitoring program is presented in Table 2.7-27 through Table 2.7-30 for the period from 2000-2005. Table 2.7-122 presents the monthly and annual precipitation summary from the CCNPP meteorological monitoring program for the period from January 1992 through December 2006. Precipitation statistics from NWS sites around CCNPP are presented in Table 2.7-31 through Table 2.7-33 for the period from 1971-2000.

Monthly and annual summaries of heavy fog (visibility less than 0.25 mi (0.2 km)) are presented in Table 2.7-31 for sites around the CCNPP site for the period from 1971 to 2000 (USDC, 2002a) (USDC, 2002b) (USDC, 2002c). The fog observations were made at the National Weather Service (NWS) stations at Baltimore, MD, Norfolk, VA, and Richmond, VA. The average number of days per year with heavy fog in Baltimore, MD, Norfolk, VA, and Richmond, VA are 24.4, 19.7, and 27.1, respectively.

Monthly average precipitation at the CCNPP site ranges from 1.53 in (3.89 cm) in February to 4.53 in (11.51 cm) in July. Monthly percent frequency of occurrence of precipitation at the CCNPP site ranges from 4.26% in September to 7.87% in April. The rainfall rate distribution presented in Table 2.7-26 indicates that heavy rainfalls occur infrequently at the CCNPP site. The maximum monthly precipitation measured at the CCNPP site corresponds well with the values from the NWS sites around the plant. The minimum monthly precipitation measured at the CCNPP site, however, does not correspond well with the values from the NWS sites around the plant; this may be due to the difference in the period of records (6 years for the CCNPP site versus 30 years for the NWS sites).

A comparison of the monthly average precipitation values at CCNPP and the Patuxent River Naval Air Station was performed since Patuxent River NAS and CCNPP are located within 11miles of each other and are both located in climate division MD-03, Lower Southern, as designated by the U.S. National Climatic Data Center. The comparison of the monthly average precipitation values at CCNPP (Table 2.7-122) and the Patuxent River Naval Air Station (Table 2.7-31) was performed by determining the percent difference between the corresponding monthly values. The percent difference was defined as the absolute value of the difference between the monthly values times 100 and divided by the average of the monthly values. The comparison showed that the percent differences between the monthly average temperatures are within 33% on average, and range from 8.73% to 68.91%. This shows poor agreement between the two sites. This may be due to the localized nature of convective precipitation events which are characterized by limited areal distribution, the suddenness with which they start and stop, and by rapid changes in intensity. Another potential factor to consider, in light of the fact that the CCNPP monthly average values are all lower than the Patuxent River Naval Air Station values, is that CCNPP does not employ a wind screen. Wind screens are used in open, exposed areas, which are subject to strong gusty winds to minimize the wind-caused loss of precipitation falling into the rain gauge.

Monthly precipitation wind roses at the CCNPP site for the 33 ft (10 m) and 197 ft (60 m) elevations are presented in Figures 2.7-6 through 2.7-29. These precipitation wind roses portray joint frequency distributions of wind speed and direction as a function of atmospheric stability for only the hours in which precipitation was recorded. Each of these monthly precipitation wind roses establishes that the most frequent wind direction has either a northerly or easterly component.

2.7.4.3 Monthly Mixing Height Data and Inversion Summary

Monthly average mixing height values for the period 1996-2005 were calculated from the daily average values for each month of each year based on twice daily mixing height data from the National Climatic Data Center (NCDC, 2009). These data were taken from the upper air and surface NWS stations closest to the CCNPP site (i.e., Wallops Island and Patuxent River, respectively). Overall monthly average mixing height values were calculated from the individual monthly average values; for example, the January overall monthly average mixing height value of 1978 ft (603 m) is the average of all of the individual January mixing height values. On average, the number of valid days of data per month (for months with data) ranged from 23 to 30 (that is, days that had both a morning and afternoon mixing height value). There were some months with no valid data. Data were unavailable for 17 out of 120 months with the majority of these months (15 of 17) being in 1996 and 1997. Since there are six years with 12 months of valid data and two years with 11 months of valid data, the missing data do not adversely impact the determination of the monthly and annual average mixing height values.

Figure 2.7-30 presents the monthly average mixing height values. Table 2.7-35 present the monthly average mixing height values in tabular form for meters and ft, respectively. As shown, the monthly average mixing heights ranged from 1,880 ft (573 m) in December to 2,959 ft (902 m) in July. The annual average mixing height was 2,454 ft (748 m).

Frequency and persistence of temperature inversion conditions at the CCNPP site are presented in Table 2.7-36 through Table 2.7-41. These tables were developed using six years of onsite meteorological data (2000-2005). The maximum temperature inversion duration was 31 hours. Approximately two-thirds of the inversions lasted less than nine hours.

2.7.4.4 Wind Speed and Direction

Table 2.7-123 and Table 2.7-124 present annual joint frequency distributions (JFD's) of wind speed and direction as a function of atmospheric stability derived from the 2000-2006 data from the CCNPP on-site meteorological monitoring program. This set of JFD tables included the latest year of meteorological data available at the time. The hourly data used to calculate these tables were used to determine the atmospheric dispersion and deposition factors presented in this section and in FSAR Sections 2.3.4 and 2.3.5.

Table 2.7-42 through Table 2.7-67 present annual and monthly joint frequency distributions of wind speed and direction as a function of atmospheric stability derived from the CCNPP onsite meteorological monitoring program. These tables were developed using six years of onsite meteorological data (2000-2005) following the guidance in Regulatory Guide 1.23, Revision 0 (NRC, 1972). An analysis of the differences between Regulatory Guide 1.23, Revision 0, and Regulatory Guide 1.23, Revision 1 (NRC, 2007), was made and it was concluded that the guidance provided in the two versions of the document are so similar that there is no adverse impact from using the onsite meteorological data monitored for CCNPP Units 1 and 2 in analyses for CCNPP Unit 3.

The annual prevailing wind direction (the direction from which the wind blows most often) at the CCNPP site at the 33 ft (10 m) level is from the southwest, approximately 14% of the time. Winds from the southwest through west sectors occur approximately 26% of the time. Conversely, winds from the northeast through east sectors occur approximately 14% of the time. The annual prevailing wind direction at the 197 ft (60 m) level is from the southwest, approximately 10% of the time. Winds from the southwest through west sectors occur approximately 20% of the time. Conversely, winds from the northeast through east sectors occur approximately 13% of the time. As is normally the case, there are more observations of calm winds at the lower level than at the upper level (0.33% versus 0.03%). At both the 33 ft (10 m) and 197 ft (60 m) levels, winds occur most infrequently from the east-southeast.

During the winter months (December through February), the prevailing wind direction at both levels is from the northwest, approximately 13% of the time at both levels. Winds from the southwest are the next most dominant, occurring approximately 11% of the time at the 33 ft (10 m) level and approximately 9% of the time at the 197 ft (60 m) level. During the spring months (March through May), the prevailing wind direction at both levels is from the southwest, approximately 12% of the time at the lower level and 11% of the time at the upper level.

During the summer months (June through August), the prevailing wind direction at both levels is from the southwest, approximately 18% of the time at the lower level and 14% of the time at the upper level. During the autumn months (September through November), the prevailing wind direction at the 33 ft (10 m) level is from the southwest, approximately 12% of

the time. At the 197 ft (60 m) level, the prevailing wind directions are from the north-northeast and from the south-southwest, approximately 9% of the time. The north-northeast flow dominates in September and October and the south-southwest flow dominates in November.

The most prevalent wind speed class on an annual basis for the 33 ft (10 m) level is the 4 to 7 mph (1.8 to 3.1 mps) class, which occurs approximately 47% of the time. The most prevalent wind speed class on an annual basis for the 197 ft (60 m) level is the 8 to 12 mph (3.6 to 5.4 mps) class which occurs approximately 40% of the time.

On a seasonal basis, the most prevalent wind speed class for the 33 ft (10 m) level is the 4 to 7 mph (1.8 to 3.1 mps) class which occurs approximately 42% of the time during the winter months (December through February), 45% of the time during the spring months (March through May), 54% during the summer months (June through August), and 46% during the autumn months (September through November). At the 197 ft (60 m) level, the most prevalent wind speed class is the 8 to 12 mph (3.6 to 5.4 mps) which occurs approximately 38% during the winter months (December through February), 38% during the spring months (March through May), 47% during the summer months (June through August), and 38% during the autumn months (September through November).

Figure 2.7-66 presents the wind speed class frequency distribution for Patuxent River Naval Air Station (NAS), Maryland, for the years 2000 through 2005. Note that the most prevalent wind speed class on an annual basis for the 33 ft (10 m) level at CCNPP (4-7 mph (1.8-3.1 mps)) is lower than the most prevalent wind speed class at Patuxent River NAS (6.7-8.9 mph 3.0-4.0 mps)). Table 2.7-68 through Table 2.7-70 present monthly and annual summaries of wind speed and direction for three stations around the CCNPP site, i.e., Baltimore/Washington International Airport, Norfolk, Virginia, and Richmond, Virginia (NOAA, 2008a) (NOAA, 2008b) (NOAA, 2008c). Note that the most prevalent wind speed class on an annual basis for the 33 ft (10 m) level at CCNPP (4-7 mph (1.8-3.1 mps)) is lower than the average annual wind speeds at the same measurement height presented for these three stations 7.6 mph (3.4 mps), 9.9 mph (4.4 mps), and 7.8 mph (3.5 mps), respectively); this would lead to more conservative atmospheric dispersion estimates using the CCNPP onsite meteorological data.

Figure 2.7-31 through Figure 2.7-56 depict annual and monthly wind rose plots of the CCNPP 2000-2005 meteorological data for the 33 ft (10 m) and 197 ft (60 m) elevations.

Figure 2.7-57 through Figure 2.7-59 and Figure 2.7-67 depict multi-year average annual wind rose plots for three stations around CCNPP site, i.e., Baltimore/Washington International Airport, Norfolk, Virginia, and Richmond, Virginia, and, Patuxent River NAS, Maryland, (USEPA, 2006b; NCDC, 2008).

A comparison of the CCNPP 33 ft (10 m) annual wind rose with the Patuxent River NAS annual wind rose was made over the period 2000 through 2005. The annual prevailing wind direction (the direction from which the wind blows most often) at the CCNPP site at the 33 ft (10 m) level is from the southwest, approximately 14% of the time. The annual prevailing wind direction at Patuxent River NAS is from the north, approximately 10% of the time. Winds from the southwest through west sectors occur approximately 26% of the time at CCNPP. Conversely, winds from the northeast through east sectors occur approximately 14% of the time at CCNPP. Winds from the southwest through west sectors occur approximately 23% of the time at Patuxent River NAS. Conversely, winds from the northeast through east sectors occur approximately 17% of the time at Patuxent River NAS. At both sites, winds occur most infrequently from the east-southeast (approximately 2.5% at CCNPP and approximately 1.5%

at Patuxent River NAS). The mismatch in prevailing wind direction may be due to the differences in the location of the sites with respect to the Chesapeake Bay (CCNPP has the Bay to the east; Patuxent River NAS has the Bay to the north).

2.7.4.5 Wind Direction Persistence Summary

Table 2.7-71 through Table 2.7-84 present annual wind direction persistence summaries at the CCNPP site for the 33 ft (10 m) and 197 ft (60 m) elevations. They were generated using six years of onsite meteorological data (2000–2005). Table 2.7-77 and Table 2.7-84 present an average of the six individual year summaries for both elevations.

The majority of the time, approximately 86%, wind direction persistence events last for less than four hours at both measurement elevations. Wind direction persistence events lasting 12 hours occur six and eight times per year on the average for the lower and upper measurement level, respectively. Wind direction persistence events lasting greater than 24 hours occur once per year on the average for the lower and upper measurement level.

2.7.4.6 Atmospheric Stability Persistence Summary

Depending on the amount of incoming solar radiation and other factors, the atmosphere may be more or less turbulent at any given time. Meteorologists have defined atmospheric stability classes, each representing a different degree of turbulence in the atmosphere. When moderate to strong incoming solar radiation heats air near the ground, causing it to rise and generate large eddies, the atmosphere is considered unstable, or relatively turbulent. Unstable conditions are associated with atmospheric stability classes A and B. When solar radiation is relatively weak or absent, air near the surface has a reduced tendency to rise, and less turbulence develops. In this case, the atmosphere is considered stable, or less turbulent, and the stability class would be E, F, or G. Stability classes D and C represent conditions of more neutral stability, or moderate turbulence. Neutral conditions are associated with relatively strong wind speeds and moderate solar radiation.

Atmospheric stability is determined by the delta temperature method as defined in Regulatory Guide 1.23, Revision 0 (NRC, 1972) and Revision 1 (NRC, 2007). This methodology classifies atmospheric stability based on the temperature change with height (°C per 100 m). At CCNPP, atmospheric stability is classified according to the difference between the temperature measurements at the 197 ft (60 m) and 33 ft (10 m) levels.

Table 2.7-85 through Table 2.7-98 present annual atmospheric stability persistence summaries at the CCNPP site for the 33 ft (10 m) and 197 ft (60 m) elevations. They were generated using six years of onsite meteorological data (2000–2005). Table 2.7-91 and Table 2.7-98 present an average of the six individual year summaries for both elevations.

The majority of the time, approximately 78%, stability persistence events last for less than four hours. Stability persistence events lasting 12 hours occur 19 times per year on the average and events lasting for greater than 24 hours occur nine times per year on the average.

Table 2.7-125 presents the monthly atmospheric stability summary. It was generated using six years of on-site meteorological data (2000 - 2005).

2.7.5 Maximum Terrain Heights and Topographic Maps

Figure 2.7-60 and Figure 2.7-61 present the maximum terrain heights from 0 to 5 mi (0 to 8 km) and from 0 to 50 mi (0 to 80 km), respectively, from the CCNPP site. Figure 2.7-62 and Figure 2.7-63 present detailed topographic features (as modified by the plant) on a large scale

within an 5 mi (8 km) radius of the station and a smaller scale map showing topography within a 50 mi (80 km) radius of the station, respectively.

These figures indicate that the highest terrain in the vicinity of the CCNPP site is in the west through north-northwest sectors. The Chesapeake Bay lies in the north through southwest sectors. The CCNPP site consists of low rolling hills. Elevations across the site range from 0 ft (0 m) msl (at the shoreline of the Chesapeake Bay) to 150 ft (46 m) msl. There is a hill approximately 110 ft (34 m) msl to the southeast of CCNPP Units 1 and 2. Another hill south-southeast of CCNPP Units 1 and 2 will be graded for CCNPP Unit 3. The terrain falls off steeply to the shore of the Chesapeake Bay.

CCNPP Unit 3 will be south of CCNPP Units 1 and 2. Some portions of the CCNPP site will be cleared of existing vegetation and graded to accommodate CCNPP Unit 3 and its ancillary structures. These terrain modifications would be limited to the CCNPP Unit 3 site and the immediately surrounding area. Therefore, it will not represent a significant alteration to the topographic character of the region around the CCNPP site.

2.7.6 Atmospheric Dispersion Factors

2.7.6.1 Long-Term Routine Effluent Atmospheric Dispersion and Deposition Values

Table 2.7-99 through Table 2.7-114 present atmospheric dispersion factors (χ/Q 's) determined using methodologies from Regulatory Guide 1.111, Revision 1 (NRC, 1977) as implemented in the AREVA NP computer code AEOLUS3, and seven years of on-site meteorological data (2000-2006). The values are normal effluent annual average atmospheric dispersion and deposition factors determined using the following input data (expressed in metric units as required by the computer model) and assumptions:

- Seven years of onsite meteorological data (2000–2006)
- Type of release: mixed mode
- Plume meander was considered.
- The open terrain recirculation correction factors (RCF's) from RG 1.111, Rev. 0 (NRC, 1976), were used since no site-specific RCF's were available.
- Wind speed extrapolation with height, where applicable, was done using the coefficients from XOQDOQ.
- Dispersion coefficients (σ_y and σ_z) were computed using the Eimutis/Konicek model in XOQDOQ.
- Depletion and deposition were computed using the RG 1.111, Rev. 1 (NRC, 1977) curves.
- Wet deposition effects were not evaluated.
- No credit was taken for decay-in-transit of noble gases and iodines.
- Wind sensor height: 10 m
- Vertical temperature difference: 60 m temperature – 10 m temperature
- Number of wind speed categories: 12

- Release height: 62 m
- Cross-sectional area of building adjacent to the release point causing building wake effects: 2,940 m^2
- Height of containment building: 60 m
- Distance from the stack to the nearest site boundary: 429.4 m
- Distance from the stack to the nearest resident: 1,770.0 m
- Distance from the stack to the nearest vegetable garden: 1,770.0 m

More detailed information on input to AEOLUS3 is provided in Table 2.7-127.

Computer code AEOLUS3 is based on a straight-line trajectory Gaussian plume model with an optional ″sea breeze″ model (which evaluates the effects of the thermal internal boundary layer on plume vertical diffusion) and an optional ″valley″ model (which evaluates the effects of the valley configuration on plume transport and horizontal diffusion). The user may select to consider plume depletion by wet deposition, dry deposition, and radioactive decay. The computed ground-level concentration can be modified to account for plume recirculation or stagnation. The code computes an effective plume height that accounts for physical height, aerodynamic downwash, plume rise, and terrain heights.

AEOLUS3 generates the following types of atmospheric dispersion factors:

- Concentration χ/Q values that can be used to convert effluent release rates to ground-level concentrations at receptors of interest;
- Gamma χ/Q values that can be used to determine external gamma doses from finite clouds of radioactive material; and
- Deposition D/Q values that can be used for assessing ground-shine and ingestion radiation exposure.

The largest undepleted, undecayed χ/Q value determined at the site boundary is 1.379E-05 sec/m^3 in the NE sector. The largest undepleted, undecayed χ/Q value determined at the locations of nearest residents is 8.707E-07 sec/m^3 in the SE sector 5,164 ft (1,574 m) downwind. The largest undepleted, undecayed χ/Q value determined at the locations of nearest vegetable gardens is 8.707E-07 sec/m^3 in the SE sector 5,164 ft (1,574 meters) downwind. There are no meat animals within 5 mi (8 km) of the CCNPP site.

2.7.6.2 Fiftieth Percentile Atmospheric Dispersion Factors

Making use of the methodology in Sections 1.4 and 2.2 of Regulatory) Guide 1.145, the 0-2 hour 50^{th} percentile value and the five percentile values for all accident time periods, the 50^{th} percentile values, for the 2-8 hour, 8-24 hours, 1-4 days, and 4-30 days time periods were determined for the LPZ.

Regulatory Guide 1.145 (NRC, 1982) requires the following steps to be performed for computation of the accident atmospheric dispersion factors (χ/Q) at the Low Population Zone (LPZ):

1. The 2-hour accident χ/Q and the annual average χ/Q are determined for each sector at the outer LPZ boundary distances.

2. The two values for any given sector (the 2-hour accident χ/Q and the annual average χ/Q are plotted on a log-log graph, and values at other time intervals of interest are determined through logarithmic interpolation between these two points.

3. The time periods should be selected to represent appropriate meteorological time regimes (an 8-hour interval for releases during the first 8 hours of the postulated accident, a 16-hour interval for releases between 8 and 24 hours, a 3-day interval for releases between 1 and 4 days, and a 26-day interval for releases between 4 and 30 days).

Since the annual average χ/Q is an integral part of the model for determination of accident χ/Q values, it is possible to use the Regulatory Guide 1.145 (NRC, 1982) methodology in reverse order to determine the annual average χ/Q which was used in the computation of the accident χ/Q values. The accident χ/Q values and the annual χ/Q value should be on a straight line when plotted on a log-log graph.

Analysis assumptions included:

- For ground level releases modeled using the computer code AEOLUS3, terrain heights are not used. (Per Reg. Guide 1.145, Revision 1 (NRC, 1982) Section 1 3.2, release-point and receptor elevations are assumed to be the same.)

- Releases from the Stack for DBA analyses are at a height that is less than 2.5 times the height of adjacent solid structures and are therefore assumed to be ground level releases. (Per Reg. Guide 1.145, Revision 1 (NRC, 1982) Section 1.3.2.

- For EAB/LPZ atmospheric dispersion factors for DBAs, all post-accident release points were based on the ground level release model with no dispersion credit for building wake effects. However, plume meander, which predominates building wake effects during short time intervals, is accounted for.

Table 2.7-126 presents design input used in the accident effluent analysis.

Table 2.7-115 presents fiftieth percentile atmospheric dispersion factors for use in evaluating the environmental impact of design basis accidents using realistic values per Section 7.1. These factors were determined using the methodology of Regulatory Guide 1.145 (NRC, 1982) as implemented in the AREVA NP computer code AEOLUS3.

The fiftieth percentile atmospheric dispersion factor for the 0-2 hour time period at the Low Population Zone (LPZ) is 1.527E-05 sec/m^3.

2.7.7 Noise

The principal noise sources associated with normal operation of CCNPP Unit 3 are the switchyard, transformers, and Circulating Water Supply System cooling tower. In addition, two of the four Emergency Service Water System cooling towers will normally be in operation. Previous environmental assessments, however, excluded noise measurements made at the CCNPP site and surrounding environs that could be used to establish a baseline noise level (BGE, 1970) (BGE, 1971) (BGE, 1998). For this reason, a survey was conducted in November 2006 to measure ambient environmental community noise levels.

CCNPP Unit 3 will use the existing transmission lines used for CCNPP Units 1 and 2 as discussed in Section 3.7. The environmental impact of noise associated with the transmission

lines was previously assessed in the CCNPP Units 1 and 2 license renewal application (BGE, 1998) and the NRC's application review (NRC, 1999). In NUREG-1437 (NRC, 1996), the NRC defined the environmental issue of noise associated with the transmission lines as small for all plants. Therefore, no additional data for transmission lines has been provided.

2.7.7.1 Environmental Noise Survey

Environmental sound levels were measured continuously at eight area-wide locations over a 45 hour period during leaf-off seasonal conditions. As a result, any noise emissions from CCNPP Units 1 and 2 would be highest due to the lack of tree leaf noise reduction.

Figure 2.7-64 shows the location of the eight monitoring sites. There are single-family residences at locations N1 through S3, except for location P1, which are representative of the closest potentially sensitive receptors in all directions from the CCNPP site. P1 was placed near where CCNPP Units 1 and 2 are audible and dominant. In addition, four eagle nest sites are situated in the site vicinity: two to the south in areas of expected low ambient sound levels, one to the north near the site, and one in the laydown area. The closest potentially sensitive receptors represent existing conditions and can be used to assess potential noise impacts from CCNPP Unit 3.

The instantaneous sound level was measured at each location on a continuous and simultaneous basis over the 45 hour period using precision data loggers. In addition, attended measurements were carried out at each location during day and night periods using hand-held precision data loggers.

2.7.7.2 Metrics for Noise Assessment

The universal measure of noise in decibels is the A-weighted sound level, abbreviated dB(A) or dBA. The overall sound level is defined as the summed level in decibels over the entire audible frequency range of approximately 20 to 20,000 cycles/second (Hertz). The A-weighted sound level is a convenient single number to quantify the entire spectrum of a sound.

Percentile levels, or exceedence levels, designated L1, L10, L50 and L90 are statistically derived units over the sampling period. They are the levels exceeded for 1%, 10%, 50% and 90% of the sampling time. The L90 percentile level is the most common for evaluating community noise in residential environments. L90 is the "residual" sound level, which is the quasi-steady level that occurs in the absence of all identifiable sporadic sound levels occurring over the interval. The vast majority of all residual sound levels found in communities come from far away, unidentifiable steady levels from traffic or industrial sources.

The average, designated Leq, is the equivalent steady sound level that has the same acoustic energy as the actual time varying signal. It is the energy average, not the arithmetic average over the period. The 24 hour day-night sound level, or Ldn, is calculated from the average hourly Leq sound level over a 24 hour period, with a 10 dBA weighting factor added to all levels during the nighttime period from 10 PM to 7 AM to account for greater sensitivity to noise at night. The State of Maryland (MD, 2007) regulates the maximum allowable noise levels at residential receptors to 65 dBA during the daytime (7 AM to 10 PM) and 55 dBA during the nighttime (10 PM to 7 AM). These regulatory limits are intended to achieve environmental "goals," which for a residential area is a Ldn value equal to 55 dBA (MD, 2007). This level is the same as recommended by the U.S. Environmental Protection Agency (EPA) to the Department of Housing and Urban Development (HUD) as a goal for outdoors in residential areas as part of noise abatement and control (CFR, 2007c). However, for the

purposes of the HUD regulation, sites with a Ldn value of 65 dBA and below are acceptable and allowable (CFR, 2007c).

2.7.7.3 Results

Figure 2.7-65 plots the hourly residual (L90) sound levels at the residential locations for the survey period. The plot illustrates that sound levels follow increasing wind speed, which is due to higher tree branch and grass movement sounds created at all of the heavily wooded locations. The plot also shows that the levels are highest close to the four-lane Maryland State Highway 2/4 and quietest at remote locations. This indicates that the residual sound level in the CCNPP site area is dominated by traffic noise. On the other hand, there was no observed audible plant noise from the existing plant at any of the locations, day or night, although both units were operating continuously. Therefore, all measured ambient sound levels can be attributed to normal, current environmental sources, such as traffic noise, and are not related to CCNPP Units 1 and 2.

Table 2.7-116 tabulates the major survey results at all locations for commonly used sound level metrics to assess noise impact. Location P1 is at the plant and can be considered the control point. The other locations are at or near residences. Whether the Maryland environmental goal of Ldn equal to 55 dB(A) is realized depends on location and environmental conditions. More remote locations (S2 and S3), for example, are within the environmental goal. Conversely, locations near noise sources, such as Maryland State Highway 2/4 (W2) or an existing saw mill (W3), are above or near the environmental goal. Wind conditions also have an effect, as the Ldn increases with increased wind speed. Apart from these effects, Ldn noise levels of below 60 to 65 dB(A) are considered to be of small significance, as noted in Section 4.3.7 of NUREG-1437 (NRC, 1996). All measurements taken had a Ldn value below 65 db(A) except near the highway (W2) and on the plant site (P1).

The survey results document existing conditions for a typical and representative period during the leaf-off season. During leaf-on season, fully leafed trees would attenuate or reduce traffic noise from Maryland State Highway 2/4 and any existing plant emissions, both factors tending to decrease residual sound levels.

2.7.8 References

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Table 2.7-1— Total and Average Numbers of Tropical Storms and Hurricanes

	Tropical Storms(1)		Hurricanes		U.S. Hurricanes	
Month	**Total**	**Average**	**Total**	**Average**	**Total**	**Average**
January-April	5	*	1	*	0	0.00
May	18	0.1	4	*	0	0.00
June	76	0.5	28	0.2	19	0.12
July	94	0.6	47	0.3	23	0.15
August	336	2.2	214	1.4	74	0.48
September	448	2.9	309	2.0	102	0.67
October	273	1.8	154	1.0	50	0.33
November	58	0.4	38	0.2	5	0.03
December	8	0.1	4	*	0	0.00
Year	1,316	8.5	799	5.2	273	1.78

Notes:

1. Includes subtropical storms after 1967. See Neumann et al. (1999) for details.

* Less than 0.05.

Table 2.7-2— Monthly Mean Number of Days with Thunderstorms

SITE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/Washington International Airport	0.3	0.2	0.8	2.4	4.0	5.4	5.8	4.9	2.0	1.0	0.4	0.1	27.3
Norfolk, VA	0.4	0.6	1.9	2.7	5.0	5.6	8.0	6.5	2.7	1.3	0.5	0.4	35.6
Richmond, VA	0.2	0.4	1.6	2.5	5.3	6.5	8.1	6.2	2.9	1.0	0.6	0.2	35.5

Table 2.7-3— High Winds by Storm Type in Calvert County

Date	Time	Wind Speed knots (mps)	Storm Type
6/3/1980	4:20 PM	52 (27)	Thunderstorm
7/1/1990	2:15 PM	52 (27)	Thunderstorm
5/4/1996	9:08 PM	60 (31)	Thunderstorm
10/8/1996	2:30 PM	67 (34)	High Wind
1/13/2000	12:00 PM	56 (29)	High Wind
4/21/2000	3:00 PM	90 (46)	Thunderstorm
3/13/2001	10:20 PM	52 (27)	Thunderstorm
6/11/2003	9:35 PM	50 (26)	Thunderstorm
6/27/2003	2:38 PM	50 (26)	Thunderstorm
7/18/2003	3:55 PM	50 (26)	Thunderstorm
8/5/2003	9:00 PM	50 (26)	Thunderstorm
8/16/2003	4:11 PM	50 (26)	Thunderstorm
8/26/2003	4:15 PM	55 (28)	Thunderstorm
5/25/2004	9:05 PM	50 (26)	Thunderstorm
7/5/2005	6:45 PM	50 (26)	Thunderstorm
1/14/2006	5:15 PM	52 (27)	High Wind
9/1/2006	11:00 AM	55 (28)	High Wind

Table 2.7-4— Hail Events in Calvert County

Location or County	Date	Time	Type	Diameter
Calvert	10/9/1962	600	Hail	0.75 in 19.05 mm
Calvert	4/1/1993	1745	Hail	0.88 in 22.35 mm
Calvert	9/26/1994	1625	Hail	0.75 in 19.05 mm
Prince Frederick	7/15/1996	3:07 PM	Hail	2.00 in 50.80 mm
Prince Frederick	3/29/1997	1:30 PM	Hail	1.75 in 44.45 mm
St Leonard	6/15/1998	5:45 PM	Hail	1.75 in 44.45 mm
Lusby	6/15/1998	6:55 PM	Hail	0.75 in 19.05 mm
Buena Vista	4/9/1999	5:30 PM	Hail	1.50 in 38.10 mm
Island Creek	4/9/1999	5:30 PM	Hail	1.25 in 31.75 mm
Solomons	4/9/1999	5:30 PM	Hail	1.00 in 25.40 mm
Island Creek	4/23/1999	3:40 PM	Hail	1.00 in 25.40 mm
Prince Frederick	4/23/1999	3:45 PM	Hail	1.50 in 38.10 mm
Lusby	4/23/1999	4:42 PM	Hail	0.75 in 19.05 mm
Solomons	4/23/1999	4:42 PM	Hail	1.50 in 38.10 mm
Dunkirk	4/21/2000	5:15 PM	Hail	1.00 in 25.40 mm
Huntingtown	7/16/2000	1:30 PM	Hail	0.88 in 22.35 mm
Bowens	4/28/2002	6:25 PM	Hail	1.75 in 44.45 mm
Prince Frederick	4/28/2002	6:35 PM	Hail	1.75 in 44.45 mm
Prince Frederick	5/5/2004	5:35 PM	Hail	0.88 in 22.35 mm
Chesapeake Beach	4/23/2005	4:23 PM	Hail	0.75 in 19.05 mm

Table 2.7-5— Ice Storm Events within the General Region of the Site
(Page 1 of 9)

Locations/Counties	Start Date and Time	End Date and Time	Ice Thickness
Upper Chesapeake Bay	Dec. 1958	Jan. 1959	Up to 24 inches (610 mm) of ice build-up on the Upper Chesapeake Bay.
State	1/20/1959 (AM)	Not Recorded	Freezing Rain, ice thickness not recorded.
State	2/18/1960	2/19/1960	Ice accumulation on roadways associated with large snow storm, Ice thickness not recorded.
State	12/24/1961	Not Recorded	Ice accumulation on roadways. Ice thickness not recorded.
Central and Western Maryland	12/9/1962	Not Recorded	Ice accumulation on roadways. Ice thickness not recorded.
State	12/22/1962	Not Recorded	Freezing Rain, ice thickness not recorded.
Central and Western Maryland	12/29/1962	12/31/1962	Ice accumulation on roadways. Ice thickness not recorded.
State	1/1/1964	1/2/1964	Freezing rain followed by sub-freezing temperature resulted in ice accumulation on roadways and walkways. Ice thickness not recorded.
Northern Counties (Greater than 50 mi (80 km) from the site)	1/23/1965	1/24/1965	Freezing rain resulted in ice accumulation of 0.5 to 1 inch (13 to 25 mm) thick.
Western Allegany and Garrett Counties (Greater than 50 mi (80 km) from the site)	3/26/1965	Not Recorded	Ice accumulations of 2 to 4 inches (51 to 102 mm) thick.
Western Mountains (Greater than 50 mi (80 km) from the site)	3/7/1967 (AM)	3/7/1967 (PM)	Ice accumulation up to 1 inch (25 mm) near Thurmont above 1400 ft elevation. Ice accumulation up to 0.5 inches (13 mm) in Garrett County.
Western Mountains (Greater than 50 mi (80 km) from the site)	12/10/1967	12/11/1967	Freezing rain resulted in ice accumulation up to 2 inches (51 mm) thick.
State	1/2/1968 (late PM)	1/3/1968 (AM)	Freezing rain on roadways. Ice thickness not recorded.
State	1/3/1968 (PM)	1/4/1968 (AM)	Freezing rain on roadways. Ice thickness not recorded.
Chesapeake Bay	1/8/1968	1/13/1968	Ice accumulation on Chesapeake Bay. No ice thickness recorded.
Northern Maryland	1/8/1969 (late PM)	1/9/1969 (AM)	Freezing rain on roadways. Ice thickness not recorded.

Table 2.7-5— Ice Storm Events within the General Region of the Site
(Page 2 of 9)

Locations/Counties	Start Date and Time	End Date and Time	Ice Thickness
Upper Chesapeake Bay	1/10/1969	1/16/1969	8 to 10 inches (203 to 254 mm) of ice buildup on Chesapeake Bay with as much as 14 inches (356 mm) near Tolchester Beach.
State except southernmost areas	1/28/1969 (late PM)	1/29/1969 (PM)	Freezing rain. No ice thickness recorded.
Southeast Shore	2/18/1969 (AM)	Not Recorded	Ice accumulation on roadways. Ice thickness not recorded.
Central Eastern Shore	2/2/1970	Not Recorded	Strong winds blew an ice-flow onto shore. Ice thickness no recorded.
Central Maryland, including Eastern Shore	2/14/1970 (AM)	2/16/1970 (AM)	Freezing rain resulting in ice accumulations as thick as 3/8 inch (10 mm)
Central Eastern Shore	2/17/1970	Not Recorded	Freezing rain.No ice thickness recorded.
Garrett County (Greater than 50 mi (80 km) from the site)	12/21/1970 (PM)	12/22/1970 (AM)	Ice storm with ice accumulation as thick as 2 inches (51 mm) in the eastern part of Garrett County, and as thick as 1 inch (25 mm) in the western parts.
Northern Maryland	1/4/1971 (AM)	Not Recorded	Freezing rain resulting in ice accumulation on roadways. Ice thickness not recorded.
Northern Maryland including Washington D.C.	1/13/1971 (PM)	1/14/1971 (PM)	Thick ice coatings on roadways. No ice thickness recorded.
Northeastern Maryland	1/19/1972 (PM)	Not Recorded	Light rain followed by sub-freezing temperature resulted in thin coating of ice on roadways. Ice thickness not recorded.
Chesapeake Bay	2/2/1971	2/5/1971	Ice buildup as thick as 16 inches (406 mm) on bay.
Western Maryland	2/7/1971	2/8/1971	Winter storm causing icy accumulation on roadways in Western Maryland. Ice thickness not recorded.
Garrett and Allegany Counties	12/13/1973 (AM)	Not Recorded	Icy coating on walkways. Ice thickness not recorded.
State	12/16/1973	12/17/1973	Winter storm causing ice accumulation in areas. Ice thickness not recorded.
Garrett and Allegany Counties	12/1/1974	Not Recorded	Statewide winter storm resulted in ice and snow accumulations. Ice thickness not recorded.

Table 2.7-5— Ice Storm Events within the General Region of the Site
(Page 3 of 9)

Locations/Counties	Start Date and Time	End Date and Time	Ice Thickness
District of Columbia	1/20/1975	Not Recorded	Rain followed by sub-freezing temperatures caused ice accumulation on roadways. Ice thickness not recorded.
East Central Maryland	2/1/1975 (AM)	Not Recorded	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
Northern Maryland	2/5/1975 (AM)	Not Recorded	Freezing rain. Effects not recorded.
North Elkton, Cecil County	12/8/1975 (6:00 PM)	Not Recorded	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
Elkton, Cecil County	12/22/1975 (noon)	Not Recorded	Brief snowfall causing icing on bridge surface. Ice thickness not recorded.
Central and Western Maryland	12/25/1975	12/26/1975	Freezing rain causing ice accumulations. Ice thickness not recorded.
Harford County	1/1/1976 (AM)	Not Recorded	Freezing rain causing ice accumulations on roadways. Ice thickness not recorded.
Central and Eastern Maryland	1/7/1976 (AM)	Not Recorded	Freezing rain causing ice accumulations on roadways. Ice thickness not recorded.
Southern portions of Eastern Shore, Anne Arundel County, and Washington D.C. areas	1/11/1976	1/12/1976	Freezing rain causing ice accumulations on roadways. Ice thickness not recorded.
Upper Chesapeake Bay	1/18/1976	1/24/1976	Ice accumulation on bay as thick as 10 inches (254 mm)
State	1/20/1976	Not Recorded	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
Allegany and Garrett Counties	1/25/1976	1/26/1976	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
State	2/1/1976 (PM)	2/2/1976	Winter storm with freezing rain. No ice accumulation recorded.
Western and North Central Maryland	2/5/1976	2/6/1976	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
Frederick County	11/10/1976 (5:30 AM)	11/10/1976 (8:30 AM)	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
Eastern Shore	1/4/1977 (AM)	Not Recorded	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
State	1/14/1977	Not Recorded	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.

Table 2.7-5— Ice Storm Events within the General Region of the Site
(Page 4 of 9)

Locations/Counties	Start Date and Time	End Date and Time	Ice Thickness
Upper Chesapeake Bay	1/28/1977 (PM)	Not Recorded	Wind caused large chunks of ice to block Baltimore Harbor. Ice thickness not recorded.
Western and Central Maryland	11/26/1977	11/27/1977	Freezing conditions resulted in ice accumulations on roadways. Ice thickness not recorded.
Western Maryland	12/6/1977	12/8/1977	Snow and sleet resulted in icy conditions on roadways. Ice thickness not recorded.
State	1/13/1978 (AM)	1/14/1978	Freezing rain causing ice accumulation. Ice thickness not recorded.
State	1/17/1978	1/18/1978	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
Western and Northern Maryland	12/19/1978 (PM)	12/20/1978 (AM)	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
State	1/12/1979 (AM)	1/13/1979 (AM)	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
Western Maryland	1/17/1979	Not Recorded	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
State	1/20/1979	Not Recorded	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
Central and Eastern Shore	2/15/1979	Not Recorded	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
Central Maryland	2/21/1979 (AM)	Not Recorded	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
North Central and Western Maryland	11/17/1980	11/18/1980	Freezing rain causing ice accumulation. Ice thickness not recorded.
State	12/23/1980 (AM)	Not Recorded	Light rain followed by sub-freezing temperature resulted in coating of ice on roadways. Ice thickness not recorded.
Northeast and Central Maryland	12/1/1981 (AM)	Not Recorded	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
Chesapeake Bay	Dec-81	Mar-82	Extensive ice formations on the bay.
North Central	1/3/1982 (AM)	Not Recorded	Freezing rain causing ice accumulation on roadways and walkways. Ice thickness not recorded.

Table 2.7-5— Ice Storm Events within the General Region of the Site
(Page 5 of 9)

Locations/Counties	Start Date and Time	End Date and Time	Ice Thickness
Central and Northern Maryland and the District of Columbia	1/22/1982 (Late PM)	1/23/1982 (AM)	Freezing rain causing ice accumulation on roadways. Ice thickness was 0.25 to 0.5 inches (6 ro 13 mm)
North Central and Northeastern Maryland	2/1/1982	2/3/1983	Flooding caused large chunks of ice to be carried onto roadways causing blockage. Ice thickness not recorded.
Frederick County (Greater than 50 mi (80 km) from the site)	2/18/1982	2/19/1982	Snow and sleet resulted in 1 to 2 inches (25 to 51 mm) of icy accumulation
Garrett County	3/6/1982 (7:00 PM)	3/6/1982 (9:00 PM)	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
North Central Maryland and District of Columbia	1/5/1983 (AM)	Not Recorded	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
North Central Maryland	1/31/1983 (AM)	Not Recorded	Rain followed by sub-freezing temperatures caused ice accumulation on roadways. Ice thickness not recorded.
Garrett and Allegany Counties	12/3/1983 (PM)	12/4/1983 (PM)	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
State except southeastern and far western counties	12/21/1983 (PM)	12/22/1983 (AM)	Freezing rain causing ice accumulation. Ice thickness not recorded.
Northern Maryland and District of Columbia	12/28/1983 (AM)	Not Recorded	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
Central and North Central Maryland and the District of Columbia	1/13/1984 (PM)	1/14/1984 (AM)	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
North Central and Western Maryland	1/24/1984 (Early AM)	Not Recorded	Light rain followed by sub-freezing temperatures caused ice accumulations on roadways. Ice thickness not recorded.
Frederick, Washington, Allegany and Garrett counties	2/27/1984	2/28/1984 (AM)	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
Central and Western Maryland and Washington D.C.	3/13/1984 (Early AM)	Not Recorded	Freezing rain resulting in 1 to 2 inches (25 to 51 mm) of mixed frozen precipitation
Baltimore, Harford, Howard and Prince George's Counties	1/3/1985 (2:00 AM)	1/3/1985 (9:00 AM)	Winter storm caused ice coatings on bridges and elevated roadways. Ice thickness not recorded.
State	2/5/1985 (2 PM)	2/6/1985 (12:00 PM)	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.

Table 2.7-5— Ice Storm Events within the General Region of the Site

(Page 6 of 9)

Locations/Counties	Start Date and Time	End Date and Time	Ice Thickness
Garrett and Allegany Counties	12/2/1986 (12:00 AM)	12/3/1986 (12:00 AM)	Ice accumulation on trees and power lines. No ice thickness recorded.
District of Columbia	1/18/1987 (5:00 AM)	1/18/1987 (8:00 AM)	Ice covered roads. No ice thickness recorded
Garrett, Allegany and Washington Counties	2/8/1987 (8:00 PM)	Not Recorded	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
Garrett, Allegany, Washington, Frederick, Carroll, and Northern Baltimore Counties	11/11/1987 (3:00 AM)	Not Recorded	Winter storm caused ice accumulations. No ice thickness recorded.
Carroll and Harford Counties and the District of Columbia	3/6/1989 (2:30 AM)	Not Recorded	Winter storm with freezing rain, sleet and snow. Total mixed accumulaton of 3 inches (76 mm). Ice thickness not recorded.
Carroll, Northern Baltimore, and Harford Counties	1/4/1990 (5:00 AM)	1/4/1990 (10:00 AM)	Rain and sub-freezing temperatures cuased ice accumulation on roadways. Ice thickness not recorded.
Carroll and Montgomery Counties and the District of Columbia	1/8/1990 (6:00 AM)	1/8/1990 (8:00 PM)	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
Carroll and Montgomery Counties	1/8/1991 (6:00 PM)	1/9/1991 (6:00 AM)	Freezing rain causing ice accumulation on roadways trees and power lines. Ice thickness not recorded.
Carroll and Northern Baltimore Counties and the District of Columbia	1/10/1991 (6:00 AM)	1/10/1991 (10:00 AM)	Freezing rain causing ice accumulation on roadways. Ice thickness not recorded.
Carroll and Harford Counties	12/23/1991 (6:00 AM)	12/23/1991 (8:30 AM)	Freezing rain causing ice accumulation on roadways, trees, and power lines. Ice thickness not recorded.
Carroll, Harford, and Cecil Counties	12/28/1991 (12:00 PM)	12/29/1991 (4:00 AM)	Freezing rain causing ice accumulation on roadways, trees, and power lines. Ice thickness not recorded.
Frederick, Carroll, Northern Baltimore, Harford, Cecil, and Montgomery Counties and the District of Columbia	1/27/1992 (11:00 PM)	1/28/1992 (12:00 PM)	Freezing rain causing ice accumulation on roadways, trees, and power lines. Ice thickness not recorded.
Frederick, Carroll, Northern Baltimore, Harford, Cecil, and Montgomery Counties and the District of Columbia	2/13/1992 (1:00 AM)	2/13/1992 (6:00 PM)	Freezing rain. Ice thickness not recorded.
Cecil and Montgomery Counties	3/18/1992 (2:00 PM)	3/19/1992 (12:00 AM)	Snow mixed with sleet and freezing rain. No thickness recorded.

Table 2.7-5— Ice Storm Events within the General Region of the Site
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Locations/Counties	Start Date and Time	End Date and Time	Ice Thickness
Allegany, Anne Arundel, Calvert, Caroline, Carroll, Cecil, Charles, Dorchester, Frederick, Garrett, Harford, Howard, Inland Worcester, Kent, Maryland Beaches, Montgomery, Northern Baltimore, Prince George's, Queen Anne's, Somerset, Southern Baltimore, St. Mary's, Talbot, Washington, Wicomico	2/12/1993 - time not reported	Not Reported	Ice accumulations were reported across north-central and western Maryland; thicknesses were not reported.
Anne Arundel, Howard, Montgomery, Prince George's, Southern Baltimore	29 Jan 1998, 05:00:00 AM EST	29 Jan 1998, 09:00:00 AM EST	Abundant black ice in the Maryland suburbs of Washington DC and Baltimore
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	23 Dec1998, 02:00:00 PM EST	25 Dec 1998, 05:00:00 AM EST	0.25 to 0.75 in (6.4 to 19.1 mm)
Anne Arundel, Charles, Howard, Montgomery, Prince George's, Southern Baltimore	08 Jan 1999, 02:00:00 AM EST	09 Jan 1999, 04:00:00 AM EST	A trace to 0.33 in (8.5 mm) on top of snowfall
Calvert, Charles, St. Mary's	14 Jan 1999, 01:00:00 AM EST	15 Jan 1999, 11:00:00 AM EST	A trace to 0.25 in (6.4 mm) in Charles, Calvert, and St. Mary's counties, 0.25 to 1 in (6.4 to 25.4 mm) elsewhere across Western and Central Maryland
Dorchester	30 Jan 2000, 07:00:00 AM EST	30 Jan 2000, 11:00:00 PM EST	Up to 0.25 in (6.4 mm) for portions of southern Maryland, including Dorchester county.
Calvert, Charles, St. Mary's	30 Jan 2000, 03:00:00 AM EST	30 Jan 2000, 08:00:00 PM EST	0.25 to 1 in (6.4 to 25.4 mm) in St. Mary's, Charles, and Calvert Counties.
Allegany, Charles, Harford, Howard, Northern Baltimore, Prince George's	13 Dec 2000, 06:00:00 PM EST	14 Dec 2000, 08:00:00 AM EST	From Carroll and Montgomery Counties westward 0.25 to 0.5 in (6.4 to 12.7 mm)
Dorchester, Inland Worcester, Somerset, Wicomico	04 Dec 2002, 10:00:00 PM EST	05 Dec 2002, 02:30:00 PM EST	Less than 0.25 in (6.4 mm) of ice across portions of the Lower Maryland Eastern Shore.
Anne Arundel, Prince George's	11 Dec 2002, 12:00:00 AM EST	11 Dec 2002, 09:00:00 AM EST	0.25 to 1 in (6.4 to 25.4 mm)
Caroline, Cecil, Kent, Queen Anne's, Talbot	29 Jan 2003, 03:00:00 AM EST	29 Jan 2003, 06:00:00 PM EST	0.02 in (0.51 mm) to exposed surfaces.
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	15 Feb 2003, 04:00:00 PM EST	17 Feb 2003, 04:00:00 PM EST	Some ice, across the Lower Maryland Eastern Shore; thicknesses were not reported

Table 2.7-5— Ice Storm Events within the General Region of the Site
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Locations/Counties	Start Date and Time	End Date and Time	Ice Thickness
Anne Arundel, Calvert, Charles, Harford, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore	14 Dec 2003, 03:00:00 AM EST	14 Dec 2003, 07:00:00 PM EST	Some light ice accumulations were reported; thicknesses were not recorded
Allegany, Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's, Washington	14 Dec 2003, 03:00:00 AM EST	14 Dec 2003, 07:00:00 PM EST	Up to 0.2 in (5.1 mm)
Anne Arundel, Carroll, Frederick, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, Washington	05 Feb 2004, 05:00:00 PM EST	06 Feb 2004, 08:00:00 PM EST	0.1 to 0.2 in (2.5 to 5.1 mm)
Caroline, Cecil, Kent, Queen Anne's, Talbot	19 Dec 2004, 07:00:00 PM EST	20 Dec 2004, 06:00:00 AM EST	Black ice formed on area roadways and walkways; thicknesses were not reported.
Dorchester, Wicomico	22 Jan 2005, 11:00:00 AM EST	22 Jan 2005, 09:00:00 PM EST	0.13 to 0.25 in (3.2 to 6.4 mm) across portions of the Lower Maryland Eastern Shore
Caroline, Queen Anne's, Talbot	29 Jan 2005, 08:00:00 PM EST	30 Jan 2005, 03:00:00 PM EST	Up to 0.25 in (6.4 mm) on exposed surfaces
Caroline, Queen Anne's, Talbot	30 Jan 2005, 12:00:00 AM EST	30 Jan 2005, 05:00:00 PM EST	0.13 in (3.2 mm) across the Lower Maryland Eastern Shore.
Caroline, Queen Anne's, Talbot	07 Feb 2005, 08:00:00 PM EST	08 Feb 2005, 06:00:00 AM EST	Black ice formed on untreated roadways across the lower Eastern Shore
Anne Arundel, Calvert, Charles, Harford, Howard, Montgomery, Northern Baltimore, Prince Georges, Southern Baltimore, St. Mary's	09 Dec 2005, 03:00:00 AM EST	09 Dec 2005, 08:00:00 AM EST	0.2 in (5.1 mm) or less.
Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's, Washington	12 Feb 2007, 22:00:00 PM EST	14 Feb 2007, 12:00:00 PM EST	2/12: 0.5 in (12.7 mm) 2/13: 0.1 to 0.75 in (2.5 to 19.1 mm)
Caroline, Talbot, Cecil	13 Feb 2007, 06:00:00 AM EST	13 Feb 2007, 18:00:00 PM EST	Up to 0.25 in (6.4 mm) in Cecil County
Caroline, Cecil, Kent, Queen Anne's, Talbot	26 Feb 2007, 01:00:00 AM EST	25 Feb 2007, 11:00:00 AM EST	Up to 0.25 in (6.4 mm) in Cecil County.

Table 2.7-5— Ice Storm Events within the General Region of the Site
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Locations/Counties	Start Date and Time	End Date and Time	Ice Thickness
Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, Washington	17 Jan 2008, 11:00:00 AM EST	17 Jan 2008, 15:00:00 PM EST	A trace of ice
Anne Arundel, Carroll, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, Washington	12 Feb 2008, 05:00:00 AM EST	13 Feb 2008, 09:00:00 AM EST	Mostly ice was reported east into the Baltimore Metro and northern Washington DC suburbs.
Caroline, Talbot	14 Feb 2008, 00:00:00 AM EST	14 Feb 2008, 03:00:00 AM EST	Ice accretions were minimal.
Caroline, Cecil, Kent, Queen Anne's, Talbot	21 Dec 2008, 03:00:00 AM EST	21 Dec 2008, 11:00:00 AM EST	0.2 in. (5.1 mm)
Charles, St. Mary's	27 Jan 2009, 08:00:00 AM EST	28 Jan 2009, 10:00:00 AM EST	0.1 in (2.5 mm)

Table 2.7-6— CCNPP Monthly Mean Temperatures (2000-2005)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
°F	34.3	38.1	45.1	55.0	63.4	71.6	75.1	75.0	69.0	58.5	51.6	38.4	56.3
°C	1.3	3.4	7.3	12.8	17.4	22.0	23.9	23.9	20.6	14.7	10.9	3.6	13.5

Table 2.7-7— CCNPP Monthly Mean Extreme Maximum Temperatures (2000-2005)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
°F	40.9	41.6	52.0	57.1	69.4	72.8	78.3	77.5	72.1	60.4	59.5	45.0	78.3
°C	4.9	5.3	11.1	13.9	20.8	22.7	25.7	25.3	22.3	15.8	15.3	7.2	25.7

Table 2.7-8— CCNPP Monthly Mean Extreme Minimum Temperatures (2000-2005)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
°F	29.5	33.1	40.3	53.2	58.8	69.1	72.0	72.4	65.9	57.2	45.4	31.4	29.5
°C	-1.4	0.6	4.6	11.8	14.9	20.6	22.2	22.4	18.8	14.0	7.4	-0.3	-1.4

Table 2.7-9— CCNPP Monthly Mean Daily Maximum Temperatures (2000-2005)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
°F	40.6	45.4	52.7	63.3	70.8	78.8	81.8	81.4	75.2	65.3	58.9	44.7	78.3
°C	4.8	7.4	11.5	17.4	21.6	26.0	27.7	27.4	24.0	18.5	14.9	7.1	25.7

Table 2.7-10— CCNPP Monthly Mean Daily Minimum Temperatures (2000-2005)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
°F	28.5	31.7	38.1	47.4	56.3	64.8	68.7	69.3	63.1	51.7	44.5	32.2	49.7
°C	-1.9	-0.2	3.4	8.6	13.5	18.2	20.4	20.7	17.3	10.9	6.9	0.1	9.8

Table 2.7-11— CCNPP Maximum Hourly Temperatures (2000-2005)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
°F	77.2	75.6	84.0	90.7	89.8	91.4	96.3	93.9	87.6	86.0	78.6	72.9	96.3
°C	25.1	24.2	28.9	32.6	32.1	33.0	35.7	34.4	30.9	30.0	25.9	22.7	35.7

Table 2.7-12— CCNPP Minimum Hourly Temperatures (2000-2005)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
°F	9.2	15.0	16.2	29.4	39.9	51.8	55.6	55.0	43.3	32.7	22.0	8.5	8.5
°C	-12.7	-9.4	-8.8	-1.4	4.4	11.0	13.1	12.8	6.3	0.4	-5.6	-13.1	-13.1

Table 2.7-13— CCNPP Number of Hourly Temperature Values Compared to Indicated Value (2000-2005)

Value	Number of Hours of Occurrence	Percent Frequency of Occurrence
≥ 95.0°F	3	0.006
≥ 90.0°F	137	0.262
≤ 32.0°F	5062	9.663
≤ 00.0°F	0	0.000

Table 2.7-14— Monthly Mean Temperatures (1971-2000)

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/Washington International Airport	°F	32.3	35.5	43.7	53.2	62.9	71.8	76.5	74.5	67.4	55.4	45.5	36.7	54.6
	°C	0.2	1.9	6.5	11.8	17.2	22.1	24.7	23.6	19.7	13.0	7.5	2.6	12.6
Annapolis, MD	°F	32.8	35.1	43.6	53.6	63.6	72.4	77.5	75.6	68.3	56.6	46.0	37.7	55.2
	°C	0.4	1.7	6.4	12.0	17.6	22.4	25.3	24.2	20.2	13.7	7.8	3.2	12.9
Cambridge, MD	°F	36.1	39.0	46.8	56.2	65.7	74.4	78.9	77.1	70.8	59.7	50.2	41.0	58.0
	°C	2.3	3.9	8.2	13.4	18.7	23.6	26.1	25.1	21.6	15.4	10.1	5.0	14.4
Princess Anne, MD	°F	36.3	38.5	46.0	54.4	63.5	71.9	76.6	74.8	68.6	57.5	48.7	40.3	56.4
	°C	2.4	3.6	7.8	12.4	17.5	22.2	24.8	23.8	20.3	14.2	9.3	4.6	13.6
Patuxent River NAS	°F	36.1	38.2	45.9	55.3	64.8	73.2	78.1	76.8	70.6	59.4	49.9	40.8	57.4
	°C	2.3	3.4	7.7	12.9	18.2	22.9	25.6	24.9	21.4	15.2	9.9	4.9	14.1
Mechanicsville, MD	°F	34.9	37.9	46.2	55.3	63.9	72.0	76.6	74.8	68.3	56.7	47.9	39.5	56.2
	°C	1.6	3.3	7.9	12.9	17.7	22.2	24.8	23.8	20.2	13.7	8.8	4.2	13.4

Table 2.7-15— Monthly Mean Maximum Temperatures (1971-2000)

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/Washington International Airport	°F	41.2	44.8	53.9	64.5	73.9	82.7	87.2	85.1	78.2	67.0	56.3	46.0	65.1
	°C	5.1	7.1	12.2	18.1	23.3	28.2	30.7	29.5	25.7	19.4	13.5	7.8	18.4
Annapolis, MD	°F	41.8	45.0	54.3	65.1	74.8	83.2	87.7	85.3	78.0	66.9	55.7	46.8	65.4
	°C	5.4	7.2	12.4	18.4	23.8	28.4	30.9	29.6	25.6	19.4	13.2	8.2	18.6
Cambridge, MD	°F	45.0	48.6	57.0	67.7	76.9	85.3	89.4	87.3	81.1	70.5	60.2	50.1	68.3
	°C	7.2	9.2	13.9	19.8	24.9	29.6	31.9	30.7	27.3	21.4	15.7	10.1	20.2
Princess Anne, MD	°F	46.6	49.1	57.6	67.5	76.2	84.0	88.4	86.4	81.0	70.6	60.3	51.0	68.2
	°C	8.1	9.5	14.2	19.7	24.6	28.9	31.3	30.2	27.2	21.4	15.7	10.6	20.1
Patuxent River NAS	°F	43.9	46.5	54.8	64.8	73.6	81.5	86.1	84.8	78.8	68.3	58.5	48.7	65.9
	°C	6.6	8.1	12.7	18.2	23.1	27.5	30.1	29.3	26.0	20.2	14.7	9.3	18.8
Mechanicsville, MD	°F	43.5	47.2	56.7	66.8	74.3	82.0	86.1	84.0	77.4	66.3	57.8	48.4	65.9
	°C	6.4	8.4	13.7	19.3	23.5	27.8	30.1	28.9	25.2	19.1	14.3	9.1	18.8

Table 2.7-16— Monthly Mean Minimum Temperatures (1971-2000)

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/Washington International Airport	°F	23.5	26.1	33.6	42.0	51.8	60.8	65.8	63.9	56.6	43.7	34.7	27.3	44.2
	°C	-4.7	-3.3	0.9	5.6	11.0	16.0	18.8	17.7	13.7	6.5	1.5	-2.6	6.8
Annapolis, MD	°F	23.8	25.1	32.8	42.1	52.3	61.6	67.3	65.8	58.5	46.3	36.2	28.6	45.0
	°C	-4.6	-3.8	0.4	5.6	11.3	16.4	19.6	18.8	14.7	7.9	2.3	-1.9	7.2
Cambridge, MD	°F	27.2	29.3	36.5	44.7	54.5	63.5	68.3	66.9	60.5	48.8	40.1	31.8	47.7
	°C	-2.7	-1.5	2.5	7.1	12.5	17.5	20.2	19.4	15.8	9.3	4.5	-0.1	8.7
Princess Anne, MD	°F	26.0	27.8	34.3	41.2	50.8	59.8	64.7	63.1	56.2	44.4	37.1	29.5	44.6
	°C	-3.3	-2.3	1.3	5.1	10.4	15.4	18.2	17.3	13.4	6.9	2.8	-1.4	7.0
Patuxent River NAS	°F	28.3	29.9	36.9	45.7	55.9	64.8	70.0	68.7	62.4	50.4	41.2	32.8	48.9
	°C	-2.1	-1.2	2.7	7.6	13.3	18.2	21.1	20.4	16.9	10.2	5.1	0.4	9.4
Mechanicsville, MD	°F	26.3	28.5	35.6	43.7	53.4	61.9	67.0	65.5	59.1	47.0	38.0	30.6	46.4
	°C	-3.2	-1.9	2.0	6.5	11.9	16.6	19.4	18.6	15.1	8.3	3.3	-0.8	8.0

Table 2.7-17— Monthly Mean Wet Bulb Temperatures (1983-2000)

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/Washington International Airport	°F	30.9	33.0	38.6	47.9	57.1	66.0	70.0	68.5	62.3	51.9	40.3	32.0	49.9
	°C	-0.6	0.6	3.7	8.8	13.9	18.9	21.1	20.3	16.8	11.1	4.6	0.0	9.9
Norfolk, VA	°F	37.5	39.3	44.1	52.0	60.3	68.4	69.0	71.7	63.1	57.2	48.6	40.6	54.3
	°C	3.1	4.1	6.7	11.1	15.7	20.2	20.6	22.1	17.3	14.0	9.2	4.8	12.4
Richmond, VA	°F	34.3	36.7	41.9	50.7	59.4	67.3	71.5	66.2	63.8	53.8	44.9	36.7	52.3
	°C	1.3	2.6	5.5	10.4	15.2	19.6	21.9	19.0	17.7	12.1	7.2	2.6	11.3

Table 2.7-18— Monthly Mean Dew Point Temperatures (1983-2000)

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/Washington International Airport	°F	23.6	25.1	30.1	40.3	51.4	61.5	65.9	64.7	58.4	47.1	34.4	25.4	44.0
	°C	-4.7	-3.8	-1.1	4.6	10.8	16.4	18.8	18.2	14.7	8.4	1.3	-3.7	6.7
Norfolk, VA	°F	31.0	32.5	37.2	45.7	55.1	64.5	65.9	68.7	59.8	52.5	43.0	34.5	49.2
	°C	-0.6	0.3	2.9	7.6	12.8	18.1	18.8	20.4	15.4	11.4	6.1	1.4	9.6
Richmond, VA	°F	27.3	28.9	33.9	43.3	54.3	63.2	68.0	63.2	60.1	49.0	38.7	29.9	46.7
	°C	-2.6	-1.7	1.1	6.3	12.4	17.3	20.0	17.3	15.6	9.4	3.7	-1.2	8.2

Table 2.7-19— Number of Days with Maximum Hourly Temperature Value Greater Than or Equal to 90°F

SITE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/Washington International Airport	0.0	0.0	0.0	0.4	1.4	5.8	11.3	8.0	3.4	0.0	0.0	0.0	30.3
Norfolk, VA	0.0	0.0	0.0	0.4	1.5	5.9	10.9	8.6	2.8	0.1	0.0	0.0	30.2
Richmond, VA	0.0	0.0	0.1	0.8	2.3	8.7	13.8	11.0	4.1	0.3	0.0	0.0	41.1

Table 2.7-20— Number of Days with Maximum Hourly Temperature Value Less Than or Equal to 32°F

SITE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/Washington International Airport	7.2	4.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.6	15.5
Norfolk, VA	3.3	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.7
Richmond, VA	4.3	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	7.6

Table 2.7-21— Number of Days with Minimum Hourly Temperature Value Less Than or Equal to 32°F

SITE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/Washington International Airport	25.3	21.1	14.0	3.4	*	0.0	0.0	0.0	0.0	1.9	10.2	21.1	97.0
Norfolk, VA	18.0	15.5	6.0	0.4	0.0	0.0	0.0	0.0	0.0	0.2	3.0	13.1	56.2
Richmond, VA	23.0	19.5	10.8	2.3	0.1	0.0	0.0	0.0	0.0	2.1	9.4	19.2	86.4

Note:
*Denotes value is between 0.00 and 0.05

Table 2.7-22— Number of Days with Minimum Hourly Temperature Value Less Than or Equal to 0°F

SITE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/Washington International Airport	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	0.6
Norfolk, VA	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Richmond, VA	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4

Note:
*Denotes value is between 0.00 and 0.05

Table 2.7-23— Monthly Mean Relative Humidity

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/Washington International Airport	%	63	61	59	59	66	68	69	71	71	70	66	66	66
Norfolk, VA	%	66	66	65	63	69	71	73	75	74	72	68	67	69
Richmond, VA	%	68	66	63	61	70	72	75	77	77	74	69	69	70

Table 2.7-24— Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperature Values for Patuxent River Naval Air Station, Maryland (1982-2001)

%	Jan		Feb		Mar		Apr		May		Jun	
	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB
	19a	19b	19c	19d	19e	19f	19g	19h	19i	19j	19k	19l
0.4%	60.2°F	63.7°F	61.3°F	67.1°F	65.1°F	77.6°F	68.8°F	79.7°F	76.0°F	86.3°F	79.5°F	88.4°F
	15.7°C	17.6°C	16.3°C	19.5°C	18.4°C	25.3°C	20.4°C	26.5°C	24.4°C	30.2°C	26.4°C	31.3°C
1%	57.5°F	61.8°F	58.8°F	64.4°F	63.0°F	72.3°F	67.1°F	76.9°F	74.6°F	83.9°F	78.2°F	86.9°F
	14.2°C	16.6°C	14.9°C	18.0°C	17.2°C	22.4°C	19.5°C	24.9°C	23.7°C	28.8°C	25.7°C	30.5°C
2%	55.0°F	58.5°F	56.0°F	61.9°F	60.8°F	68.7°F	65.5°F	74.3°F	73.0°F	81.8°F	77.4°F	85.9°F
	12.8°C	14.7°C	13.3°C	16.6°C	16.0°C	20.4°C	18.6°C	23.5°C	22.8°C	27.7°C	25.2°C	29.9°C
%	Jul		Aug		Sep		Oct		Nov		Dec	
	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB
	19m	19n	19o	19p	19q	19r	19s	19t	19u	19v	19w	19x
0.4%	81.3°F	90.8°F	80.9°F	88.2°F	78.4°F	85.5°F	72.8°F	80.0°F	67.1°F	72.0°F	63.5°F	68.9°F
	27.4°C	32.7°C	27.2°C	31.2°C	25.8°C	29.7°C	22.7°C	26.7°C	19.5°C	22.2°C	17.5°C	20.5°C
1%	80.3°F	89.9°F	79.7°F	88.4°F	77.4°F	84.6°F	71.3°F	78.6°F	65.5°F	69.9°F	61.3°F	65.9°F
	26.8°C	32.2°C	26.5°C	31.3°C	25.2°C	29.2°C	21.8°C	25.9°C	18.6°C	21.1°C	16.3°C	18.8°C
2%	79.6°F	89.2°F	78.6°F	87.0°F	76.4°F	83.3°F	70.2°F	76.6°F	64.0°F	68.2°F	59.4°F	64.2°F
	26.4°C	31.8°C	25.9°C	30.6°C	24.7°C	28.5°C	21.2°C	24.8°C	17.8°C	20.1°C	15.2°C	17.9°C

Notes:
WB = wet bulb
MCDB = mean coincident dry bulb

Table 2.7-25— Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperature Values for Salisbury Wicomico County Airport, Maryland (1982-2001)

%	Jan		Feb		Mar		Apr		May		Jun	
	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB
	19a	**19b**	**19c**	**19d**	**19e**	**19f**	**19g**	**19h**	**19i**	**19j**	**19k**	**19l**
0.4%	63.6°F	65.1°F	63.0°F	66.9°F	65.9°F	74.4°F	70.5°F	82.3°F	75.9°F	85.2°F	80.2°F	88.1°F
	17.6°C	18.4°C	17.2°C	19.4°C	18.8°C	23.6°C	21.4°C	27.9°C	24.4°C	29.6°C	26.8°C	31.2°C
1%	61.2°F	63.4°F	61.3°F	65.1°F	64.4°F	71.8°F	68.6°F	78.5°F	74.7°F	83.9°F	78.7°F	87.0°F
	16.2°C	17.4°C	16.3°C	18.4°C	18.0°C	22.1°C	20.3°C	25.8°C	23.7°C	28.8°C	25.9°C	30.6°C
2%	58.8°F	61.9°F	59.1°F	62.7°F	62.9°F	69.2°F	66.9°F	75.7°F	73.5°F	82.5°F	77.8°F	86.5°F
	14.9°C	16.6°C	15.1°C	17.1°C	17.2°C	20.7°C	19.4°C	24.3°C	23.1°C	28.1°C	25.4°C	30.3°C
%	**Jul**		**Aug**		**Sep**		**Oct**		**Nov**		**Dec**	
	WB	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**	**WB**	**MCDB**
	19m	**19n**	**19o**	**19p**	**19q**	**19r**	**19s**	**19t**	**19u**	**19v**	**19w**	**19x**
0.4%	82.3°F	91.4°F	81.2°F	88.9°F	78.2°F	86.0°F	73.9°F	78.9°F	68.1°F	71.5°F	64.8°F	68.3°F
	27.9°C	33.0°C	27.3°C	31.6°C	25.7°C	30.0°C	23.3°C	26.1°C	20.1°C	21.9°C	18.2°C	20.2°C
1%	81.1°F	90.3°F	80.0°F	88.1°F	77.3°F	84.3°F	72.5°F	78.4°F	66.8°F	70.0°F	63.2°F	65.8°F
	27.3°C	32.4°C	26.7°C	31.2°C	25.2°C	29.1°C	22.5°C	25.8°C	19.3°C	21.1°C	17.3°C	18.8°C
2%	80.2°F	89.1°F	79.0°F	87.0°F	76.4°F	82.9°F	71.3°F	77.4°F	65.8°F	69.2°F	61.4°F	64.1°F
	26.8°C	31.7°C	26.1°C	30.6°C	24.7°C	28.3°C	21.8°C	25.2°C	18.8°C	20.7°C	16.3°C	17.8°C

Notes:
WB = wet bulb
MCDB = mean coincident dry bulb

Table 2.7-26— Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperature Values for Baltimore, Maryland (1982-2001)

%	Jan		Feb		Mar		Apr		May		Jun	
	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB
	19a	19b	19c	19d	19e	19f	19g	19h	19i	19j	19k	19l
0.4%	60.2°F	63.5°F	60.0°F	66.0°F	64.8°F	77.7°F	68.7°F	80.2°F	74.7°F	85.5°F	78.5°F	88.2°F
	15.7°C	17.5°C	15.6°C	18.9°C	18.2°C	25.4°C	20.4°C	26.8°C	23.7°C	29.7°C	25.8°C	31.2°C
1%	57.5°F	61.3°F	57.4°F	62.7°F	62.4°F	72.4°F	67.3°F	78.4°F	73.3°F	83.9°F	77.3°F	87.1°F
	14.2°C	16.3°C	14.1°C	17.1°C	16.9°C	22.4°C	19.6°C	25.8°C	22.9°C	28.8°C	25.2°C	30.6°C
2%	54.4°F	57.8°F	54.4°F	60.0°F	60.0°F	68.6°F	65.6°F	75.9°F	72.0°F	81.7°F	76.3°F	85.8°F
	12.4°C	14.3°C	12.4°C	15.6°C	15.6°C	20.3°C	18.7°C	24.4°C	22.2°C	27.6°C	24.6°C	29.9°C
%	Jul		Aug		Sep		Oct		Nov		Dec	
	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB
	19m	19n	19o	19p	19q	19r	19s	19t	19u	19v	19w	19x
0.4%	80.3°F	91.2°F	79.5°F	89.0°F	77.3°F	86.2°F	71.5°F	77.8°F	66.5°F	71.3°F	61.7°F	66.5°F
	26.8°C	32.9°C	26.4°C	31.7°C	25.2°C	30.1°C	21.9°C	25.4°C	19.2°C	21.8°C	16.5°C	19.2°C
1%	79.3°F	90.5°F	78.4°F	88.1°F	76.3°F	84.7°F	70.5°F	76.4°F	64.7°F	68.9°F	59.5°F	63.1°F
	26.3°C	32.5°C	25.8°C	31.2°C	24.6°C	29.3°C	21.4°C	24.7°C	18.2°C	20.5°C	15.3°C	17.3°C
2%	78.4°F	89.2°F	77.7°F	87.5°F	75.3°F	83.2°F	69.1°F	74.7°F	63.4°F	67.3°F	56.9°F	60.7°F
	25.8°C	31.8°C	25.4°C	30.8°C	24.1°C	28.4°C	20.6°C	23.7°C	17.4°C	19.6°C	13.8°C	15.9°C

Notes:
WB = wet bulb
MCDB = mean coincident dry bulb

Table 2.7-27— CCNPP Monthly and Annual Precipitation (2000-2005)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
in	1.98	1.53	3.25	3.73	3.64	2.39	4.53	2.59	3.13	2.78	2.92	2.61	35.06
mm	50.29	38.86	82.55	94.74	92.46	60.71	115.06	65.79	79.50	70.61	74.17	66.29	890.52

Table 2.7-28— CCNPP Monthly and Annual Percent Frequency of Precipitation Occurrence (2000-2005)

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
5.19	4.93	6.41	7.87	6.17	4.30	5.13	4.57	4.26	6.32	5.30	6.46	5.58

Table 2.7-29— CCNPP Hourly Rainfall Rate Distribution (2000-2005)

Rainfall Rate in/hr (mm/hr)	0.0 (0.0)	0.0-0.1 (0.0-2.5)	0.1-0.2 (2.5-5.1)	0.2-0.3 (5.1-7.6)	0.3-0.4 (7.6-10.2)	0.4-0.5 (10.2-12.7)	0.5-0.6 (12.7-15.2)	0.6-0.7 (15.2-17.8)	0.7-0.8 (17.8-20.3)	0.8-0.9 (20.3-22.9)	0.9-1.0 (22.9-25.4)	1.0-2.0 (25.4-50.8)	2.0-3.0 (50.8-76.2)	Missing Data
Number of hours	48781	2374	306	73	87	18	10	9	6	1	1	2	1	939

Table 2.7-30— CCNPP Measured Extreme Precipitation Hourly Values (2000-2005)

Rainfall Amount (in (mm))	2.2 (55.9)	1.59 (40.39)	1.57 (39.88)
Date Occurred	4/15/2003	5/21/2001	6/30/2005

Table 2.7-31— Mean Monthly and Annual Precipitation (1971-2000)

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/Washington International Airport	in	3.47	3.02	3.93	3.00	3.89	3.43	3.85	3.74	3.98	3.16	3.12	3.35	41.94
	mm	88.14	76.71	99.82	76.20	98.81	87.12	97.79	95.00	101.09	80.26	79.25	85.09	1065.28
Annapolis, MD	in	3.49	2.95	4.17	3.34	4.42	3.56	3.98	4.04	4.25	3.56	3.33	3.69	44.78
	mm	88.65	74.93	105.92	84.84	112.27	90.42	101.09	102.62	107.95	90.42	84.58	93.73	1137.41
Cambridge, MD	in	4.11	3.13	4.44	3.22	4.16	3.23	4.32	4.59	3.87	3.07	3.43	3.65	45.22
	mm	104.39	79.50	112.78	81.79	105.66	82.04	109.73	116.59	98.30	77.98	87.12	92.71	1148.59
Princess Anne, MD	in	3.83	2.94	4.24	3.23	3.41	3.13	4.27	4.84	3.92	3.31	3.16	3.14	43.42
	mm	97.28	74.68	107.70	82.04	86.61	79.50	108.46	122.94	99.57	84.07	80.26	79.76	1102.87
Patuxent River NAS	in	3.63	3.24	4.60	3.19	4.23	3.75	3.81	4.00	3.82	3.19	2.99	3.24	43.69
	mm	92.20	82.30	116.84	81.03	107.44	95.25	96.77	101.60	97.03	81.03	75.95	82.30	1109.73
Mechanicsville, MD	in	3.99	3.37	4.63	3.49	4.22	4.27	4.48	3.94	4.38	3.92	3.43	3.40	47.52
	mm	101.35	85.60	117.60	88.65	107.19	108.46	113.79	100.08	111.25	99.57	87.12	86.36	1207.01

Table 2.7-32— Mean Monthly and Annual Snowfall (1961-1990)

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/Washington International Airport	in	7.0	6.4	2.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.7	18.2
	mm	177.80	162.56	60.96	2.54	0.00	0.00	0.00	0.00	0.00	0.00	15.24	43.18	462.28
Norfolk, VA	in	2.6	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	8.1
	mm	66.04	96.52	33.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.16	205.74
Richmond, VA	in	4.3	4.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.6	12.4
	mm	109.22	121.92	35.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.62	40.64	314.96

Table 2.7-33— Monthly Mean Number of Days with Precipitation (1961-1990)

SITE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/Washington International Airport	10.2	9.4	10.0	10.5	10.9	9.2	9.6	9.4	7.2	7.4	9.0	9.2	112.0
Norfolk, VA	10.7	10.3	10.4	9.8	9.9	9.7	11.1	10.1	7.7	7.4	7.7	9.5	114.3
Richmond, VA	10.4	9.4	10.2	9.0	10.7	9.6	10.4	9.5	7.6	7.0	8.0	9.1	110.9

Table 2.7-34— Monthly Mean Number of Days with Heavy Fog (1971-2000)

SITE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/Washington International Airport	3.1	3.2	2.5	1.8	1.6	0.9	0.8	1.0	1.3	2.5	2.6	3.1	24.4
Norfolk, VA	2.1	2.5	2.0	1.5	1.8	1.0	0.5	1.0	1.2	2.1	1.9	2.1	19.7
Richmond, VA	2.7	2.1	1.7	1.6	1.8	1.5	2.0	2.4	2.9	3.3	2.3	2.8	27.1

Table 2.7-35— Monthly and Annual Average Mixing Height Values
(Page 1 of 2)

MONTH	YEAR (height in meters)										Monthly Average	Annual Average
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005		
JAN	601		593	465	645	611	468	733	756	558	603	748
FEB	736		640	637	653	607	637	476	646	561	621	
MAR	833		834	829	771	909	641	574	759	815	774	
APR	873		932	855	878	597	829	723	812	809	812	
MAY	997		729		810	701	949	633	762	878	807	
JUN	824			973	756	864	953	762	837	896	858	
JUL			889	938	858	990	1020	873	834	815	902	
AUG			1069	1010	748	808	919	789	863	880	886	
SEP			940	747	700	821	714	745	677	971	789	
OCT		721	865	634	733	801	699	718	623	708	723	
NOV		713	529	614	691	467	807	585	603	581	621	
DEC		570	502	599	565	554	564	649	597	560	573	

Table 2.7-35— Monthly and Annual Average Mixing Height Values (ft)
(Page 2 of 2)

MONTH	YEAR (height in feet)										Monthly Average	Annual Average
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005		
JAN	1971		1944	1525	2115	2003	1535	2404	2480	1830	1979	2452
FEB	2414		2099	2088	2141	1991	2090	1560	2118	1841	2038	
MAR	2731		2736	2719	2529	2983	2104	1883	2489	2673	2539	
APR	2863		3056	2804	2879	1959	2718	2372	2662	2652	2663	
MAY	3269		2390		2658	2301	3111	2077	2498	2879	2648	
JUN	2701			3192	2480	2835	3127	2500	2747	2937	2815	
JUL			2917	3075	2814	3247	3347	2862	2737	2672	2959	
AUG			3506	3312	2452	2651	3015	2589	2829	2886	2905	
SEP			3085	2450	2296	2694	2342	2445	2221	3183	2589	
OCT		2365	2836	2081	2405	2627	2294	2355	2045	2322	2370	
NOV		2340	1734	2014	2266	1533	2647	1918	1979	1904	2037	
DEC		1869	1647	1966	1853	1817	1849	2129	1959	1837	1881	

Note: Empty cells denote no valid data.

Note: Empty cells denote no valid data.

Table 2.7-36— Temperature Inversion Frequency and Persistence, Year 2000

DURATION (HOURS)	NUMBER OF OBSERVATIONS	PERCENT PROBABILITY
1	96	22.91
2	53	35.56
3	33	43.44
4	32	51.07
5	17	55.13
6	18	59.43
7	15	63.01
8	13	66.11
9	13	69.21
10	16	73.03
11	20	77.80
12	27	84.25
13	23	89.74
14	19	94.27
15	12	97.14
16	7	98.81
17	4	99.76
18	0	99.76
19	0	99.76
20	1	100.00
THE LONGEST INVERSION LASTED 20 HOURS		
OF THE LONGEST INVERSIONS NUMBER 1 STARTED 14 HOURS INTO DAY 1		
THIRD COLUMN DEFINES THE PERCENT PROBABILITY THAT IF AN INVERSION OCCURS, ITS DURATION WILL BE LESS THAN THE NUMBER OF HOURS SPECIFIED		

Table 2.7-37— Temperature Inversion Frequency and Persistence, Year 2001

DURATION (HOURS)	NUMBER OF OBSERVATIONS	PERCENT PROBABILITY
1	82	18.51
2	56	31.15
3	36	39.28
4	28	45.60
5	20	50.11
6	19	54.40
7	17	58.24
8	26	64.11
9	16	67.72
10	13	70.65
11	14	73.81
12	35	81.72
13	31	88.71
14	24	94.13
15	20	98.65
16	3	99.32
17	1	99.55
18	1	99.77
19	1	100.00
THE LONGEST INVERSION LASTED 19 HOURS		
OF THE LONGEST INVERSIONS NUMBER 1 STARTED 16 HOURS INTO DAY 10		
THIRD COLUMN DEFINES THE PERCENT PROBABILITY THAT IF AN INVERSION OCCURS, ITS DURATION WILL BE LESS THAN THE NUMBER OF HOURS SPECIFIED		

Table 2.7-38— Temperature Inversion Frequency and Persistence, Year 2002

DURATION (HOURS)	NUMBER OF OBSERVATIONS	PERCENT PROBABILITY
1	92	21.80
2	38	30.81
3	41	40.52
4	25	46.45
5	19	50.95
6	14	54.27
7	21	59.24
8	19	63.74
9	16	67.54
10	21	72.51
11	24	78.20
12	34	86.26
13	12	89.10
14	13	92.18
15	25	98.10
16	7	99.76
17	1	100.00
THE LONGEST INVERSION LASTED 17 HOURS		
OF THE LONGEST INVERSIONS NUMBER 1 STARTED 18 HOURS INTO DAY 323		
THIRD COLUMN DEFINES THE PERCENT PROBABILITY THAT IF AN INVERSION OCCURS, ITS DURATION WILL BE LESS THAN THE NUMBER OF HOURS SPECIFIED		

Table 2.7-39— Temperature Inversion Frequency and Persistence, Year 2003

DURATION (HOURS)	NUMBER OF OBSERVATIONS	PERCENT PROBABILITY
1	113	24.30
2	72	39.78
3	33	46.88
4	42	55.91
5	14	58.92
6	22	63.66
7	17	67.31
8	14	70.32
9	11	72.69
10	14	75.70
11	13	78.49
12	19	82.58
13	20	86.88
14	26	92.47
15	23	97.42
16	8	99.14
17	1	99.35
18	1	99.57
19	1	99.78
20	1	100.00
THE LONGEST INVERSION LASTED 20 HOURS		
OF THE LONGEST INVERSIONS NUMBER 1 STARTED 15 HOURS INTO DAY 76		
THIRD COLUMN DEFINES THE PERCENT PROBABILITY THAT IF AN INVERSION OCCURS, ITS DURATION WILL BE LESS THAN THE NUMBER OF HORUS SPECIFIED		

Table 2.7-40— Temperature Inversion Frequency and Persistence, Year 2004

DURATION (HOURS)	NUMBER OF OBSERVATIONS	PERCENT PROBABILITY
1	94	22.98
2	54	36.19
3	34	44.50
4	29	51.59
5	12	54.52
6	18	58.92
7	21	64.06
8	18	68.46
9	14	71.88
10	13	75.06
11	25	81.17
12	21	86.31
13	21	91.44
14	13	94.62
15	13	97.80
16	6	99.27
17	2	99.76
18	1	100.00
THE LONGEST INVERSION LASTED 18 HOURS		
OF THE LONGEST INVERSIONS NUMBER 1 STARTED 18 HOURS INTO DAY 286		
THIRD COLUMN DEFINES THE PERCENT PROBABILITY THAT IF AN INVERSION OCCURS, ITS DURATION WILL BE LESS THAN THE NUMBER OF HOURS SPECIFIED		

Table 2.7-41— Temperature Inversion Frequency and Persistence, Year 2005

DURATION (HOURS)	NUMBER OF OBSERVATIONS	PERCENT PROBABILITY
1	83	20.39
2	47	31.94
3	36	40.79
4	31	48.40
5	18	52.83
6	15	56.51
7	15	60.20
8	9	62.41
9	5	63.64
10	20	68.55
11	20	73.46
12	27	80.10
13	28	86.98
14	26	93.37
15	17	97.54
16	6	99.02
17	1	99.26
18	1	99.51
19	0	99.51
20	0	99.51
21	1	99.75
22	0	99.75
23	0	99.75
24	0	99.75
25	0	99.75
26	0	99.75
27	0	99.75
28	0	99.75
29	0	99.75
30	0	99.75
31	1	100.00
THE LONGEST INVERSION LASTED 31 HOURS		
OF THE LONGEST INVERSIONS NUMBER 1 STARTED 1 HOUR INTO DAY 12		
THIRD COLUMN DEFINES THE PERCENT PROBABILITY THAT IF AN INVERSION OCCURS, ITS DURATION WILL BE LESS THAN THE NUMBER OF HOURS SPECIFIED		

Table 2.7-42— CCNPP 33 Feet Annual JFD

(Page 1 of 8)

CC JAN00-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA   STABILITY CLASS A   CLASS FREQUENCY (PERCENT) = 11.73

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	4	5	10	8	7	1	4	2	4	17	9	8	8	5	1	1	0	94
(1)	.07	.08	.17	.13	.12	.02	.07	.03	.07	.28	.15	.13	.13	.08	.02	.02	.00	1.56
(2)	.01	.01	.02	.02	.01	.00	.01	.00	.01	.03	.02	.02	.02	.01	.00	.00	.00	.18
4-7	214	285	172	102	101	91	113	133	111	245	421	255	102	62	54	45	0	2506
(1)	3.54	4.71	2.85	1.69	1.67	1.51	1.87	2.20	1.84	4.05	6.96	4.22	1.69	1.03	.89	.74	.00	41.46
(2)	.42	.55	.33	.20	.20	.18	.22	.26	.22	.48	.82	.49	.20	.12	.10	.09	.00	4.86
8-12	423	269	130	15	24	30	127	257	74	189	422	222	149	231	254	106	0	2922
(1)	7.00	4.45	2.15	.25	.40	.50	2.10	4.25	1.22	3.13	6.98	3.67	2.46	3.82	4.20	1.75	.00	48.34
(2)	.82	.52	.25	.03	.05	.06	.25	.50	.14	.37	.82	.43	.29	.45	.49	.21	.00	5.67
13-18	38	7	24	4	0	0	3	40	2	24	26	18	29	122	148	23	0	508
(1)	.63	.12	.40	.07	.00	.00	.05	.66	.03	.40	.43	.30	.48	2.02	2.45	.38	.00	8.40
(2)	.07	.01	.05	.01	.00	.00	.01	.08	.00	.05	.05	.03	.06	.24	.29	.04	.00	.99
19-24	0	0	1	0	0	0	0	0	0	2	0	0	1	4	7	0	0	15
(1)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.03	.00	.00	.02	.07	.12	.00	.00	.25
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	.03
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	679	566	337	129	132	122	247	432	191	477	878	503	289	424	464	175	0	6045
(1)	11.23	9.36	5.57	2.13	2.18	2.02	4.09	7.15	3.16	7.89	14.52	8.32	4.78	7.01	7.68	2.89	.00	100.00
(2)	1.32	1.10	.65	.25	.26	.24	.48	.84	.37	.93	1.70	.98	.56	.82	.90	.34	.00	11.73

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-42— CCNPP 33 Feet Annual JFD
(Page 2 of 8)

CC JAN00-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 4.58
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00	.04
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	5	6	6	3	13	1	6	2	4	8	11	6	4	5	0	1	0	81
(1)	.21	.25	.25	.13	.55	.04	.25	.08	.17	.34	.47	.25	.17	.21	.00	.04	.00	3.44
(2)	.01	.01	.01	.01	.03	.00	.01	.00	.01	.02	.02	.01	.01	.01	.00	.00	.00	.16
4-7	120	170	98	89	56	56	72	72	51	57	104	101	62	45	27	21	0	1201
(1)	5.09	7.21	4.16	3.77	2.37	2.37	3.05	3.05	2.16	2.42	4.41	4.28	2.63	1.91	1.15	.89	.00	50.93
(2)	.23	.33	.19	.17	.11	.11	.14	.14	.10	.11	.20	.20	.12	.09	.05	.04	.00	2.33
8-12	142	58	72	11	7	11	41	95	21	48	89	55	44	50	89	49	0	882
(1)	6.02	2.46	3.05	.47	.30	.47	1.74	4.03	.89	2.04	3.77	2.33	1.87	2.12	3.77	2.08	.00	37.40
(2)	.28	.11	.14	.02	.01	.02	.08	.18	.04	.09	.17	.11	.09	.10	.17	.10	.00	1.71
13-18	24	5	7	7	0	0	2	15	2	5	6	3	6	40	52	13	0	187
(1)	1.02	.21	.30	.30	.00	.00	.08	.64	.08	.21	.25	.13	.25	1.70	2.21	.55	.00	7.93
(2)	.05	.01	.01	.01	.00	.00	.00	.03	.00	.01	.01	.01	.01	.08	.10	.03	.00	.36
19-24	1	0	0	0	0	0	0	1	0	0	0	0	0	0	4	0	0	6
(1)	.04	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00	.00	.17	.00	.00	.25
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.01
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	292	239	183	110	76	68	121	185	78	118	210	166	116	140	172	84	0	2358
(1)	12.38	10.14	7.76	4.66	3.22	2.88	5.13	7.85	3.31	5.00	8.91	7.04	4.92	5.94	7.29	3.56	.00	100.00
(2)	.57	.46	.36	.21	.15	.13	.23	.36	.15	.23	.41	.32	.23	.27	.33	.16	.00	4.58

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-42— CCNPP 33 Feet Annual JFD
(Page 3 of 8)

CC JAN00-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA   STABILITY CLASS C   CLASS FREQUENCY (PERCENT) = 5.03
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	6	16	11	15	20	7	10	8	6	9	18	13	13	7	2	5	0	166
(1)	.23	.62	.42	.58	.77	.27	.39	.31	.23	.35	.69	.50	.50	.27	.08	.19	.00	6.41
(2)	.01	.03	.02	.03	.04	.01	.02	.02	.01	.02	.03	.03	.03	.01	.00	.01	.00	.32
4-7	160	206	148	99	83	64	66	104	49	69	127	105	57	49	50	30	0	1466
(1)	6.18	7.95	5.71	3.82	3.20	2.47	2.55	4.02	1.89	2.66	4.90	4.05	2.20	1.89	1.93	1.16	.00	56.60
(2)	.31	.40	.29	.19	.16	.12	.13	.20	.10	.13	.25	.20	.11	.10	.10	.06	.00	2.85
8-12	120	55	70	18	8	6	14	100	21	30	81	48	43	54	79	45	0	792
(1)	4.63	2.12	2.70	.69	.31	.23	.54	3.86	.81	1.16	3.13	1.85	1.66	2.08	3.05	1.74	.00	30.58
(2)	.23	.11	.14	.03	.02	.01	.03	.19	.04	.06	.16	.09	.08	.10	.15	.09	.00	1.54
13-18	23	6	9	9	0	0	1	10	0	3	6	0	6	34	43	11	0	161
(1)	.89	.23	.35	.35	.00	.00	.04	.39	.00	.12	.23	.00	.23	1.31	1.66	.42	.00	6.22
(2)	.04	.01	.02	.02	.00	.00	.00	.02	.00	.01	.01	.00	.01	.07	.08	.02	.00	.31
19-24	0	0	1	0	0	0	0	0	0	0	0	0	0	2	1	1	0	5
(1)	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.04	.04	.00	.19
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	309	283	239	141	111	77	91	222	76	111	232	166	119	146	175	92	0	2590
(1)	11.93	10.93	9.23	5.44	4.29	2.97	3.51	8.57	2.93	4.29	8.96	6.41	4.59	5.64	6.76	3.55	.00	100.00
(2)	.60	.55	.46	.27	.22	.15	.18	.43	.15	.22	.45	.32	.23	.28	.34	.18	.00	5.03

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-42— CCNPP 33 Feet Annual JFD
(Page 4 of 8)

CC JAN00-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 34.33
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	2	3	0	0	1	2	1	0	9
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.00	.00	.01	.01	.01	.00	.05
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.02
C-3	133	151	146	133	213	156	120	127	119	150	176	105	94	94	78	92	0	2087
(1)	.75	.85	.83	.75	1.20	.88	.68	.72	.67	.85	1.00	.59	.53	.53	.44	.52	.00	11.80
(2)	.26	.29	.28	.26	.41	.30	.23	.25	.23	.29	.34	.20	.18	.18	.15	.18	.00	4.05
4-7	678	800	632	810	641	408	430	615	421	345	500	364	244	206	415	429	0	7938
(1)	3.83	4.52	3.57	4.58	3.62	2.31	2.43	3.48	2.38	1.95	2.83	2.06	1.38	1.16	2.35	2.43	.00	44.88
(2)	1.32	1.55	1.23	1.57	1.24	.79	.83	1.19	.82	.67	.97	.71	.47	.40	.81	.83	.00	15.41
8-12	779	594	821	572	136	75	128	500	185	164	371	187	131	277	657	652	0	6229
(1)	4.40	3.36	4.64	3.23	.77	.42	.72	2.83	1.05	.93	2.10	1.06	.74	1.57	3.71	3.69	.00	35.22
(2)	1.51	1.15	1.59	1.11	.26	.15	.25	.97	.36	.32	.72	.36	.25	.54	1.28	1.27	.00	12.09
13-18	244	120	272	83	3	2	8	76	22	23	32	11	22	145	215	65	0	1343
(1)	1.38	.68	1.54	.47	.02	.01	.05	.43	.12	.13	.18	.06	.12	.82	1.22	.37	.00	7.59
(2)	.47	.23	.53	.16	.01	.00	.02	.15	.04	.04	.06	.02	.04	.28	.42	.13	.00	2.61
19-24	20	5	14	5	2	0	2	2	1	0	0	0	4	13	9	1	0	78
(1)	.11	.03	.08	.03	.01	.00	.01	.01	.01	.00	.00	.00	.02	.07	.05	.01	.00	.44
(2)	.04	.01	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.02	.00	.00	.15
GT 24	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4
(1)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.02
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
ALL SPEEDS	1857	1670	1885	1603	995	641	688	1320	748	684	1082	667	495	737	1376	1240	0	17688
(1)	10.50	9.44	10.66	9.06	5.63	3.62	3.89	7.46	4.23	3.87	6.12	3.77	2.80	4.17	7.78	7.01	.00	100.00
(2)	3.60	3.24	3.66	3.11	1.93	1.24	1.34	2.56	1.45	1.33	2.10	1.29	.96	1.43	2.67	2.41	.00	34.33

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-42— CCNPP 33 Feet Annual JFD
(Page 5 of 8)

CC JAN00-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 26.80

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	3	3	0	0	1	1	4	6	7	3	11	7	3	1	2	1	0	53
(1)	.02	.02	.00	.00	.01	.01	.03	.04	.05	.02	.08	.05	.02	.01	.01	.01	.00	.38
(2)	.01	.01	.00	.00	.00	.00	.01	.01	.01	.01	.02	.01	.01	.00	.00	.00	.00	.10
C-3	168	150	113	102	127	141	176	231	378	449	424	261	216	191	227	149	0	3503
(1)	1.22	1.09	.82	.74	.92	1.02	1.27	1.67	2.74	3.25	3.07	1.89	1.56	1.38	1.64	1.08	.00	25.37
(2)	.33	.29	.22	.20	.25	.27	.34	.45	.73	.87	.82	.51	.42	.37	.44	.29	.00	6.80
4-7	362	298	181	152	153	112	157	387	765	833	1120	542	390	480	832	504	0	7268
(1)	2.62	2.16	1.31	1.10	1.11	.81	1.14	2.80	5.54	6.03	8.11	3.93	2.82	3.48	6.03	3.65	.00	52.64
(2)	.70	.58	.35	.30	.30	.22	.30	.75	1.48	1.62	2.17	1.05	.76	.93	1.61	.98	.00	14.11
8-12	175	96	75	16	17	12	21	146	192	335	781	131	114	204	302	175	0	2792
(1)	1.27	.70	.54	.12	.12	.09	.15	1.06	1.39	2.43	5.66	.95	.83	1.48	2.19	1.27	.00	20.22
(2)	.34	.19	.15	.03	.03	.02	.04	.28	.37	.65	1.52	.25	.22	.40	.59	.34	.00	5.42
13-18	11	3	5	2	0	1	5	24	10	20	34	5	8	30	17	2	0	177
(1)	.08	.02	.04	.01	.00	.01	.04	.17	.07	.14	.25	.04	.06	.22	.12	.01	.00	1.28
(2)	.02	.01	.01	.00	.00	.00	.01	.05	.02	.04	.07	.01	.02	.06	.03	.00	.00	.34
19-24	1	0	0	1	0	1	2	2	0	0	0	0	0	4	1	0	0	12
(1)	.01	.00	.00	.01	.00	.01	.01	.01	.00	.00	.00	.00	.00	.03	.01	.00	.00	.09
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.02
GT 24	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.01	.01	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
ALL SPEEDS	720	550	375	274	298	269	365	796	1352	1640	2370	946	731	910	1381	831	0	13808
(1)	5.21	3.98	2.72	1.98	2.16	1.95	2.64	5.76	9.79	11.88	17.16	6.85	5.29	6.59	10.00	6.02	.00	100.00
(2)	1.40	1.07	.73	.53	.58	.52	.71	1.54	2.62	3.18	4.60	1.84	1.42	1.77	2.68	1.61	.00	26.80

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-42— CCNPP 33 Feet Annual JFD
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CC JAN00-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 10.37
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	3	2	2	2	1	3	1	6	8	9	8	3	4	4	0	0	56
(1)	.00	.06	.04	.04	.04	.02	.06	.02	.11	.15	.17	.15	.06	.07	.07	.00	.00	1.05
(2)	.00	.01	.00	.00	.00	.00	.01	.00	.01	.02	.02	.02	.01	.01	.01	.00	.00	.11
C-3	53	55	61	39	40	58	57	127	305	519	506	290	193	202	104	59	0	2668
(1)	.99	1.03	1.14	.73	.75	1.09	1.07	2.38	5.71	9.71	9.47	5.43	3.61	3.78	1.95	1.10	.00	49.93
(2)	.10	.11	.12	.08	.08	.11	.11	.25	.59	1.01	.98	.56	.37	.39	.20	.11	.00	5.18
4-7	28	48	20	19	7	6	30	90	218	413	686	302	186	213	204	27	0	2497
(1)	.52	.90	.37	.36	.13	.11	.56	1.68	4.08	7.73	12.84	5.65	3.48	3.99	3.82	.51	.00	46.73
(2)	.05	.09	.04	.04	.01	.01	.06	.17	.42	.80	1.33	.59	.36	.41	.40	.05	.00	4.85
8-12	8	6	7	13	4	0	0	0	5	14	39	7	3	3	5	2	0	116
(1)	.15	.11	.13	.24	.07	.00	.00	.00	.09	.26	.73	.13	.06	.06	.09	.04	.00	2.17
(2)	.02	.01	.01	.03	.01	.00	.00	.00	.01	.03	.08	.01	.01	.01	.01	.00	.00	.23
13-18	3	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7
(1)	.06	.02	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	92	113	92	74	53	65	90	218	534	954	1240	607	385	422	317	88	0	5344
(1)	1.72	2.11	1.72	1.38	.99	1.22	1.68	4.08	9.99	17.85	23.20	11.36	7.20	7.90	5.93	1.65	.00	100.00
(2)	.18	.22	.18	.14	.10	.13	.17	.42	1.04	1.85	2.41	1.18	.75	.82	.62	.17	.00	10.37

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-42— CCNPP 33 Feet Annual JFD
(Page 7 of 8)

CC JAN00-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 7.17

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	1	0	2	2	1	1	3	8	5	9	14	3	0	2	2	0	53
(1)	.00	.03	.00	.05	.05	.03	.03	.08	.22	.14	.24	.38	.08	.00	.05	.05	.00	1.44
(2)	.00	.00	.00	.00	.00	.00	.00	.01	.02	.01	.02	.03	.01	.00	.00	.00	.00	.10
C-3	15	11	15	20	8	21	17	54	164	476	628	436	309	216	38	17	0	2445
(1)	.41	.30	.41	.54	.22	.57	.46	1.46	4.44	12.89	17.01	11.81	8.37	5.85	1.03	.46	.00	66.22
(2)	.03	.02	.03	.04	.02	.04	.03	.10	.32	.92	1.22	.85	.60	.42	.07	.03	.00	4.75
4-7	1	8	5	6	0	8	5	16	70	228	389	147	103	119	39	5	0	1149
(1)	.03	.22	.14	.16	.00	.22	.14	.43	1.90	6.18	10.54	3.98	2.79	3.22	1.06	.14	.00	31.12
(2)	.00	.02	.01	.01	.00	.02	.01	.03	.14	.44	.75	.29	.20	.23	.08	.01	.00	2.23
8-12	0	2	4	5	1	0	0	1	0	1	2	1	1	2	7	0	0	27
(1)	.00	.05	.11	.14	.03	.00	.00	.03	.00	.03	.05	.03	.03	.05	.19	.00	.00	.73
(2)	.00	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.05
13-18	0	0	9	3	0	0	0	0	0	0	0	0	0	0	1	0	0	13
(1)	.00	.00	.24	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.35
(2)	.00	.00	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
19-24	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	5
(1)	.00	.00	.08	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
(2)	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	16	22	36	38	11	30	23	74	242	710	1028	598	416	337	87	24	0	3692
(1)	.43	.60	.98	1.03	.30	.81	.62	2.00	6.55	19.23	27.84	16.20	11.27	9.13	2.36	.65	.00	100.00
(2)	.03	.04	.07	.07	.02	.06	.04	.14	.47	1.38	2.00	1.16	.81	.65	.17	.05	.00	7.17

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-42— CCNPP 33 Feet Annual JFD

(Page 8 of 8)

CC JAN00-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	3	7	2	4	5	3	8	10	21	18	32	30	9	6	10	4	0	172
(1)	.01	.01	.00	.01	.01	.01	.02	.02	.04	.03	.06	.06	.02	.01	.02	.01	.00	.33
(2)	.01	.01	.00	.01	.01	.01	.02	.02	.04	.03	.06	.06	.02	.01	.02	.01	.00	.33
C-3	384	394	362	320	428	385	390	551	980	1628	1772	1119	837	720	450	324	0	11044
(1)	.75	.76	.70	.62	.83	.75	.76	1.07	1.90	3.16	3.44	2.17	1.62	1.40	.87	.63	.00	21.43
(2)	.75	.76	.70	.62	.83	.75	.76	1.07	1.90	3.16	3.44	2.17	1.62	1.40	.87	.63	.00	21.43
4-7	1563	1815	1256	1277	1041	745	873	1417	1685	2190	3347	1816	1144	1174	1621	1061	0	24025
(1)	3.03	3.52	2.44	2.48	2.02	1.45	1.69	2.75	3.27	4.25	6.50	3.52	2.22	2.28	3.15	2.06	.00	46.63
(2)	3.03	3.52	2.44	2.48	2.02	1.45	1.69	2.75	3.27	4.25	6.50	3.52	2.22	2.28	3.15	2.06	.00	46.63
8-12	1647	1080	1179	650	197	134	331	1099	498	781	1785	651	485	821	1393	1029	0	13760
(1)	3.20	2.10	2.29	1.26	.38	.26	.64	2.13	.97	1.52	3.46	1.26	.94	1.59	2.70	2.00	.00	26.71
(2)	3.20	2.10	2.29	1.26	.38	.26	.64	2.13	.97	1.52	3.46	1.26	.94	1.59	2.70	2.00	.00	26.71
13-18	343	142	328	109	3	3	19	165	36	75	104	37	71	371	476	114	0	2396
(1)	.67	.28	.64	.21	.01	.01	.04	.32	.07	.15	.20	.07	.14	.72	.92	.22	.00	4.65
(2)	.67	.28	.64	.21	.01	.01	.04	.32	.07	.15	.20	.07	.14	.72	.92	.22	.00	4.65
19-24	22	5	19	8	2	1	4	5	1	2	0	0	5	23	22	2	0	121
(1)	.04	.01	.04	.02	.00	.00	.01	.01	.00	.00	.00	.00	.01	.04	.04	.00	.00	.23
(2)	.04	.01	.04	.02	.00	.00	.01	.01	.00	.00	.00	.00	.01	.04	.04	.00	.00	.23
GT 24	3	0	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	7
(1)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
ALL SPEEDS	3965	3443	3147	2369	1676	1272	1625	3247	3221	4694	7040	3653	2551	3116	3972	2534	0	51525
(1)	7.70	6.68	6.11	4.60	3.25	2.47	3.15	6.30	6.25	9.11	13.66	7.09	4.95	6.05	7.71	4.92	.00	100.00
(2)	7.70	6.68	6.11	4.60	3.25	2.47	3.15	6.30	6.25	9.11	13.66	7.09	4.95	6.05	7.71	4.92	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-43— CCNPP 33 Feet January JFD

(Page 1 of 8)

CC JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA   STABILITY CLASS A   CLASS FREQUENCY (PERCENT) = 8.04

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
(1)	.00	.29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.29	.00	.00	.00	.00	.58
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.05
4-7	5	7	5	0	0	0	0	2	0	3	15	17	11	6	4	2	0	77
(1)	1.45	2.03	1.45	.00	.00	.00	.00	.58	.00	.87	4.35	4.93	3.19	1.74	1.16	.58	.00	22.32
(2)	.12	.16	.12	.00	.00	.00	.00	.05	.00	.07	.35	.40	.26	.14	.09	.05	.00	1.79
8-12	16	12	1	0	0	1	1	1	0	6	23	13	30	40	39	21	0	204
(1)	4.64	3.48	.29	.00	.00	.29	.29	.29	.00	1.74	6.67	3.77	8.70	11.59	11.30	6.09	.00	59.13
(2)	.37	.28	.02	.00	.00	.02	.02	.02	.00	.14	.54	.30	.70	.93	.91	.49	.00	4.76
13-18	7	0	0	0	0	0	0	0	0	0	0	1	2	20	29	2	0	61
(1)	2.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.29	.58	5.80	8.41	.58	.00	17.68
(2)	.16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.47	.68	.05	.00	1.42
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.29	.00	.00	.29
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	28	20	6	0	0	1	1	3	0	9	38	31	44	66	73	25	0	345
(1)	8.12	5.80	1.74	.00	.00	.29	.29	.87	.00	2.61	11.01	8.99	12.75	19.13	21.16	7.25	.00	100.00
(2)	.65	.47	.14	.00	.00	.02	.02	.07	.00	.21	.89	.72	1.03	1.54	1.70	.58	.00	8.04

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-43— CCNPP 33 Feet January JFD
(Page 2 of 8)

CC JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA   STABILITY CLASS B   CLASS FREQUENCY (PERCENT) = 3.36
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.69	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.69
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
4-7	3	3	1	0	0	1	1	1	0	3	4	5	4	4	1	2	0	33
(1)	2.08	2.08	.69	.00	.00	.69	.69	.69	.00	2.08	2.78	3.47	2.78	2.78	.69	1.39	.00	22.92
(2)	.07	.07	.02	.00	.00	.02	.02	.02	.00	.07	.09	.12	.09	.09	.02	.05	.00	.77
8-12	11	4	0	0	0	0	2	3	0	2	13	5	7	12	11	9	0	79
(1)	7.64	2.78	.00	.00	.00	.00	1.39	2.08	.00	1.39	9.03	3.47	4.86	8.33	7.64	6.25	.00	54.86
(2)	.26	.09	.00	.00	.00	.00	.05	.07	.00	.05	.30	.12	.16	.28	.26	.21	.00	1.84
13-18	6	0	0	0	0	0	0	0	0	1	2	1	0	7	10	3	0	30
(1)	4.17	.00	.00	.00	.00	.00	.00	.00	.00	.69	1.39	.69	.00	4.86	6.94	2.08	.00	20.83
(2)	.14	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.02	.00	.16	.23	.07	.00	.70
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.69	.00	.00	.69
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	20	7	1	0	1	1	3	4	0	6	19	11	11	23	23	14	0	144
(1)	13.89	4.86	.69	.00	.69	.69	2.08	2.78	.00	4.17	13.19	7.64	7.64	15.97	15.97	9.72	.00	100.00
(2)	.47	.16	.02	.00	.02	.02	.07	.09	.00	.14	.44	.26	.26	.54	.54	.33	.00	3.36

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-43— CCNPP 33 Feet January JFD
(Page 3 of 8)

CC JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 4.20
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	1	1	0	0	0	0	0	0	1	0	1	0	0	0	0	5
(1)	.00	.56	.56	.56	.00	.00	.00	.00	.00	.00	.56	.00	.56	.00	.00	.00	.00	2.78
(2)	.00	.02	.02	.02	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.12
4-7	6	3	9	3	2	2	0	2	0	6	9	9	2	9	3	1	0	66
(1)	3.33	1.67	5.00	1.67	1.11	1.11	.00	1.11	.00	3.33	5.00	5.00	1.11	5.00	1.67	.56	.00	36.67
(2)	.14	.07	.21	.07	.05	.05	.00	.05	.00	.14	.21	.21	.05	.21	.07	.02	.00	1.54
8-12	11	14	1	0	0	0	1	4	0	4	5	4	6	8	17	7	0	82
(1)	6.11	7.78	.56	.00	.00	.00	.56	2.22	.00	2.22	2.78	2.22	3.33	4.44	9.44	3.89	.00	45.56
(2)	.26	.33	.02	.00	.00	.00	.02	.09	.00	.09	.12	.09	.14	.19	.40	.16	.00	1.91
13-18	3	0	0	0	0	0	0	0	0	0	1	0	1	6	14	1	0	26
(1)	1.67	.00	.00	.00	.00	.00	.00	.00	.00	.00	.56	.00	.56	3.33	7.78	.56	.00	14.44
(2)	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.14	.33	.02	.00	.61
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.56	.00	.00	.00	.56
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	20	18	11	4	2	2	1	6	0	10	16	13	10	24	34	9	0	180
(1)	11.11	10.00	6.11	2.22	1.11	1.11	.56	3.33	.00	5.56	8.89	7.22	5.56	13.33	18.89	5.00	.00	100.00
(2)	.47	.42	.26	.09	.05	.05	.02	.14	.00	.23	.37	.30	.23	.56	.79	.21	.00	4.20

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-43— CCNPP 33 Feet January JFD

(Page 4 of 8)

CC JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA   STABILITY CLASS D   CLASS FREQUENCY (PERCENT) = 40.68

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00	.00	.00	.00	.00	.06
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
C-3	6	14	16	14	10	6	14	9	8	15	13	8	7	6	13	6	0	165
(1)	.34	.80	.92	.80	.57	.34	.80	.52	.46	.86	.74	.46	.40	.34	.74	.34	.00	9.46
(2)	.14	.33	.37	.33	.23	.14	.33	.21	.19	.35	.30	.19	.16	.14	.30	.14	.00	3.85
4-7	68	63	26	47	27	15	27	31	28	37	37	43	31	25	72	53	0	630
(1)	3.90	3.61	1.49	2.69	1.55	.86	1.55	1.78	1.60	2.12	2.12	2.46	1.78	1.43	4.13	3.04	.00	36.10
(2)	1.59	1.47	.61	1.10	.63	.35	.63	.72	.65	.86	.86	1.00	.72	.58	1.68	1.24	.00	14.69
8-12	121	85	36	10	1	1	10	25	15	41	56	28	14	56	151	141	0	791
(1)	6.93	4.87	2.06	.57	.06	.06	.57	1.43	.86	2.35	3.21	1.60	.80	3.21	8.65	8.08	.00	45.33
(2)	2.82	1.98	.84	.23	.02	.02	.23	.58	.35	.96	1.31	.65	.33	1.31	3.52	3.29	.00	18.44
13-18	30	4	1	0	0	0	0	1	1	8	4	1	2	21	54	18	0	145
(1)	1.72	.23	.06	.00	.00	.00	.00	.06	.06	.46	.23	.06	.11	1.20	3.09	1.03	.00	8.31
(2)	.70	.09	.02	.00	.00	.00	.00	.02	.02	.19	.09	.02	.05	.49	1.26	.42	.00	3.38
19-24	3	3	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	9
(1)	.17	.17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.06	.00	.00	.00	.52
(2)	.07	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.02	.00	.00	.00	.21
GT 24	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4
(1)	.17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00	.23
(2)	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.09
ALL SPEEDS	231	169	79	71	38	22	51	66	52	102	110	80	56	110	290	218	0	1745
(1)	13.24	9.68	4.53	4.07	2.18	1.26	2.92	3.78	2.98	5.85	6.30	4.58	3.21	6.30	16.62	12.49	.00	100.00
(2)	5.38	3.94	1.84	1.66	.89	.51	1.19	1.54	1.21	2.38	2.56	1.86	1.31	2.56	6.76	5.08	.00	40.68

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-43— CCNPP 33 Feet January JFD

(Page 5 of 8)

CC JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA   STABILITY CLASS E   CLASS FREQUENCY (PERCENT) = 31.35

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	1	0	0	0	0	0	1	2	0	1	0	0	0	1	1	0	0	7
(1)	.07	.00	.00	.00	.00	.00	.07	.15	.00	.07	.00	.00	.00	.07	.07	.00	.00	.52
(2)	.02	.00	.00	.00	.00	.00	.02	.05	.00	.02	.00	.00	.00	.02	.02	.00	.00	.16
C-3	19	19	13	13	9	11	15	15	17	20	16	20	15	16	26	17	0	261
(1)	1.41	1.41	.97	.97	.67	.82	1.12	1.12	1.26	1.49	1.19	1.49	1.12	1.19	1.93	1.26	.00	19.41
(2)	.44	.44	.30	.30	.21	.26	.35	.35	.40	.47	.37	.47	.35	.37	.61	.40	.00	6.08
4-7	42	42	7	14	4	9	10	26	50	57	75	34	58	57	112	49	0	646
(1)	3.12	3.12	.52	1.04	.30	.67	.74	1.93	3.72	4.24	5.58	2.53	4.31	4.24	8.33	3.64	.00	48.03
(2)	.98	.98	.16	.33	.09	.21	.23	.61	1.17	1.33	1.75	.79	1.35	1.33	2.61	1.14	.00	15.06
8-12	11	7	4	3	0	1	2	15	13	41	131	20	7	43	67	19	0	384
(1)	.82	.52	.30	.22	.00	.07	.15	1.12	.97	3.05	9.74	1.49	.52	3.20	4.98	1.41	.00	28.55
(2)	.26	.16	.09	.07	.00	.02	.05	.35	.30	.96	3.05	.47	.16	1.00	1.56	.44	.00	8.95
13-18	1	0	0	0	0	0	0	2	2	7	11	2	0	9	9	1	0	44
(1)	.07	.00	.00	.00	.00	.00	.00	.15	.15	.52	.82	.15	.00	.67	.67	.07	.00	3.27
(2)	.02	.00	.00	.00	.00	.00	.00	.05	.05	.16	.26	.05	.00	.21	.21	.02	.00	1.03
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15	.07	.00	.00	.22
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.02	.00	.00	.07
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	74	68	24	30	13	21	28	60	82	126	233	76	80	128	216	86	0	1345
(1)	5.50	5.06	1.78	2.23	.97	1.56	2.08	4.46	6.10	9.37	17.32	5.65	5.95	9.52	16.06	6.39	.00	100.00
(2)	1.72	1.59	.56	.70	.30	.49	.65	1.40	1.91	2.94	5.43	1.77	1.86	2.98	5.03	2.00	.00	31.35

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-43— CCNPP 33 Feet January JFD

(Page 6 of 8)

CC JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 8.88

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	1	0	0	0	0	1	2	1	0	0	1	0	0	6
(1)	.00	.00	.00	.00	.26	.00	.00	.00	.00	.26	.52	.26	.00	.00	.26	.00	.00	1.57
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.05	.02	.00	.00	.02	.00	.00	.14
C-3	4	5	10	7	6	2	4	5	16	22	21	28	15	12	6	2	0	165
(1)	1.05	1.31	2.62	1.84	1.57	.52	1.05	1.31	4.20	5.77	5.51	7.35	3.94	3.15	1.57	.52	.00	43.31
(2)	.09	.12	.23	.16	.14	.05	.09	.12	.37	.51	.49	.65	.35	.28	.14	.05	.00	3.85
4-7	0	5	0	4	0	0	4	5	16	49	49	20	17	9	8	1	0	187
(1)	.00	1.31	.00	1.05	.00	.00	1.05	1.31	4.20	12.86	12.86	5.25	4.46	2.36	2.10	.26	.00	49.08
(2)	.00	.12	.00	.09	.00	.00	.09	.12	.37	1.14	1.14	.47	.40	.21	.19	.02	.00	4.36
8-12	3	4	0	0	0	0	0	0	0	5	6	1	0	0	0	0	0	19
(1)	.79	1.05	.00	.00	.00	.00	.00	.00	.00	1.31	1.57	.26	.00	.00	.00	.00	.00	4.99
(2)	.07	.09	.00	.00	.00	.00	.00	.00	.00	.12	.14	.02	.00	.00	.00	.00	.00	.44
13-18	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
(1)	.79	.26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.05
(2)	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	10	15	10	11	7	2	8	10	32	77	78	50	32	21	15	3	0	381
(1)	2.62	3.94	2.62	2.89	1.84	.52	2.10	2.62	8.40	20.21	20.47	13.12	8.40	5.51	3.94	.79	.00	100.00
(2)	.23	.35	.23	.26	.16	.05	.19	.23	.75	1.79	1.82	1.17	.75	.49	.35	.07	.00	8.88

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-43— CCNPP 33 Feet January JFD
(Page 7 of 8)

CC JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 3.50

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.67	.00	1.33	.00	.00	.00	.00	.00	.00	2.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.05	.00	.00	.00	.00	.00	.00	.07
C-3	2	1	1	6	0	3	1	7	9	10	7	5	4	5	2	0	0	63
(1)	1.33	.67	.67	4.00	.00	2.00	.67	4.67	6.00	6.67	4.67	3.33	2.67	3.33	1.33	.00	.00	42.00
(2)	.05	.02	.02	.14	.00	.07	.02	.16	.21	.23	.16	.12	.09	.12	.05	.00	.00	1.47
4-7	0	1	2	2	0	4	0	4	8	24	26	6	1	2	1	1	0	82
(1)	.00	.67	1.33	1.33	.00	2.67	.00	2.67	5.33	16.00	17.33	4.00	.67	1.33	.67	.67	.00	54.67
(2)	.00	.02	.05	.05	.00	.09	.00	.09	.19	.56	.61	.14	.02	.05	.02	.02	.00	1.91
8-12	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2
(1)	.00	.67	.00	.00	.00	.00	.00	.67	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.33
(2)	.00	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	2	3	3	8	0	7	1	12	18	34	35	11	5	7	3	1	0	150
(1)	1.33	2.00	2.00	5.33	.00	4.67	.67	8.00	12.00	22.67	23.33	7.33	3.33	4.67	2.00	.67	.00	100.00
(2)	.05	.07	.07	.19	.00	.16	.02	.28	.42	.79	.82	.26	.12	.16	.07	.02	.00	3.50

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-43— CCNPP 33 Feet January JFD
(Page 8 of 8)

CC JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	1	0	0	0	1	0	1	2	1	3	4	1	0	1	2	0	0	17
(1)	.02	.00	.00	.00	.02	.00	.02	.05	.02	.07	.09	.02	.00	.02	.05	.00	.00	.40
(2)	.02	.00	.00	.00	.02	.00	.02	.05	.02	.07	.09	.02	.00	.02	.05	.00	.00	.40
C-3	31	41	41	41	26	22	34	36	50	67	58	61	43	39	47	25	0	662
(1)	.72	.96	.96	.96	.61	.51	.79	.84	1.17	1.56	1.35	1.42	1.00	.91	1.10	.58	.00	15.43
(2)	.72	.96	.96	.96	.61	.51	.79	.84	1.17	1.56	1.35	1.42	1.00	.91	1.10	.58	.00	15.43
4-7	124	124	50	70	33	31	42	71	102	179	215	134	124	112	201	109	0	1721
(1)	2.89	2.89	1.17	1.63	.77	.72	.98	1.66	2.38	4.17	5.01	3.12	2.89	2.61	4.69	2.54	.00	40.12
(2)	2.89	2.89	1.17	1.63	.77	.72	.98	1.66	2.38	4.17	5.01	3.12	2.89	2.61	4.69	2.54	.00	40.12
8-12	173	127	42	13	1	3	16	49	28	99	234	71	64	159	285	197	0	1561
(1)	4.03	2.96	.98	.30	.02	.07	.37	1.14	.65	2.31	5.45	1.66	1.49	3.71	6.64	4.59	.00	36.39
(2)	4.03	2.96	.98	.30	.02	.07	.37	1.14	.65	2.31	5.45	1.66	1.49	3.71	6.64	4.59	.00	36.39
13-18	50	5	1	0	0	0	0	3	3	16	18	5	5	63	116	25	0	310
(1)	1.17	.12	.02	.00	.00	.00	.00	.07	.07	.37	.42	.12	.12	1.47	2.70	.58	.00	7.23
(2)	1.17	.12	.02	.00	.00	.00	.00	.07	.07	.37	.42	.12	.12	1.47	2.70	.58	.00	7.23
19-24	3	3	0	0	0	0	0	0	0	0	0	0	2	4	3	0	0	15
(1)	.07	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.09	.07	.00	.00	.35
(2)	.07	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.09	.07	.00	.00	.35
GT 24	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4
(1)	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.09
(2)	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.09
ALL SPEEDS	385	300	134	124	61	56	93	161	184	364	529	272	238	379	654	356	0	4290
(1)	8.97	6.99	3.12	2.89	1.42	1.31	2.17	3.75	4.29	8.48	12.33	6.34	5.55	8.83	15.24	8.30	.00	100.00
(2)	8.97	6.99	3.12	2.89	1.42	1.31	2.17	3.75	4.29	8.48	12.33	6.34	5.55	8.83	15.24	8.30	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-44— CCNPP 33 Feet February JFD
(Page 1 of 8)

CC FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 10.15
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4-7	11	6	6	2	3	2	3	0	5	10	14	20	10	4	4	2	0	102
(1)	2.68	1.46	1.46	.49	.73	.49	.73	.00	1.22	2.44	3.41	4.88	2.44	.98	.98	.49	.00	24.88
(2)	.27	.15	.15	.05	.07	.05	.07	.00	.12	.25	.35	.50	.25	.10	.10	.05	.00	2.52
8-12	40	21	14	0	0	1	1	15	8	17	27	13	17	24	37	7	0	242
(1)	9.76	5.12	3.41	.00	.00	.24	.24	3.66	1.95	4.15	6.59	3.17	4.15	5.85	9.02	1.71	.00	59.02
(2)	.99	.52	.35	.00	.00	.02	.02	.37	.20	.42	.67	.32	.42	.59	.92	.17	.00	5.99
13-18	8	0	0	0	0	0	0	0	0	8	6	0	2	10	27	3	0	64
(1)	1.95	.00	.00	.00	.00	.00	.00	.00	.00	1.95	1.46	.00	.49	2.44	6.59	.73	.00	15.61
(2)	.20	.00	.00	.00	.00	.00	.00	.00	.00	.20	.15	.00	.05	.25	.67	.07	.00	1.58
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.49	.00	.00	.49
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	59	27	20	2	3	3	4	15	13	35	47	33	29	38	70	12	0	410
(1)	14.39	6.59	4.88	.49	.73	.73	.98	3.66	3.17	8.54	11.46	8.05	7.07	9.27	17.07	2.93	.00	100.00
(2)	1.46	.67	.50	.05	.07	.07	.10	.37	.32	.87	1.16	.82	.72	.94	1.73	.30	.00	10.15

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-44— CCNPP 33 Feet February JFD
(Page 2 of 8)

CC FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 4.31
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	5
(1)	.57	.00	.57	.00	.57	.00	.00	.00	.57	.00	.57	.00	.00	.00	.00	.00	.00	2.87
(2)	.02	.00	.02	.00	.02	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.12
4-7	8	8	4	7	3	1	1	5	3	2	4	6	4	2	2	2	0	62
(1)	4.60	4.60	2.30	4.02	1.72	.57	.57	2.87	1.72	1.15	2.30	3.45	2.30	1.15	1.15	1.15	.00	35.63
(2)	.20	.20	.10	.17	.07	.02	.02	.12	.07	.05	.10	.15	.10	.05	.05	.05	.00	1.53
8-12	24	2	7	0	2	0	0	2	3	7	10	9	4	2	11	5	0	88
(1)	13.79	1.15	4.02	.00	1.15	.00	.00	1.15	1.72	4.02	5.75	5.17	2.30	1.15	6.32	2.87	.00	50.57
(2)	.59	.05	.17	.00	.05	.00	.00	.05	.07	.17	.25	.22	.10	.05	.27	.12	.00	2.18
13-18	1	0	0	0	0	0	0	1	0	1	1	1	2	3	8	1	0	19
(1)	.57	.00	.00	.00	.00	.00	.00	.57	.00	.57	.57	.57	1.15	1.72	4.60	.57	.00	10.92
(2)	.02	.00	.00	.00	.00	.00	.00	.02	.00	.02	.02	.02	.05	.07	.20	.02	.00	.47
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	34	10	12	7	6	1	1	8	7	10	16	16	10	7	21	8	0	174
(1)	19.54	5.75	6.90	4.02	3.45	.57	.57	4.60	4.02	5.75	9.20	9.20	5.75	4.02	12.07	4.60	.00	100.00
(2)	.84	.25	.30	.17	.15	.02	.02	.20	.17	.25	.40	.40	.25	.17	.52	.20	.00	4.31

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-44— CCNPP 33 Feet February JFD
(Page 3 of 8)

CC FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA   STABILITY CLASS C   CLASS FREQUENCY (PERCENT) = 3.94

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.63	.00	.63	.00	.63	.00	1.89
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.02	.00	.07
4-7	9	14	10	8	2	0	1	3	4	3	7	10	5	1	1	1	0	79
(1)	5.66	8.81	6.29	5.03	1.26	.00	.63	1.89	2.52	1.89	4.40	6.29	3.14	.63	.63	.63	.00	49.69
(2)	.22	.35	.25	.20	.05	.00	.02	.07	.10	.07	.17	.25	.12	.02	.02	.02	.00	1.96
8-12	10	2	10	0	0	0	2	5	1	5	8	5	0	3	7	7	0	65
(1)	6.29	1.26	6.29	.00	.00	.00	1.26	3.14	.63	3.14	5.03	3.14	.00	1.89	4.40	4.40	.00	40.88
(2)	.25	.05	.25	.00	.00	.00	.05	.12	.02	.12	.20	.12	.00	.07	.17	.17	.00	1.61
13-18	1	0	0	0	0	0	0	0	0	0	2	0	0	4	5	0	0	12
(1)	.63	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.26	.00	.00	2.52	3.14	.00	.00	7.55
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.10	.12	.00	.00	.30
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	20	16	20	8	2	0	3	8	5	8	17	16	5	9	13	9	0	159
(1)	12.58	10.06	12.58	5.03	1.26	.00	1.89	5.03	3.14	5.03	10.69	10.06	3.14	5.66	8.18	5.66	.00	100.00
(2)	.50	.40	.50	.20	.05	.00	.07	.20	.12	.20	.42	.40	.12	.22	.32	.22	.00	3.94

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-44— CCNPP 33 Feet February JFD
(Page 4 of 8)

CC FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 34.95
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.07	.00	.14
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.05
C-3	9	11	6	7	10	14	6	6	7	7	3	1	3	7	5	7	0	109
(1)	.64	.78	.42	.50	.71	.99	.42	.42	.50	.50	.21	.07	.21	.50	.35	.50	.00	7.72
(2)	.22	.27	.15	.17	.25	.35	.15	.15	.17	.17	.07	.02	.07	.17	.12	.17	.00	2.70
4-7	59	74	56	52	31	9	34	45	32	15	16	27	15	5	34	42	0	546
(1)	4.18	5.24	3.97	3.68	2.20	.64	2.41	3.19	2.27	1.06	1.13	1.91	1.06	.35	2.41	2.97	.00	38.67
(2)	1.46	1.83	1.39	1.29	.77	.22	.84	1.11	.79	.37	.40	.67	.37	.12	.84	1.04	.00	13.51
8-12	111	69	63	28	3	1	6	28	10	16	32	20	10	24	98	75	0	594
(1)	7.86	4.89	4.46	1.98	.21	.07	.42	1.98	.71	1.13	2.27	1.42	.71	1.70	6.94	5.31	.00	42.07
(2)	2.75	1.71	1.56	.69	.07	.02	.15	.69	.25	.40	.79	.50	.25	.59	2.43	1.86	.00	14.70
13-18	25	17	38	2	0	0	0	3	0	4	16	1	0	11	38	3	0	158
(1)	1.77	1.20	2.69	.14	.00	.00	.00	.21	.00	.28	1.13	.07	.00	.78	2.69	.21	.00	11.19
(2)	.62	.42	.94	.05	.00	.00	.00	.07	.00	.10	.40	.02	.00	.27	.94	.07	.00	3.91
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.14	.00	.00	.21
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.00	.00	.07
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	204	171	163	89	44	24	46	82	49	42	67	49	28	48	178	128	0	1412
(1)	14.45	12.11	11.54	6.30	3.12	1.70	3.26	5.81	3.47	2.97	4.75	3.47	1.98	3.40	12.61	9.07	.00	100.00
(2)	5.05	4.23	4.03	2.20	1.09	.59	1.14	2.03	1.21	1.04	1.66	1.21	.69	1.19	4.41	3.17	.00	34.95

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-44— CCNPP 33 Feet February JFD
(Page 5 of 8)

CC FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 32.25
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
(1)	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.15
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.05
C-3	24	25	21	15	21	15	20	15	31	31	25	15	14	14	21	14	0	321
(1)	1.84	1.92	1.61	1.15	1.61	1.15	1.53	1.15	2.38	2.38	1.92	1.15	1.07	1.07	1.61	1.07	.00	24.64
(2)	.59	.62	.52	.37	.52	.37	.50	.37	.77	.77	.62	.37	.35	.35	.52	.35	.00	7.95
4-7	67	50	18	12	18	6	9	31	73	73	55	53	34	50	87	63	0	699
(1)	5.14	3.84	1.38	.92	1.38	.46	.69	2.38	5.60	5.60	4.22	4.07	2.61	3.84	6.68	4.83	.00	53.65
(2)	1.66	1.24	.45	.30	.45	.15	.22	.77	1.81	1.81	1.36	1.31	.84	1.24	2.15	1.56	.00	17.30
8-12	39	11	3	1	0	0	0	15	15	45	45	12	15	16	27	17	0	261
(1)	2.99	.84	.23	.08	.00	.00	.00	1.15	1.15	3.45	3.45	.92	1.15	1.23	2.07	1.30	.00	20.03
(2)	.97	.27	.07	.02	.00	.00	.00	.37	.37	1.11	1.11	.30	.37	.40	.67	.42	.00	6.46
13-18	3	0	1	0	0	0	0	3	2	3	5	0	1	1	1	0	0	20
(1)	.23	.00	.08	.00	.00	.00	.00	.23	.15	.23	.38	.00	.08	.08	.08	.00	.00	1.53
(2)	.07	.00	.02	.00	.00	.00	.00	.07	.05	.07	.12	.00	.02	.02	.02	.00	.00	.50
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	133	87	43	28	39	21	29	64	121	152	130	80	65	81	136	94	0	1303
(1)	10.21	6.68	3.30	2.15	2.99	1.61	2.23	4.91	9.29	11.67	9.98	6.14	4.99	6.22	10.44	7.21	.00	100.00
(2)	3.29	2.15	1.06	.69	.97	.52	.72	1.58	3.00	3.76	3.22	1.98	1.61	2.00	3.37	2.33	.00	32.25

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-44— CCNPP 33 Feet February JFD
(Page 6 of 8)

CC FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 10.57

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	1	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0	5
(1)	.00	.23	.00	.23	.00	.00	.23	.00	.00	.00	.23	.23	.00	.00	.00	.00	.00	1.17
(2)	.00	.02	.00	.02	.00	.00	.02	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.12
C-3	7	9	5	3	10	7	5	6	24	26	25	13	10	8	12	7	0	177
(1)	1.64	2.11	1.17	.70	2.34	1.64	1.17	1.41	5.62	6.09	5.85	3.04	2.34	1.87	2.81	1.64	.00	41.45
(2)	.17	.22	.12	.07	.25	.17	.12	.15	.59	.64	.62	.32	.25	.20	.30	.17	.00	4.38
4-7	6	13	9	3	0	0	3	16	26	44	42	39	22	8	6	1	0	238
(1)	1.41	3.04	2.11	.70	.00	.00	.70	3.75	6.09	10.30	9.84	9.13	5.15	1.87	1.41	.23	.00	55.74
(2)	.15	.32	.22	.07	.00	.00	.07	.40	.64	1.09	1.04	.97	.54	.20	.15	.02	.00	5.89
8-12	2	0	0	0	0	0	0	0	2	1	2	0	0	0	0	0	0	7
(1)	.47	.00	.00	.00	.00	.00	.00	.00	.47	.23	.47	.00	.00	.00	.00	.00	.00	1.64
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.05	.02	.05	.00	.00	.00	.00	.00	.00	.17
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	15	23	14	7	10	7	9	22	52	71	70	53	32	16	18	8	0	427
(1)	3.51	5.39	3.28	1.64	2.34	1.64	2.11	5.15	12.18	16.63	16.39	12.41	7.49	3.75	4.22	1.87	.00	100.00
(2)	.37	.57	.35	.17	.25	.17	.22	.54	1.29	1.76	1.73	1.31	.79	.40	.45	.20	.00	10.57

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-44— CCNPP 33 Feet February JFD
(Page 7 of 8)

CC FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 3.84

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
(1)	.00	.65	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.65	.00	.00	1.29
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.05
C-3	0	4	5	4	3	2	1	5	10	13	12	14	5	2	0	1	0	81
(1)	.00	2.58	3.23	2.58	1.94	1.29	.65	3.23	6.45	8.39	7.74	9.03	3.23	1.29	.00	.65	.00	52.26
(2)	.00	.10	.12	.10	.07	.05	.02	.12	.25	.32	.30	.35	.12	.05	.00	.02	.00	2.00
4-7	0	3	0	3	0	0	1	1	6	11	23	18	3	2	0	0	0	71
(1)	.00	1.94	.00	1.94	.00	.00	.65	.65	3.87	7.10	14.84	11.61	1.94	1.29	.00	.00	.00	45.81
(2)	.00	.07	.00	.07	.00	.00	.02	.02	.15	.27	.57	.45	.07	.05	.00	.00	.00	1.76
8-12	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.65	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.65
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	9	5	7	3	2	2	6	16	24	35	32	8	4	1	1	0	155
(1)	.00	5.81	3.23	4.52	1.94	1.29	1.29	3.87	10.32	15.48	22.58	20.65	5.16	2.58	.65	.65	.00	100.00
(2)	.00	.22	.12	.17	.07	.05	.05	.15	.40	.59	.87	.79	.20	.10	.02	.02	.00	3.84

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-44— CCNPP 33 Feet February JFD
(Page 8 of 8)

CC FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	3	0	1	0	0	1	0	0	0	1	1	1	0	2	1	0	11
(1)	.00	.07	.00	.02	.00	.00	.02	.00	.00	.00	.02	.02	.02	.00	.05	.02	.00	.27
(2)	.00	.07	.00	.02	.00	.00	.02	.00	.00	.00	.02	.02	.02	.00	.05	.02	.00	.27
C-3	41	49	38	29	45	38	32	32	73	77	66	44	32	32	38	30	0	696
(1)	1.01	1.21	.94	.72	1.11	.94	.79	.79	1.81	1.91	1.63	1.09	.79	.79	.94	.74	.00	17.23
(2)	1.01	1.21	.94	.72	1.11	.94	.79	.79	1.81	1.91	1.63	1.09	.79	.79	.94	.74	.00	17.23
4-7	160	168	103	87	57	18	52	101	149	158	161	173	93	72	134	111	0	1797
(1)	3.96	4.16	2.55	2.15	1.41	.45	1.29	2.50	3.69	3.91	3.99	4.28	2.30	1.78	3.32	2.75	.00	44.48
(2)	3.96	4.16	2.55	2.15	1.41	.45	1.29	2.50	3.69	3.91	3.99	4.28	2.30	1.78	3.32	2.75	.00	44.48
8-12	226	106	97	29	5	2	9	65	39	91	124	59	46	69	180	111	0	1258
(1)	5.59	2.62	2.40	.72	.12	.05	.22	1.61	.97	2.25	3.07	1.46	1.14	1.71	4.46	2.75	.00	31.14
(2)	5.59	2.62	2.40	.72	.12	.05	.22	1.61	.97	2.25	3.07	1.46	1.14	1.71	4.46	2.75	.00	31.14
13-18	38	17	39	2	0	0	0	7	2	16	30	2	5	29	79	7	0	273
(1)	.94	.42	.97	.05	.00	.00	.00	.17	.05	.40	.74	.05	.12	.72	1.96	.17	.00	6.76
(2)	.94	.42	.97	.05	.00	.00	.00	.17	.05	.40	.74	.05	.12	.72	1.96	.17	.00	6.76
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.10	.00	.00	.12
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.10	.00	.00	.12
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	465	343	277	148	107	58	94	205	263	342	382	279	177	203	437	260	0	4040
(1)	11.51	8.49	6.86	3.66	2.65	1.44	2.33	5.07	6.51	8.47	9.46	6.91	4.38	5.02	10.82	6.44	.00	100.00
(2)	11.51	8.49	6.86	3.66	2.65	1.44	2.33	5.07	6.51	8.47	9.46	6.91	4.38	5.02	10.82	6.44	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-45— CCNPP 33 Feet March JFD
(Page 1 of 8)

CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 12.30
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
4-7	5	11	12	5	5	2	4	4	4	6	8	8	4	0	3	1	0	82
(1)	.94	2.06	2.25	.94	.94	.38	.75	.75	.75	1.13	1.50	1.50	.75	.00	.56	.19	.00	15.38
(2)	.12	.25	.28	.12	.12	.05	.09	.09	.09	.14	.18	.18	.09	.00	.07	.02	.00	1.89
8-12	29	26	15	1	10	4	8	38	12	22	61	23	15	28	47	13	0	352
(1)	5.44	4.88	2.81	.19	1.88	.75	1.50	7.13	2.25	4.13	11.44	4.32	2.81	5.25	8.82	2.44	.00	66.04
(2)	.67	.60	.35	.02	.23	.09	.18	.88	.28	.51	1.41	.53	.35	.65	1.08	.30	.00	8.12
13-18	4	0	1	0	0	0	1	7	1	1	6	8	3	34	25	5	0	96
(1)	.75	.00	.19	.00	.00	.00	.19	1.31	.19	.19	1.13	1.50	.56	6.38	4.69	.94	.00	18.01
(2)	.09	.00	.02	.00	.00	.00	.02	.16	.02	.02	.14	.18	.07	.78	.58	.12	.00	2.22
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.38	.00	.00	.38
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	38	37	29	6	15	6	13	49	17	29	75	39	22	62	77	19	0	533
(1)	7.13	6.94	5.44	1.13	2.81	1.13	2.44	9.19	3.19	5.44	14.07	7.32	4.13	11.63	14.45	3.56	.00	100.00
(2)	.88	.85	.67	.14	.35	.14	.30	1.13	.39	.67	1.73	.90	.51	1.43	1.78	.44	.00	12.30

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-45— CCNPP 33 Feet March JFD
(Page 2 of 8)

CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA   STABILITY CLASS B   CLASS FREQUENCY (PERCENT) = 3.42
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.68	.68	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.35
(2)	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
4-7	1	13	4	1	4	0	3	3	5	2	3	2	1	2	0	2	0	46
(1)	.68	8.78	2.70	.68	2.70	.00	2.03	2.03	3.38	1.35	2.03	1.35	.68	1.35	.00	1.35	.00	31.08
(2)	.02	.30	.09	.02	.09	.00	.07	.07	.12	.05	.07	.05	.02	.05	.00	.05	.00	1.06
8-12	9	4	8	2	3	1	5	8	2	4	7	4	3	4	9	6	0	79
(1)	6.08	2.70	5.41	1.35	2.03	.68	3.38	5.41	1.35	2.70	4.73	2.70	2.03	2.70	6.08	4.05	.00	53.38
(2)	.21	.09	.18	.05	.07	.02	.12	.18	.05	.09	.16	.09	.07	.09	.21	.14	.00	1.82
13-18	1	0	0	0	0	0	1	1	0	0	1	0	0	9	5	2	0	20
(1)	.68	.00	.00	.00	.00	.00	.68	.68	.00	.00	.68	.00	.00	6.08	3.38	1.35	.00	13.51
(2)	.02	.00	.00	.00	.00	.00	.02	.02	.00	.00	.02	.00	.00	.21	.12	.05	.00	.46
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.68	.00	.00	.68
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	11	17	12	3	7	2	10	12	7	6	11	6	4	15	15	10	0	148
(1)	7.43	11.49	8.11	2.03	4.73	1.35	6.76	8.11	4.73	4.05	7.43	4.05	2.70	10.14	10.14	6.76	.00	100.00
(2)	.25	.39	.28	.07	.16	.05	.23	.28	.16	.14	.25	.14	.09	.35	.35	.23	.00	3.42

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-45— CCNPP 33 Feet March JFD
(Page 3 of 8)

CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA   STABILITY CLASS C   CLASS FREQUENCY (PERCENT) = 4.18

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.55	.00	.00	.00	.00	.55	.00	.55	.00	.00	.00	.00	1.66
(2)	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.07
4-7	10	10	8	8	3	7	1	5	4	3	8	5	2	2	1	1	0	78
(1)	5.52	5.52	4.42	4.42	1.66	3.87	.55	2.76	2.21	1.66	4.42	2.76	1.10	1.10	.55	.55	.00	43.09
(2)	.23	.23	.18	.18	.07	.16	.02	.12	.09	.07	.18	.12	.05	.05	.02	.02	.00	1.80
8-12	10	5	5	2	1	1	2	11	3	2	4	5	4	5	11	5	0	76
(1)	5.52	2.76	2.76	1.10	.55	.55	1.10	6.08	1.66	1.10	2.21	2.76	2.21	2.76	6.08	2.76	.00	41.99
(2)	.23	.12	.12	.05	.02	.02	.05	.25	.07	.05	.09	.12	.09	.12	.25	.12	.00	1.75
13-18	2	2	1	0	0	0	0	3	0	0	0	0	0	5	7	3	0	23
(1)	1.10	1.10	.55	.00	.00	.00	.00	1.66	.00	.00	.00	.00	.00	2.76	3.87	1.66	.00	12.71
(2)	.05	.05	.02	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.12	.16	.07	.00	.53
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55	.00	.55
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	22	17	14	10	4	9	3	19	7	5	13	10	7	12	19	10	0	181
(1)	12.15	9.39	7.73	5.52	2.21	4.97	1.66	10.50	3.87	2.76	7.18	5.52	3.87	6.63	10.50	5.52	.00	100.00
(2)	.51	.39	.32	.23	.09	.21	.07	.44	.16	.12	.30	.23	.16	.28	.44	.23	.00	4.18

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-45— CCNPP 33 Feet March JFD
(Page 4 of 8)

CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA   STABILITY CLASS D   CLASS FREQUENCY (PERCENT) = 37.34
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	13	15	6	9	12	12	10	8	9	6	12	7	4	5	6	4	0	138
(1)	.80	.93	.37	.56	.74	.74	.62	.49	.56	.37	.74	.43	.25	.31	.37	.25	.00	8.53
(2)	.30	.35	.14	.21	.28	.28	.23	.18	.21	.14	.28	.16	.09	.12	.14	.09	.00	3.18
4-7	61	59	64	75	50	36	30	51	37	24	18	18	11	10	26	29	0	599
(1)	3.77	3.65	3.96	4.64	3.09	2.22	1.85	3.15	2.29	1.48	1.11	1.11	.68	.62	1.61	1.79	.00	37.02
(2)	1.41	1.36	1.48	1.73	1.15	.83	.69	1.18	.85	.55	.42	.42	.25	.23	.60	.67	.00	13.82
8-12	86	57	47	64	16	7	20	66	20	17	33	16	17	34	80	75	0	655
(1)	5.32	3.52	2.90	3.96	.99	.43	1.24	4.08	1.24	1.05	2.04	.99	1.05	2.10	4.94	4.64	.00	40.48
(2)	1.98	1.32	1.08	1.48	.37	.16	.46	1.52	.46	.39	.76	.37	.39	.78	1.85	1.73	.00	15.12
13-18	46	20	26	20	0	1	0	14	2	0	2	0	4	16	44	17	0	212
(1)	2.84	1.24	1.61	1.24	.00	.06	.00	.87	.12	.00	.12	.00	.25	.99	2.72	1.05	.00	13.10
(2)	1.06	.46	.60	.46	.00	.02	.00	.32	.05	.00	.05	.00	.09	.37	1.02	.39	.00	4.89
19-24	3	0	0	4	0	0	0	0	1	0	0	0	0	3	2	1	0	14
(1)	.19	.00	.00	.25	.00	.00	.00	.00	.06	.00	.00	.00	.00	.19	.12	.06	.00	.87
(2)	.07	.00	.00	.09	.00	.00	.00	.00	.02	.00	.00	.00	.00	.07	.05	.02	.00	.32
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	209	151	143	172	78	56	60	139	69	47	65	41	36	68	158	126	0	1618
(1)	12.92	9.33	8.84	10.63	4.82	3.46	3.71	8.59	4.26	2.90	4.02	2.53	2.22	4.20	9.77	7.79	.00	100.00
(2)	4.82	3.48	3.30	3.97	1.80	1.29	1.38	3.21	1.59	1.08	1.50	.95	.83	1.57	3.65	2.91	.00	37.34

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-45— CCNPP 33 Feet March JFD

(Page 5 of 8)

CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 29.22

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	1	0	0	0	1	1	0	0	0	2	1	0	0	0	1	0	7
(1)	.00	.08	.00	.00	.00	.08	.08	.00	.00	.00	.16	.08	.00	.00	.00	.08	.00	.55
(2)	.00	.02	.00	.00	.00	.02	.02	.00	.00	.00	.05	.02	.00	.00	.00	.02	.00	.16
C-3	22	11	12	11	12	16	12	6	17	19	25	17	9	16	17	23	0	245
(1)	1.74	.87	.95	.87	.95	1.26	.95	.47	1.34	1.50	1.97	1.34	.71	1.26	1.34	1.82	.00	19.35
(2)	.51	.25	.28	.25	.28	.37	.28	.14	.39	.44	.58	.39	.21	.37	.39	.53	.00	5.65
4-7	55	37	24	20	15	8	13	32	76	53	37	22	24	50	66	56	0	588
(1)	4.34	2.92	1.90	1.58	1.18	.63	1.03	2.53	6.00	4.19	2.92	1.74	1.90	3.95	5.21	4.42	.00	46.45
(2)	1.27	.85	.55	.46	.35	.18	.30	.74	1.75	1.22	.85	.51	.55	1.15	1.52	1.29	.00	13.57
8-12	46	11	7	4	2	4	4	26	42	54	77	13	12	23	36	28	0	389
(1)	3.63	.87	.55	.32	.16	.32	.32	2.05	3.32	4.27	6.08	1.03	.95	1.82	2.84	2.21	.00	30.73
(2)	1.06	.25	.16	.09	.05	.09	.09	.60	.97	1.25	1.78	.30	.28	.53	.83	.65	.00	8.98
13-18	5	1	0	0	0	1	2	4	4	5	5	0	0	3	5	0	0	35
(1)	.39	.08	.00	.00	.00	.08	.16	.32	.32	.39	.39	.00	.00	.24	.39	.00	.00	2.76
(2)	.12	.02	.00	.00	.00	.02	.05	.09	.09	.12	.12	.00	.00	.07	.12	.00	.00	.81
19-24	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.08	.00	.00	.00	.16
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.05
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	128	61	43	35	29	30	32	69	139	131	146	53	45	93	124	108	0	1266
(1)	10.11	4.82	3.40	2.76	2.29	2.37	2.53	5.45	10.98	10.35	11.53	4.19	3.55	7.35	9.79	8.53	.00	100.00
(2)	2.95	1.41	.99	.81	.67	.69	.74	1.59	3.21	3.02	3.37	1.22	1.04	2.15	2.86	2.49	.00	29.22

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-45— CCNPP 33 Feet March JFD
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CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA   STABILITY CLASS F   CLASS FREQUENCY (PERCENT) = 9.79

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	1	1	0	1	0	0	0	0	0	1	1	0	1	0	0	0	6
(1)	.00	.24	.24	.00	.24	.00	.00	.00	.00	.00	.24	.24	.00	.24	.00	.00	.00	1.42
(2)	.00	.02	.02	.00	.02	.00	.00	.00	.00	.00	.02	.02	.00	.02	.00	.00	.00	.14
C-3	6	11	13	2	4	6	5	1	14	19	25	13	19	12	3	2	0	155
(1)	1.42	2.59	3.07	.47	.94	1.42	1.18	.24	3.30	4.48	5.90	3.07	4.48	2.83	.71	.47	.00	36.56
(2)	.14	.25	.30	.05	.09	.14	.12	.02	.32	.44	.58	.30	.44	.28	.07	.05	.00	3.58
4-7	11	19	5	7	4	2	2	10	25	36	37	15	15	15	11	5	0	219
(1)	2.59	4.48	1.18	1.65	.94	.47	.47	2.36	5.90	8.49	8.73	3.54	3.54	3.54	2.59	1.18	.00	51.65
(2)	.25	.44	.12	.16	.09	.05	.05	.23	.58	.83	.85	.35	.35	.35	.25	.12	.00	5.05
8-12	2	1	4	10	4	0	0	0	1	4	9	3	2	0	2	2	0	44
(1)	.47	.24	.94	2.36	.94	.00	.00	.00	.24	.94	2.12	.71	.47	.00	.47	.47	.00	10.38
(2)	.05	.02	.09	.23	.09	.00	.00	.00	.02	.09	.21	.07	.05	.00	.05	.05	.00	1.02
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	19	32	23	19	13	8	7	11	40	59	72	32	36	28	16	9	0	424
(1)	4.48	7.55	5.42	4.48	3.07	1.89	1.65	2.59	9.43	13.92	16.98	7.55	8.49	6.60	3.77	2.12	.00	100.00
(2)	.44	.74	.53	.44	.30	.18	.16	.25	.92	1.36	1.66	.74	.83	.65	.37	.21	.00	9.79

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-45— CCNPP 33 Feet March JFD
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CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	2	1	0	1	1	1	0	0	0	3	2	1	1	0	1	0	14
(1)	.00	.05	.02	.00	.02	.02	.02	.00	.00	.00	.07	.05	.02	.02	.00	.02	.00	.32
(2)	.00	.05	.02	.00	.02	.02	.02	.00	.00	.00	.07	.05	.02	.02	.00	.02	.00	.32
C-3	43	40	35	28	29	36	31	17	44	65	72	46	41	40	26	31	0	624
(1)	.99	.92	.81	.65	.67	.83	.72	.39	1.02	1.50	1.66	1.06	.95	.92	.60	.72	.00	14.40
(2)	.99	.92	.81	.65	.67	.83	.72	.39	1.02	1.50	1.66	1.06	.95	.92	.60	.72	.00	14.40
4-7	143	152	120	117	81	55	54	107	156	148	127	78	67	79	107	94	0	1685
(1)	3.30	3.51	2.77	2.70	1.87	1.27	1.25	2.47	3.60	3.42	2.93	1.80	1.55	1.82	2.47	2.17	.00	38.89
(2)	3.30	3.51	2.77	2.70	1.87	1.27	1.25	2.47	3.60	3.42	2.93	1.80	1.55	1.82	2.47	2.17	.00	38.89
8-12	182	104	86	83	36	17	39	149	80	103	191	64	54	95	189	129	0	1601
(1)	4.20	2.40	1.98	1.92	.83	.39	.90	3.44	1.85	2.38	4.41	1.48	1.25	2.19	4.36	2.98	.00	36.95
(2)	4.20	2.40	1.98	1.92	.83	.39	.90	3.44	1.85	2.38	4.41	1.48	1.25	2.19	4.36	2.98	.00	36.95
13-18	58	23	28	22	0	2	4	29	7	6	14	8	7	67	87	27	0	389
(1)	1.34	.53	.65	.51	.00	.05	.09	.67	.16	.14	.32	.18	.16	1.55	2.01	.62	.00	8.98
(2)	1.34	.53	.65	.51	.00	.05	.09	.67	.16	.14	.32	.18	.16	1.55	2.01	.62	.00	8.98
19-24	3	0	0	4	0	0	0	1	1	0	0	0	0	4	5	2	0	20
(1)	.07	.00	.00	.09	.00	.00	.00	.02	.02	.00	.00	.00	.00	.09	.12	.05	.00	.46
(2)	.07	.00	.00	.09	.00	.00	.00	.02	.02	.00	.00	.00	.00	.09	.12	.05	.00	.46
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	429	321	270	254	147	111	129	303	288	322	407	198	170	286	414	284	0	4333
(1)	9.90	7.41	6.23	5.86	3.39	2.56	2.98	6.99	6.65	7.43	9.39	4.57	3.92	6.60	9.55	6.55	.00	100.00
(2)	9.90	7.41	6.23	5.86	3.39	2.56	2.98	6.99	6.65	7.43	9.39	4.57	3.92	6.60	9.55	6.55	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-45— CCNPP 33 Feet March JFD
(Page 8 of 8)

CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA   STABILITY CLASS ALL   CLASS FREQUENCY (PERCENT) = 100.00

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
	WIND DIRECTION FROM																	
CALM	0	2	1	0	1	1	1	0	0	0	3	2	1	1	0	1	0	14
(1)	.00	.05	.02	.00	.02	.02	.02	.00	.00	.00	.07	.05	.02	.02	.00	.02	.00	.32
(2)	.00	.05	.02	.00	.02	.02	.02	.00	.00	.00	.07	.05	.02	.02	.00	.02	.00	.32
C-3	43	40	35	28	29	36	31	17	44	65	72	46	41	40	26	31	0	624
(1)	.99	.92	.81	.65	.67	.83	.72	.39	1.02	1.50	1.66	1.06	.95	.92	.60	.72	.00	14.40
(2)	.99	.92	.81	.65	.67	.83	.72	.39	1.02	1.50	1.66	1.06	.95	.92	.60	.72	.00	14.40
4-7	143	152	120	117	81	55	54	107	156	148	127	78	67	79	107	94	0	1685
(1)	3.30	3.51	2.77	2.70	1.87	1.27	1.25	2.47	3.60	3.42	2.93	1.80	1.55	1.82	2.47	2.17	.00	38.89
(2)	3.30	3.51	2.77	2.70	1.87	1.27	1.25	2.47	3.60	3.42	2.93	1.80	1.55	1.82	2.47	2.17	.00	38.89
8-12	182	104	86	83	36	17	39	149	80	103	191	64	54	95	189	129	0	1601
(1)	4.20	2.40	1.98	1.92	.83	.39	.90	3.44	1.85	2.38	4.41	1.48	1.25	2.19	4.36	2.98	.00	36.95
(2)	4.20	2.40	1.98	1.92	.83	.39	.90	3.44	1.85	2.38	4.41	1.48	1.25	2.19	4.36	2.98	.00	36.95
13-18	58	23	28	22	0	2	4	29	7	6	14	8	7	67	87	27	0	389
(1)	1.34	.53	.65	.51	.00	.05	.09	.67	.16	.14	.32	.18	.16	1.55	2.01	.62	.00	8.98
(2)	1.34	.53	.65	.51	.00	.05	.09	.67	.16	.14	.32	.18	.16	1.55	2.01	.62	.00	8.98
19-24	3	0	0	4	0	0	0	1	1	0	0	0	0	4	5	2	0	20
(1)	.07	.00	.00	.09	.00	.00	.00	.02	.02	.00	.00	.00	.00	.09	.12	.05	.00	.46
(2)	.07	.00	.00	.09	.00	.00	.00	.02	.02	.00	.00	.00	.00	.09	.12	.05	.00	.46
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	429	321	270	254	147	111	129	303	288	322	407	198	170	286	414	284	0	4333
(1)	9.90	7.41	6.23	5.86	3.39	2.56	2.98	6.99	6.65	7.43	9.39	4.57	3.92	6.60	9.55	6.55	.00	100.00
(2)	9.90	7.41	6.23	5.86	3.39	2.56	2.98	6.99	6.65	7.43	9.39	4.57	3.92	6.60	9.55	6.55	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-46— CCNPP 33 Feet April JFD
(Page 1 of 8)

CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	2	1	0	1	1	1	0	0	0	3	2	1	1	0	1	0	14
(1)	.00	.05	.02	.00	.02	.02	.02	.00	.00	.00	.07	.05	.02	.02	.00	.02	.00	.32
(2)	.00	.05	.02	.00	.02	.02	.02	.00	.00	.00	.07	.05	.02	.02	.00	.02	.00	.32
C-3	43	40	35	28	29	36	31	17	44	65	72	46	41	40	26	31	0	624
(1)	.99	.92	.81	.65	.67	.83	.72	.39	1.02	1.50	1.66	1.06	.95	.92	.60	.72	.00	14.40
(2)	.99	.92	.81	.65	.67	.83	.72	.39	1.02	1.50	1.66	1.06	.95	.92	.60	.72	.00	14.40
4-7	143	152	120	117	81	55	54	107	156	148	127	78	67	79	107	94	0	1685
(1)	3.30	3.51	2.77	2.70	1.87	1.27	1.25	2.47	3.60	3.42	2.93	1.80	1.55	1.82	2.47	2.17	.00	38.89
(2)	3.30	3.51	2.77	2.70	1.87	1.27	1.25	2.47	3.60	3.42	2.93	1.80	1.55	1.82	2.47	2.17	.00	38.89
8-12	182	104	86	83	36	17	39	149	80	103	191	64	54	95	189	129	0	1601
(1)	4.20	2.40	1.98	1.92	.83	.39	.90	3.44	1.85	2.38	4.41	1.48	1.25	2.19	4.36	2.98	.00	36.95
(2)	4.20	2.40	1.98	1.92	.83	.39	.90	3.44	1.85	2.38	4.41	1.48	1.25	2.19	4.36	2.98	.00	36.95
13-18	58	23	28	22	0	2	4	29	7	6	14	8	7	67	87	27	0	389
(1)	1.34	.53	.65	.51	.00	.05	.09	.67	.16	.14	.32	.18	.16	1.55	2.01	.62	.00	8.98
(2)	1.34	.53	.65	.51	.00	.05	.09	.67	.16	.14	.32	.18	.16	1.55	2.01	.62	.00	8.98
19-24	3	0	0	4	0	0	0	1	1	0	0	0	0	4	5	2	0	20
(1)	.07	.00	.00	.09	.00	.00	.00	.02	.02	.00	.00	.00	.00	.09	.12	.05	.00	.46
(2)	.07	.00	.00	.09	.00	.00	.00	.02	.02	.00	.00	.00	.00	.09	.12	.05	.00	.46
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	429	321	270	254	147	111	129	303	288	322	407	198	170	286	414	284	0	4333
(1)	9.90	7.41	6.23	5.86	3.39	2.56	2.98	6.99	6.65	7.43	9.39	4.57	3.92	6.60	9.55	6.55	.00	100.00
(2)	9.90	7.41	6.23	5.86	3.39	2.56	2.98	6.99	6.65	7.43	9.39	4.57	3.92	6.60	9.55	6.55	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-46— CCNPP 33 Feet April JFD
(Page 2 of 8)

CC APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 4.13
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.60	.00	.00	.00	.60
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.02
4-7	6	10	8	10	6	2	1	2	0	5	1	7	3	0	0	0	0	61
(1)	3.57	5.95	4.76	5.95	3.57	1.19	.60	1.19	.00	2.98	.60	4.17	1.79	.00	.00	.00	.00	36.31
(2)	.15	.25	.20	.25	.15	.05	.02	.05	.00	.12	.02	.17	.07	.00	.00	.00	.00	1.50
8-12	8	5	11	2	0	2	4	10	3	4	10	8	2	2	4	3	0	78
(1)	4.76	2.98	6.55	1.19	.00	1.19	2.38	5.95	1.79	2.38	5.95	4.76	1.19	1.19	2.38	1.79	.00	46.43
(2)	.20	.12	.27	.05	.00	.05	.10	.25	.07	.10	.25	.20	.05	.05	.10	.07	.00	1.92
13-18	3	1	1	4	0	0	0	7	0	3	1	0	0	3	4	1	0	28
(1)	1.79	.60	.60	2.38	.00	.00	.00	4.17	.00	1.79	.60	.00	.00	1.79	2.38	.60	.00	16.67
(2)	.07	.02	.02	.10	.00	.00	.00	.17	.00	.07	.02	.00	.00	.07	.10	.02	.00	.69
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	17	16	20	16	6	4	5	19	3	12	12	15	5	6	8	4	0	168
(1)	10.12	9.52	11.90	9.52	3.57	2.38	2.98	11.31	1.79	7.14	7.14	8.93	2.98	3.57	4.76	2.38	.00	100.00
(2)	.42	.39	.49	.39	.15	.10	.12	.47	.07	.29	.29	.37	.12	.15	.20	.10	.00	4.13

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-46— CCNPP 33 Feet April JFD
(Page 3 of 8)

CC APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 5.36
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.46	.00	.46	.00	.00	.00	.00	.92
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.05
4-7	7	15	17	11	7	5	2	2	2	7	4	6	3	0	1	1	0	90
(1)	3.21	6.88	7.80	5.05	3.21	2.29	.92	.92	.92	3.21	1.83	2.75	1.38	.00	.46	.46	.00	41.28
(2)	.17	.37	.42	.27	.17	.12	.05	.05	.05	.17	.10	.15	.07	.00	.02	.02	.00	2.21
8-12	12	9	8	3	1	0	2	15	1	5	14	7	5	8	5	6	0	101
(1)	5.50	4.13	3.67	1.38	.46	.00	.92	6.88	.46	2.29	6.42	3.21	2.29	3.67	2.29	2.75	.00	46.33
(2)	.29	.22	.20	.07	.02	.00	.05	.37	.02	.12	.34	.17	.12	.20	.12	.15	.00	2.48
13-18	5	0	3	5	0	0	1	2	0	2	0	0	0	2	4	1	0	25
(1)	2.29	.00	1.38	2.29	.00	.00	.46	.92	.00	.92	.00	.00	.00	.92	1.83	.46	.00	11.47
(2)	.12	.00	.07	.12	.00	.00	.02	.05	.00	.05	.00	.00	.00	.05	.10	.02	.00	.61
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	24	24	28	19	8	5	5	19	3	14	19	13	9	10	10	8	0	218
(1)	11.01	11.01	12.84	8.72	3.67	2.29	2.29	8.72	1.38	6.42	8.72	5.96	4.13	4.59	4.59	3.67	.00	100.00
(2)	.59	.59	.69	.47	.20	.12	.12	.47	.07	.34	.47	.32	.22	.25	.25	.20	.00	5.36

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-46— CCNPP 33 Feet April JFD
(Page 4 of 8)

CC APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 39.95
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	.00	.00	.00	.00	.00	.00	.12
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05
C-3	13	9	16	15	18	16	14	10	7	5	12	4	4	7	4	7	0	161
(1)	.80	.55	.98	.92	1.11	.98	.86	.62	.43	.31	.74	.25	.25	.43	.25	.43	.00	9.91
(2)	.32	.22	.39	.37	.44	.39	.34	.25	.17	.12	.29	.10	.10	.17	.10	.17	.00	3.96
4-7	61	86	62	71	59	42	38	49	37	22	32	25	22	19	26	32	0	683
(1)	3.75	5.29	3.82	4.37	3.63	2.58	2.34	3.02	2.28	1.35	1.97	1.54	1.35	1.17	1.60	1.97	.00	42.03
(2)	1.50	2.11	1.52	1.75	1.45	1.03	.93	1.20	.91	.54	.79	.61	.54	.47	.64	.79	.00	16.79
8-12	60	56	74	59	11	8	25	67	22	19	34	20	6	25	52	61	0	599
(1)	3.69	3.45	4.55	3.63	.68	.49	1.54	4.12	1.35	1.17	2.09	1.23	.37	1.54	3.20	3.75	.00	36.86
(2)	1.47	1.38	1.82	1.45	.27	.20	.61	1.65	.54	.47	.84	.49	.15	.61	1.28	1.50	.00	14.72
13-18	17	15	40	20	0	0	0	23	4	9	1	1	2	18	18	5	0	173
(1)	1.05	.92	2.46	1.23	.00	.00	.00	1.42	.25	.55	.06	.06	.12	1.11	1.11	.31	.00	10.65
(2)	.42	.37	.98	.49	.00	.00	.00	.57	.10	.22	.02	.02	.05	.44	.44	.12	.00	4.25
19-24	0	0	4	0	0	0	0	0	0	0	0	0	0	3	0	0	0	7
(1)	.00	.00	.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.00	.00	.00	.43
(2)	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.17
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	151	166	196	165	88	66	77	149	70	55	81	50	34	72	100	105	0	1625
(1)	9.29	10.22	12.06	10.15	5.42	4.06	4.74	9.17	4.31	3.38	4.98	3.08	2.09	4.43	6.15	6.46	.00	100.00
(2)	3.71	4.08	4.82	4.06	2.16	1.62	1.89	3.66	1.72	1.35	1.99	1.23	.84	1.77	2.46	2.58	.00	39.95

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-46— CCNPP 33 Feet April JFD
(Page 5 of 8)

CC APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 25.84

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.10
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
C-3	10	26	10	9	5	4	11	10	13	21	21	11	12	12	13	6	0	194
(1)	.95	2.47	.95	.86	.48	.38	1.05	.95	1.24	2.00	2.00	1.05	1.14	1.14	1.24	.57	.00	18.46
(2)	.25	.64	.25	.22	.12	.10	.27	.25	.32	.52	.52	.27	.29	.29	.32	.15	.00	4.77
4-7	47	38	33	17	10	8	5	22	55	78	57	32	25	22	54	29	0	532
(1)	4.47	3.62	3.14	1.62	.95	.76	.48	2.09	5.23	7.42	5.42	3.04	2.38	2.09	5.14	2.76	.00	50.62
(2)	1.16	.93	.81	.42	.25	.20	.12	.54	1.35	1.92	1.40	.79	.61	.54	1.33	.71	.00	13.08
8-12	19	14	19	1	1	0	2	17	27	54	67	22	7	8	25	19	0	302
(1)	1.81	1.33	1.81	.10	.10	.00	.19	1.62	2.57	5.14	6.37	2.09	.67	.76	2.38	1.81	.00	28.73
(2)	.47	.34	.47	.02	.02	.00	.05	.42	.66	1.33	1.65	.54	.17	.20	.61	.47	.00	7.42
13-18	1	1	2	0	0	0	0	2	2	4	3	1	3	2	0	0	0	21
(1)	.10	.10	.19	.00	.00	.00	.00	.19	.19	.38	.29	.10	.29	.19	.00	.00	.00	2.00
(2)	.02	.02	.05	.00	.00	.00	.00	.05	.05	.10	.07	.02	.07	.05	.00	.00	.00	.52
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.10
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	77	79	64	27	16	12	18	51	97	157	148	67	47	45	92	54	0	1051
(1)	7.33	7.52	6.09	2.57	1.52	1.14	1.71	4.85	9.23	14.94	14.08	6.37	4.47	4.28	8.75	5.14	.00	100.00
(2)	1.89	1.94	1.57	.66	.39	.29	.44	1.25	2.38	3.86	3.64	1.65	1.16	1.11	2.26	1.33	.00	25.84

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-46— CCNPP 33 Feet April JFD
(Page 6 of 8)

CC APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 7.77
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.32	.00	.32	.00	.00	.00	.00	.00	.00	.63
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.05
C-3	2	5	5	1	3	3	5	8	11	15	12	6	8	16	1	2	0	103
(1)	.63	1.58	1.58	.32	.95	.95	1.58	2.53	3.48	4.75	3.80	1.90	2.53	5.06	.32	.63	.00	32.59
(2)	.05	.12	.12	.02	.07	.07	.12	.20	.27	.37	.29	.15	.20	.39	.02	.05	.00	2.53
4-7	6	4	4	2	1	1	2	4	20	36	61	23	5	8	6	2	0	185
(1)	1.90	1.27	1.27	.63	.32	.32	.63	1.27	6.33	11.39	19.30	7.28	1.58	2.53	1.90	.63	.00	58.54
(2)	.15	.10	.10	.05	.02	.02	.05	.10	.49	.88	1.50	.57	.12	.20	.15	.05	.00	4.55
8-12	1	1	3	3	0	0	0	0	1	2	10	0	0	1	1	0	0	23
(1)	.32	.32	.95	.95	.00	.00	.00	.00	.32	.63	3.16	.00	.00	.32	.32	.00	.00	7.28
(2)	.02	.02	.07	.07	.00	.00	.00	.00	.02	.05	.25	.00	.00	.02	.02	.00	.00	.57
13-18	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.63	.32	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.95
(2)	.00	.00	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	9	10	14	7	4	4	7	12	33	53	84	29	13	25	8	4	0	316
(1)	2.85	3.16	4.43	2.22	1.27	1.27	2.22	3.80	10.44	16.77	26.58	9.18	4.11	7.91	2.53	1.27	.00	100.00
(2)	.22	.25	.34	.17	.10	.10	.17	.29	.81	1.30	2.06	.71	.32	.61	.20	.10	.00	7.77

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-46— CCNPP 33 Feet April JFD
(Page 7 of 8)

CC APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 4.74

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.52	.00	.00	.52
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02
C-3	0	1	2	0	0	0	0	2	9	16	33	14	10	5	1	1	0	94
(1)	.00	.52	1.04	.00	.00	.00	.00	1.04	4.66	8.29	17.10	7.25	5.18	2.59	.52	.52	.00	48.70
(2)	.00	.02	.05	.00	.00	.00	.00	.05	.22	.39	.81	.34	.25	.12	.02	.02	.00	2.31
4-7	0	1	0	0	0	0	0	0	2	21	30	5	4	3	1	0	0	67
(1)	.00	.52	.00	.00	.00	.00	.00	.00	1.04	10.88	15.54	2.59	2.07	1.55	.52	.00	.00	34.72
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.05	.52	.74	.12	.10	.07	.02	.00	.00	1.65
8-12	0	0	4	5	1	0	0	0	0	0	2	1	0	1	2	0	0	16
(1)	.00	.00	2.07	2.59	.52	.00	.00	.00	.00	.00	1.04	.52	.00	.52	1.04	.00	.00	8.29
(2)	.00	.00	.10	.12	.02	.00	.00	.00	.00	.00	.05	.02	.00	.02	.05	.00	.00	.39
13-18	0	0	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	10
(1)	.00	.00	4.66	.52	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.18
(2)	.00	.00	.22	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
19-24	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	5
(1)	.00	.00	1.55	1.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.59
(2)	.00	.00	.07	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	2	18	8	1	0	0	2	11	37	65	20	14	9	5	1	0	193
(1)	.00	1.04	9.33	4.15	.52	.00	.00	1.04	5.70	19.17	33.68	10.36	7.25	4.66	2.59	.52	.00	100.00
(2)	.00	.05	.44	.20	.02	.00	.00	.05	.27	.91	1.60	.49	.34	.22	.12	.02	.00	4.74

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-46— CCNPP 33 Feet April JFD

(Page 8 of 8)

CC APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	1	0	3	1	0	0	1	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.07	.02	.00	.00	.02	.00	.00	.15
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.07	.02	.00	.00	.02	.00	.00	.15
C-3	25	41	34	25	26	23	30	30	40	57	79	35	36	41	19	16	0	557
(1)	.61	1.01	.84	.61	.64	.57	.74	.74	.98	1.40	1.94	.86	.88	1.01	.47	.39	.00	13.69
(2)	.61	1.01	.84	.61	.64	.57	.74	.74	.98	1.40	1.94	.86	.88	1.01	.47	.39	.00	13.69
4-7	131	167	134	116	87	61	50	85	116	178	199	116	65	56	88	64	0	1713
(1)	3.22	4.11	3.29	2.85	2.14	1.50	1.23	2.09	2.85	4.38	4.89	2.85	1.60	1.38	2.16	1.57	.00	42.11
(2)	3.22	4.11	3.29	2.85	2.14	1.50	1.23	2.09	2.85	4.38	4.89	2.85	1.60	1.38	2.16	1.57	.00	42.11
8-12	135	124	138	76	17	18	48	132	57	102	194	92	34	58	112	96	0	1433
(1)	3.32	3.05	3.39	1.87	.42	.44	1.18	3.24	1.40	2.51	4.77	2.26	.84	1.43	2.75	2.36	.00	35.23
(2)	3.32	3.05	3.39	1.87	.42	.44	1.18	3.24	1.40	2.51	4.77	2.26	.84	1.43	2.75	2.36	.00	35.23
13-18	32	19	63	32	0	0	1	44	6	24	9	4	12	45	38	10	0	339
(1)	.79	.47	1.55	.79	.00	.00	.02	1.08	.15	.59	.22	.10	.29	1.11	.93	.25	.00	8.33
(2)	.79	.47	1.55	.79	.00	.00	.02	1.08	.15	.59	.22	.10	.29	1.11	.93	.25	.00	8.33
19-24	0	0	7	2	0	0	0	0	0	2	0	0	0	7	2	0	0	20
(1)	.00	.00	.17	.05	.00	.00	.00	.00	.00	.05	.00	.00	.00	.17	.05	.00	.00	.49
(2)	.00	.00	.17	.05	.00	.00	.00	.00	.00	.05	.00	.00	.00	.17	.05	.00	.00	.49
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	323	351	376	251	130	102	129	291	220	363	484	248	147	207	260	186	0	4068
(1)	7.94	8.63	9.24	6.17	3.20	2.51	3.17	7.15	5.41	8.92	11.90	6.10	3.61	5.09	6.39	4.57	.00	100.00
(2)	7.94	8.63	9.24	6.17	3.20	2.51	3.17	7.15	5.41	8.92	11.90	6.10	3.61	5.09	6.39	4.57	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-47— CCNPP 33 Feet May JFD
(Page 1 of 8)

CC MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 13.37
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	1	1	0	0	0	0	1	0	0	0	1	1	0	0	0	5
(1)	.00	.00	.17	.17	.00	.00	.00	.00	.17	.00	.00	.00	.17	.17	.00	.00	.00	.84
(2)	.00	.00	.02	.02	.00	.00	.00	.00	.02	.00	.00	.00	.02	.02	.00	.00	.00	.11
4-7	20	38	27	24	17	12	20	21	12	30	46	34	5	5	2	5	0	318
(1)	3.36	6.39	4.54	4.03	2.86	2.02	3.36	3.53	2.02	5.04	7.73	5.71	.84	.84	.34	.84	.00	53.45
(2)	.45	.85	.61	.54	.38	.27	.45	.47	.27	.67	1.03	.76	.11	.11	.04	.11	.00	7.14
8-12	21	14	5	2	8	5	23	29	7	13	48	26	13	16	9	3	0	242
(1)	3.53	2.35	.84	.34	1.34	.84	3.87	4.87	1.18	2.18	8.07	4.37	2.18	2.69	1.51	.50	.00	40.67
(2)	.47	.31	.11	.04	.18	.11	.52	.65	.16	.29	1.08	.58	.29	.36	.20	.07	.00	5.44
13-18	1	0	5	0	0	0	0	6	0	4	4	2	2	2	2	1	0	29
(1)	.17	.00	.84	.00	.00	.00	.00	1.01	.00	.67	.67	.34	.34	.34	.34	.17	.00	4.87
(2)	.02	.00	.11	.00	.00	.00	.00	.13	.00	.09	.09	.04	.04	.04	.04	.02	.00	.65
19-24	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.17
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	42	52	39	27	25	17	43	56	20	47	98	62	21	24	13	9	0	595
(1)	7.06	8.74	6.55	4.54	4.20	2.86	7.23	9.41	3.36	7.90	16.47	10.42	3.53	4.03	2.18	1.51	.00	100.00
(2)	.94	1.17	.88	.61	.56	.38	.97	1.26	.45	1.06	2.20	1.39	.47	.54	.29	.20	.00	13.37

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-47— CCNPP 33 Feet May JFD
(Page 2 of 8)

CC MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 5.12

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	1	0	0	0	1	0	0	1	2	0	0	1	0	6
(1)	.00	.00	.00	.00	.44	.00	.00	.00	.44	.00	.00	.44	.88	.00	.00	.44	.00	2.63
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.02	.00	.00	.02	.04	.00	.00	.02	.00	.13
4-7	7	15	10	11	6	10	9	6	7	2	8	10	9	6	1	0	0	117
(1)	3.07	6.58	4.39	4.82	2.63	4.39	3.95	2.63	3.07	.88	3.51	4.39	3.95	2.63	.44	.00	.00	51.32
(2)	.16	.34	.22	.25	.13	.22	.20	.13	.16	.04	.18	.22	.20	.13	.02	.00	.00	2.63
8-12	10	6	3	3	1	4	8	18	4	2	11	8	6	2	4	1	0	91
(1)	4.39	2.63	1.32	1.32	.44	1.75	3.51	7.89	1.75	.88	4.82	3.51	2.63	.88	1.75	.44	.00	39.91
(2)	.22	.13	.07	.07	.02	.09	.18	.40	.09	.04	.25	.18	.13	.04	.09	.02	.00	2.04
13-18	3	0	2	1	0	0	1	1	0	0	0	0	0	4	1	1	0	14
(1)	1.32	.00	.88	.44	.00	.00	.44	.44	.00	.00	.00	.00	.00	1.75	.44	.44	.00	6.14
(2)	.07	.00	.04	.02	.00	.00	.02	.02	.00	.00	.00	.00	.00	.09	.02	.02	.00	.31
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	20	21	15	15	8	14	18	25	12	4	19	19	17	12	6	3	0	228
(1)	8.77	9.21	6.58	6.58	3.51	6.14	7.89	10.96	5.26	1.75	8.33	8.33	7.46	5.26	2.63	1.32	.00	100.00
(2)	.45	.47	.34	.34	.18	.31	.40	.56	.27	.09	.43	.43	.38	.27	.13	.07	.00	5.12

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-47— CCNPP 33 Feet May JFD

(Page 3 of 8)

CC MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA   STABILITY CLASS C   CLASS FREQUENCY (PERCENT) = 5.50

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	1	2	1	3	1	0	1	1	0	1	0	0	1	0	0	13
(1)	.41	.00	.41	.82	.41	1.22	.41	.00	.41	.41	.00	.41	.00	.00	.41	.00	.00	5.31
(2)	.02	.00	.02	.04	.02	.07	.02	.00	.02	.02	.00	.02	.00	.00	.02	.00	.00	.29
4-7	11	16	13	9	10	8	5	18	5	9	9	11	7	3	4	1	0	139
(1)	4.49	6.53	5.31	3.67	4.08	3.27	2.04	7.35	2.04	3.67	3.67	4.49	2.86	1.22	1.63	.41	.00	56.73
(2)	.25	.36	.29	.20	.22	.18	.11	.40	.11	.20	.20	.25	.16	.07	.09	.02	.00	3.12
8-12	11	3	7	4	3	2	4	16	2	0	11	5	4	2	5	3	0	82
(1)	4.49	1.22	2.86	1.63	1.22	.82	1.63	6.53	.82	.00	4.49	2.04	1.63	.82	2.04	1.22	.00	33.47
(2)	.25	.07	.16	.09	.07	.04	.09	.36	.04	.00	.25	.11	.09	.04	.11	.07	.00	1.84
13-18	0	0	2	2	0	0	0	0	0	0	1	0	2	3	0	0	0	10
(1)	.00	.00	.82	.82	.00	.00	.00	.00	.00	.00	.41	.00	.82	1.22	.00	.00	.00	4.08
(2)	.00	.00	.04	.04	.00	.00	.00	.00	.00	.00	.02	.00	.04	.07	.00	.00	.00	.22
19-24	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.41	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.41
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	23	19	24	17	14	13	10	34	8	10	21	17	13	8	10	4	0	245
(1)	9.39	7.76	9.80	6.94	5.71	5.31	4.08	13.88	3.27	4.08	8.57	6.94	5.31	3.27	4.08	1.63	.00	100.00
(2)	.52	.43	.54	.38	.31	.29	.22	.76	.18	.22	.47	.38	.29	.18	.22	.09	.00	5.50

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-47— CCNPP 33 Feet May JFD
(Page 4 of 8)

CC MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 35.50

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	10	11	14	15	27	17	20	16	17	21	12	5	6	8	7	9	0	215
(1)	.63	.70	.89	.95	1.71	1.08	1.27	1.01	1.08	1.33	.76	.32	.38	.51	.44	.57	.00	13.61
(2)	.22	.25	.31	.34	.61	.38	.45	.36	.38	.47	.27	.11	.13	.18	.16	.20	.00	4.83
4-7	50	76	86	101	85	55	59	88	63	23	47	33	23	16	21	35	0	861
(1)	3.16	4.81	5.44	6.39	5.38	3.48	3.73	5.57	3.99	1.46	2.97	2.09	1.46	1.01	1.33	2.22	.00	54.49
(2)	1.12	1.71	1.93	2.27	1.91	1.24	1.33	1.98	1.42	.52	1.06	.74	.52	.36	.47	.79	.00	19.34
8-12	44	33	52	59	21	18	29	62	15	7	33	12	11	7	19	38	0	460
(1)	2.78	2.09	3.29	3.73	1.33	1.14	1.84	3.92	.95	.44	2.09	.76	.70	.44	1.20	2.41	.00	29.11
(2)	.99	.74	1.17	1.33	.47	.40	.65	1.39	.34	.16	.74	.27	.25	.16	.43	.85	.00	10.33
13-18	2	6	15	11	0	1	0	1	0	1	0	0	2	1	0	2	0	42
(1)	.13	.38	.95	.70	.00	.06	.00	.06	.00	.06	.00	.00	.13	.06	.00	.13	.00	2.66
(2)	.04	.13	.34	.25	.00	.02	.00	.02	.00	.02	.00	.00	.04	.02	.00	.04	.00	.94
19-24	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13
(2)	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	106	126	169	186	133	91	108	167	95	52	92	50	42	32	47	84	0	1580
(1)	6.71	7.97	10.70	11.77	8.42	5.76	6.84	10.57	6.01	3.29	5.82	3.16	2.66	2.03	2.97	5.32	.00	100.00
(2)	2.38	2.83	3.80	4.18	2.99	2.04	2.43	3.75	2.13	1.17	2.07	1.12	.94	.72	1.06	1.89	.00	35.50

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

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Table 2.7-47— CCNPP 33 Feet May JFD
(Page 5 of 8)

CC MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 23.34
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.19
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.04
C-3	12	10	5	9	12	12	18	27	39	35	31	20	16	14	13	8	0	281
(1)	1.15	.96	.48	.87	1.15	1.15	1.73	2.60	3.75	3.37	2.98	1.92	1.54	1.35	1.25	.77	.00	27.05
(2)	.27	.22	.11	.20	.27	.27	.40	.61	.88	.79	.70	.45	.36	.31	.29	.18	.00	6.31
4-7	19	11	11	9	11	9	14	41	58	60	117	47	22	35	49	36	0	549
(1)	1.83	1.06	1.06	.87	1.06	.87	1.35	3.95	5.58	5.77	11.26	4.52	2.12	3.37	4.72	3.46	.00	52.84
(2)	.43	.25	.25	.20	.25	.20	.31	.92	1.30	1.35	2.63	1.06	.49	.79	1.10	.81	.00	12.33
8-12	13	8	1	0	3	3	3	8	6	19	78	11	9	10	16	9	0	197
(1)	1.25	.77	.10	.00	.29	.29	.29	.77	.58	1.83	7.51	1.06	.87	.96	1.54	.87	.00	18.96
(2)	.29	.18	.02	.00	.07	.07	.07	.18	.13	.43	1.75	.25	.20	.22	.36	.20	.00	4.43
13-18	0	0	0	0	0	0	0	0	0	1	5	0	1	3	0	0	0	10
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.48	.00	.10	.29	.00	.00	.00	.96
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.11	.00	.02	.07	.00	.00	.00	.22
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	44	29	17	18	26	24	36	76	103	115	231	79	48	62	78	53	0	1039
(1)	4.23	2.79	1.64	1.73	2.50	2.31	3.46	7.31	9.91	11.07	22.23	7.60	4.62	5.97	7.51	5.10	.00	100.00
(2)	.99	.65	.38	.40	.58	.54	.81	1.71	2.31	2.58	5.19	1.77	1.08	1.39	1.75	1.19	.00	23.34

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-47— CCNPP 33 Feet May JFD
(Page 6 of 8)

CC MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 10.54

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	1	0	0	0	0	1	1	0	0	1	0	0	0	0	4
(1)	.00	.00	.00	.21	.00	.00	.00	.00	.21	.21	.00	.00	.21	.00	.00	.00	.00	.85
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.02	.02	.00	.00	.02	.00	.00	.00	.00	.09
C-3	4	9	4	5	1	5	6	10	24	38	35	25	12	11	18	3	0	210
(1)	.85	1.92	.85	1.07	.21	1.07	1.28	2.13	5.12	8.10	7.46	5.33	2.56	2.35	3.84	.64	.00	44.78
(2)	.09	.20	.09	.11	.02	.11	.13	.22	.54	.85	.79	.56	.27	.25	.40	.07	.00	4.72
4-7	1	1	1	0	0	0	5	5	16	34	99	27	13	20	23	5	0	250
(1)	.21	.21	.21	.00	.00	.00	1.07	1.07	3.41	7.25	21.11	5.76	2.77	4.26	4.90	1.07	.00	53.30
(2)	.02	.02	.02	.00	.00	.00	.11	.11	.36	.76	2.22	.61	.29	.45	.52	.11	.00	5.62
8-12	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.64	.43	.00	.00	.00	.00	.00	1.07
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.04	.00	.00	.00	.00	.00	.11
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	5	10	5	6	1	5	11	15	41	73	137	54	26	31	41	8	0	469
(1)	1.07	2.13	1.07	1.28	.21	1.07	2.35	3.20	8.74	15.57	29.21	11.51	5.54	6.61	8.74	1.71	.00	100.00
(2)	.11	.22	.11	.13	.02	.11	.25	.34	.92	1.64	3.08	1.21	.58	.70	.92	.18	.00	10.54

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-47— CCNPP 33 Feet May JFD
(Page 7 of 8)

CC MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 6.63
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	2	0	0	1	1	1	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.68	.00	.00	.34	.34	.34	.00	.00	.00	.00	1.69
(2)	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.02	.02	.02	.00	.00	.00	.00	.11
C-3	0	0	0	1	0	2	3	5	14	42	34	23	23	17	10	2	0	176
(1)	.00	.00	.00	.34	.00	.68	1.02	1.69	4.75	14.24	11.53	7.80	7.80	5.76	3.39	.68	.00	59.66
(2)	.00	.00	.00	.02	.00	.04	.07	.11	.31	.94	.76	.52	.52	.38	.22	.04	.00	3.95
4-7	0	0	0	0	0	0	0	1	5	24	47	14	11	6	6	0	0	114
(1)	.00	.00	.00	.00	.00	.00	.00	.34	1.69	8.14	15.93	4.75	3.73	2.03	2.03	.00	.00	38.64
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.11	.54	1.06	.31	.25	.13	.13	.00	.00	2.56
8-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	0	1	0	2	3	8	19	66	82	38	35	23	16	2	0	295
(1)	.00	.00	.00	.34	.00	.68	1.02	2.71	6.44	22.37	27.80	12.88	11.86	7.80	5.42	.68	.00	100.00
(2)	.00	.00	.00	.02	.00	.04	.07	.18	.43	1.48	1.84	.85	.79	.52	.36	.04	.00	6.63

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-47— CCNPP 33 Feet May JFD
(Page 8 of 8)

CC MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	1	0	0	1	2	1	1	1	2	2	0	0	0	0	11
(1)	.00	.00	.00	.02	.00	.00	.02	.04	.02	.02	.02	.04	.04	.00	.00	.00	.00	.25
(2)	.00	.00	.00	.02	.00	.00	.02	.04	.02	.02	.02	.04	.04	.00	.00	.00	.00	.25
C-3	27	30	25	33	42	39	48	58	97	137	112	75	60	51	49	23	0	906
(1)	.61	.67	.56	.74	.94	.88	1.08	1.30	2.18	3.08	2.52	1.69	1.35	1.15	1.10	.52	.00	20.35
(2)	.61	.67	.56	.74	.94	.88	1.08	1.30	2.18	3.08	2.52	1.69	1.35	1.15	1.10	.52	.00	20.35
4-7	108	157	148	154	129	94	112	180	166	182	373	176	90	91	106	82	0	2348
(1)	2.43	3.53	3.33	3.46	2.90	2.11	2.52	4.04	3.73	4.09	8.38	3.95	2.02	2.04	2.38	1.84	.00	52.75
(2)	2.43	3.53	3.33	3.46	2.90	2.11	2.52	4.04	3.73	4.09	8.38	3.95	2.02	2.04	2.38	1.84	.00	52.75
8-12	99	64	68	68	36	32	67	133	34	41	184	64	43	37	53	54	0	1077
(1)	2.22	1.44	1.53	1.53	.81	.72	1.51	2.99	.76	.92	4.13	1.44	.97	.83	1.19	1.21	.00	24.20
(2)	2.22	1.44	1.53	1.53	.81	.72	1.51	2.99	.76	.92	4.13	1.44	.97	.83	1.19	1.21	.00	24.20
13-18	6	6	24	14	0	1	1	8	0	6	10	2	7	13	3	4	0	105
(1)	.13	.13	.54	.31	.00	.02	.02	.18	.00	.13	.22	.04	.16	.29	.07	.09	.00	2.36
(2)	.13	.13	.54	.31	.00	.02	.02	.18	.00	.13	.22	.04	.16	.29	.07	.09	.00	2.36
19-24	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
(2)	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	240	257	269	270	207	166	229	381	298	367	680	319	202	192	211	163	0	4451
(1)	5.39	5.77	6.04	6.07	4.65	3.73	5.14	8.56	6.70	8.25	15.28	7.17	4.54	4.31	4.74	3.66	.00	100.00
(2)	5.39	5.77	6.04	6.07	4.65	3.73	5.14	8.56	6.70	8.25	15.28	7.17	4.54	4.31	4.74	3.66	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-48— CCNPP 33 Feet June JFD
(Page 1 of 8)

CC JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 13.90

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	1	1	0	0	1	0	0	3	0	1	0	1	0	0	0	9
(1)	.00	.17	.17	.17	.00	.00	.17	.00	.00	.50	.00	.17	.00	.17	.00	.00	.00	1.50
(2)	.00	.02	.02	.02	.00	.00	.02	.00	.00	.07	.00	.02	.00	.02	.00	.00	.00	.21
4-7	19	34	19	19	21	17	15	19	17	32	61	43	16	6	7	3	0	348
(1)	3.17	5.67	3.17	3.17	3.50	2.83	2.50	3.17	2.83	5.33	10.17	7.17	2.67	1.00	1.17	.50	.00	58.00
(2)	.44	.79	.44	.44	.49	.39	.35	.44	.39	.74	1.41	1.00	.37	.14	.16	.07	.00	8.06
8-12	27	12	4	1	0	1	21	43	10	20	42	22	13	4	7	6	0	233
(1)	4.50	2.00	.67	.17	.00	.17	3.50	7.17	1.67	3.33	7.00	3.67	2.17	.67	1.17	1.00	.00	38.83
(2)	.63	.28	.09	.02	.00	.02	.49	1.00	.23	.46	.97	.51	.30	.09	.16	.14	.00	5.40
13-18	0	0	0	0	0	0	1	5	0	0	1	0	0	0	3	0	0	10
(1)	.00	.00	.00	.00	.00	.00	.17	.83	.00	.00	.17	.00	.00	.00	.50	.00	.00	1.67
(2)	.00	.00	.00	.00	.00	.00	.02	.12	.00	.00	.02	.00	.00	.00	.07	.00	.00	.23
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	46	47	24	21	21	18	38	67	27	55	104	66	29	11	17	9	0	600
(1)	7.67	7.83	4.00	3.50	3.50	3.00	6.33	11.17	4.50	9.17	17.33	11.00	4.83	1.83	2.83	1.50	.00	100.00
(2)	1.07	1.09	.56	.49	.49	.42	.88	1.55	.63	1.27	2.41	1.53	.67	.25	.39	.21	.00	13.90

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-48— CCNPP 33 Feet June JFD
(Page 2 of 8)

CC JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 5.54

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	1	1	2	2	0	2	0	1	4	3	2	0	0	0	0	0	19
(1)	.42	.42	.42	.84	.84	.00	.84	.00	.42	1.67	1.26	.84	.00	.00	.00	.00	.00	7.95
(2)	.02	.02	.02	.05	.05	.00	.05	.00	.02	.09	.07	.05	.00	.00	.00	.00	.00	.44
4-7	16	10	17	13	10	10	13	10	9	9	16	10	7	10	2	1	0	163
(1)	6.69	4.18	7.11	5.44	4.18	4.18	5.44	4.18	3.77	3.77	6.69	4.18	2.93	4.18	.84	.42	.00	68.20
(2)	.37	.23	.39	.30	.23	.23	.30	.23	.21	.21	.37	.23	.16	.23	.05	.02	.00	3.78
8-12	6	1	3	0	1	1	5	13	0	7	6	3	3	0	2	4	0	55
(1)	2.51	.42	1.26	.00	.42	.42	2.09	5.44	.00	2.93	2.51	1.26	1.26	.00	.84	1.67	.00	23.01
(2)	.14	.02	.07	.00	.02	.02	.12	.30	.00	.16	.14	.07	.07	.00	.05	.09	.00	1.27
13-18	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.42	.00	.00	.00	.00	.00	.00	.42	.00	.00	.84
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02	.00	.00	.05
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	23	12	21	15	13	11	20	24	10	20	25	15	10	10	5	5	0	239
(1)	9.62	5.02	8.79	6.28	5.44	4.60	8.37	10.04	4.18	8.37	10.46	6.28	4.18	4.18	2.09	2.09	.00	100.00
(2)	.53	.28	.49	.35	.30	.25	.46	.56	.23	.46	.58	.35	.23	.23	.12	.12	.00	5.54

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-48— CCNPP 33 Feet June JFD

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CC JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 6.02

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	2	2	1	1	1	0	0	1	4	0	0	1	0	0	0	13
(1)	.00	.00	.77	.77	.38	.38	.38	.00	.00	.38	1.54	.00	.00	.38	.00	.00	.00	5.00
(2)	.00	.00	.05	.05	.02	.02	.02	.00	.00	.02	.09	.00	.00	.02	.00	.00	.00	.30
4-7	23	23	17	13	13	8	7	11	9	7	18	9	8	7	12	5	0	190
(1)	8.85	8.85	6.54	5.00	5.00	3.08	2.69	4.23	3.46	2.69	6.92	3.46	3.08	2.69	4.62	1.92	.00	73.08
(2)	.53	.53	.39	.30	.30	.19	.16	.25	.21	.16	.42	.21	.19	.16	.28	.12	.00	4.40
8-12	7	2	2	2	1	1	0	12	0	5	8	2	6	2	3	0	0	53
(1)	2.69	.77	.77	.77	.38	.38	.00	4.62	.00	1.92	3.08	.77	2.31	.77	1.15	.00	.00	20.38
(2)	.16	.05	.05	.05	.02	.02	.00	.28	.00	.12	.19	.05	.14	.05	.07	.00	.00	1.23
13-18	0	0	1	0	0	0	0	1	0	0	0	0	1	0	1	0	0	4
(1)	.00	.00	.38	.00	.00	.00	.00	.38	.00	.00	.00	.00	.38	.00	.38	.00	.00	1.54
(2)	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.02	.00	.00	.09
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	30	25	22	17	15	10	8	24	9	13	30	11	15	10	16	5	0	260
(1)	11.54	9.62	8.46	6.54	5.77	3.85	3.08	9.23	3.46	5.00	11.54	4.23	5.77	3.85	6.15	1.92	.00	100.00
(2)	.69	.58	.51	.39	.35	.23	.19	.56	.21	.30	.69	.25	.35	.23	.37	.12	.00	6.02

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-48— CCNPP 33 Feet June JFD

(Page 4 of 8)

CC JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 30.58

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	12	15	14	14	16	10	13	11	10	17	23	18	15	13	5	10	0	216
(1)	.91	1.14	1.06	1.06	1.21	.76	.98	.83	.76	1.29	1.74	1.36	1.14	.98	.38	.76	.00	16.36
(2)	.28	.35	.32	.32	.37	.23	.30	.25	.23	.39	.53	.42	.35	.30	.12	.23	.00	5.00
4-7	59	69	51	75	71	35	16	66	32	50	72	38	35	30	39	31	0	769
(1)	4.47	5.23	3.86	5.68	5.38	2.65	1.21	5.00	2.42	3.79	5.45	2.88	2.65	2.27	2.95	2.35	.00	58.26
(2)	1.37	1.60	1.18	1.74	1.64	.81	.37	1.53	.74	1.16	1.67	.88	.81	.69	.90	.72	.00	17.81
8-12	39	17	39	51	21	7	1	47	3	4	25	12	4	6	25	21	0	322
(1)	2.95	1.29	2.95	3.86	1.59	.53	.08	3.56	.23	.30	1.89	.91	.30	.45	1.89	1.59	.00	24.39
(2)	.90	.39	.90	1.18	.49	.16	.02	1.09	.07	.09	.58	.28	.09	.14	.58	.49	.00	7.46
13-18	2	1	1	2	0	0	0	0	0	0	0	0	0	4	3	0	0	13
(1)	.15	.08	.08	.15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.23	.00	.00	.98
(2)	.05	.02	.02	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.07	.00	.00	.30
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	112	102	105	142	108	52	30	124	45	71	120	68	54	53	72	62	0	1320
(1)	8.48	7.73	7.95	10.76	8.18	3.94	2.27	9.39	3.41	5.38	9.09	5.15	4.09	4.02	5.45	4.70	.00	100.00
(2)	2.59	2.36	2.43	3.29	2.50	1.20	.69	2.87	1.04	1.64	2.78	1.58	1.25	1.23	1.67	1.44	.00	30.58

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-48— CCNPP 33 Feet June JFD
(Page 5 of 8)

CC JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 22.12
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	2	0	1	0	1	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.21	.00	.10	.00	.10	.00	.00	.00	.00	.42
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.02	.00	.02	.00	.00	.00	.00	.09
C-3	7	8	5	2	4	7	10	23	33	56	57	30	23	20	9	10	0	304
(1)	.73	.84	.52	.21	.42	.73	1.05	2.41	3.46	5.86	5.97	3.14	2.41	2.09	.94	1.05	.00	31.83
(2)	.16	.19	.12	.05	.09	.16	.23	.53	.76	1.30	1.32	.69	.53	.46	.21	.23	.00	7.04
4-7	16	8	8	3	5	7	8	34	59	83	120	62	29	31	33	29	0	535
(1)	1.68	.84	.84	.31	.52	.73	.84	3.56	6.18	8.69	12.57	6.49	3.04	3.25	3.46	3.04	.00	56.02
(2)	.37	.19	.19	.07	.12	.16	.19	.79	1.37	1.92	2.78	1.44	.67	.72	.76	.67	.00	12.39
8-12	5	0	0	0	1	1	0	13	6	7	55	6	1	3	5	8	0	111
(1)	.52	.00	.00	.00	.10	.10	.00	1.36	.63	.73	5.76	.63	.10	.31	.52	.84	.00	11.62
(2)	.12	.00	.00	.00	.02	.02	.00	.30	.14	.16	1.27	.14	.02	.07	.12	.19	.00	2.57
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.10
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	28	16	13	5	10	15	18	70	100	146	233	98	54	54	47	48	0	955
(1)	2.93	1.68	1.36	.52	1.05	1.57	1.88	7.33	10.47	15.29	24.40	10.26	5.65	5.65	4.92	5.03	.00	100.00
(2)	.65	.37	.30	.12	.23	.35	.42	1.62	2.32	3.38	5.40	2.27	1.25	1.25	1.09	1.11	.00	22.12

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-48— CCNPP 33 Feet June JFD
(Page 6 of 8)

CC JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 12.74

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.18	.18	.00	.00	.36	.00	.00	.00	.00	.00	.00	.00	.73
(2)	.00	.00	.00	.00	.00	.02	.02	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.09
C-3	5	0	2	1	0	3	3	12	40	82	60	31	16	13	2	6	0	276
(1)	.91	.00	.36	.18	.00	.55	.55	2.18	7.27	14.91	10.91	5.64	2.91	2.36	.36	1.09	.00	50.18
(2)	.12	.00	.05	.02	.00	.07	.07	.28	.93	1.90	1.39	.72	.37	.30	.05	.14	.00	6.39
4-7	0	0	0	0	0	0	0	6	11	38	99	52	22	20	17	2	0	267
(1)	.00	.00	.00	.00	.00	.00	.00	1.09	2.00	6.91	18.00	9.45	4.00	3.64	3.09	.36	.00	48.55
(2)	.00	.00	.00	.00	.00	.00	.00	.14	.25	.88	2.29	1.20	.51	.46	.39	.05	.00	6.18
8-12	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.36	.00	.18	.00	.00	.00	.00	.55
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.02	.00	.00	.00	.00	.07
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	5	0	2	1	0	4	4	18	51	122	161	83	39	33	19	8	0	550
(1)	.91	.00	.36	.18	.00	.73	.73	3.27	9.27	22.18	29.27	15.09	7.09	6.00	3.45	1.45	.00	100.00
(2)	.12	.00	.05	.02	.00	.09	.09	.42	1.18	2.83	3.73	1.92	.90	.76	.44	.19	.00	12.74

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-48— CCNPP 33 Feet June JFD
(Page 7 of 8)

CC JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 9.10
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	1	2	4	3	0	0	0	0	0	10
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.25	.51	1.02	.76	.00	.00	.00	.00	.00	2.54
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.09	.07	.00	.00	.00	.00	.00	.23
C-3	0	0	0	0	1	0	0	3	13	50	84	60	29	19	2	0	0	261
(1)	.00	.00	.00	.00	.25	.00	.00	.76	3.31	12.72	21.37	15.27	7.38	4.83	.51	.00	.00	66.41
(2)	.00	.00	.00	.00	.02	.00	.00	.07	.30	1.16	1.95	1.39	.67	.44	.05	.00	.00	6.05
4-7	0	0	0	0	0	0	0	0	6	18	49	27	11	7	3	0	0	121
(1)	.00	.00	.00	.00	.00	.00	.00	.00	1.53	4.58	12.47	6.87	2.80	1.78	.76	.00	.00	30.79
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.14	.42	1.14	.63	.25	.16	.07	.00	.00	2.80
8-12	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00	.00	.25
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	0	0	1	0	0	3	20	71	137	90	40	26	5	0	0	393
(1)	.00	.00	.00	.00	.25	.00	.00	.76	5.09	18.07	34.86	22.90	10.18	6.62	1.27	.00	.00	100.00
(2)	.00	.00	.00	.00	.02	.00	.00	.07	.46	1.64	3.17	2.08	.93	.60	.12	.00	.00	9.10

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-48— CCNPP 33 Feet June JFD

(Page 8 of 8)

CC JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	1	1	0	3	4	5	3	1	0	0	0	0	18
(1)	.00	.00	.00	.00	.00	.02	.02	.00	.07	.09	.12	.07	.02	.00	.00	.00	.00	.42
(2)	.00	.00	.00	.00	.00	.02	.02	.00	.07	.09	.12	.07	.02	.00	.00	.00	.00	.42
C-3	25	25	25	22	24	21	30	49	97	213	231	142	83	67	18	26	0	1098
(1)	.58	.58	.58	.51	.56	.49	.69	1.14	2.25	4.93	5.35	3.29	1.92	1.55	.42	.60	.00	25.43
(2)	.58	.58	.58	.51	.56	.49	.69	1.14	2.25	4.93	5.35	3.29	1.92	1.55	.42	.60	.00	25.43
4-7	133	144	112	123	120	77	59	146	143	237	435	241	128	111	113	71	0	2393
(1)	3.08	3.34	2.59	2.85	2.78	1.78	1.37	3.38	3.31	5.49	10.08	5.58	2.97	2.57	2.62	1.64	.00	55.43
(2)	3.08	3.34	2.59	2.85	2.78	1.78	1.37	3.38	3.31	5.49	10.08	5.58	2.97	2.57	2.62	1.64	.00	55.43
8-12	84	32	48	54	24	11	27	128	19	44	138	45	28	15	42	39	0	778
(1)	1.95	.74	1.11	1.25	.56	.25	.63	2.97	.44	1.02	3.20	1.04	.65	.35	.97	.90	.00	18.02
(2)	1.95	.74	1.11	1.25	.56	.25	.63	2.97	.44	1.02	3.20	1.04	.65	.35	.97	.90	.00	18.02
13-18	2	1	2	2	0	0	1	7	0	0	1	0	1	4	8	1	0	30
(1)	.05	.02	.05	.05	.00	.00	.02	.16	.00	.00	.02	.00	.02	.09	.19	.02	.00	.69
(2)	.05	.02	.05	.05	.00	.00	.02	.16	.00	.00	.02	.00	.02	.09	.19	.02	.00	.69
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	244	202	187	201	168	110	118	330	262	498	810	431	241	197	181	137	0	4317
(1)	5.65	4.68	4.33	4.66	3.89	2.55	2.73	7.64	6.07	11.54	18.76	9.98	5.58	4.56	4.19	3.17	.00	100.00
(2)	5.65	4.68	4.33	4.66	3.89	2.55	2.73	7.64	6.07	11.54	18.76	9.98	5.58	4.56	4.19	3.17	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-49— CCNPP 33 Feet July JFD

(Page 1 of 8)

CC JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 12.47

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	1	0	0	0	0	0	0	4	0	1	0	0	0	0	0	6
(1)	.00	.00	.19	.00	.00	.00	.00	.00	.00	.74	.00	.19	.00	.00	.00	.00	.00	1.11
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.09	.00	.02	.00	.00	.00	.00	.00	.14
4-7	26	31	22	9	10	14	24	18	17	31	59	27	8	0	5	5	0	306
(1)	4.81	5.74	4.07	1.67	1.85	2.59	4.44	3.33	3.15	5.74	10.93	5.00	1.48	.00	.93	.93	.00	56.67
(2)	.60	.72	.51	.21	.23	.32	.55	.42	.39	.72	1.36	.62	.18	.00	.12	.12	.00	7.07
8-12	39	26	20	2	0	4	20	32	6	12	16	16	9	6	10	5	0	223
(1)	7.22	4.81	3.70	.37	.00	.74	3.70	5.93	1.11	2.22	2.96	2.96	1.67	1.11	1.85	.93	.00	41.30
(2)	.90	.60	.46	.05	.00	.09	.46	.74	.14	.28	.37	.37	.21	.14	.23	.12	.00	5.15
13-18	0	0	1	1	0	0	0	2	0	0	0	0	0	0	1	0	0	5
(1)	.00	.00	.19	.19	.00	.00	.00	.37	.00	.00	.00	.00	.00	.00	.19	.00	.00	.93
(2)	.00	.00	.02	.02	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.02	.00	.00	.12
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	65	57	44	12	10	18	44	52	23	47	75	44	17	6	16	10	0	540
(1)	12.04	10.56	8.15	2.22	1.85	3.33	8.15	9.63	4.26	8.70	13.89	8.15	3.15	1.11	2.96	1.85	.00	100.00
(2)	1.50	1.32	1.02	.28	.23	.42	1.02	1.20	.53	1.09	1.73	1.02	.39	.14	.37	.23	.00	12.47

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-49— CCNPP 33 Feet July JFD

(Page 2 of 8)

CC JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA   STABILITY CLASS B   CLASS FREQUENCY (PERCENT) = 5.87

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	0	1	0	2	0	0	1	0	2	1	1	0	1	0	0	0	11
(1)	.79	.00	.39	.00	.79	.00	.00	.39	.00	.79	.39	.39	.00	.39	.00	.00	.00	4.33
(2)	.05	.00	.02	.00	.05	.00	.00	.02	.00	.05	.02	.02	.00	.02	.00	.00	.00	.25
4-7	22	29	12	18	9	6	16	10	6	8	13	23	18	2	1	1	0	194
(1)	8.66	11.42	4.72	7.09	3.54	2.36	6.30	3.94	2.36	3.15	5.12	9.06	7.09	.79	.39	.39	.00	76.38
(2)	.51	.67	.28	.42	.21	.14	.37	.23	.14	.18	.30	.53	.42	.05	.02	.02	.00	4.48
8-12	7	5	2	1	0	1	3	9	2	2	6	3	1	0	3	1	0	46
(1)	2.76	1.97	.79	.39	.00	.39	1.18	3.54	.79	.79	2.36	1.18	.39	.00	1.18	.39	.00	18.11
(2)	.16	.12	.05	.02	.00	.02	.07	.21	.05	.05	.14	.07	.02	.00	.07	.02	.00	1.06
13-18	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	3
(1)	.00	.00	.39	.00	.00	.00	.00	.00	.39	.00	.00	.00	.00	.00	.39	.00	.00	1.18
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02	.00	.00	.07
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	31	34	16	19	11	7	19	20	9	12	20	27	19	3	5	2	0	254
(1)	12.20	13.39	6.30	7.48	4.33	2.76	7.48	7.87	3.54	4.72	7.87	10.63	7.48	1.18	1.97	.79	.00	100.00
(2)	.72	.79	.37	.44	.25	.16	.44	.46	.21	.28	.46	.62	.44	.07	.12	.05	.00	5.87

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-49— CCNPP 33 Feet July JFD

(Page 3 of 8)

CC JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 6.74

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	3	1	4	5	1	3	2	1	2	2	3	1	1	0	3	0	32
(1)	.00	1.03	.34	1.37	1.71	.34	1.03	.68	.34	.68	.68	1.03	.34	.34	.00	1.03	.00	10.96
(2)	.00	.07	.02	.09	.12	.02	.07	.05	.02	.05	.05	.07	.02	.02	.00	.07	.00	.74
4-7	26	36	19	13	16	9	12	11	5	8	24	20	8	4	4	5	0	220
(1)	8.90	12.33	6.51	4.45	5.48	3.08	4.11	3.77	1.71	2.74	8.22	6.85	2.74	1.37	1.37	1.71	.00	75.34
(2)	.60	.83	.44	.30	.37	.21	.28	.25	.12	.18	.55	.46	.18	.09	.09	.12	.00	5.08
8-12	13	0	4	1	0	1	0	7	1	1	5	3	1	1	1	1	0	40
(1)	4.45	.00	1.37	.34	.00	.34	.00	2.40	.34	.34	1.71	1.03	.34	.34	.34	.34	.00	13.70
(2)	.30	.00	.09	.02	.00	.02	.00	.16	.02	.02	.12	.07	.02	.02	.02	.02	.00	.92
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	39	39	24	18	21	11	15	20	7	11	31	26	10	6	5	9	0	292
(1)	13.36	13.36	8.22	6.16	7.19	3.77	5.14	6.85	2.40	3.77	10.62	8.90	3.42	2.05	1.71	3.08	.00	100.00
(2)	.90	.90	.55	.42	.48	.25	.35	.46	.16	.25	.72	.60	.23	.14	.12	.21	.00	6.74

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-49— CCNPP 33 Feet July JFD
(Page 4 of 8)

CC JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 30.65
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	14	11	17	11	20	18	7	18	12	21	31	8	15	9	6	6	0	224
(1)	1.06	.83	1.28	.83	1.51	1.36	.53	1.36	.90	1.58	2.34	.60	1.13	.68	.45	.45	.00	16.88
(2)	.32	.25	.39	.25	.46	.42	.16	.42	.28	.48	.72	.18	.35	.21	.14	.14	.00	5.17
4-7	67	71	64	78	74	45	39	59	26	33	71	63	25	13	24	20	0	772
(1)	5.05	5.35	4.82	5.88	5.58	3.39	2.94	4.45	1.96	2.49	5.35	4.75	1.88	.98	1.81	1.51	.00	58.18
(2)	1.55	1.64	1.48	1.80	1.71	1.04	.90	1.36	.60	.76	1.64	1.45	.58	.30	.55	.46	.00	17.83
8-12	21	18	80	79	25	5	1	23	5	1	17	10	2	2	6	5	0	300
(1)	1.58	1.36	6.03	5.95	1.88	.38	.08	1.73	.38	.08	1.28	.75	.15	.15	.45	.38	.00	22.61
(2)	.48	.42	1.85	1.82	.58	.12	.02	.53	.12	.02	.39	.23	.05	.05	.14	.12	.00	6.93
13-18	2	6	14	4	1	0	0	0	0	0	2	0	0	1	1	0	0	31
(1)	.15	.45	1.06	.30	.08	.00	.00	.00	.00	.00	.15	.00	.00	.08	.08	.00	.00	2.34
(2)	.05	.14	.32	.09	.02	.00	.00	.00	.00	.00	.05	.00	.00	.02	.02	.00	.00	.72
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	104	106	175	172	120	68	47	100	43	55	121	81	42	25	37	31	0	1327
(1)	7.84	7.99	13.19	12.96	9.04	5.12	3.54	7.54	3.24	4.14	9.12	6.10	3.17	1.88	2.79	2.34	.00	100.00
(2)	2.40	2.45	4.04	3.97	2.77	1.57	1.09	2.31	.99	1.27	2.79	1.87	.97	.58	.85	.72	.00	30.65

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-49— CCNPP 33 Feet July JFD
(Page 5 of 8)

CC JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 23.30
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	1	1	1	4	2	0	0	0	0	0	9
(1)	.00	.00	.00	.00	.00	.00	.00	.10	.10	.10	.40	.20	.00	.00	.00	.00	.00	.89
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.02	.02	.09	.05	.00	.00	.00	.00	.00	.21
C-3	9	7	1	3	8	7	15	33	59	57	72	44	29	17	20	5	0	386
(1)	.89	.69	.10	.30	.79	.69	1.49	3.27	5.85	5.65	7.14	4.36	2.87	1.68	1.98	.50	.00	38.26
(2)	.21	.16	.02	.07	.18	.16	.35	.76	1.36	1.32	1.66	1.02	.67	.39	.46	.12	.00	8.91
4-7	14	10	4	6	6	9	10	36	71	67	131	77	14	16	22	23	0	516
(1)	1.39	.99	.40	.59	.59	.89	.99	3.57	7.04	6.64	12.98	7.63	1.39	1.59	2.18	2.28	.00	51.14
(2)	.32	.23	.09	.14	.14	.21	.23	.83	1.64	1.55	3.03	1.78	.32	.37	.51	.53	.00	11.92
8-12	2	5	3	3	5	3	4	3	7	9	40	1	1	3	2	5	0	96
(1)	.20	.50	.30	.30	.50	.30	.40	.30	.69	.89	3.96	.10	.10	.30	.20	.50	.00	9.51
(2)	.05	.12	.07	.07	.12	.07	.09	.07	.16	.21	.92	.02	.02	.07	.05	.12	.00	2.22
13-18	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.10	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20
(2)	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	26	22	8	13	19	19	29	73	138	134	247	124	44	36	44	33	0	1009
(1)	2.58	2.18	.79	1.29	1.88	1.88	2.87	7.23	13.68	13.28	24.48	12.29	4.36	3.57	4.36	3.27	.00	100.00
(2)	.60	.51	.18	.30	.44	.44	.67	1.69	3.19	3.09	5.70	2.86	1.02	.83	1.02	.76	.00	23.30

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-49— CCNPP 33 Feet July JFD
(Page 6 of 8)

CC JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 11.20
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.21	.21	.00	.00	.00	.00	.00	.00	.00	.00	.41
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.05
C-3	5	4	2	1	0	3	4	8	37	88	79	46	28	16	13	4	0	338
(1)	1.03	.82	.41	.21	.00	.62	.82	1.65	7.63	18.14	16.29	9.48	5.77	3.30	2.68	.82	.00	69.69
(2)	.12	.09	.05	.02	.00	.07	.09	.18	.85	2.03	1.82	1.06	.65	.37	.30	.09	.00	7.81
4-7	0	0	0	0	1	0	1	5	7	11	57	30	9	14	10	0	0	145
(1)	.00	.00	.00	.00	.21	.00	.21	1.03	1.44	2.27	11.75	6.19	1.86	2.89	2.06	.00	.00	29.90
(2)	.00	.00	.00	.00	.02	.00	.02	.12	.16	.25	1.32	.69	.21	.32	.23	.00	.00	3.35
8-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	5	4	2	1	1	3	5	14	45	99	136	76	37	30	23	4	0	485
(1)	1.03	.82	.41	.21	.21	.62	1.03	2.89	9.28	20.41	28.04	15.67	7.63	6.19	4.74	.82	.00	100.00
(2)	.12	.09	.05	.02	.02	.07	.12	.32	1.04	2.29	3.14	1.76	.85	.69	.53	.09	.00	11.20

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-49— CCNPP 33 Feet July JFD
(Page 7 of 8)

CC JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 9.77

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.47	.00	.00	.00	.24	.00	.71
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.02	.00	.07
C-3	1	0	0	0	0	1	1	3	10	55	94	80	49	21	5	3	0	323
(1)	.24	.00	.00	.00	.00	.24	.24	.71	2.36	13.00	22.22	18.91	11.58	4.96	1.18	.71	.00	76.36
(2)	.02	.00	.00	.00	.00	.02	.02	.07	.23	1.27	2.17	1.85	1.13	.48	.12	.07	.00	7.46
4-7	0	0	0	0	0	0	0	0	0	24	36	7	11	13	4	2	0	97
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.67	8.51	1.65	2.60	3.07	.95	.47	.00	22.93
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55	.83	.16	.25	.30	.09	.05	.00	2.24
8-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	1	0	0	0	0	1	1	3	10	79	130	89	60	34	9	6	0	423
(1)	.24	.00	.00	.00	.00	.24	.24	.71	2.36	18.68	30.73	21.04	14.18	8.04	2.13	1.42	.00	100.00
(2)	.02	.00	.00	.00	.00	.02	.02	.07	.23	1.82	3.00	2.06	1.39	.79	.21	.14	.00	9.77

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-49— CCNPP 33 Feet July JFD
(Page 8 of 8)

CC JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	2	2	1	4	4	0	0	0	1	0	14
(1)	.00	.00	.00	.00	.00	.00	.00	.05	.05	.02	.09	.09	.00	.00	.00	.02	.00	.32
(2)	.00	.00	.00	.00	.00	.00	.00	.05	.05	.02	.09	.09	.00	.00	.00	.02	.00	.32
C-3	31	25	23	19	35	30	30	65	119	229	279	183	122	65	44	21	0	1320
(1)	.72	.58	.53	.44	.81	.69	.69	1.50	2.75	5.29	6.44	4.23	2.82	1.50	1.02	.48	.00	30.48
(2)	.72	.58	.53	.44	.81	.69	.69	1.50	2.75	5.29	6.44	4.23	2.82	1.50	1.02	.48	.00	30.48
4-7	155	177	121	124	116	83	102	139	132	182	391	247	93	62	70	56	0	2250
(1)	3.58	4.09	2.79	2.86	2.68	1.92	2.36	3.21	3.05	4.20	9.03	5.70	2.15	1.43	1.62	1.29	.00	51.96
(2)	3.58	4.09	2.79	2.86	2.68	1.92	2.36	3.21	3.05	4.20	9.03	5.70	2.15	1.43	1.62	1.29	.00	51.96
8-12	82	54	109	86	30	14	28	74	21	25	84	33	14	12	22	17	0	705
(1)	1.89	1.25	2.52	1.99	.69	.32	.65	1.71	.48	.58	1.94	.76	.32	.28	.51	.39	.00	16.28
(2)	1.89	1.25	2.52	1.99	.69	.32	.65	1.71	.48	.58	1.94	.76	.32	.28	.51	.39	.00	16.28
13-18	3	6	16	6	1	0	0	2	1	0	2	0	0	1	3	0	0	41
(1)	.07	.14	.37	.14	.02	.00	.00	.05	.02	.00	.05	.00	.00	.02	.07	.00	.00	.95
(2)	.07	.14	.37	.14	.02	.00	.00	.05	.02	.00	.05	.00	.00	.02	.07	.00	.00	.95
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	271	262	269	235	182	127	160	282	275	437	760	467	229	140	139	95	0	4330
(1)	6.26	6.05	6.21	5.43	4.20	2.93	3.70	6.51	6.35	10.09	17.55	10.79	5.29	3.23	3.21	2.19	.00	100.00
(2)	6.26	6.05	6.21	5.43	4.20	2.93	3.70	6.51	6.35	10.09	17.55	10.79	5.29	3.23	3.21	2.19	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-50— CCNPP 33 Feet August JFD
(Page 1 of 8)

CC AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 11.99

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	0	0	1	0	0	0	1	3	6	3	3	1	0	0	0	0	20
(1)	.38	.00	.00	.19	.00	.00	.00	.19	.57	1.13	.57	.57	.19	.00	.00	.00	.00	3.77
(2)	.05	.00	.00	.02	.00	.00	.00	.02	.07	.14	.07	.07	.02	.00	.00	.00	.00	.45
4-7	27	36	17	14	12	12	15	26	20	40	85	34	11	1	3	5	0	358
(1)	5.09	6.79	3.21	2.64	2.26	2.26	2.83	4.91	3.77	7.55	16.04	6.42	2.08	.19	.57	.94	.00	67.55
(2)	.61	.81	.38	.32	.27	.27	.34	.59	.45	.91	1.92	.77	.25	.02	.07	.11	.00	8.10
8-12	34	25	8	0	1	5	12	15	5	11	19	7	0	3	1	0	0	146
(1)	6.42	4.72	1.51	.00	.19	.94	2.26	2.83	.94	2.08	3.58	1.32	.00	.57	.19	.00	.00	27.55
(2)	.77	.57	.18	.00	.02	.11	.27	.34	.11	.25	.43	.16	.00	.07	.02	.00	.00	3.30
13-18	1	2	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	6
(1)	.19	.38	.00	.00	.00	.00	.19	.38	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.13
(2)	.02	.05	.00	.00	.00	.00	.02	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	64	63	25	15	13	17	28	44	28	57	107	44	12	4	4	5	0	530
(1)	12.08	11.89	4.72	2.83	2.45	3.21	5.28	8.30	5.28	10.75	20.19	8.30	2.26	.75	.75	.94	.00	100.00
(2)	1.45	1.43	.57	.34	.29	.38	.63	1.00	.63	1.29	2.42	1.00	.27	.09	.09	.11	.00	11.99

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-50— CCNPP 33 Feet August JFD
(Page 2 of 8)

CC AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 5.84
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	3	0	3	0	1	0	1	1	6	0	2	0	0	0	0	18
(1)	.00	.39	1.16	.00	1.16	.00	.39	.00	.39	.39	2.33	.00	.78	.00	.00	.00	.00	6.98
(2)	.00	.02	.07	.00	.07	.00	.02	.00	.02	.02	.14	.00	.05	.00	.00	.00	.00	.41
4-7	22	28	17	9	7	9	12	15	11	10	22	12	4	4	1	1	0	184
(1)	8.53	10.85	6.59	3.49	2.71	3.49	4.65	5.81	4.26	3.88	8.53	4.65	1.55	1.55	.39	.39	.00	71.32
(2)	.50	.63	.38	.20	.16	.20	.27	.34	.25	.23	.50	.27	.09	.09	.02	.02	.00	4.16
8-12	13	3	8	1	0	2	4	5	2	3	2	3	3	0	1	0	0	50
(1)	5.04	1.16	3.10	.39	.00	.78	1.55	1.94	.78	1.16	.78	1.16	1.16	.00	.39	.00	.00	19.38
(2)	.29	.07	.18	.02	.00	.05	.09	.11	.05	.07	.05	.07	.07	.00	.02	.00	.00	1.13
13-18	2	0	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	6
(1)	.78	.00	.00	.39	.00	.00	.00	.39	.00	.00	.00	.00	.00	.00	.39	.39	.00	2.33
(2)	.05	.00	.00	.02	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02	.02	.00	.14
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	37	32	28	11	10	11	17	21	14	14	30	15	9	4	3	2	0	258
(1)	14.34	12.40	10.85	4.26	3.88	4.26	6.59	8.14	5.43	5.43	11.63	5.81	3.49	1.55	1.16	.78	.00	100.00
(2)	.84	.72	.63	.25	.23	.25	.38	.48	.32	.32	.68	.34	.20	.09	.07	.05	.00	5.84

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-50— CCNPP 33 Feet August JFD
(Page 3 of 8)

CC AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 6.13

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	3	4	1	3	2	1	2	0	1	3	6	3	5	0	0	0	0	34
(1)	1.11	1.48	.37	1.11	.74	.37	.74	.00	.37	1.11	2.21	1.11	1.85	.00	.00	.00	.00	12.55
(2)	.07	.09	.02	.07	.05	.02	.05	.00	.02	.07	.14	.07	.11	.00	.00	.00	.00	.77
4-7	22	25	22	11	11	6	11	22	7	9	22	13	6	5	3	2	0	197
(1)	8.12	9.23	8.12	4.06	4.06	2.21	4.06	8.12	2.58	3.32	8.12	4.80	2.21	1.85	1.11	.74	.00	72.69
(2)	.50	.57	.50	.25	.25	.14	.25	.50	.16	.20	.50	.29	.14	.11	.07	.05	.00	4.46
8-12	6	4	5	1	1	1	0	8	1	0	4	4	1	1	1	1	0	39
(1)	2.21	1.48	1.85	.37	.37	.37	.00	2.95	.37	.00	1.48	1.48	.37	.37	.37	.37	.00	14.39
(2)	.14	.09	.11	.02	.02	.02	.00	.18	.02	.00	.09	.09	.02	.02	.02	.02	.00	.88
13-18	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.37	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	32	33	28	15	14	8	13	30	9	12	32	20	12	6	4	3	0	271
(1)	11.81	12.18	10.33	5.54	5.17	2.95	4.80	11.07	3.32	4.43	11.81	7.38	4.43	2.21	1.48	1.11	.00	100.00
(2)	.72	.75	.63	.34	.32	.18	.29	.68	.20	.27	.72	.45	.27	.14	.09	.07	.00	6.13

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-50— CCNPP 33 Feet August JFD
(Page 4 of 8)

CC AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA   STABILITY CLASS D   CLASS FREQUENCY (PERCENT) = 28.67

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.08
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02
C-3	13	9	10	5	41	17	13	19	12	19	30	21	13	7	6	13	0	248
(1)	1.03	.71	.79	.39	3.24	1.34	1.03	1.50	.95	1.50	2.37	1.66	1.03	.55	.47	1.03	.00	19.57
(2)	.29	.20	.23	.11	.93	.38	.29	.43	.27	.43	.68	.48	.29	.16	.14	.29	.00	5.61
4-7	57	67	45	71	45	39	38	79	36	38	84	30	13	14	16	29	0	701
(1)	4.50	5.29	3.55	5.60	3.55	3.08	3.00	6.24	2.84	3.00	6.63	2.37	1.03	1.10	1.26	2.29	.00	55.33
(2)	1.29	1.52	1.02	1.61	1.02	.88	.86	1.79	.81	.86	1.90	.68	.29	.32	.36	.66	.00	15.86
8-12	44	47	46	29	11	6	7	31	3	5	29	6	2	2	6	16	0	290
(1)	3.47	3.71	3.63	2.29	.87	.47	.55	2.45	.24	.39	2.29	.47	.16	.16	.47	1.26	.00	22.89
(2)	1.00	1.06	1.04	.66	.25	.14	.16	.70	.07	.11	.66	.14	.05	.05	.14	.36	.00	6.56
13-18	3	2	14	5	2	0	0	0	0	0	0	0	0	0	0	0	0	26
(1)	.24	.16	1.10	.39	.16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.05
(2)	.07	.05	.32	.11	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.59
19-24	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	117	125	115	111	99	62	58	129	51	62	143	57	28	23	29	58	0	1267
(1)	9.23	9.87	9.08	8.76	7.81	4.89	4.58	10.18	4.03	4.89	11.29	4.50	2.21	1.82	2.29	4.58	.00	100.00
(2)	2.65	2.83	2.60	2.51	2.24	1.40	1.31	2.92	1.15	1.40	3.24	1.29	.63	.52	.66	1.31	.00	28.67

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-50— CCNPP 33 Feet August JFD

(Page 5 of 8)

CC AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 27.43

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.08	.08	.08	.08	.00	.00	.00	.08	.00	.00	.41
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.02	.02	.02	.00	.00	.00	.02	.00	.00	.11
C-3	7	4	6	1	8	14	13	26	65	95	78	30	21	12	19	15	0	414
(1)	.58	.33	.50	.08	.66	1.16	1.07	2.15	5.36	7.84	6.44	2.48	1.73	.99	1.57	1.24	.00	34.16
(2)	.16	.09	.14	.02	.18	.32	.29	.59	1.47	2.15	1.77	.68	.48	.27	.43	.34	.00	9.37
4-7	16	18	12	7	9	8	17	46	83	103	215	54	18	13	39	29	0	687
(1)	1.32	1.49	.99	.58	.74	.66	1.40	3.80	6.85	8.50	17.74	4.46	1.49	1.07	3.22	2.39	.00	56.68
(2)	.36	.41	.27	.16	.20	.18	.38	1.04	1.88	2.33	4.87	1.22	.41	.29	.88	.66	.00	15.55
8-12	6	13	8	0	1	0	1	3	9	8	40	9	1	2	1	3	0	105
(1)	.50	1.07	.66	.00	.08	.00	.08	.25	.74	.66	3.30	.74	.08	.17	.08	.25	.00	8.66
(2)	.14	.29	.18	.00	.02	.00	.02	.07	.20	.18	.91	.20	.02	.05	.02	.07	.00	2.38
13-18	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	29	35	27	8	18	22	31	76	158	207	334	93	40	27	60	47	0	1212
(1)	2.39	2.89	2.23	.66	1.49	1.82	2.56	6.27	13.04	17.08	27.56	7.67	3.30	2.23	4.95	3.88	.00	100.00
(2)	.66	.79	.61	.18	.41	.50	.70	1.72	3.58	4.68	7.56	2.10	.91	.61	1.36	1.06	.00	27.43

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-50— CCNPP 33 Feet August JFD
(Page 6 of 8)

CC AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 11.97
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	1	0	2	0	0	1	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.00	.38	.00	.00	.19	.00	.00	.76
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.05	.00	.00	.02	.00	.00	.09
C-3	1	0	4	0	2	4	5	21	34	89	95	52	22	19	6	8	0	362
(1)	.19	.00	.76	.00	.38	.76	.95	3.97	6.43	16.82	17.96	9.83	4.16	3.59	1.13	1.51	.00	68.43
(2)	.02	.00	.09	.00	.05	.09	.11	.48	.77	2.01	2.15	1.18	.50	.43	.14	.18	.00	8.19
4-7	0	0	0	0	0	0	1	3	8	27	59	24	14	14	11	2	0	163
(1)	.00	.00	.00	.00	.00	.00	.19	.57	1.51	5.10	11.15	4.54	2.65	2.65	2.08	.38	.00	30.81
(2)	.00	.00	.00	.00	.00	.00	.02	.07	.18	.61	1.34	.54	.32	.32	.25	.05	.00	3.69
8-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	1	0	4	0	2	4	6	24	42	117	154	78	36	33	18	10	0	529
(1)	.19	.00	.76	.00	.38	.76	1.13	4.54	7.94	22.12	29.11	14.74	6.81	6.24	3.40	1.89	.00	100.00
(2)	.02	.00	.09	.00	.05	.09	.14	.54	.95	2.65	3.48	1.77	.81	.75	.41	.23	.00	11.97

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-50— CCNPP 33 Feet August JFD
(Page 7 of 8)

CC AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 7.97
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	1	0	0	0	0	1	0	2	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.28	.00	.00	.00	.00	.28	.00	.57	.00	.00	.00	.00	.00	1.14
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.05	.00	.00	.00	.00	.00	.09
C-3	0	0	1	0	0	2	0	7	9	60	94	54	33	23	2	2	0	287
(1)	.00	.00	.28	.00	.00	.57	.00	1.99	2.56	17.05	26.70	15.34	9.38	6.53	.57	.57	.00	81.53
(2)	.00	.00	.02	.00	.00	.05	.00	.16	.20	1.36	2.13	1.22	.75	.52	.05	.05	.00	6.49
4-7	0	0	0	0	0	0	0	0	0	12	17	9	3	14	6	0	0	61
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.41	4.83	2.56	.85	3.98	1.70	.00	.00	17.33
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.27	.38	.20	.07	.32	.14	.00	.00	1.38
8-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	1	0	1	2	0	7	9	73	111	65	36	37	8	2	0	352
(1)	.00	.00	.28	.00	.28	.57	.00	1.99	2.56	20.74	31.53	18.47	10.23	10.51	2.27	.57	.00	100.00
(2)	.00	.00	.02	.00	.02	.05	.00	.16	.20	1.65	2.51	1.47	.81	.84	.18	.05	.00	7.97

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-50— CCNPP 33 Feet August JFD
(Page 8 of 8)

CC AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	1	0	0	1	1	3	1	4	0	0	3	0	0	14
(1)	.00	.00	.00	.00	.02	.00	.00	.02	.02	.07	.02	.09	.00	.00	.07	.00	.00	.32
(2)	.00	.00	.00	.00	.02	.00	.00	.02	.02	.07	.02	.09	.00	.00	.07	.00	.00	.32
C-3	26	18	25	10	56	38	34	74	125	273	312	163	97	61	33	38	0	1383
(1)	.59	.41	.57	.23	1.27	.86	.77	1.67	2.83	6.18	7.06	3.69	2.20	1.38	.75	.86	.00	31.30
(2)	.59	.41	.57	.23	1.27	.86	.77	1.67	2.83	6.18	7.06	3.69	2.20	1.38	.75	.86	.00	31.30
4-7	144	174	113	112	84	74	94	191	165	239	504	176	69	65	79	68	0	2351
(1)	3.26	3.94	2.56	2.53	1.90	1.67	2.13	4.32	3.73	5.41	11.41	3.98	1.56	1.47	1.79	1.54	.00	53.20
(2)	3.26	3.94	2.56	2.53	1.90	1.67	2.13	4.32	3.73	5.41	11.41	3.98	1.56	1.47	1.79	1.54	.00	53.20
8-12	103	92	75	31	14	14	24	62	20	27	94	29	7	8	10	20	0	630
(1)	2.33	2.08	1.70	.70	.32	.32	.54	1.40	.45	.61	2.13	.66	.16	.18	.23	.45	.00	14.26
(2)	2.33	2.08	1.70	.70	.32	.32	.54	1.40	.45	.61	2.13	.66	.16	.18	.23	.45	.00	14.26
13-18	7	4	15	6	2	0	1	3	0	0	0	0	0	0	1	1	0	40
(1)	.16	.09	.34	.14	.05	.00	.02	.07	.00	.00	.00	.00	.00	.00	.02	.02	.00	.91
(2)	.16	.09	.34	.14	.05	.00	.02	.07	.00	.00	.00	.00	.00	.00	.02	.02	.00	.91
19-24	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	280	288	228	160	157	126	153	331	311	542	911	372	173	134	126	127	0	4419
(1)	6.34	6.52	5.16	3.62	3.55	2.85	3.46	7.49	7.04	12.27	20.62	8.42	3.91	3.03	2.85	2.87	.00	100.00
(2)	6.34	6.52	5.16	3.62	3.55	2.85	3.46	7.49	7.04	12.27	20.62	8.42	3.91	3.03	2.85	2.87	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-50— CCNPP 33 Feet September JFD

(Page 1 of 8)

CC SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 11.82

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	2	1	3	1	2	0	0	0	3	0	0	0	0	1	0	14
(1)	.00	.20	.40	.20	.60	.20	.40	.00	.00	.00	.60	.00	.00	.00	.00	.20	.00	2.81
(2)	.00	.02	.05	.02	.07	.02	.05	.00	.00	.00	.07	.00	.00	.00	.00	.02	.00	.33
4-7	48	48	29	5	7	12	15	13	8	26	38	19	5	6	3	3	0	285
(1)	9.62	9.62	5.81	1.00	1.40	2.40	3.01	2.61	1.60	5.21	7.62	3.81	1.00	1.20	.60	.60	.00	57.11
(2)	1.14	1.14	.69	.12	.17	.28	.36	.31	.19	.62	.90	.45	.12	.14	.07	.07	.00	6.75
8-12	42	35	23	1	0	1	21	23	6	11	9	7	0	3	0	2	0	184
(1)	8.42	7.01	4.61	.20	.00	.20	4.21	4.61	1.20	2.20	1.80	1.40	.00	.60	.00	.40	.00	36.87
(2)	.99	.83	.54	.02	.00	.02	.50	.54	.14	.26	.21	.17	.00	.07	.00	.05	.00	4.36
13-18	3	3	5	0	0	0	0	1	0	1	0	0	0	0	2	1	0	16
(1)	.60	.60	1.00	.00	.00	.00	.00	.20	.00	.20	.00	.00	.00	.00	.40	.20	.00	3.21
(2)	.07	.07	.12	.00	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.05	.02	.00	.38
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	93	87	59	7	10	14	38	37	14	38	50	26	5	9	5	7	0	499
(1)	18.64	17.43	11.82	1.40	2.00	2.81	7.62	7.41	2.81	7.62	10.02	5.21	1.00	1.80	1.00	1.40	.00	100.00
(2)	2.20	2.06	1.40	.17	.24	.33	.90	.88	.33	.90	1.18	.62	.12	.21	.12	.17	.00	11.82

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-51— CCNPP 33 Feet September JFD
(Page 2 of 8)

CC SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 5.49
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	5
(1)	.43	.43	.00	.43	.43	.00	.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.16
(2)	.02	.02	.00	.02	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12
4-7	17	24	11	10	5	7	6	11	5	5	8	5	2	4	1	2	0	123
(1)	7.33	10.34	4.74	4.31	2.16	3.02	2.59	4.74	2.16	2.16	3.45	2.16	.86	1.72	.43	.86	.00	53.02
(2)	.40	.57	.26	.24	.12	.17	.14	.26	.12	.12	.19	.12	.05	.09	.02	.05	.00	2.91
8-12	21	8	23	2	0	0	8	11	3	1	3	1	0	4	6	0	0	91
(1)	9.05	3.45	9.91	.86	.00	.00	3.45	4.74	1.29	.43	1.29	.43	.00	1.72	2.59	.00	.00	39.22
(2)	.50	.19	.54	.05	.00	.00	.19	.26	.07	.02	.07	.02	.00	.09	.14	.00	.00	2.15
13-18	3	3	2	1	0	0	0	0	0	0	0	0	0	1	3	0	0	13
(1)	1.29	1.29	.86	.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43	1.29	.00	.00	5.60
(2)	.07	.07	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.07	.00	.00	.31
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	42	36	36	14	6	7	15	22	8	6	11	6	2	9	10	2	0	232
(1)	18.10	15.52	15.52	6.03	2.59	3.02	6.47	9.48	3.45	2.59	4.74	2.59	.86	3.88	4.31	.86	.00	100.00
(2)	.99	.85	.85	.33	.14	.17	.36	.52	.19	.14	.26	.14	.05	.21	.24	.05	.00	5.49

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-51— CCNPP 33 Feet September JFD
(Page 3 of 8)

CC SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 5.78

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	3	2	1	5	0	1	3	0	0	2	2	3	0	0	1	0	23
(1)	.00	1.23	.82	.41	2.05	.00	.41	1.23	.00	.00	.82	.82	1.23	.00	.00	.41	.00	9.43
(2)	.00	.07	.05	.02	.12	.00	.02	.07	.00	.00	.05	.05	.07	.00	.00	.02	.00	.54
4-7	18	35	15	11	8	9	13	12	7	2	5	3	2	7	6	3	0	156
(1)	7.38	14.34	6.15	4.51	3.28	3.69	5.33	4.92	2.87	.82	2.05	1.23	.82	2.87	2.46	1.23	.00	63.93
(2)	.43	.83	.36	.26	.19	.21	.31	.28	.17	.05	.12	.07	.05	.17	.14	.07	.00	3.69
8-12	14	2	14	3	1	0	1	12	1	1	2	0	1	2	3	2	0	59
(1)	5.74	.82	5.74	1.23	.41	.00	.41	4.92	.41	.41	.82	.00	.41	.82	1.23	.82	.00	24.18
(2)	.33	.05	.33	.07	.02	.00	.02	.28	.02	.02	.05	.00	.02	.05	.07	.05	.00	1.40
13-18	2	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	6
(1)	.82	.00	.82	.82	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.46
(2)	.05	.00	.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	34	40	33	17	14	9	15	27	8	3	9	5	6	9	9	6	0	244
(1)	13.93	16.39	13.52	6.97	5.74	3.69	6.15	11.07	3.28	1.23	3.69	2.05	2.46	3.69	3.69	2.46	.00	100.00
(2)	.81	.95	.78	.40	.33	.21	.36	.64	.19	.07	.21	.12	.14	.21	.21	.14	.00	5.78

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-51— CCNPP 33 Feet September JFD
(Page 4 of 8)

CC SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 34.31
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	16	21	16	16	22	12	9	8	10	11	15	8	5	10	4	10	0	193
(1)	1.10	1.45	1.10	1.10	1.52	.83	.62	.55	.69	.76	1.04	.55	.35	.69	.28	.69	.00	13.32
(2)	.38	.50	.38	.38	.52	.28	.21	.19	.24	.26	.36	.19	.12	.24	.09	.24	.00	4.57
4-7	58	68	48	75	94	51	38	47	22	14	33	12	13	19	24	29	0	645
(1)	4.00	4.69	3.31	5.18	6.49	3.52	2.62	3.24	1.52	.97	2.28	.83	.90	1.31	1.66	2.00	.00	44.51
(2)	1.37	1.61	1.14	1.78	2.23	1.21	.90	1.11	.52	.33	.78	.28	.31	.45	.57	.69	.00	15.27
8-12	50	42	106	92	13	8	11	34	15	3	14	5	6	2	14	23	0	438
(1)	3.45	2.90	7.32	6.35	.90	.55	.76	2.35	1.04	.21	.97	.35	.41	.14	.97	1.59	.00	30.23
(2)	1.18	.99	2.51	2.18	.31	.19	.26	.81	.36	.07	.33	.12	.14	.05	.33	.54	.00	10.37
13-18	31	24	73	13	0	0	3	7	4	0	0	0	0	0	1	3	0	159
(1)	2.14	1.66	5.04	.90	.00	.00	.21	.48	.28	.00	.00	.00	.00	.00	.07	.21	.00	10.97
(2)	.73	.57	1.73	.31	.00	.00	.07	.17	.09	.00	.00	.00	.00	.00	.02	.07	.00	3.77
19-24	1	2	7	0	2	0	1	1	0	0	0	0	0	0	0	0	0	14
(1)	.07	.14	.48	.00	.14	.00	.07	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.97
(2)	.02	.05	.17	.00	.05	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.33
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	156	157	250	196	131	71	62	97	51	28	62	25	24	31	43	65	0	1449
(1)	10.77	10.84	17.25	13.53	9.04	4.90	4.28	6.69	3.52	1.93	4.28	1.73	1.66	2.14	2.97	4.49	.00	100.00
(2)	3.69	3.72	5.92	4.64	3.10	1.68	1.47	2.30	1.21	.66	1.47	.59	.57	.73	1.02	1.54	.00	34.31

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-51— CCNPP 33 Feet September JFD
(Page 5 of 8)

CC SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 22.42

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	1	1	2	0	1	1	1	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.11	.11	.21	.00	.11	.11	.11	.00	.00	.00	.00	.74
(2)	.00	.00	.00	.00	.00	.00	.02	.02	.05	.00	.02	.02	.02	.00	.00	.00	.00	.17
C-3	22	8	6	4	16	20	25	26	37	33	32	18	13	13	16	12	0	301
(1)	2.32	.84	.63	.42	1.69	2.11	2.64	2.75	3.91	3.48	3.38	1.90	1.37	1.37	1.69	1.27	.00	31.78
(2)	.52	.19	.14	.09	.38	.47	.59	.62	.88	.78	.76	.43	.31	.31	.38	.28	.00	7.13
4-7	18	31	19	18	15	16	20	37	72	44	63	22	15	28	60	33	0	511
(1)	1.90	3.27	2.01	1.90	1.58	1.69	2.11	3.91	7.60	4.65	6.65	2.32	1.58	2.96	6.34	3.48	.00	53.96
(2)	.43	.73	.45	.43	.36	.38	.47	.88	1.70	1.04	1.49	.52	.36	.66	1.42	.78	.00	12.10
8-12	6	5	24	3	0	0	1	6	12	5	25	3	1	4	10	9	0	114
(1)	.63	.53	2.53	.32	.00	.00	.11	.63	1.27	.53	2.64	.32	.11	.42	1.06	.95	.00	12.04
(2)	.14	.12	.57	.07	.00	.00	.02	.14	.28	.12	.59	.07	.02	.09	.24	.21	.00	2.70
13-18	0	1	0	1	0	0	0	2	0	0	1	0	1	0	0	0	0	6
(1)	.00	.11	.00	.11	.00	.00	.00	.21	.00	.00	.11	.00	.11	.00	.00	.00	.00	.63
(2)	.00	.02	.00	.02	.00	.00	.00	.05	.00	.00	.02	.00	.02	.00	.00	.00	.00	.14
19-24	1	0	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0	5
(1)	.11	.00	.00	.11	.00	.11	.21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.53
(2)	.02	.00	.00	.02	.00	.02	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12
GT 24	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.11	.11	.00	.11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.32
(2)	.00	.00	.02	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
ALL SPEEDS	47	45	50	28	31	38	49	72	123	82	122	44	31	45	86	54	0	947
(1)	4.96	4.75	5.28	2.96	3.27	4.01	5.17	7.60	12.99	8.66	12.88	4.65	3.27	4.75	9.08	5.70	.00	100.00
(2)	1.11	1.07	1.18	.66	.73	.90	1.16	1.70	2.91	1.94	2.89	1.04	.73	1.07	2.04	1.28	.00	22.42

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-51— CCNPP 33 Feet September JFD

(Page 6 of 8)

CC SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA   STABILITY CLASS F   CLASS FREQUENCY (PERCENT) = 10.02

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	1	0	0	0	0	0	0	0	1	2	0	2	1	1	0	0	8
(1)	.00	.24	.00	.00	.00	.00	.00	.00	.00	.24	.47	.00	.47	.24	.24	.00	.00	1.89
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02	.05	.00	.05	.02	.02	.00	.00	.19
C-3	3	1	3	3	3	7	10	20	44	48	44	19	19	18	15	13	0	270
(1)	.71	.24	.71	.71	.71	1.65	2.36	4.73	10.40	11.35	10.40	4.49	4.49	4.26	3.55	3.07	.00	63.83
(2)	.07	.02	.07	.07	.07	.17	.24	.47	1.04	1.14	1.04	.45	.45	.43	.36	.31	.00	6.39
4-7	1	0	0	0	0	1	0	10	13	8	28	6	11	26	36	5	0	145
(1)	.24	.00	.00	.00	.00	.24	.00	2.36	3.07	1.89	6.62	1.42	2.60	6.15	8.51	1.18	.00	34.28
(2)	.02	.00	.00	.00	.00	.02	.00	.24	.31	.19	.66	.14	.26	.62	.85	.12	.00	3.43
8-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	4	2	3	3	3	8	10	30	57	57	74	25	32	45	52	18	0	423
(1)	.95	.47	.71	.71	.71	1.89	2.36	7.09	13.48	13.48	17.49	5.91	7.57	10.64	12.29	4.26	.00	100.00
(2)	.09	.05	.07	.07	.07	.19	.24	.71	1.35	1.35	1.75	.59	.76	1.07	1.23	.43	.00	10.02

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-51— CCNPP 33 Feet September JFD
(Page 7 of 8)

CC SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 10.16
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	1	0	2	1	1	2	0	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.23	.00	.47	.23	.23	.47	.00	.00	.00	.00	.00	1.63
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.05	.02	.02	.05	.00	.00	.00	.00	.00	.17
C-3	2	2	0	0	0	1	1	9	22	52	75	52	69	55	9	4	0	353
(1)	.47	.47	.00	.00	.00	.23	.23	2.10	5.13	12.12	17.48	12.12	16.08	12.82	2.10	.93	.00	82.28
(2)	.05	.05	.00	.00	.00	.02	.02	.21	.52	1.23	1.78	1.23	1.63	1.30	.21	.09	.00	8.36
4-7	0	0	0	0	0	0	0	0	2	8	27	7	9	13	3	0	0	69
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.47	1.86	6.29	1.63	2.10	3.03	.70	.00	.00	16.08
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.19	.64	.17	.21	.31	.07	.00	.00	1.63
8-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	2	2	0	0	0	1	2	9	26	61	103	61	78	68	12	4	0	429
(1)	.47	.47	.00	.00	.00	.23	.47	2.10	6.06	14.22	24.01	14.22	18.18	15.85	2.80	.93	.00	100.00
(2)	.05	.05	.00	.00	.00	.02	.05	.21	.62	1.44	2.44	1.44	1.85	1.61	.28	.09	.00	10.16

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-51— CCNPP 33 Feet September JFD

(Page 8 of 8)

CC SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	1	0	0	0	0	2	1	4	2	4	3	3	1	1	0	0	22
(1)	.00	.02	.00	.00	.00	.00	.05	.02	.09	.05	.09	.07	.07	.02	.02	.00	.00	.52
(2)	.00	.02	.00	.00	.00	.00	.05	.02	.09	.05	.09	.07	.07	.02	.02	.00	.00	.52
C-3	44	37	29	26	50	41	49	66	113	144	171	99	109	96	44	41	0	1159
(1)	1.04	.88	.69	.62	1.18	.97	1.16	1.56	2.68	3.41	4.05	2.34	2.58	2.27	1.04	.97	.00	27.44
(2)	1.04	.88	.69	.62	1.18	.97	1.16	1.56	2.68	3.41	4.05	2.34	2.58	2.27	1.04	.97	.00	27.44
4-7	160	206	122	119	129	96	92	130	129	107	202	74	57	103	133	75	0	1934
(1)	3.79	4.88	2.89	2.82	3.05	2.27	2.18	3.08	3.05	2.53	4.78	1.75	1.35	2.44	3.15	1.78	.00	45.80
(2)	3.79	4.88	2.89	2.82	3.05	2.27	2.18	3.08	3.05	2.53	4.78	1.75	1.35	2.44	3.15	1.78	.00	45.80
8-12	133	92	190	101	14	9	42	86	37	21	53	16	8	15	33	36	0	886
(1)	3.15	2.18	4.50	2.39	.33	.21	.99	2.04	.88	.50	1.26	.38	.19	.36	.78	.85	.00	20.98
(2)	3.15	2.18	4.50	2.39	.33	.21	.99	2.04	.88	.50	1.26	.38	.19	.36	.78	.85	.00	20.98
13-18	39	31	82	17	0	0	3	10	4	1	1	0	1	1	6	4	0	200
(1)	.92	.73	1.94	.40	.00	.00	.07	.24	.09	.02	.02	.00	.02	.02	.14	.09	.00	4.74
(2)	.92	.73	1.94	.40	.00	.00	.07	.24	.09	.02	.02	.00	.02	.02	.14	.09	.00	4.74
19-24	2	2	7	1	2	1	3	1	0	0	0	0	0	0	0	0	0	19
(1)	.05	.05	.17	.02	.05	.02	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.45
(2)	.05	.05	.17	.02	.05	.02	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.45
GT 24	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.02	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
(2)	.00	.00	.02	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
ALL SPEEDS	378	369	431	265	195	148	191	294	287	275	431	192	178	216	217	156	0	4223
(1)	8.95	8.74	10.21	6.28	4.62	3.50	4.52	6.96	6.80	6.51	10.21	4.55	4.22	5.11	5.14	3.69	.00	100.00
(2)	8.95	8.74	10.21	6.28	4.62	3.50	4.52	6.96	6.80	6.51	10.21	4.55	4.22	5.11	5.14	3.69	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-52— CCNPP 33 Feet October JFD
(Page 1 of 8)

CC OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 12.81

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	1	3	3	3	0	1	1	0	0	2	3	1	1	0	0	0	20
(1)	.18	.18	.53	.53	.53	.00	.18	.18	.00	.00	.35	.53	.18	.18	.00	.00	.00	3.53
(2)	.02	.02	.07	.07	.07	.00	.02	.02	.00	.00	.05	.07	.02	.02	.00	.00	.00	.45
4-7	22	34	6	7	10	8	9	16	10	17	33	13	15	13	11	8	0	232
(1)	3.88	6.00	1.06	1.23	1.76	1.41	1.59	2.82	1.76	3.00	5.82	2.29	2.65	2.29	1.94	1.41	.00	40.92
(2)	.50	.77	.14	.16	.23	.18	.20	.36	.23	.38	.75	.29	.34	.29	.25	.18	.00	5.24
8-12	63	32	10	2	2	0	1	19	4	5	23	23	12	35	38	9	0	278
(1)	11.11	5.64	1.76	.35	.35	.00	.18	3.35	.71	.88	4.06	4.06	2.12	6.17	6.70	1.59	.00	49.03
(2)	1.42	.72	.23	.05	.05	.00	.02	.43	.09	.11	.52	.52	.27	.79	.86	.20	.00	6.28
13-18	4	0	4	2	0	0	0	4	0	0	1	4	4	4	10	0	0	37
(1)	.71	.00	.71	.35	.00	.00	.00	.71	.00	.00	.18	.71	.71	.71	1.76	.00	.00	6.53
(2)	.09	.00	.09	.05	.00	.00	.00	.09	.00	.00	.02	.09	.09	.09	.23	.00	.00	.84
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	90	67	23	14	15	8	11	40	14	22	59	43	32	53	59	17	0	567
(1)	15.87	11.82	4.06	2.47	2.65	1.41	1.94	7.05	2.47	3.88	10.41	7.58	5.64	9.35	10.41	3.00	.00	100.00
(2)	2.03	1.51	.52	.32	.34	.18	.25	.90	.32	.50	1.33	.97	.72	1.20	1.33	.38	.00	12.81

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-52— CCNPP 33 Feet October JFD
(Page 2 of 8)

CC OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 3.98

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	2	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0	6
(1)	.00	1.14	.00	.00	.57	.00	.00	.00	.00	.00	.00	.00	.00	1.70	.00	.00	.00	3.41
(2)	.00	.05	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.14
4-7	11	13	5	7	1	5	7	3	2	5	10	7	2	5	9	7	0	99
(1)	6.25	7.39	2.84	3.98	.57	2.84	3.98	1.70	1.14	2.84	5.68	3.98	1.14	2.84	5.11	3.98	.00	56.25
(2)	.25	.29	.11	.16	.02	.11	.16	.07	.05	.11	.23	.16	.05	.11	.20	.16	.00	2.24
8-12	9	5	3	0	0	0	2	12	1	1	3	1	1	4	13	7	0	62
(1)	5.11	2.84	1.70	.00	.00	.00	1.14	6.82	.57	.57	1.70	.57	.57	2.27	7.39	3.98	.00	35.23
(2)	.20	.11	.07	.00	.00	.00	.05	.27	.02	.02	.07	.02	.02	.09	.29	.16	.00	1.40
13-18	1	0	1	0	0	0	0	2	0	0	0	0	3	1	1	0	0	9
(1)	.57	.00	.57	.00	.00	.00	.00	1.14	.00	.00	.00	.00	1.70	.57	.57	.00	.00	5.11
(2)	.02	.00	.02	.00	.00	.00	.00	.05	.00	.00	.00	.00	.07	.02	.02	.00	.00	.20
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	21	20	9	7	2	5	9	17	3	6	13	8	6	13	23	14	0	176
(1)	11.93	11.36	5.11	3.98	1.14	2.84	5.11	9.66	1.70	3.41	7.39	4.55	3.41	7.39	13.07	7.95	.00	100.00
(2)	.47	.45	.20	.16	.05	.11	.20	.38	.07	.14	.29	.18	.14	.29	.52	.32	.00	3.98

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-52— CCNPP 33 Feet October JFD
(Page 3 of 8)

CC OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 4.36

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	2	2	1	3	0	1	1	1	1	1	2	0	4	0	0	0	21
(1)	1.04	1.04	1.04	.52	1.55	.00	.52	.52	.52	.52	.52	1.04	.00	2.07	.00	.00	.00	10.88
(2)	.05	.05	.05	.02	.07	.00	.02	.02	.02	.02	.02	.05	.00	.09	.00	.00	.00	.47
4-7	18	18	7	6	4	1	7	6	2	4	7	6	4	2	7	4	0	103
(1)	9.33	9.33	3.63	3.11	2.07	.52	3.63	3.11	1.04	2.07	3.63	3.11	2.07	1.04	3.63	2.07	.00	53.37
(2)	.41	.41	.16	.14	.09	.02	.16	.14	.05	.09	.16	.14	.09	.05	.16	.09	.00	2.33
8-12	12	2	12	0	0	0	0	6	1	1	4	3	4	5	8	5	0	63
(1)	6.22	1.04	6.22	.00	.00	.00	.00	3.11	.52	.52	2.07	1.55	2.07	2.59	4.15	2.59	.00	32.64
(2)	.27	.05	.27	.00	.00	.00	.00	.14	.02	.02	.09	.07	.09	.11	.18	.11	.00	1.42
13-18	1	0	0	0	0	0	0	3	0	0	0	0	0	1	1	0	0	6
(1)	.52	.00	.00	.00	.00	.00	.00	1.55	.00	.00	.00	.00	.00	.52	.52	.00	.00	3.11
(2)	.02	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.02	.02	.00	.00	.14
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	33	22	21	7	7	1	8	16	4	6	12	11	8	12	16	9	0	193
(1)	17.10	11.40	10.88	3.63	3.63	.52	4.15	8.29	2.07	3.11	6.22	5.70	4.15	6.22	8.29	4.66	.00	100.00
(2)	.75	.50	.47	.16	.16	.02	.18	.36	.09	.14	.27	.25	.18	.27	.36	.20	.00	4.36

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-52— CCNPP 33 Feet October JFD
(Page 4 of 8)

CC OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 34.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	10	13	11	12	16	16	7	7	8	13	10	4	7	10	7	12	0	163
(1)	.66	.86	.73	.80	1.06	1.06	.47	.47	.53	.86	.66	.27	.47	.66	.47	.80	.00	10.83
(2)	.23	.29	.25	.27	.36	.36	.16	.16	.18	.29	.23	.09	.16	.23	.16	.27	.00	3.68
4-7	64	83	76	83	42	33	37	22	31	23	24	18	11	11	45	45	0	648
(1)	4.25	5.51	5.05	5.51	2.79	2.19	2.46	1.46	2.06	1.53	1.59	1.20	.73	.73	2.99	2.99	.00	43.06
(2)	1.45	1.88	1.72	1.88	.95	.75	.84	.50	.70	.52	.54	.41	.25	.25	1.02	1.02	.00	14.64
8-12	74	69	176	55	3	6	7	23	16	13	18	10	12	18	34	63	0	597
(1)	4.92	4.58	11.69	3.65	.20	.40	.47	1.53	1.06	.86	1.20	.66	.80	1.20	2.26	4.19	.00	39.67
(2)	1.67	1.56	3.98	1.24	.07	.14	.16	.52	.36	.29	.41	.23	.27	.41	.77	1.42	.00	13.49
13-18	38	6	31	2	0	0	0	8	1	0	1	0	0	1	1	2	0	91
(1)	2.52	.40	2.06	.13	.00	.00	.00	.53	.07	.00	.07	.00	.00	.07	.07	.13	.00	6.05
(2)	.86	.14	.70	.05	.00	.00	.00	.18	.02	.00	.02	.00	.00	.02	.02	.05	.00	2.06
19-24	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
(1)	.40	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.40
(2)	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	192	171	294	152	61	55	51	60	56	49	53	32	30	40	87	122	0	1505
(1)	12.76	11.36	19.53	10.10	4.05	3.65	3.39	3.99	3.72	3.26	3.52	2.13	1.99	2.66	5.78	8.11	.00	100.00
(2)	4.34	3.86	6.64	3.43	1.38	1.24	1.15	1.36	1.27	1.11	1.20	.72	.68	.90	1.97	2.76	.00	34.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-52— CCNPP 33 Feet October JFD
(Page 5 of 8)

CC OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 20.20

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	1	1	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	5
(1)	.11	.11	.00	.00	.11	.00	.00	.00	.11	.00	.11	.00	.00	.00	.00	.00	.00	.56
(2)	.02	.02	.00	.00	.02	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.11
C-3	12	5	12	7	12	12	6	7	16	17	15	10	10	14	21	5	0	181
(1)	1.34	.56	1.34	.78	1.34	1.34	.67	.78	1.79	1.90	1.68	1.12	1.12	1.57	2.35	.56	.00	20.25
(2)	.27	.11	.27	.16	.27	.27	.14	.16	.36	.38	.34	.23	.23	.32	.47	.11	.00	4.09
4-7	18	20	13	21	31	19	11	31	50	45	76	27	37	48	67	31	0	545
(1)	2.01	2.24	1.45	2.35	3.47	2.13	1.23	3.47	5.59	5.03	8.50	3.02	4.14	5.37	7.49	3.47	.00	60.96
(2)	.41	.45	.29	.47	.70	.43	.25	.70	1.13	1.02	1.72	.61	.84	1.08	1.51	.70	.00	12.31
8-12	12	9	5	1	0	0	0	6	12	20	25	8	5	13	32	13	0	161
(1)	1.34	1.01	.56	.11	.00	.00	.00	.67	1.34	2.24	2.80	.89	.56	1.45	3.58	1.45	.00	18.01
(2)	.27	.20	.11	.02	.00	.00	.00	.14	.27	.45	.56	.18	.11	.29	.72	.29	.00	3.64
13-18	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.11	.00	.00	.00	.00	.11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22
(2)	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	43	35	31	29	44	31	17	45	79	82	117	45	52	75	120	49	0	894
(1)	4.81	3.91	3.47	3.24	4.92	3.47	1.90	5.03	8.84	9.17	13.09	5.03	5.82	8.39	13.42	5.48	.00	100.00
(2)	.97	.79	.70	.66	.99	.70	.38	1.02	1.78	1.85	2.64	1.02	1.17	1.69	2.71	1.11	.00	20.20

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-52— CCNPP 33 Feet October JFD
(Page 6 of 8)

CC OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 10.39
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	2	4	5	2	6	2	11	20	25	33	18	11	36	9	6	0	192
(1)	.43	.43	.87	1.09	.43	1.30	.43	2.39	4.35	5.43	7.17	3.91	2.39	7.83	1.96	1.30	.00	41.74
(2)	.05	.05	.09	.11	.05	.14	.05	.25	.45	.56	.75	.41	.25	.81	.20	.14	.00	4.34
4-7	0	0	0	1	0	1	2	19	29	29	50	35	32	37	26	2	0	263
(1)	.00	.00	.00	.22	.00	.22	.43	4.13	6.30	6.30	10.87	7.61	6.96	8.04	5.65	.43	.00	57.17
(2)	.00	.00	.00	.02	.00	.02	.05	.43	.66	.66	1.13	.79	.72	.84	.59	.05	.00	5.94
8-12	0	0	0	0	0	0	0	0	0	0	1	0	0	2	2	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22	.00	.00	.43	.43	.00	.00	1.09
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.05	.05	.00	.00	.11
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	2	2	4	6	2	7	4	30	49	54	84	53	43	75	37	8	0	460
(1)	.43	.43	.87	1.30	.43	1.52	.87	6.52	10.65	11.74	18.26	11.52	9.35	16.30	8.04	1.74	.00	100.00
(2)	.05	.05	.09	.14	.05	.16	.09	.68	1.11	1.22	1.90	1.20	.97	1.69	.84	.18	.00	10.39

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-52— CCNPP 33 Feet October JFD

(Page 7 of 8)

CC OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA   STABILITY CLASS G   CLASS FREQUENCY (PERCENT) = 14.26

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	1	0	0	1	1	0	2	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.16	.00	.00	.16	.16	.00	.32	.00	.00	.00	.00	.00	.79
(2)	.00	.00	.00	.00	.00	.02	.00	.00	.02	.02	.00	.05	.00	.00	.00	.00	.00	.11
C-3	4	0	1	0	2	6	2	3	39	85	115	72	50	39	4	1	0	423
(1)	.63	.00	.16	.00	.32	.95	.32	.48	6.18	13.47	18.23	11.41	7.92	6.18	.63	.16	.00	67.04
(2)	.09	.00	.02	.00	.05	.14	.05	.07	.88	1.92	2.60	1.63	1.13	.88	.09	.02	.00	9.56
4-7	0	0	0	0	0	0	0	2	19	22	59	30	17	42	10	2	0	203
(1)	.00	.00	.00	.00	.00	.00	.00	.32	3.01	3.49	9.35	4.75	2.69	6.66	1.58	.32	.00	32.17
(2)	.00	.00	.00	.00	.00	.00	.00	.05	.43	.50	1.33	.68	.38	.95	.23	.05	.00	4.59
8-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	4	0	1	0	2	7	2	5	59	108	174	104	67	81	14	3	0	631
(1)	.63	.00	.16	.00	.32	1.11	.32	.79	9.35	17.12	27.58	16.48	10.62	12.84	2.22	.48	.00	100.00
(2)	.09	.00	.02	.00	.05	.16	.05	.11	1.33	2.44	3.93	2.35	1.51	1.83	.32	.07	.00	14.26

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-52— CCNPP 33 Feet October JFD
(Page 8 of 8)

CC OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	1	1	0	0	1	1	0	0	2	1	1	2	0	0	0	0	0	10
(1)	.02	.02	.00	.00	.02	.02	.00	.00	.05	.02	.02	.05	.00	.00	.00	.00	.00	.23
(2)	.02	.02	.00	.00	.02	.02	.00	.00	.05	.02	.02	.05	.00	.00	.00	.00	.00	.23
C-3	31	25	33	28	39	40	19	30	84	141	176	109	79	107	41	24	0	1006
(1)	.70	.56	.75	.63	.88	.90	.43	.68	1.90	3.19	3.98	2.46	1.78	2.42	.93	.54	.00	22.73
(2)	.70	.56	.75	.63	.88	.90	.43	.68	1.90	3.19	3.98	2.46	1.78	2.42	.93	.54	.00	22.73
4-7	133	168	107	125	88	67	73	99	143	145	259	136	118	158	175	99	0	2093
(1)	3.00	3.80	2.42	2.82	1.99	1.51	1.65	2.24	3.23	3.28	5.85	3.07	2.67	3.57	3.95	2.24	.00	47.29
(2)	3.00	3.80	2.42	2.82	1.99	1.51	1.65	2.24	3.23	3.28	5.85	3.07	2.67	3.57	3.95	2.24	.00	47.29
8-12	170	117	206	58	5	6	10	66	34	40	74	45	34	77	127	97	0	1166
(1)	3.84	2.64	4.65	1.31	.11	.14	.23	1.49	.77	.90	1.67	1.02	.77	1.74	2.87	2.19	.00	26.34
(2)	3.84	2.64	4.65	1.31	.11	.14	.23	1.49	.77	.90	1.67	1.02	.77	1.74	2.87	2.19	.00	26.34
13-18	44	6	37	4	0	0	0	18	1	0	2	4	7	7	13	2	0	145
(1)	.99	.14	.84	.09	.00	.00	.00	.41	.02	.00	.05	.09	.16	.16	.29	.05	.00	3.28
(2)	.99	.14	.84	.09	.00	.00	.00	.41	.02	.00	.05	.09	.16	.16	.29	.05	.00	3.28
19-24	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
(1)	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
(2)	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	385	317	383	215	133	114	102	213	264	327	512	296	238	349	356	222	0	4426
(1)	8.70	7.16	8.65	4.86	3.00	2.58	2.30	4.81	5.96	7.39	11.57	6.69	5.38	7.89	8.04	5.02	.00	100.00
(2)	8.70	7.16	8.65	4.86	3.00	2.58	2.30	4.81	5.96	7.39	11.57	6.69	5.38	7.89	8.04	5.02	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-53— CCNPP 33 Feet November JFD
(Page 1 of 8)

CC NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 13.17
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	1	0	0	0	0	0	0	0	3	0	0	1	0	0	0	0	6
(1)	.18	.18	.00	.00	.00	.00	.00	.00	.00	.53	.00	.00	.18	.00	.00	.00	.00	1.05
(2)	.02	.02	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.02	.00	.00	.00	.00	.14
4-7	12	20	12	7	10	9	6	8	16	29	36	12	7	7	6	8	0	205
(1)	2.11	3.51	2.11	1.23	1.76	1.58	1.05	1.41	2.81	5.10	6.33	2.11	1.23	1.23	1.05	1.41	.00	36.03
(2)	.28	.46	.28	.16	.23	.21	.14	.19	.37	.67	.83	.28	.16	.16	.14	.19	.00	4.75
8-12	55	18	5	0	0	0	4	15	8	32	69	15	11	33	21	26	0	312
(1)	9.67	3.16	.88	.00	.00	.00	.70	2.64	1.41	5.62	12.13	2.64	1.93	5.80	3.69	4.57	.00	54.83
(2)	1.27	.42	.12	.00	.00	.00	.09	.35	.19	.74	1.60	.35	.25	.76	.49	.60	.00	7.22
13-18	1	0	1	0	0	0	0	3	1	2	1	0	4	11	15	5	0	44
(1)	.18	.00	.18	.00	.00	.00	.00	.53	.18	.35	.18	.00	.70	1.93	2.64	.88	.00	7.73
(2)	.02	.00	.02	.00	.00	.00	.00	.07	.02	.05	.02	.00	.09	.25	.35	.12	.00	1.02
19-24	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.18	.00	.00	.00	.35
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.05
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	69	39	18	7	10	9	10	26	25	66	106	27	24	52	42	39	0	569
(1)	12.13	6.85	3.16	1.23	1.76	1.58	1.76	4.57	4.39	11.60	18.63	4.75	4.22	9.14	7.38	6.85	.00	100.00
(2)	1.60	.90	.42	.16	.23	.21	.23	.60	.58	1.53	2.45	.63	.56	1.20	.97	.90	.00	13.17

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-53— CCNPP 33 Feet November JFD
(Page 2 of 8)

CC NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 3.59
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.65	.00	.00	.00	.00	.00	.65
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
C-3	0	0	0	0	1	0	1	1	0	0	0	2	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.65	.00	.65	.65	.00	.00	.00	1.29	.00	.00	.00	.00	.00	3.23
(2)	.00	.00	.00	.00	.02	.00	.02	.02	.00	.00	.00	.05	.00	.00	.00	.00	.00	.12
4-7	3	7	4	1	3	5	2	5	1	4	10	9	3	3	2	0	0	62
(1)	1.94	4.52	2.58	.65	1.94	3.23	1.29	3.23	.65	2.58	6.45	5.81	1.94	1.94	1.29	.00	.00	40.00
(2)	.07	.16	.09	.02	.07	.12	.05	.12	.02	.09	.23	.21	.07	.07	.05	.00	.00	1.44
8-12	10	7	1	0	0	0	0	3	0	7	6	4	6	10	9	7	0	70
(1)	6.45	4.52	.65	.00	.00	.00	.00	1.94	.00	4.52	3.87	2.58	3.87	6.45	5.81	4.52	.00	45.16
(2)	.23	.16	.02	.00	.00	.00	.00	.07	.00	.16	.14	.09	.14	.23	.21	.16	.00	1.62
13-18	2	1	0	0	0	0	0	1	0	0	0	0	0	4	5	2	0	15
(1)	1.29	.65	.00	.00	.00	.00	.00	.65	.00	.00	.00	.00	.00	2.58	3.23	1.29	.00	9.68
(2)	.05	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.09	.12	.05	.00	.35
19-24	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2
(1)	.65	.00	.00	.00	.00	.00	.00	.65	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.29
(2)	.02	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	16	15	5	1	4	5	3	11	1	11	16	16	9	17	16	9	0	155
(1)	10.32	9.68	3.23	.65	2.58	3.23	1.94	7.10	.65	7.10	10.32	10.32	5.81	10.97	10.32	5.81	.00	100.00
(2)	.37	.35	.12	.02	.09	.12	.07	.25	.02	.25	.37	.37	.21	.39	.37	.21	.00	3.59

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-53— CCNPP 33 Feet November JFD
(Page 3 of 8)

CC NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 3.68
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	0	0	2	0	0	2	2	1	0	0	1	0	1	0	0	10
(1)	.00	.63	.00	.00	1.26	.00	.00	1.26	1.26	.63	.00	.00	.63	.00	.63	.00	.00	6.29
(2)	.00	.02	.00	.00	.05	.00	.00	.05	.05	.02	.00	.00	.02	.00	.02	.00	.00	.23
4-7	3	6	6	5	3	6	5	9	1	7	10	7	2	2	4	1	0	77
(1)	1.89	3.77	3.77	3.14	1.89	3.77	3.14	5.66	.63	4.40	6.29	4.40	1.26	1.26	2.52	.63	.00	48.43
(2)	.07	.14	.14	.12	.07	.14	.12	.21	.02	.16	.23	.16	.05	.05	.09	.02	.00	1.78
8-12	5	6	0	0	0	0	2	4	4	3	2	4	3	5	3	3	0	44
(1)	3.14	3.77	.00	.00	.00	.00	1.26	2.52	2.52	1.89	1.26	2.52	1.89	3.14	1.89	1.89	.00	27.67
(2)	.12	.14	.00	.00	.00	.00	.05	.09	.09	.07	.05	.09	.07	.12	.07	.07	.00	1.02
13-18	7	4	0	0	0	0	0	1	0	1	0	0	2	6	3	3	0	27
(1)	4.40	2.52	.00	.00	.00	.00	.00	.63	.00	.63	.00	.00	1.26	3.77	1.89	1.89	.00	16.98
(2)	.16	.09	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.05	.14	.07	.07	.00	.62
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.63	.00	.00	.00	.63
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	15	17	6	5	5	6	7	16	7	12	12	11	8	14	11	7	0	159
(1)	9.43	10.69	3.77	3.14	3.14	3.77	4.40	10.06	4.40	7.55	7.55	6.92	5.03	8.81	6.92	4.40	.00	100.00
(2)	.35	.39	.14	.12	.12	.14	.16	.37	.16	.28	.28	.25	.19	.32	.25	.16	.00	3.68

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-53— CCNPP 33 Feet November JFD

(Page 4 of 8)

CC NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 30.30

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	6	12	12	9	14	12	5	10	12	11	7	12	1	6	5	4	0	138
(1)	.46	.92	.92	.69	1.07	.92	.38	.76	.92	.84	.53	.92	.08	.46	.38	.31	.00	10.54
(2)	.14	.28	.28	.21	.32	.28	.12	.23	.28	.25	.16	.28	.02	.14	.12	.09	.00	3.19
4-7	24	31	16	36	37	30	52	51	47	29	30	24	13	11	32	31	0	494
(1)	1.83	2.37	1.22	2.75	2.83	2.29	3.97	3.90	3.59	2.22	2.29	1.83	.99	.84	2.44	2.37	.00	37.74
(2)	.56	.72	.37	.83	.86	.69	1.20	1.18	1.09	.67	.69	.56	.30	.25	.74	.72	.00	11.44
8-12	42	30	32	12	6	8	9	76	38	24	44	20	17	46	63	69	0	536
(1)	3.21	2.29	2.44	.92	.46	.61	.69	5.81	2.90	1.83	3.36	1.53	1.30	3.51	4.81	5.27	.00	40.95
(2)	.97	.69	.74	.28	.14	.19	.21	1.76	.88	.56	1.02	.46	.39	1.06	1.46	1.60	.00	12.41
13-18	24	13	5	0	0	0	0	12	4	1	4	3	3	36	19	8	0	132
(1)	1.83	.99	.38	.00	.00	.00	.00	.92	.31	.08	.31	.23	.23	2.75	1.45	.61	.00	10.08
(2)	.56	.30	.12	.00	.00	.00	.00	.28	.09	.02	.09	.07	.07	.83	.44	.19	.00	3.06
19-24	4	0	0	0	0	0	0	1	0	0	0	0	1	2	1	0	0	9
(1)	.31	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.08	.15	.08	.00	.00	.69
(2)	.09	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.05	.02	.00	.00	.21
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	100	86	65	57	57	50	66	150	101	65	85	59	35	101	120	112	0	1309
(1)	7.64	6.57	4.97	4.35	4.35	3.82	5.04	11.46	7.72	4.97	6.49	4.51	2.67	7.72	9.17	8.56	.00	100.00
(2)	2.31	1.99	1.50	1.32	1.32	1.16	1.53	3.47	2.34	1.50	1.97	1.37	.81	2.34	2.78	2.59	.00	30.30

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-53— CCNPP 33 Feet November JFD

(Page 5 of 8)

CC NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 28.56

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
C-3	12	14	13	19	16	17	8	26	29	36	31	20	14	19	17	13	0	304
(1)	.97	1.13	1.05	1.54	1.30	1.38	.65	2.11	2.35	2.92	2.51	1.62	1.13	1.54	1.38	1.05	.00	24.64
(2)	.28	.32	.30	.44	.37	.39	.19	.60	.67	.83	.72	.46	.32	.44	.39	.30	.00	7.04
4-7	20	13	13	11	18	9	14	17	59	97	102	52	32	35	110	54	0	656
(1)	1.62	1.05	1.05	.89	1.46	.73	1.13	1.38	4.78	7.86	8.27	4.21	2.59	2.84	8.91	4.38	.00	53.16
(2)	.46	.30	.30	.25	.42	.21	.32	.39	1.37	2.25	2.36	1.20	.74	.81	2.55	1.25	.00	15.19
8-12	6	4	0	0	4	0	0	14	27	27	75	11	16	20	38	19	0	261
(1)	.49	.32	.00	.00	.32	.00	.00	1.13	2.19	2.19	6.08	.89	1.30	1.62	3.08	1.54	.00	21.15
(2)	.14	.09	.00	.00	.09	.00	.00	.32	.63	.63	1.74	.25	.37	.46	.88	.44	.00	6.04
13-18	0	0	0	0	0	0	0	3	0	0	2	1	1	4	1	0	0	12
(1)	.00	.00	.00	.00	.00	.00	.00	.24	.00	.00	.16	.08	.08	.32	.08	.00	.00	.97
(2)	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.05	.02	.02	.09	.02	.00	.00	.28
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	38	31	26	30	38	26	22	61	115	160	210	84	63	78	166	86	0	1234
(1)	3.08	2.51	2.11	2.43	3.08	2.11	1.78	4.94	9.32	12.97	17.02	6.81	5.11	6.32	13.45	6.97	.00	100.00
(2)	.88	.72	.60	.69	.88	.60	.51	1.41	2.66	3.70	4.86	1.94	1.46	1.81	3.84	1.99	.00	28.56

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-53— CCNPP 33 Feet November JFD
(Page 6 of 8)

CC NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 11.67
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	1	0	0	0	1	0	2	0	1	2	0	1	1	0	0	9
(1)	.00	.00	.20	.00	.00	.00	.20	.00	.40	.00	.20	.40	.00	.20	.20	.00	.00	1.79
(2)	.00	.00	.02	.00	.00	.00	.02	.00	.05	.00	.02	.05	.00	.02	.02	.00	.00	.21
C-3	8	8	5	6	3	6	5	15	35	42	44	19	12	13	9	5	0	235
(1)	1.59	1.59	.99	1.19	.60	1.19	.99	2.98	6.94	8.33	8.73	3.77	2.38	2.58	1.79	.99	.00	46.63
(2)	.19	.19	.12	.14	.07	.14	.12	.35	.81	.97	1.02	.44	.28	.30	.21	.12	.00	5.44
4-7	2	2	1	1	1	1	9	6	24	52	58	16	14	29	36	1	0	253
(1)	.40	.40	.20	.20	.20	.20	1.79	1.19	4.76	10.32	11.51	3.17	2.78	5.75	7.14	.20	.00	50.20
(2)	.05	.05	.02	.02	.02	.02	.21	.14	.56	1.20	1.34	.37	.32	.67	.83	.02	.00	5.86
8-12	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.99	.20	.00	.00	.00	.00	.00	1.39
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.12	.02	.00	.00	.00	.00	.00	.16
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	10	10	7	7	4	7	15	21	61	95	108	38	26	43	46	6	0	504
(1)	1.98	1.98	1.39	1.39	.79	1.39	2.98	4.17	12.10	18.85	21.43	7.54	5.16	8.53	9.13	1.19	.00	100.00
(2)	.23	.23	.16	.16	.09	.16	.35	.49	1.41	2.20	2.50	.88	.60	1.00	1.06	.14	.00	11.67

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-53— CCNPP 33 Feet November JFD
(Page 7 of 8)

CC NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 9.03
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	2	0	0	0	1	2	0	0	2	1	0	0	1	0	9
(1)	.00	.00	.00	.51	.00	.00	.00	.26	.51	.00	.00	.51	.26	.00	.00	.26	.00	2.31
(2)	.00	.00	.00	.05	.00	.00	.00	.02	.05	.00	.00	.05	.02	.00	.00	.02	.00	.21
C-3	3	0	2	2	0	3	4	8	16	55	53	40	24	21	2	0	0	233
(1)	.77	.00	.51	.51	.00	.77	1.03	2.05	4.10	14.10	13.59	10.26	6.15	5.38	.51	.00	.00	59.74
(2)	.07	.00	.05	.05	.00	.07	.09	.19	.37	1.27	1.23	.93	.56	.49	.05	.00	.00	5.39
4-7	0	0	0	0	0	4	3	5	7	27	47	16	18	16	5	0	0	148
(1)	.00	.00	.00	.00	.00	1.03	.77	1.28	1.79	6.92	12.05	4.10	4.62	4.10	1.28	.00	.00	37.95
(2)	.00	.00	.00	.00	.00	.09	.07	.12	.16	.63	1.09	.37	.42	.37	.12	.00	.00	3.43
8-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	3	0	2	4	0	7	7	14	25	82	100	58	43	37	7	1	0	390
(1)	.77	.00	.51	1.03	.00	1.79	1.79	3.59	6.41	21.03	25.64	14.87	11.03	9.49	1.79	.26	.00	100.00
(2)	.07	.00	.05	.09	.00	.16	.16	.32	.58	1.90	2.31	1.34	1.00	.86	.16	.02	.00	9.03

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-53— CCNPP 33 Feet November JFD

(Page 8 of 8)

CC NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA   STABILITY CLASS ALL   CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	1	2	0	0	1	2	4	0	1	5	1	1	1	1	0	20
(1)	.00	.00	.02	.05	.00	.00	.02	.05	.09	.00	.02	.12	.02	.02	.02	.02	.00	.46
(2)	.00	.00	.02	.05	.00	.00	.02	.05	.09	.00	.02	.12	.02	.02	.02	.02	.00	.46
C-3	30	36	32	36	36	38	23	62	94	148	135	93	53	59	34	22	0	931
(1)	.69	.83	.74	.83	.83	.88	.53	1.44	2.18	3.43	3.13	2.15	1.23	1.37	.79	.51	.00	21.55
(2)	.69	.83	.74	.83	.83	.88	.53	1.44	2.18	3.43	3.13	2.15	1.23	1.37	.79	.51	.00	21.55
4-7	64	79	52	61	72	64	91	101	155	245	293	136	89	103	195	95	0	1895
(1)	1.48	1.83	1.20	1.41	1.67	1.48	2.11	2.34	3.59	5.67	6.78	3.15	2.06	2.38	4.51	2.20	.00	43.87
(2)	1.48	1.83	1.20	1.41	1.67	1.48	2.11	2.34	3.59	5.67	6.78	3.15	2.06	2.38	4.51	2.20	.00	43.87
8-12	118	65	38	12	10	8	15	112	77	94	201	55	53	114	134	124	0	1230
(1)	2.73	1.50	.88	.28	.23	.19	.35	2.59	1.78	2.18	4.65	1.27	1.23	2.64	3.10	2.87	.00	28.47
(2)	2.73	1.50	.88	.28	.23	.19	.35	2.59	1.78	2.18	4.65	1.27	1.23	2.64	3.10	2.87	.00	28.47
13-18	34	18	6	0	0	0	0	20	5	4	7	4	10	61	43	18	0	230
(1)	.79	.42	.14	.00	.00	.00	.00	.46	.12	.09	.16	.09	.23	1.41	1.00	.42	.00	5.32
(2)	.79	.42	.14	.00	.00	.00	.00	.46	.12	.09	.16	.09	.23	1.41	1.00	.42	.00	5.32
19-24	5	0	0	0	0	0	0	2	0	0	0	0	2	4	1	0	0	14
(1)	.12	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05	.09	.02	.00	.00	.32
(2)	.12	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05	.09	.02	.00	.00	.32
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	251	198	129	111	118	110	130	299	335	491	637	293	208	342	408	260	0	4320
(1)	5.81	4.58	2.99	2.57	2.73	2.55	3.01	6.92	7.75	11.37	14.75	6.78	4.81	7.92	9.44	6.02	.00	100.00
(2)	5.81	4.58	2.99	2.57	2.73	2.55	3.01	6.92	7.75	11.37	14.75	6.78	4.81	7.92	9.44	6.02	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-54— CCNPP 33 Feet December JFD

(Page 1 of 8)

CC DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 8.36

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	1	1	0	0	0	0	1	1	0	2	2	1	0	0	9
(1)	.00	.00	.00	.28	.28	.00	.00	.00	.00	.28	.28	.00	.56	.56	.28	.00	.00	2.50
(2)	.00	.00	.00	.02	.02	.00	.00	.00	.00	.02	.02	.00	.05	.05	.02	.00	.00	.21
4-7	15	7	7	5	2	0	0	0	2	12	12	10	7	10	6	3	0	98
(1)	4.17	1.94	1.94	1.39	.56	.00	.00	.00	.56	3.33	3.33	2.78	1.94	2.78	1.67	.83	.00	27.22
(2)	.35	.16	.16	.12	.05	.00	.00	.00	.05	.28	.28	.23	.16	.23	.14	.07	.00	2.27
8-12	22	9	6	3	0	0	0	4	5	22	28	23	15	26	22	7	0	192
(1)	6.11	2.50	1.67	.83	.00	.00	.00	1.11	1.39	6.11	7.78	6.39	4.17	7.22	6.11	1.94	.00	53.33
(2)	.51	.21	.14	.07	.00	.00	.00	.09	.12	.51	.65	.53	.35	.60	.51	.16	.00	4.46
13-18	3	0	1	0	0	0	0	0	0	2	3	1	5	21	22	3	0	61
(1)	.83	.00	.28	.00	.00	.00	.00	.00	.00	.56	.83	.28	1.39	5.83	6.11	.83	.00	16.94
(2)	.07	.00	.02	.00	.00	.00	.00	.00	.00	.05	.07	.02	.12	.49	.51	.07	.00	1.42
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	40	16	14	9	3	0	0	4	7	37	44	34	29	59	51	13	0	360
(1)	11.11	4.44	3.89	2.50	.83	.00	.00	1.11	1.94	10.28	12.22	9.44	8.06	16.39	14.17	3.61	.00	100.00
(2)	.93	.37	.32	.21	.07	.00	.00	.09	.16	.86	1.02	.79	.67	1.37	1.18	.30	.00	8.36

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-54— CCNPP 33 Feet December JFD
(Page 2 of 8)

CC DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 4.22
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
(1)	.00	.55	.00	.00	.00	.00	.00	.00	.00	.55	.00	.00	.00	.00	.00	.00	.00	1.10
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.05
4-7	4	10	5	2	2	0	1	1	2	2	5	5	5	3	7	3	0	57
(1)	2.20	5.49	2.75	1.10	1.10	.00	.55	.55	1.10	1.10	2.75	2.75	2.75	1.65	3.85	1.65	.00	31.32
(2)	.09	.23	.12	.05	.05	.00	.02	.02	.05	.05	.12	.12	.12	.07	.16	.07	.00	1.32
8-12	14	8	3	0	0	0	0	1	1	8	12	6	8	10	16	6	0	93
(1)	7.69	4.40	1.65	.00	.00	.00	.00	.55	.55	4.40	6.59	3.30	4.40	5.49	8.79	3.30	.00	51.10
(2)	.32	.19	.07	.00	.00	.00	.00	.02	.02	.19	.28	.14	.19	.23	.37	.14	.00	2.16
13-18	2	0	0	0	0	0	0	0	1	0	1	1	1	8	12	2	0	28
(1)	1.10	.00	.00	.00	.00	.00	.00	.00	.55	.00	.55	.55	.55	4.40	6.59	1.10	.00	15.38
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.02	.02	.19	.28	.05	.00	.65
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10	.00	.00	1.10
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	20	19	8	2	2	0	1	2	4	11	18	12	14	21	37	11	0	182
(1)	10.99	10.44	4.40	1.10	1.10	.00	.55	1.10	2.20	6.04	9.89	6.59	7.69	11.54	20.33	6.04	.00	100.00
(2)	.46	.44	.19	.05	.05	.00	.02	.05	.09	.26	.42	.28	.32	.49	.86	.26	.00	4.22

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-54— CCNPP 33 Feet December JFD

(Page 3 of 8)

CC DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA   STABILITY CLASS C   CLASS FREQUENCY (PERCENT) = 4.36

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	2	1	1	1	0	1	0	0	0	0	1	0	0	0	0	0	7
(1)	.00	1.06	.53	.53	.53	.00	.53	.00	.00	.00	.00	.53	.00	.00	.00	.00	.00	3.72
(2)	.00	.05	.02	.02	.02	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.16
4-7	7	5	5	1	4	3	2	3	3	4	4	6	8	7	4	5	0	71
(1)	3.72	2.66	2.66	.53	2.13	1.60	1.06	1.60	1.60	2.13	2.13	3.19	4.26	3.72	2.13	2.66	.00	37.77
(2)	.16	.12	.12	.02	.09	.07	.05	.07	.07	.09	.09	.14	.19	.16	.09	.12	.00	1.65
8-12	9	6	2	2	0	0	0	0	6	3	14	6	8	12	15	5	0	88
(1)	4.79	3.19	1.06	1.06	.00	.00	.00	.00	3.19	1.60	7.45	3.19	4.26	6.38	7.98	2.66	.00	46.81
(2)	.21	.14	.05	.05	.00	.00	.00	.00	.14	.07	.32	.14	.19	.28	.35	.12	.00	2.04
13-18	1	0	0	0	0	0	0	0	0	0	2	0	0	7	8	3	0	21
(1)	.53	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.06	.00	.00	3.72	4.26	1.60	.00	11.17
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.16	.19	.07	.00	.49
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.53	.00	.00	.53
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	17	13	8	4	5	3	3	3	9	7	20	13	16	26	28	13	0	188
(1)	9.04	6.91	4.26	2.13	2.66	1.60	1.60	1.60	4.79	3.72	10.64	6.91	8.51	13.83	14.89	6.91	.00	100.00
(2)	.39	.30	.19	.09	.12	.07	.07	.07	.21	.16	.46	.30	.37	.60	.65	.30	.00	4.36

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-54— CCNPP 33 Feet December JFD
(Page 4 of 8)

CC DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 35.54

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.07	.00	.00	.07	.00	.00	.00	.20
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.02	.00	.00	.00	.07
C-3	11	10	8	6	7	6	2	5	7	4	8	9	14	6	10	4	0	117
(1)	.72	.65	.52	.39	.46	.39	.13	.33	.46	.26	.52	.59	.91	.39	.65	.26	.00	7.64
(2)	.26	.23	.19	.14	.16	.14	.05	.12	.16	.09	.19	.21	.32	.14	.23	.09	.00	2.72
4-7	50	53	38	46	26	18	22	27	30	37	36	33	32	33	56	53	0	590
(1)	3.27	3.46	2.48	3.00	1.70	1.18	1.44	1.76	1.96	2.42	2.35	2.16	2.09	2.16	3.66	3.46	.00	38.54
(2)	1.16	1.23	.88	1.07	.60	.42	.51	.63	.70	.86	.84	.77	.74	.77	1.30	1.23	.00	13.70
8-12	87	71	70	34	5	0	2	18	23	14	36	28	30	55	109	65	0	647
(1)	5.68	4.64	4.57	2.22	.33	.00	.13	1.18	1.50	.91	2.35	1.83	1.96	3.59	7.12	4.25	.00	42.26
(2)	2.02	1.65	1.62	.79	.12	.00	.05	.42	.53	.32	.84	.65	.70	1.28	2.53	1.51	.00	15.02
13-18	24	6	14	4	0	0	5	7	6	0	2	5	9	36	36	7	0	161
(1)	1.57	.39	.91	.26	.00	.00	.33	.46	.39	.00	.13	.33	.59	2.35	2.35	.46	.00	10.52
(2)	.56	.14	.32	.09	.00	.00	.12	.16	.14	.00	.05	.12	.21	.84	.84	.16	.00	3.74
19-24	3	0	1	0	0	0	1	0	0	0	0	0	1	3	4	0	0	13
(1)	.20	.00	.07	.00	.00	.00	.07	.00	.00	.00	.00	.00	.07	.20	.26	.00	.00	.85
(2)	.07	.00	.02	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02	.07	.09	.00	.00	.30
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	175	140	131	90	38	24	32	57	66	56	83	75	86	134	215	129	0	1531
(1)	11.43	9.14	8.56	5.88	2.48	1.57	2.09	3.72	4.31	3.66	5.42	4.90	5.62	8.75	14.04	8.43	.00	100.00
(2)	4.06	3.25	3.04	2.09	.88	.56	.74	1.32	1.53	1.30	1.93	1.74	2.00	3.11	4.99	2.99	.00	35.54

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-54— CCNPP 33 Feet December JFD
(Page 5 of 8)

CC DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 36.05
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	3
(1)	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.06	.00	.00	.00	.00	.00	.19
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.07
C-3	12	13	9	9	4	6	23	17	22	29	21	26	40	24	35	21	0	311
(1)	.77	.84	.58	.58	.26	.39	1.48	1.09	1.42	1.87	1.35	1.67	2.58	1.55	2.25	1.35	.00	20.03
(2)	.28	.30	.21	.21	.09	.14	.53	.39	.51	.67	.49	.60	.93	.56	.81	.49	.00	7.22
4-7	30	20	19	14	11	4	26	34	59	73	72	60	82	95	133	72	0	804
(1)	1.93	1.29	1.22	.90	.71	.26	1.67	2.19	3.80	4.70	4.64	3.86	5.28	6.12	8.56	4.64	.00	51.77
(2)	.70	.46	.44	.32	.26	.09	.60	.79	1.37	1.69	1.67	1.39	1.90	2.21	3.09	1.67	.00	18.66
8-12	10	9	1	0	0	0	4	20	16	46	123	15	39	59	43	26	0	411
(1)	.64	.58	.06	.00	.00	.00	.26	1.29	1.03	2.96	7.92	.97	2.51	3.80	2.77	1.67	.00	26.46
(2)	.23	.21	.02	.00	.00	.00	.09	.46	.37	1.07	2.86	.35	.91	1.37	1.00	.60	.00	9.54
13-18	0	0	0	0	0	0	3	7	0	0	2	1	1	8	1	0	0	23
(1)	.00	.00	.00	.00	.00	.00	.19	.45	.00	.00	.13	.06	.06	.52	.06	.00	.00	1.48
(2)	.00	.00	.00	.00	.00	.00	.07	.16	.00	.00	.05	.02	.02	.19	.02	.00	.00	.53
19-24	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	53	42	29	23	15	10	56	79	97	148	219	103	162	186	212	119	0	1553
(1)	3.41	2.70	1.87	1.48	.97	.64	3.61	5.09	6.25	9.53	14.10	6.63	10.43	11.98	13.65	7.66	.00	100.00
(2)	1.23	.97	.67	.53	.35	.23	1.30	1.83	2.25	3.44	5.08	2.39	3.76	4.32	4.92	2.76	.00	36.05

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-54— CCNPP 33 Feet December JFD
(Page 6 of 8)

CC DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA   STABILITY CLASS F   CLASS FREQUENCY (PERCENT) = 8.73
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	1	2	1	1	0	1	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.27	.53	.27	.27	.00	.27	.00	.00	.00	1.60
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.02	.02	.00	.02	.00	.00	.00	.14
C-3	6	1	4	5	6	6	3	10	6	25	33	20	21	28	10	1	0	185
(1)	1.60	.27	1.06	1.33	1.60	1.60	.80	2.66	1.60	6.65	8.78	5.32	5.59	7.45	2.66	.27	.00	49.20
(2)	.14	.02	.09	.12	.14	.14	.07	.23	.14	.58	.77	.46	.49	.65	.23	.02	.00	4.29
4-7	1	4	0	1	0	0	1	1	23	49	47	15	12	13	14	1	0	182
(1)	.27	1.06	.00	.27	.00	.00	.27	.27	6.12	13.03	12.50	3.99	3.19	3.46	3.72	.27	.00	48.40
(2)	.02	.09	.00	.02	.00	.00	.02	.02	.53	1.14	1.09	.35	.28	.30	.32	.02	.00	4.22
8-12	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.27	.27	.27	.00	.00	.00	.00	.00	.00	.80
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.02	.00	.00	.00	.00	.00	.00	.07
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	7	5	4	6	6	6	4	11	31	77	82	36	33	42	24	2	0	376
(1)	1.86	1.33	1.06	1.60	1.60	1.60	1.06	2.93	8.24	20.48	21.81	9.57	8.78	11.17	6.38	.53	.00	100.00
(2)	.16	.12	.09	.14	.14	.14	.09	.26	.72	1.79	1.90	.84	.77	.97	.56	.05	.00	8.73

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-54— CCNPP 33 Feet December JFD

(Page 7 of 8)

CC DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

33.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 2.74

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.85	.00	.00	.00	.85	.00	.85	.00	.00	.00	.00	.00	.00	2.54
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.07
C-3	1	0	0	1	1	1	1	0	9	17	18	13	5	2	1	1	0	71
(1)	.85	.00	.00	.85	.85	.85	.85	.00	7.63	14.41	15.25	11.02	4.24	1.69	.85	.85	.00	60.17
(2)	.02	.00	.00	.02	.02	.02	.02	.00	.21	.39	.42	.30	.12	.05	.02	.02	.00	1.65
4-7	1	0	0	0	0	0	0	1	10	13	12	0	5	1	0	0	0	43
(1)	.85	.00	.00	.00	.00	.00	.00	.85	8.47	11.02	10.17	.00	4.24	.85	.00	.00	.00	36.44
(2)	.02	.00	.00	.00	.00	.00	.00	.02	.23	.30	.28	.00	.12	.02	.00	.00	.00	1.00
8-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.85	.00	.00	.85
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	2	0	0	1	2	1	1	1	20	30	31	13	10	3	2	1	0	118
(1)	1.69	.00	.00	.85	1.69	.85	.85	.85	16.95	25.42	26.27	11.02	8.47	2.54	1.69	.85	.00	100.00
(2)	.05	.00	.00	.02	.05	.02	.02	.02	.46	.70	.72	.30	.23	.07	.05	.02	.00	2.74

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-54— CCNPP 33 Feet December JFD
(Page 8 of 8)

CC DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
33.0 FT WIND DATA   STABILITY CLASS ALL   CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	1	0	0	0	1	0	0	0	2	3	4	2	0	2	0	0	0	15
(1)	.02	.00	.00	.00	.02	.00	.00	.00	.05	.07	.09	.05	.00	.05	.00	.00	.00	.35
(2)	.02	.00	.00	.00	.02	.00	.00	.00	.05	.07	.09	.05	.00	.05	.00	.00	.00	.35
C-3	30	27	22	23	20	19	30	32	44	77	81	69	82	62	57	27	0	702
(1)	.70	.63	.51	.53	.46	.44	.70	.74	1.02	1.79	1.88	1.60	1.90	1.44	1.32	.63	.00	16.30
(2)	.70	.63	.51	.53	.46	.44	.70	.74	1.02	1.79	1.88	1.60	1.90	1.44	1.32	.63	.00	16.30
4-7	108	99	74	69	45	25	52	67	129	190	188	129	151	162	220	137	0	1845
(1)	2.51	2.30	1.72	1.60	1.04	.58	1.21	1.56	2.99	4.41	4.36	2.99	3.51	3.76	5.11	3.18	.00	42.83
(2)	2.51	2.30	1.72	1.60	1.04	.58	1.21	1.56	2.99	4.41	4.36	2.99	3.51	3.76	5.11	3.18	.00	42.83
8-12	142	103	82	39	5	0	6	43	52	94	214	78	100	162	206	109	0	1435
(1)	3.30	2.39	1.90	.91	.12	.00	.14	1.00	1.21	2.18	4.97	1.81	2.32	3.76	4.78	2.53	.00	33.31
(2)	3.30	2.39	1.90	.91	.12	.00	.14	1.00	1.21	2.18	4.97	1.81	2.32	3.76	4.78	2.53	.00	33.31
13-18	30	6	15	4	0	0	8	14	7	2	10	8	16	80	79	15	0	294
(1)	.70	.14	.35	.09	.00	.00	.19	.32	.16	.05	.23	.19	.37	1.86	1.83	.35	.00	6.82
(2)	.70	.14	.35	.09	.00	.00	.19	.32	.16	.05	.23	.19	.37	1.86	1.83	.35	.00	6.82
19-24	3	0	1	0	0	0	1	1	0	0	0	0	1	3	7	0	0	17
(1)	.07	.00	.02	.00	.00	.00	.02	.02	.00	.00	.00	.00	.02	.07	.16	.00	.00	.39
(2)	.07	.00	.02	.00	.00	.00	.02	.02	.00	.00	.00	.00	.02	.07	.16	.00	.00	.39
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	314	235	194	135	71	44	97	157	234	366	497	286	350	471	569	288	0	4308
(1)	7.29	5.45	4.50	3.13	1.65	1.02	2.25	3.64	5.43	8.50	11.54	6.64	8.12	10.93	13.21	6.69	.00	100.00
(2)	7.29	5.45	4.50	3.13	1.65	1.02	2.25	3.64	5.43	8.50	11.54	6.64	8.12	10.93	13.21	6.69	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-55— CCNPP 197' Annual JFD
(Page 1 of 8)

CC JAN00-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 11.75
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	3	5	5	4	9	2	1	1	0	1	0	3	0	1	0	2	0	37
(1)	.05	.08	.08	.07	.15	.03	.02	.02	.00	.02	.00	.05	.00	.02	.00	.03	.00	.61
(2)	.01	.01	.01	.01	.02	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.07
4-7	122	144	76	68	101	64	42	39	41	82	122	65	29	14	15	23	0	1047
(1)	2.01	2.37	1.25	1.12	1.66	1.05	.69	.64	.68	1.35	2.01	1.07	.48	.23	.25	.38	.00	17.25
(2)	.24	.28	.15	.13	.20	.12	.08	.08	.08	.16	.24	.13	.06	.03	.03	.04	.00	2.03
8-12	443	294	46	19	31	69	155	225	111	274	432	228	121	110	109	86	0	2753
(1)	7.30	4.84	.76	.31	.51	1.14	2.55	3.71	1.83	4.51	7.12	3.76	1.99	1.81	1.80	1.42	.00	45.36
(2)	.86	.57	.09	.04	.06	.13	.30	.44	.21	.53	.84	.44	.23	.21	.21	.17	.00	5.33
13-18	188	116	29	5	8	9	53	129	34	184	302	102	87	210	203	94	0	1753
(1)	3.10	1.91	.48	.08	.13	.15	.87	2.13	.56	3.03	4.98	1.68	1.43	3.46	3.34	1.55	.00	28.88
(2)	.36	.22	.06	.01	.02	.02	.10	.25	.07	.36	.58	.20	.17	.41	.39	.18	.00	3.40
19-24	28	29	12	3	0	0	2	18	3	38	45	13	14	90	118	11	0	424
(1)	.46	.48	.20	.05	.00	.00	.03	.30	.05	.63	.74	.21	.23	1.48	1.94	.18	.00	6.99
(2)	.05	.06	.02	.01	.00	.00	.00	.03	.01	.07	.09	.03	.03	.17	.23	.02	.00	.82
GT 24	0	3	4	0	0	0	0	2	0	8	1	4	5	15	13	0	0	55
(1)	.00	.05	.07	.00	.00	.00	.00	.03	.00	.13	.02	.07	.08	.25	.21	.00	.00	.91
(2)	.00	.01	.01	.00	.00	.00	.00	.00	.00	.02	.00	.01	.01	.03	.03	.00	.00	.11
ALL SPEEDS	784	591	172	99	149	144	253	414	189	587	902	415	256	440	458	216	0	6069
(1)	12.92	9.74	2.83	1.63	2.46	2.37	4.17	6.82	3.11	9.67	14.86	6.84	4.22	7.25	7.55	3.56	.00	100.00
(2)	1.52	1.14	.33	.19	.29	.28	.49	.80	.37	1.14	1.75	.80	.50	.85	.89	.42	.00	11.75

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-55— CCNPP 197' Annual JFD
(Page 2 of 8)

CC JAN00-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 4.58

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	6	3	7	5	4	3	2	0	0	4	2	2	0	2	0	0	42
(1)	.08	.25	.13	.30	.21	.17	.13	.08	.00	.00	.17	.08	.08	.00	.08	.00	.00	1.78
(2)	.00	.01	.01	.01	.01	.01	.01	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.08
4-7	91	104	60	51	72	47	35	21	19	28	38	48	30	16	12	19	0	691
(1)	3.85	4.40	2.54	2.16	3.04	1.99	1.48	.89	.80	1.18	1.61	2.03	1.27	.68	.51	.80	.00	29.22
(2)	.18	.20	.12	.10	.14	.09	.07	.04	.04	.05	.07	.09	.06	.03	.02	.04	.00	1.34
8-12	143	107	23	11	16	18	65	110	32	62	105	68	38	47	42	37	0	924
(1)	6.05	4.52	.97	.47	.68	.76	2.75	4.65	1.35	2.62	4.44	2.88	1.61	1.99	1.78	1.56	.00	39.07
(2)	.28	.21	.04	.02	.03	.03	.13	.21	.06	.12	.20	.13	.07	.09	.08	.07	.00	1.79
13-18	63	27	21	4	2	4	14	49	8	48	66	24	27	45	67	40	0	509
(1)	2.66	1.14	.89	.17	.08	.17	.59	2.07	.34	2.03	2.79	1.01	1.14	1.90	2.83	1.69	.00	21.52
(2)	.12	.05	.04	.01	.00	.01	.03	.09	.02	.09	.13	.05	.05	.09	.13	.08	.00	.99
19-24	18	14	8	2	0	0	0	10	5	13	9	2	6	34	38	14	0	173
(1)	.76	.59	.34	.08	.00	.00	.00	.42	.21	.55	.38	.08	.25	1.44	1.61	.59	.00	7.32
(2)	.03	.03	.02	.00	.00	.00	.00	.02	.01	.03	.02	.00	.01	.07	.07	.03	.00	.34
GT 24	3	1	0	1	0	0	0	2	0	0	1	1	1	5	8	3	0	26
(1)	.13	.04	.00	.04	.00	.00	.00	.08	.00	.00	.04	.04	.04	.21	.34	.13	.00	1.10
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.01	.00	.05
ALL SPEEDS	320	259	115	76	95	73	117	194	64	151	223	145	104	147	169	113	0	2365
(1)	13.53	10.95	4.86	3.21	4.02	3.09	4.95	8.20	2.71	6.38	9.43	6.13	4.40	6.22	7.15	4.78	.00	100.00
(2)	.62	.50	.22	.15	.18	.14	.23	.38	.12	.29	.43	.28	.20	.28	.33	.22	.00	4.58

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-55— CCNPP 197' Annual JFD
(Page 3 of 8)

CC JAN00-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 5.03
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	6	10	13	10	9	4	3	3	3	3	6	8	3	2	3	5	0	91
(1)	.23	.38	.50	.38	.35	.15	.12	.12	.12	.12	.23	.31	.12	.08	.12	.19	.00	3.50
(2)	.01	.02	.03	.02	.02	.01	.01	.01	.01	.01	.01	.02	.01	.00	.01	.01	.00	.18
4-7	104	146	73	82	76	55	43	37	30	22	63	44	34	27	14	18	0	868
(1)	4.00	5.62	2.81	3.16	2.93	2.12	1.66	1.42	1.15	.85	2.42	1.69	1.31	1.04	.54	.69	.00	33.41
(2)	.20	.28	.14	.16	.15	.11	.08	.07	.06	.04	.12	.09	.07	.05	.03	.03	.00	1.68
8-12	142	112	29	15	20	23	40	120	31	58	93	80	43	41	62	60	0	969
(1)	5.47	4.31	1.12	.58	.77	.89	1.54	4.62	1.19	2.23	3.58	3.08	1.66	1.58	2.39	2.31	.00	37.30
(2)	.28	.22	.06	.03	.04	.04	.08	.23	.06	.11	.18	.15	.08	.08	.12	.12	.00	1.88
13-18	54	45	20	9	3	2	9	46	14	41	53	26	24	39	65	38	0	488
(1)	2.08	1.73	.77	.35	.12	.08	.35	1.77	.54	1.58	2.04	1.00	.92	1.50	2.50	1.46	.00	18.78
(2)	.10	.09	.04	.02	.01	.00	.02	.09	.03	.08	.10	.05	.05	.08	.13	.07	.00	.95
19-24	14	17	12	4	0	0	0	7	0	8	15	1	4	29	34	6	0	151
(1)	.54	.65	.46	.15	.00	.00	.00	.27	.00	.31	.58	.04	.15	1.12	1.31	.23	.00	5.81
(2)	.03	.03	.02	.01	.00	.00	.00	.01	.00	.02	.03	.00	.01	.06	.07	.01	.00	.29
GT 24	5	3	3	0	0	0	0	0	0	1	0	0	1	6	11	1	0	31
(1)	.19	.12	.12	.00	.00	.00	.00	.00	.00	.04	.00	.00	.04	.23	.42	.04	.00	1.19
(2)	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.00	.00	.06
ALL SPEEDS	325	333	150	120	108	84	95	213	78	133	230	159	109	144	189	128	0	2598
(1)	12.51	12.82	5.77	4.62	4.16	3.23	3.66	8.20	3.00	5.12	8.85	6.12	4.20	5.54	7.27	4.93	.00	100.00
(2)	.63	.64	.29	.23	.21	.16	.18	.41	.15	.26	.45	.31	.21	.28	.37	.25	.00	5.03

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-55— CCNPP 197' Annual JFD
(Page 4 of 8)

CC JAN00-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA   STABILITY CLASS D   CLASS FREQUENCY (PERCENT) = 34.33
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.01	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	66	82	79	82	97	56	37	28	33	32	37	36	34	33	32	49	0	813
(1)	.37	.46	.45	.46	.55	.32	.21	.16	.19	.18	.21	.20	.19	.19	.18	.28	.00	4.59
(2)	.13	.16	.15	.16	.19	.11	.07	.05	.06	.06	.07	.07	.07	.06	.06	.09	.00	1.57
4-7	388	449	269	371	380	223	223	227	156	143	168	150	124	102	130	163	0	3666
(1)	2.19	2.53	1.52	2.09	2.14	1.26	1.26	1.28	.88	.81	.95	.85	.70	.58	.73	.92	.00	20.68
(2)	.75	.87	.52	.72	.74	.43	.43	.44	.30	.28	.33	.29	.24	.20	.25	.32	.00	7.10
8-12	563	505	476	575	406	283	351	588	309	284	328	278	155	202	406	516	0	6225
(1)	3.18	2.85	2.69	3.24	2.29	1.60	1.98	3.32	1.74	1.60	1.85	1.57	.87	1.14	2.29	2.91	.00	35.12
(2)	1.09	.98	.92	1.11	.79	.55	.68	1.14	.60	.55	.64	.54	.30	.39	.79	1.00	.00	12.06
13-18	541	566	516	276	85	72	116	410	142	211	348	148	94	247	581	595	0	4948
(1)	3.05	3.19	2.91	1.56	.48	.41	.65	2.31	.80	1.19	1.96	.84	.53	1.39	3.28	3.36	.00	27.92
(2)	1.05	1.10	1.00	.53	.16	.14	.22	.79	.28	.41	.67	.29	.18	.48	1.13	1.15	.00	9.58
19-24	295	314	213	43	3	5	19	88	34	67	83	11	23	149	203	135	0	1685
(1)	1.66	1.77	1.20	.24	.02	.03	.11	.50	.19	.38	.47	.06	.13	.84	1.15	.76	.00	9.51
(2)	.57	.61	.41	.08	.01	.01	.04	.17	.07	.13	.16	.02	.04	.29	.39	.26	.00	3.26
GT 24	80	112	54	9	2	0	4	16	2	9	3	3	6	39	30	16	0	385
(1)	.45	.63	.30	.05	.01	.00	.02	.09	.01	.05	.02	.02	.03	.22	.17	.09	.00	2.17
(2)	.15	.22	.10	.02	.00	.00	.01	.03	.00	.02	.01	.01	.01	.08	.06	.03	.00	.75
ALL SPEEDS	1933	2029	1607	1356	973	640	750	1357	676	746	967	626	436	772	1382	1474	0	17724
(1)	10.91	11.45	9.07	7.65	5.49	3.61	4.23	7.66	3.81	4.21	5.46	3.53	2.46	4.36	7.80	8.32	.00	100.00
(2)	3.74	3.93	3.11	2.63	1.88	1.24	1.45	2.63	1.31	1.44	1.87	1.21	.84	1.50	2.68	2.85	.00	34.33

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-55— CCNPP 197' Annual JFD
(Page 5 of 8)

CC JAN00-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA   STABILITY CLASS E   CLASS FREQUENCY (PERCENT) = 26.79

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	3
(1)	.00	.00	.00	.00	.01	.00	.00	.00	.00	.01	.00	.00	.01	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
C-3	31	33	40	34	41	32	37	43	23	26	19	14	18	22	25	23	0	461
(1)	.22	.24	.29	.25	.30	.23	.27	.31	.17	.19	.14	.10	.13	.16	.18	.17	.00	3.33
(2)	.06	.06	.08	.07	.08	.06	.07	.08	.04	.05	.04	.03	.03	.04	.05	.04	.00	.89
4-7	129	124	128	132	181	116	105	110	131	92	134	97	78	114	117	129	0	1917
(1)	.93	.90	.93	.95	1.31	.84	.76	.80	.95	.67	.97	.70	.56	.82	.85	.93	.00	13.86
(2)	.25	.24	.25	.26	.35	.22	.20	.21	.25	.18	.26	.19	.15	.22	.23	.25	.00	3.71
8-12	378	230	180	110	112	167	215	574	606	467	438	357	291	531	654	671	0	5981
(1)	2.73	1.66	1.30	.80	.81	1.21	1.55	4.15	4.38	3.38	3.17	2.58	2.10	3.84	4.73	4.85	.00	43.25
(2)	.73	.45	.35	.21	.22	.32	.42	1.11	1.17	.90	.85	.69	.56	1.03	1.27	1.30	.00	11.58
13-18	175	140	42	6	9	20	34	317	559	958	947	258	149	319	436	392	0	4761
(1)	1.27	1.01	.30	.04	.07	.14	.25	2.29	4.04	6.93	6.85	1.87	1.08	2.31	3.15	2.83	.00	34.43
(2)	.34	.27	.08	.01	.02	.04	.07	.61	1.08	1.86	1.83	.50	.29	.62	.84	.76	.00	9.22
19-24	47	27	6	2	3	3	6	43	43	177	193	12	16	42	22	14	0	656
(1)	.34	.20	.04	.01	.02	.02	.04	.31	.31	1.28	1.40	.09	.12	.30	.16	.10	.00	4.74
(2)	.09	.05	.01	.00	.01	.01	.01	.08	.08	.34	.37	.02	.03	.08	.04	.03	.00	1.27
GT 24	5	5	3	2	1	3	4	7	3	6	4	1	0	6	1	0	0	51
(1)	.04	.04	.02	.01	.01	.02	.03	.05	.02	.04	.03	.01	.00	.04	.01	.00	.00	.37
(2)	.01	.01	.01	.00	.00	.01	.01	.01	.01	.01	.01	.00	.00	.01	.00	.00	.00	.10
ALL SPEEDS	765	559	399	286	348	341	401	1094	1365	1727	1735	739	553	1034	1255	1229	0	13830
(1)	5.53	4.04	2.89	2.07	2.52	2.47	2.90	7.91	9.87	12.49	12.55	5.34	4.00	7.48	9.07	8.89	.00	100.00
(2)	1.48	1.08	.77	.55	.67	.66	.78	2.12	2.64	3.34	3.36	1.43	1.07	2.00	2.43	2.38	.00	26.79

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-55— CCNPP 197' Annual JFD
(Page 6 of 8)

CC JAN00-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 10.32
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	3
(1)	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.06
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
C-3	15	17	17	19	29	22	20	21	18	18	18	9	16	16	17	15	0	287
(1)	.28	.32	.32	.36	.54	.41	.38	.39	.34	.34	.34	.17	.30	.30	.32	.28	.00	5.39
(2)	.03	.03	.03	.04	.06	.04	.04	.04	.03	.03	.03	.02	.03	.03	.03	.03	.00	.56
4-7	61	48	43	41	48	43	51	62	75	69	65	59	52	63	38	56	0	874
(1)	1.14	.90	.81	.77	.90	.81	.96	1.16	1.41	1.29	1.22	1.11	.98	1.18	.71	1.05	.00	16.40
(2)	.12	.09	.08	.08	.09	.08	.10	.12	.15	.13	.13	.11	.10	.12	.07	.11	.00	1.69
8-12	74	38	27	16	12	26	86	170	345	335	279	204	192	190	182	175	0	2351
(1)	1.39	.71	.51	.30	.23	.49	1.61	3.19	6.47	6.29	5.24	3.83	3.60	3.57	3.42	3.28	.00	44.12
(2)	.14	.07	.05	.03	.02	.05	.17	.33	.67	.65	.54	.40	.37	.37	.35	.34	.00	4.55
13-18	20	15	13	9	3	1	12	95	306	421	319	159	88	84	173	39	0	1757
(1)	.38	.28	.24	.17	.06	.02	.23	1.78	5.74	7.90	5.99	2.98	1.65	1.58	3.25	.73	.00	32.97
(2)	.04	.03	.03	.02	.01	.00	.02	.18	.59	.82	.62	.31	.17	.16	.34	.08	.00	3.40
19-24	4	3	1	3	0	0	0	0	2	15	21	2	0	0	1	0	0	52
(1)	.08	.06	.02	.06	.00	.00	.00	.00	.04	.28	.39	.04	.00	.00	.02	.00	.00	.98
(2)	.01	.01	.00	.01	.00	.00	.00	.00	.00	.03	.04	.00	.00	.00	.00	.00	.00	.10
GT 24	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
(1)	.06	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
ALL SPEEDS	177	123	101	89	92	93	169	348	746	858	702	434	348	353	411	285	0	5329
(1)	3.32	2.31	1.90	1.67	1.73	1.75	3.17	6.53	14.00	16.10	13.17	8.14	6.53	6.62	7.71	5.35	.00	100.00
(2)	.34	.24	.20	.17	.18	.18	.33	.67	1.44	1.66	1.36	.84	.67	.68	.80	.55	.00	10.32

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-55— CCNPP 197' Annual JFD

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CC JAN00-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 7.20

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	1	0	0	0	0	0	2	1	2	0	1	0	0	7
(1)	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.05	.03	.05	.00	.03	.00	.00	.19
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
C-3	31	23	31	19	35	20	29	25	18	23	24	31	20	18	21	23	0	391
(1)	.83	.62	.83	.51	.94	.54	.78	.67	.48	.62	.65	.83	.54	.48	.57	.62	.00	10.52
(2)	.06	.04	.06	.04	.07	.04	.06	.05	.03	.04	.05	.06	.04	.03	.04	.04	.00	.76
4-7	55	46	26	28	39	29	53	47	70	92	78	71	70	52	41	43	0	840
(1)	1.48	1.24	.70	.75	1.05	.78	1.43	1.27	1.88	2.48	2.10	1.91	1.88	1.40	1.10	1.16	.00	22.61
(2)	.11	.09	.05	.05	.08	.06	.10	.09	.14	.18	.15	.14	.14	.10	.08	.08	.00	1.63
8-12	35	6	2	4	2	14	28	94	204	247	246	209	141	121	100	127	0	1580
(1)	.94	.16	.05	.11	.05	.38	.75	2.53	5.49	6.65	6.62	5.63	3.80	3.26	2.69	3.42	.00	42.53
(2)	.07	.01	.00	.01	.00	.03	.05	.18	.40	.48	.48	.40	.27	.23	.19	.25	.00	3.06
13-18	2	5	8	3	0	4	6	44	155	193	132	82	73	60	79	11	0	857
(1)	.05	.13	.22	.08	.00	.11	.16	1.18	4.17	5.20	3.55	2.21	1.97	1.62	2.13	.30	.00	23.07
(2)	.00	.01	.02	.01	.00	.01	.01	.09	.30	.37	.26	.16	.14	.12	.15	.02	.00	1.66
19-24	0	0	7	1	0	0	0	1	1	7	2	5	1	4	2	0	0	31
(1)	.00	.00	.19	.03	.00	.00	.00	.03	.03	.19	.05	.13	.03	.11	.05	.00	.00	.83
(2)	.00	.00	.01	.00	.00	.00	.00	.00	.00	.01	.00	.01	.00	.01	.00	.00	.00	.06
GT 24	0	3	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
(1)	.00	.08	.16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24
(2)	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
ALL SPEEDS	123	83	80	55	77	67	116	211	448	562	484	399	307	255	244	204	0	3715
(1)	3.31	2.23	2.15	1.48	2.07	1.80	3.12	5.68	12.06	15.13	13.03	10.74	8.26	6.86	6.57	5.49	.00	100.00
(2)	.24	.16	.15	.11	.15	.13	.22	.41	.87	1.09	.94	.77	.59	.49	.47	.40	.00	7.20

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-55— CCNPP 197' Annual JFD
(Page 8 of 8)

CC JAN00-DEC05 MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	1	0	1	2	2	0	0	0	1	2	2	3	0	1	0	0	15
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.03
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.03
C-3	154	176	188	175	225	140	130	123	95	103	108	103	93	92	100	117	0	2122
(1)	.30	.34	.36	.34	.44	.27	.25	.24	.18	.20	.21	.20	.18	.18	.19	.23	.00	4.11
(2)	.30	.34	.36	.34	.44	.27	.25	.24	.18	.20	.21	.20	.18	.18	.19	.23	.00	4.11
4-7	950	1061	675	773	897	577	552	543	522	528	668	534	417	388	367	451	0	9903
(1)	1.84	2.06	1.31	1.50	1.74	1.12	1.07	1.05	1.01	1.02	1.29	1.03	.81	.75	.71	.87	.00	19.18
(2)	1.84	2.06	1.31	1.50	1.74	1.12	1.07	1.05	1.01	1.02	1.29	1.03	.81	.75	.71	.87	.00	19.18
8-12	1778	1292	783	750	599	600	940	1881	1638	1727	1921	1424	981	1242	1555	1672	0	20783
(1)	3.44	2.50	1.52	1.45	1.16	1.16	1.82	3.64	3.17	3.34	3.72	2.76	1.90	2.41	3.01	3.24	.00	40.25
(2)	3.44	2.50	1.52	1.45	1.16	1.16	1.82	3.64	3.17	3.34	3.72	2.76	1.90	2.41	3.01	3.24	.00	40.25
13-18	1043	914	649	312	110	112	244	1090	1218	2056	2167	799	542	1004	1604	1209	0	15073
(1)	2.02	1.77	1.26	.60	.21	.22	.47	2.11	2.36	3.98	4.20	1.55	1.05	1.94	3.11	2.34	.00	29.19
(2)	2.02	1.77	1.26	.60	.21	.22	.47	2.11	2.36	3.98	4.20	1.55	1.05	1.94	3.11	2.34	.00	29.19
19-24	406	404	259	58	6	8	27	167	88	325	368	46	64	348	418	180	0	3172
(1)	.79	.78	.50	.11	.01	.02	.05	.32	.17	.63	.71	.09	.12	.67	.81	.35	.00	6.14
(2)	.79	.78	.50	.11	.01	.02	.05	.32	.17	.63	.71	.09	.12	.67	.81	.35	.00	6.14
GT 24	96	129	70	12	3	3	8	27	5	24	9	9	13	71	63	20	0	562
(1)	.19	.25	.14	.02	.01	.01	.02	.05	.01	.05	.02	.02	.03	.14	.12	.04	.00	1.09
(2)	.19	.25	.14	.02	.01	.01	.02	.05	.01	.05	.02	.02	.03	.14	.12	.04	.00	1.09
ALL SPEEDS	4427	3977	2624	2081	1842	1442	1901	3831	3566	4764	5243	2917	2113	3145	4108	3649	0	51630
(1)	8.57	7.70	5.08	4.03	3.57	2.79	3.68	7.42	6.91	9.23	10.15	5.65	4.09	6.09	7.96	7.07	.00	100.00
(2)	8.57	7.70	5.08	4.03	3.57	2.79	3.68	7.42	6.91	9.23	10.15	5.65	4.09	6.09	7.96	7.07	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-56— CCNPP 197' January JFD

(Page 1 of 8)

CC JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA   STABILITY CLASS A   CLASS FREQUENCY (PERCENT) = 7.94

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.29
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
4-7	4	3	1	0	0	0	0	0	0	1	6	7	4	1	1	1	0	29
(1)	1.17	.87	.29	.00	.00	.00	.00	.00	.00	.29	1.75	2.04	1.17	.29	.29	.29	.00	8.45
(2)	.09	.07	.02	.00	.00	.00	.00	.00	.00	.02	.14	.16	.09	.02	.02	.02	.00	.67
8-12	15	2	1	0	0	2	0	3	0	4	25	19	19	16	17	5	0	128
(1)	4.37	.58	.29	.00	.00	.58	.00	.87	.00	1.17	7.29	5.54	5.54	4.66	4.96	1.46	.00	37.32
(2)	.35	.05	.02	.00	.00	.05	.00	.07	.00	.09	.58	.44	.44	.37	.39	.12	.00	2.96
13-18	13	6	0	0	0	0	0	0	0	4	13	7	14	37	32	12	0	138
(1)	3.79	1.75	.00	.00	.00	.00	.00	.00	.00	1.17	3.79	2.04	4.08	10.79	9.33	3.50	.00	40.23
(2)	.30	.14	.00	.00	.00	.00	.00	.00	.00	.09	.30	.16	.32	.86	.74	.28	.00	3.19
19-24	1	1	0	0	0	0	0	0	0	0	1	0	1	13	27	1	0	45
(1)	.29	.29	.00	.00	.00	.00	.00	.00	.00	.00	.29	.00	.29	3.79	7.87	.29	.00	13.12
(2)	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.30	.63	.02	.00	1.04
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.29	.29	.00	.00	.58
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.05
ALL SPEEDS	33	13	2	0	0	2	0	3	0	9	45	33	38	68	78	19	0	343
(1)	9.62	3.79	.58	.00	.00	.58	.00	.87	.00	2.62	13.12	9.62	11.08	19.83	22.74	5.54	.00	100.00
(2)	.76	.30	.05	.00	.00	.05	.00	.07	.00	.21	1.04	.76	.88	1.57	1.81	.44	.00	7.94

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-56— CCNPP 197' January JFD
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CC JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 3.36
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.69	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.69
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
4-7	1	2	0	0	0	1	0	1	0	0	2	2	2	2	0	1	0	14
(1)	.69	1.38	.00	.00	.00	.69	.00	.69	.00	.00	1.38	1.38	1.38	1.38	.00	.69	.00	9.66
(2)	.02	.05	.00	.00	.00	.02	.00	.02	.00	.00	.05	.05	.05	.05	.00	.02	.00	.32
8-12	10	1	0	0	0	0	2	4	0	6	5	6	6	5	4	4	0	53
(1)	6.90	.69	.00	.00	.00	.00	1.38	2.76	.00	4.14	3.45	4.14	4.14	3.45	2.76	2.76	.00	36.55
(2)	.23	.02	.00	.00	.00	.00	.05	.09	.00	.14	.12	.14	.14	.12	.09	.09	.00	1.23
13-18	5	1	0	0	0	0	0	0	0	0	11	3	3	9	14	6	0	52
(1)	3.45	.69	.00	.00	.00	.00	.00	.00	.00	.00	7.59	2.07	2.07	6.21	9.66	4.14	.00	35.86
(2)	.12	.02	.00	.00	.00	.00	.00	.00	.00	.00	.25	.07	.07	.21	.32	.14	.00	1.20
19-24	2	0	0	0	0	0	0	0	0	1	1	0	1	4	9	3	0	21
(1)	1.38	.00	.00	.00	.00	.00	.00	.00	.00	.69	.69	.00	.69	2.76	6.21	2.07	.00	14.48
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.02	.09	.21	.07	.00	.49
GT 24	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	4
(1)	.69	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.69	.00	.69	.00	.69	.00	2.76
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.02	.00	.09
ALL SPEEDS	19	4	0	0	1	1	2	5	0	7	19	12	12	21	27	15	0	145
(1)	13.10	2.76	.00	.00	.69	.69	1.38	3.45	.00	4.83	13.10	8.28	8.28	14.48	18.62	10.34	.00	100.00
(2)	.44	.09	.00	.00	.02	.02	.05	.12	.00	.16	.44	.28	.28	.49	.63	.35	.00	3.36

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-56— CCNPP 197' January JFD
(Page 3 of 8)

CC JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 4.17
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.56	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.56
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
4-7	1	7	5	2	2	1	1	0	0	2	6	4	4	2	0	2	0	39
(1)	.56	3.89	2.78	1.11	1.11	.56	.56	.00	.00	1.11	3.33	2.22	2.22	1.11	.00	1.11	.00	21.67
(2)	.02	.16	.12	.05	.05	.02	.02	.00	.00	.05	.14	.09	.09	.05	.00	.05	.00	.90
8-12	5	5	0	0	0	0	2	5	0	5	5	7	5	6	12	3	0	60
(1)	2.78	2.78	.00	.00	.00	.00	1.11	2.78	.00	2.78	2.78	3.89	2.78	3.33	6.67	1.67	.00	33.33
(2)	.12	.12	.00	.00	.00	.00	.05	.12	.00	.12	.12	.16	.12	.14	.28	.07	.00	1.39
13-18	11	8	0	0	0	0	0	0	1	2	4	1	3	8	14	5	0	57
(1)	6.11	4.44	.00	.00	.00	.00	.00	.00	.56	1.11	2.22	.56	1.67	4.44	7.78	2.78	.00	31.67
(2)	.25	.19	.00	.00	.00	.00	.00	.00	.02	.05	.09	.02	.07	.19	.32	.12	.00	1.32
19-24	2	0	0	0	0	0	0	0	0	0	2	0	1	2	11	0	0	18
(1)	1.11	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.11	.00	.56	1.11	6.11	.00	.00	10.00
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.02	.05	.25	.00	.00	.42
GT 24	1	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	5
(1)	.56	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.11	1.11	.00	.00	2.78
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.12
ALL SPEEDS	20	20	5	3	2	1	3	5	1	9	17	12	13	20	39	10	0	180
(1)	11.11	11.11	2.78	1.67	1.11	.56	1.67	2.78	.56	5.00	9.44	6.67	7.22	11.11	21.67	5.56	.00	100.00
(2)	.46	.46	.12	.07	.05	.02	.07	.12	.02	.21	.39	.28	.30	.46	.90	.23	.00	4.17

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-56— CCNPP 197' January JFD

(Page 4 of 8)

CC JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 40.81

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	3	14	6	8	3	4	1	2	5	2	1	2	3	3	2	0	61
(1)	.11	.17	.79	.34	.45	.17	.23	.06	.11	.28	.11	.06	.11	.17	.17	.11	.00	3.46
(2)	.05	.07	.32	.14	.19	.07	.09	.02	.05	.12	.05	.02	.05	.07	.07	.05	.00	1.41
4-7	28	23	17	21	22	16	21	13	14	17	16	22	18	8	14	20	0	290
(1)	1.59	1.30	.96	1.19	1.25	.91	1.19	.74	.79	.96	.91	1.25	1.02	.45	.79	1.13	.00	16.45
(2)	.65	.53	.39	.49	.51	.37	.49	.30	.32	.39	.37	.51	.42	.19	.32	.46	.00	6.71
8-12	68	41	22	23	11	9	15	41	20	24	28	30	19	31	89	76	0	547
(1)	3.86	2.33	1.25	1.30	.62	.51	.85	2.33	1.13	1.36	1.59	1.70	1.08	1.76	5.05	4.31	.00	31.03
(2)	1.57	.95	.51	.53	.25	.21	.35	.95	.46	.56	.65	.69	.44	.72	2.06	1.76	.00	12.66
13-18	87	66	10	2	0	1	7	18	13	38	50	19	12	47	149	119	0	638
(1)	4.93	3.74	.57	.11	.00	.06	.40	1.02	.74	2.16	2.84	1.08	.68	2.67	8.45	6.75	.00	36.19
(2)	2.01	1.53	.23	.05	.00	.02	.16	.42	.30	.88	1.16	.44	.28	1.09	3.45	2.75	.00	14.77
19-24	44	27	1	0	0	0	1	1	4	13	9	1	1	18	55	21	0	196
(1)	2.50	1.53	.06	.00	.00	.00	.06	.06	.23	.74	.51	.06	.06	1.02	3.12	1.19	.00	11.12
(2)	1.02	.63	.02	.00	.00	.00	.02	.02	.09	.30	.21	.02	.02	.42	1.27	.49	.00	4.54
GT 24	12	1	0	0	0	0	0	0	0	3	1	1	1	3	5	4	0	31
(1)	.68	.06	.00	.00	.00	.00	.00	.00	.00	.17	.06	.06	.06	.17	.28	.23	.00	1.76
(2)	.28	.02	.00	.00	.00	.00	.00	.00	.00	.07	.02	.02	.02	.07	.12	.09	.00	.72
ALL SPEEDS	241	161	64	52	41	29	48	74	53	100	106	74	53	110	315	242	0	1763
(1)	13.67	9.13	3.63	2.95	2.33	1.64	2.72	4.20	3.01	5.67	6.01	4.20	3.01	6.24	17.87	13.73	.00	100.00
(2)	5.58	3.73	1.48	1.20	.95	.67	1.11	1.71	1.23	2.31	2.45	1.71	1.23	2.55	7.29	5.60	.00	40.81

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-56— CCNPP 197' January JFD
(Page 5 of 8)

CC JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 31.32
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	3	6	3	3	9	3	6	5	1	0	2	2	0	3	1	4	0	51
(1)	.22	.44	.22	.22	.67	.22	.44	.37	.07	.00	.15	.15	.00	.22	.07	.30	.00	3.77
(2)	.07	.14	.07	.07	.21	.07	.14	.12	.02	.00	.05	.05	.00	.07	.02	.09	.00	1.18
4-7	13	13	9	10	10	6	9	6	4	3	11	6	8	12	10	13	0	143
(1)	.96	.96	.67	.74	.74	.44	.67	.44	.30	.22	.81	.44	.59	.89	.74	.96	.00	10.57
(2)	.30	.30	.21	.23	.23	.14	.21	.14	.09	.07	.25	.14	.19	.28	.23	.30	.00	3.31
8-12	43	25	15	8	2	9	13	32	38	26	23	19	33	81	121	83	0	571
(1)	3.18	1.85	1.11	.59	.15	.67	.96	2.37	2.81	1.92	1.70	1.40	2.44	5.99	8.94	6.13	.00	42.20
(2)	1.00	.58	.35	.19	.05	.21	.30	.74	.88	.60	.53	.44	.76	1.88	2.80	1.92	.00	13.22
13-18	18	8	4	1	1	3	4	28	24	88	117	29	11	56	67	31	0	490
(1)	1.33	.59	.30	.07	.07	.22	.30	2.07	1.77	6.50	8.65	2.14	.81	4.14	4.95	2.29	.00	36.22
(2)	.42	.19	.09	.02	.02	.07	.09	.65	.56	2.04	2.71	.67	.25	1.30	1.55	.72	.00	11.34
19-24	4	0	0	0	0	0	1	5	6	21	37	0	0	8	10	0	0	92
(1)	.30	.00	.00	.00	.00	.00	.07	.37	.44	1.55	2.73	.00	.00	.59	.74	.00	.00	6.80
(2)	.09	.00	.00	.00	.00	.00	.02	.12	.14	.49	.86	.00	.00	.19	.23	.00	.00	2.13
GT 24	0	0	0	0	0	0	0	0	1	1	1	0	0	2	1	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.07	.07	.07	.00	.00	.15	.07	.00	.00	.44
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.02	.00	.00	.05	.02	.00	.00	.14
ALL SPEEDS	81	52	31	22	22	21	33	76	74	139	191	56	52	162	210	131	0	1353
(1)	5.99	3.84	2.29	1.63	1.63	1.55	2.44	5.62	5.47	10.27	14.12	4.14	3.84	11.97	15.52	9.68	.00	100.00
(2)	1.88	1.20	.72	.51	.51	.49	.76	1.76	1.71	3.22	4.42	1.30	1.20	3.75	4.86	3.03	.00	31.32

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-56— CCNPP 197' January JFD
(Page 6 of 8)

CC JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 8.87

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.26
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
C-3	1	1	1	2	4	2	1	0	0	1	2	2	2	1	2	3	0	25
(1)	.26	.26	.26	.52	1.04	.52	.26	.00	.00	.26	.52	.52	.52	.26	.52	.78	.00	6.53
(2)	.02	.02	.02	.05	.09	.05	.02	.00	.00	.02	.05	.05	.05	.02	.05	.07	.00	.58
4-7	2	3	4	4	4	3	1	4	4	2	5	3	5	12	1	7	0	64
(1)	.52	.78	1.04	1.04	1.04	.78	.26	1.04	1.04	.52	1.31	.78	1.31	3.13	.26	1.83	.00	16.71
(2)	.05	.07	.09	.09	.09	.07	.02	.09	.09	.05	.12	.07	.12	.28	.02	.16	.00	1.48
8-12	1	1	3	3	2	2	7	10	14	14	14	11	19	17	17	7	0	142
(1)	.26	.26	.78	.78	.52	.52	1.83	2.61	3.66	3.66	3.66	2.87	4.96	4.44	4.44	1.83	.00	37.08
(2)	.02	.02	.07	.07	.05	.05	.16	.23	.32	.32	.32	.25	.44	.39	.39	.16	.00	3.29
13-18	1	4	3	0	0	0	1	10	17	40	30	13	7	4	8	1	0	139
(1)	.26	1.04	.78	.00	.00	.00	.26	2.61	4.44	10.44	7.83	3.39	1.83	1.04	2.09	.26	.00	36.29
(2)	.02	.09	.07	.00	.00	.00	.02	.23	.39	.93	.69	.30	.16	.09	.19	.02	.00	3.22
19-24	3	1	0	0	0	0	0	0	1	1	3	0	0	0	0	0	0	9
(1)	.78	.26	.00	.00	.00	.00	.00	.00	.26	.26	.78	.00	.00	.00	.00	.00	.00	2.35
(2)	.07	.02	.00	.00	.00	.00	.00	.00	.02	.02	.07	.00	.00	.00	.00	.00	.00	.21
GT 24	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.78	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.78
(2)	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
ALL SPEEDS	11	10	11	10	10	7	10	24	36	58	54	29	33	34	28	18	0	383
(1)	2.87	2.61	2.87	2.61	2.61	1.83	2.61	6.27	9.40	15.14	14.10	7.57	8.62	8.88	7.31	4.70	.00	100.00
(2)	.25	.23	.25	.23	.23	.16	.23	.56	.83	1.34	1.25	.67	.76	.79	.65	.42	.00	8.87

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-56— CCNPP 197' January JFD

(Page 7 of 8)

CC JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 3.54
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	0	1	1	0	2	2	0	0	0	2	2	1	1	0	0	13
(1)	.00	.65	.00	.65	.65	.00	1.31	1.31	.00	.00	.00	1.31	1.31	.65	.65	.00	.00	8.50
(2)	.00	.02	.00	.02	.02	.00	.05	.05	.00	.00	.00	.05	.05	.02	.02	.00	.00	.30
4-7	2	0	1	3	0	2	2	1	4	2	6	3	2	0	0	0	0	28
(1)	1.31	.00	.65	1.96	.00	1.31	1.31	.65	2.61	1.31	3.92	1.96	1.31	.00	.00	.00	.00	18.30
(2)	.05	.00	.02	.07	.00	.05	.05	.02	.09	.05	.14	.07	.05	.00	.00	.00	.00	.65
8-12	0	0	0	1	0	4	1	13	10	6	7	8	3	6	1	3	0	63
(1)	.00	.00	.00	.65	.00	2.61	.65	8.50	6.54	3.92	4.58	5.23	1.96	3.92	.65	1.96	.00	41.18
(2)	.00	.00	.00	.02	.00	.09	.02	.30	.23	.14	.16	.19	.07	.14	.02	.07	.00	1.46
13-18	0	1	0	0	0	0	1	2	8	12	9	4	4	1	3	0	0	45
(1)	.00	.65	.00	.00	.00	.00	.65	1.31	5.23	7.84	5.88	2.61	2.61	.65	1.96	.00	.00	29.41
(2)	.00	.02	.00	.00	.00	.00	.02	.05	.19	.28	.21	.09	.09	.02	.07	.00	.00	1.04
19-24	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.65	.00	.65	.00	.65	.00	.00	.00	.00	.00	1.96
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.02	.00	.00	.00	.00	.00	.07
GT 24	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.65	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.65
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
ALL SPEEDS	2	3	1	5	1	6	6	19	22	21	22	18	11	8	5	3	0	153
(1)	1.31	1.96	.65	3.27	.65	3.92	3.92	12.42	14.38	13.73	14.38	11.76	7.19	5.23	3.27	1.96	.00	100.00
(2)	.05	.07	.02	.12	.02	.14	.14	.44	.51	.49	.51	.42	.25	.19	.12	.07	.00	3.54

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-56— CCNPP 197' January JFD
(Page 8 of 8)

CC JANUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
C-3	6	12	18	13	23	8	13	8	3	6	6	7	6	8	7	9	0	153
(1)	.14	.28	.42	.30	.53	.19	.30	.19	.07	.14	.14	.16	.14	.19	.16	.21	.00	3.54
(2)	.14	.28	.42	.30	.53	.19	.30	.19	.07	.14	.14	.16	.14	.19	.16	.21	.00	3.54
4-7	51	51	37	40	38	29	34	25	26	27	52	47	43	37	26	44	0	607
(1)	1.18	1.18	.86	.93	.88	.67	.79	.58	.60	.63	1.20	1.09	1.00	.86	.60	1.02	.00	14.05
(2)	1.18	1.18	.86	.93	.88	.67	.79	.58	.60	.63	1.20	1.09	1.00	.86	.60	1.02	.00	14.05
8-12	142	75	41	35	15	26	40	108	82	85	107	100	104	162	261	181	0	1564
(1)	3.29	1.74	.95	.81	.35	.60	.93	2.50	1.90	1.97	2.48	2.31	2.41	3.75	6.04	4.19	.00	36.20
(2)	3.29	1.74	.95	.81	.35	.60	.93	2.50	1.90	1.97	2.48	2.31	2.41	3.75	6.04	4.19	.00	36.20
13-18	135	94	17	3	1	4	13	58	63	184	234	76	54	162	287	174	0	1559
(1)	3.13	2.18	.39	.07	.02	.09	.30	1.34	1.46	4.26	5.42	1.76	1.25	3.75	6.64	4.03	.00	36.09
(2)	3.13	2.18	.39	.07	.02	.09	.30	1.34	1.46	4.26	5.42	1.76	1.25	3.75	6.64	4.03	.00	36.09
19-24	56	29	1	0	0	0	2	7	11	37	53	2	4	45	112	25	0	384
(1)	1.30	.67	.02	.00	.00	.00	.05	.16	.25	.86	1.23	.05	.09	1.04	2.59	.58	.00	8.89
(2)	1.30	.67	.02	.00	.00	.00	.05	.16	.25	.86	1.23	.05	.09	1.04	2.59	.58	.00	8.89
GT 24	17	2	0	0	0	0	0	0	1	4	2	2	1	9	9	5	0	52
(1)	.39	.05	.00	.00	.00	.00	.00	.00	.02	.09	.05	.05	.02	.21	.21	.12	.00	1.20
(2)	.39	.05	.00	.00	.00	.00	.00	.00	.02	.09	.05	.05	.02	.21	.21	.12	.00	1.20
ALL SPEEDS	407	263	114	92	77	67	102	206	186	343	454	234	212	423	702	438	0	4320
(1)	9.42	6.09	2.64	2.13	1.78	1.55	2.36	4.77	4.31	7.94	10.51	5.42	4.91	9.79	16.25	10.14	.00	100.00
(2)	9.42	6.09	2.64	2.13	1.78	1.55	2.36	4.77	4.31	7.94	10.51	5.42	4.91	9.79	16.25	10.14	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-57— CCNPP 197 Feet February JFD

(Page 1 of 8)

CC FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 10.15

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4-7	4	4	0	1	4	0	0	0	0	1	7	4	0	1	1	1	0	28
(1)	.98	.98	.00	.24	.98	.00	.00	.00	.00	.24	1.71	.98	.00	.24	.24	.24	.00	6.83
(2)	.10	.10	.00	.02	.10	.00	.00	.00	.00	.02	.17	.10	.00	.02	.02	.02	.00	.69
8-12	27	24	1	0	0	1	4	11	8	17	22	26	16	11	14	7	0	189
(1)	6.59	5.85	.24	.00	.00	.24	.98	2.68	1.95	4.15	5.37	6.34	3.90	2.68	3.41	1.71	.00	46.10
(2)	.67	.59	.02	.00	.00	.02	.10	.27	.20	.42	.54	.64	.40	.27	.35	.17	.00	4.68
13-18	21	8	2	0	0	0	2	4	1	15	16	4	7	24	29	7	0	140
(1)	5.12	1.95	.49	.00	.00	.00	.49	.98	.24	3.66	3.90	.98	1.71	5.85	7.07	1.71	.00	34.15
(2)	.52	.20	.05	.00	.00	.00	.05	.10	.02	.37	.40	.10	.17	.59	.72	.17	.00	3.47
19-24	5	1	0	0	0	0	0	0	0	8	5	0	1	9	15	3	0	47
(1)	1.22	.24	.00	.00	.00	.00	.00	.00	.00	1.95	1.22	.00	.24	2.20	3.66	.73	.00	11.46
(2)	.12	.02	.00	.00	.00	.00	.00	.00	.00	.20	.12	.00	.02	.22	.37	.07	.00	1.16
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.73	.73	.00	.00	1.46
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.07	.00	.00	.15
ALL SPEEDS	57	37	3	1	4	1	6	15	9	41	50	34	24	48	62	18	0	410
(1)	13.90	9.02	.73	.24	.98	.24	1.46	3.66	2.20	10.00	12.20	8.29	5.85	11.71	15.12	4.39	.00	100.00
(2)	1.41	.92	.07	.02	.10	.02	.15	.37	.22	1.02	1.24	.84	.59	1.19	1.54	.45	.00	10.15

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-57— CCNPP 197 Feet February JFD
(Page 2 of 8)

CC FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA — STABILITY CLASS B — CLASS FREQUENCY (PERCENT) = 4.31

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	4
(1)	.57	.00	.57	.57	.00	.00	.00	.57	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.30
(2)	.02	.00	.02	.02	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10
4-7	8	2	8	2	3	0	0	0	0	2	2	3	1	1	1	1	0	34
(1)	4.60	1.15	4.60	1.15	1.72	.00	.00	.00	.00	1.15	1.15	1.72	.57	.57	.57	.57	.00	19.54
(2)	.20	.05	.20	.05	.07	.00	.00	.00	.00	.05	.05	.07	.02	.02	.02	.02	.00	.84
8-12	11	4	1	0	2	1	0	8	4	3	5	10	0	0	5	5	0	59
(1)	6.32	2.30	.57	.00	1.15	.57	.00	4.60	2.30	1.72	2.87	5.75	.00	.00	2.87	2.87	.00	33.91
(2)	.27	.10	.02	.00	.05	.02	.00	.20	.10	.07	.12	.25	.00	.00	.12	.12	.00	1.46
13-18	14	2	0	0	0	0	0	1	1	8	7	4	3	4	12	6	0	62
(1)	8.05	1.15	.00	.00	.00	.00	.00	.57	.57	4.60	4.02	2.30	1.72	2.30	6.90	3.45	.00	35.63
(2)	.35	.05	.00	.00	.00	.00	.00	.02	.02	.20	.17	.10	.07	.10	.30	.15	.00	1.54
19-24	2	1	0	0	0	0	0	0	0	1	0	1	1	3	2	1	0	12
(1)	1.15	.57	.00	.00	.00	.00	.00	.00	.00	.57	.00	.57	.57	1.72	1.15	.57	.00	6.90
(2)	.05	.02	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.02	.07	.05	.02	.00	.30
GT 24	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.57	.00	.00	.57	.57	.00	.00	1.72
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02	.02	.00	.00	.07
ALL SPEEDS	36	9	10	3	5	1	0	10	5	14	15	18	5	9	21	13	0	174
(1)	20.69	5.17	5.75	1.72	2.87	.57	.00	5.75	2.87	8.05	8.62	10.34	2.87	5.17	12.07	7.47	.00	100.00
(2)	.89	.22	.25	.07	.12	.02	.00	.25	.12	.35	.37	.45	.12	.22	.52	.32	.00	4.31

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-57— CCNPP 197 Feet February JFD
(Page 3 of 8)

CC FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 3.94
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2
(1)	.63	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.63	.00	.00	.00	.00	.00	1.26
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.05
4-7	6	5	3	5	1	0	1	3	1	1	2	4	1	3	0	3	0	39
(1)	3.77	3.14	1.89	3.14	.63	.00	.63	1.89	.63	.63	1.26	2.52	.63	1.89	.00	1.89	.00	24.53
(2)	.15	.12	.07	.12	.02	.00	.02	.07	.02	.02	.05	.10	.02	.07	.00	.07	.00	.97
8-12	13	15	5	1	1	0	4	5	0	7	7	7	3	2	3	2	0	75
(1)	8.18	9.43	3.14	.63	.63	.00	2.52	3.14	.00	4.40	4.40	4.40	1.89	1.26	1.89	1.26	.00	47.17
(2)	.32	.37	.12	.02	.02	.00	.10	.12	.00	.17	.17	.17	.07	.05	.07	.05	.00	1.86
13-18	4	1	0	0	0	0	0	0	1	6	3	2	0	3	4	7	0	31
(1)	2.52	.63	.00	.00	.00	.00	.00	.00	.63	3.77	1.89	1.26	.00	1.89	2.52	4.40	.00	19.50
(2)	.10	.02	.00	.00	.00	.00	.00	.00	.02	.15	.07	.05	.00	.07	.10	.17	.00	.77
19-24	1	1	0	0	0	0	0	0	0	0	1	0	1	4	2	0	0	10
(1)	.63	.63	.00	.00	.00	.00	.00	.00	.00	.00	.63	.00	.63	2.52	1.26	.00	.00	6.29
(2)	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.10	.05	.00	.00	.25
GT 24	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.63	.00	.00	.00	.00	.63	.00	.00	1.26
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.05
ALL SPEEDS	25	22	8	6	2	0	5	8	2	15	13	14	5	12	10	12	0	159
(1)	15.72	13.84	5.03	3.77	1.26	.00	3.14	5.03	1.26	9.43	8.18	8.81	3.14	7.55	6.29	7.55	.00	100.00
(2)	.62	.54	.20	.15	.05	.00	.12	.20	.05	.37	.32	.35	.12	.30	.25	.30	.00	3.94

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-57— CCNPP 197 Feet February JFD
(Page 4 of 8)

CC FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 34.93
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	6	2	5	7	4	1	1	3	2	2	0	0	1	0	6	0	42
(1)	.14	.43	.14	.35	.50	.28	.07	.07	.21	.14	.14	.00	.00	.07	.00	.43	.00	2.98
(2)	.05	.15	.05	.12	.17	.10	.02	.02	.07	.05	.05	.00	.00	.02	.00	.15	.00	1.04
4-7	27	28	18	32	17	11	25	34	15	5	6	7	3	4	11	19	0	262
(1)	1.91	1.98	1.28	2.27	1.20	.78	1.77	2.41	1.06	.35	.43	.50	.21	.28	.78	1.35	.00	18.57
(2)	.67	.69	.45	.79	.42	.27	.62	.84	.37	.12	.15	.17	.07	.10	.27	.47	.00	6.49
8-12	55	51	41	25	12	7	23	33	17	13	15	29	8	11	36	56	0	432
(1)	3.90	3.61	2.91	1.77	.85	.50	1.63	2.34	1.20	.92	1.06	2.06	.57	.78	2.55	3.97	.00	30.62
(2)	1.36	1.26	1.02	.62	.30	.17	.57	.82	.42	.32	.37	.72	.20	.27	.89	1.39	.00	10.70
13-18	73	63	34	8	3	2	7	18	3	13	23	12	7	28	81	68	0	443
(1)	5.17	4.46	2.41	.57	.21	.14	.50	1.28	.21	.92	1.63	.85	.50	1.98	5.74	4.82	.00	31.40
(2)	1.81	1.56	.84	.20	.07	.05	.17	.45	.07	.32	.57	.30	.17	.69	2.01	1.68	.00	10.97
19-24	38	41	14	0	0	1	2	1	1	8	19	3	0	13	35	15	0	191
(1)	2.69	2.91	.99	.00	.00	.07	.14	.07	.07	.57	1.35	.21	.00	.92	2.48	1.06	.00	13.54
(2)	.94	1.02	.35	.00	.00	.02	.05	.02	.02	.20	.47	.07	.00	.32	.87	.37	.00	4.73
GT 24	3	17	3	0	0	0	0	0	0	4	2	0	0	4	7	1	0	41
(1)	.21	1.20	.21	.00	.00	.00	.00	.00	.00	.28	.14	.00	.00	.28	.50	.07	.00	2.91
(2)	.07	.42	.07	.00	.00	.00	.00	.00	.00	.10	.05	.00	.00	.10	.17	.02	.00	1.02
ALL SPEEDS	198	206	112	70	39	25	58	87	39	45	67	51	18	61	170	165	0	1411
(1)	14.03	14.60	7.94	4.96	2.76	1.77	4.11	6.17	2.76	3.19	4.75	3.61	1.28	4.32	12.05	11.69	.00	100.00
(2)	4.90	5.10	2.77	1.73	.97	.62	1.44	2.15	.97	1.11	1.66	1.26	.45	1.51	4.21	4.09	.00	34.93

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-57— CCNPP 197 Feet February JFD
(Page 5 of 8)

CC FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 32.19
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.08
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
C-3	1	3	2	3	3	1	3	0	1	2	0	0	0	4	0	2	0	25
(1)	.08	.23	.15	.23	.23	.08	.23	.00	.08	.15	.00	.00	.00	.31	.00	.15	.00	1.92
(2)	.02	.07	.05	.07	.07	.02	.07	.00	.02	.05	.00	.00	.00	.10	.00	.05	.00	.62
4-7	12	15	19	24	27	10	7	12	9	6	5	10	10	8	13	13	0	200
(1)	.92	1.15	1.46	1.85	2.08	.77	.54	.92	.69	.46	.38	.77	.77	.62	1.00	1.00	.00	15.38
(2)	.30	.37	.47	.59	.67	.25	.17	.30	.22	.15	.12	.25	.25	.20	.32	.32	.00	4.95
8-12	69	32	18	13	8	16	17	50	51	27	30	30	20	53	73	74	0	581
(1)	5.31	2.46	1.38	1.00	.62	1.23	1.31	3.85	3.92	2.08	2.31	2.31	1.54	4.08	5.62	5.69	.00	44.69
(2)	1.71	.79	.45	.32	.20	.40	.42	1.24	1.26	.67	.74	.74	.50	1.31	1.81	1.83	.00	14.38
13-18	29	22	3	0	1	0	5	30	52	73	47	30	15	34	46	39	0	426
(1)	2.23	1.69	.23	.00	.08	.00	.38	2.31	4.00	5.62	3.62	2.31	1.15	2.62	3.54	3.00	.00	32.77
(2)	.72	.54	.07	.00	.02	.00	.12	.74	1.29	1.81	1.16	.74	.37	.84	1.14	.97	.00	10.55
19-24	10	0	0	0	0	0	0	6	6	15	15	1	1	3	1	3	0	61
(1)	.77	.00	.00	.00	.00	.00	.00	.46	.46	1.15	1.15	.08	.08	.23	.08	.23	.00	4.69
(2)	.25	.00	.00	.00	.00	.00	.00	.15	.15	.37	.37	.02	.02	.07	.02	.07	.00	1.51
GT 24	1	0	1	0	0	0	0	0	1	1	2	0	0	0	0	0	0	6
(1)	.08	.00	.08	.00	.00	.00	.00	.00	.08	.08	.15	.00	.00	.00	.00	.00	.00	.46
(2)	.02	.00	.02	.00	.00	.00	.00	.00	.02	.02	.05	.00	.00	.00	.00	.00	.00	.15
ALL SPEEDS	122	72	43	40	39	27	32	98	120	125	99	71	46	102	133	131	0	1300
(1)	9.38	5.54	3.31	3.08	3.00	2.08	2.46	7.54	9.23	9.62	7.62	5.46	3.54	7.85	10.23	10.08	.00	100.00
(2)	3.02	1.78	1.06	.99	.97	.67	.79	2.43	2.97	3.09	2.45	1.76	1.14	2.53	3.29	3.24	.00	32.19

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-57— CCNPP 197 Feet February JFD
(Page 6 of 8)

CC FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 10.60

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	1	1	2	0	2	4	2	3	2	1	1	0	2	2	0	23
(1)	.00	.00	.23	.23	.47	.00	.47	.93	.47	.70	.47	.23	.23	.00	.47	.47	.00	5.37
(2)	.00	.00	.02	.02	.05	.00	.05	.10	.05	.07	.05	.02	.02	.00	.05	.05	.00	.57
4-7	4	8	6	5	5	3	8	3	7	2	2	3	6	5	2	4	0	73
(1)	.93	1.87	1.40	1.17	1.17	.70	1.87	.70	1.64	.47	.47	.70	1.40	1.17	.47	.93	.00	17.06
(2)	.10	.20	.15	.12	.12	.07	.20	.07	.17	.05	.05	.07	.15	.12	.05	.10	.00	1.81
8-12	9	13	2	5	1	5	7	22	26	23	23	14	18	21	11	5	0	205
(1)	2.10	3.04	.47	1.17	.23	1.17	1.64	5.14	6.07	5.37	5.37	3.27	4.21	4.91	2.57	1.17	.00	47.90
(2)	.22	.32	.05	.12	.02	.12	.17	.54	.64	.57	.57	.35	.45	.52	.27	.12	.00	5.08
13-18	3	3	1	0	0	1	0	12	21	23	14	17	17	9	2	1	0	124
(1)	.70	.70	.23	.00	.00	.23	.00	2.80	4.91	5.37	3.27	3.97	3.97	2.10	.47	.23	.00	28.97
(2)	.07	.07	.02	.00	.00	.02	.00	.30	.52	.57	.35	.42	.42	.22	.05	.02	.00	3.07
19-24	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.70	.00	.00	.00	.00	.00	.00	.00	.70
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00	.07
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	16	24	10	11	8	9	17	41	56	54	41	35	42	35	17	12	0	428
(1)	3.74	5.61	2.34	2.57	1.87	2.10	3.97	9.58	13.08	12.62	9.58	8.18	9.81	8.18	3.97	2.80	.00	100.00
(2)	.40	.59	.25	.27	.20	.22	.42	1.02	1.39	1.34	1.02	.87	1.04	.87	.42	.30	.00	10.60

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-57— CCNPP 197 Feet February JFD
(Page 7 of 8)

CC FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 3.89
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	0	2	3	0	0	1	0	1	2	0	1	0	0	0	0	11
(1)	.00	.64	.00	1.27	1.91	.00	.00	.64	.00	.64	1.27	.00	.64	.00	.00	.00	.00	7.01
(2)	.00	.02	.00	.05	.07	.00	.00	.02	.00	.02	.05	.00	.02	.00	.00	.00	.00	.27
4-7	1	0	3	0	4	1	4	1	5	6	4	3	5	3	3	1	0	44
(1)	.64	.00	1.91	.00	2.55	.64	2.55	.64	3.18	3.82	2.55	1.91	3.18	1.91	1.91	.64	.00	28.03
(2)	.02	.00	.07	.00	.10	.02	.10	.02	.12	.15	.10	.07	.12	.07	.07	.02	.00	1.09
8-12	0	0	0	0	0	3	0	10	8	7	8	6	4	4	1	2	0	53
(1)	.00	.00	.00	.00	.00	1.91	.00	6.37	5.10	4.46	5.10	3.82	2.55	2.55	.64	1.27	.00	33.76
(2)	.00	.00	.00	.00	.00	.07	.00	.25	.20	.17	.20	.15	.10	.10	.02	.05	.00	1.31
13-18	0	3	0	0	0	0	0	5	7	8	8	12	1	3	2	0	0	49
(1)	.00	1.91	.00	.00	.00	.00	.00	3.18	4.46	5.10	5.10	7.64	.64	1.91	1.27	.00	.00	31.21
(2)	.00	.07	.00	.00	.00	.00	.00	.12	.17	.20	.20	.30	.02	.07	.05	.00	.00	1.21
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	1	4	3	2	7	4	4	17	20	22	22	21	11	10	6	3	0	157
(1)	.64	2.55	1.91	1.27	4.46	2.55	2.55	10.83	12.74	14.01	14.01	13.38	7.01	6.37	3.82	1.91	.00	100.00
(2)	.02	.10	.07	.05	.17	.10	.10	.42	.50	.54	.54	.52	.27	.25	.15	.07	.00	3.89

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-57— CCNPP 197 Feet February JFD

(Page 8 of 8)

CC FEBRUARY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
C-3	5	10	6	12	15	5	6	7	6	8	6	2	2	5	2	10	0	107
(1)	.12	.25	.15	.30	.37	.12	.15	.17	.15	.20	.15	.05	.05	.12	.05	.25	.00	2.65
(2)	.12	.25	.15	.30	.37	.12	.15	.17	.15	.20	.15	.05	.05	.12	.05	.25	.00	2.65
4-7	62	62	57	69	61	25	45	53	37	23	28	34	26	25	31	42	0	680
(1)	1.54	1.54	1.41	1.71	1.51	.62	1.11	1.31	.92	.57	.69	.84	.64	.62	.77	1.04	.00	16.84
(2)	1.54	1.54	1.41	1.71	1.51	.62	1.11	1.31	.92	.57	.69	.84	.64	.62	.77	1.04	.00	16.84
8-12	184	139	68	44	24	33	55	139	114	97	110	122	69	102	143	151	0	1594
(1)	4.56	3.44	1.68	1.09	.59	.82	1.36	3.44	2.82	2.40	2.72	3.02	1.71	2.53	3.54	3.74	.00	39.47
(2)	4.56	3.44	1.68	1.09	.59	.82	1.36	3.44	2.82	2.40	2.72	3.02	1.71	2.53	3.54	3.74	.00	39.47
13-18	144	102	40	8	4	3	14	70	86	146	118	81	50	105	176	128	0	1275
(1)	3.57	2.53	.99	.20	.10	.07	.35	1.73	2.13	3.61	2.92	2.01	1.24	2.60	4.36	3.17	.00	31.57
(2)	3.57	2.53	.99	.20	.10	.07	.35	1.73	2.13	3.61	2.92	2.01	1.24	2.60	4.36	3.17	.00	31.57
19-24	56	44	14	0	0	1	2	7	7	35	40	5	4	32	55	22	0	324
(1)	1.39	1.09	.35	.00	.00	.02	.05	.17	.17	.87	.99	.12	.10	.79	1.36	.54	.00	8.02
(2)	1.39	1.09	.35	.00	.00	.02	.05	.17	.17	.87	.99	.12	.10	.79	1.36	.54	.00	8.02
GT 24	4	17	4	0	0	0	0	0	1	6	5	0	0	8	12	1	0	58
(1)	.10	.42	.10	.00	.00	.00	.00	.00	.02	.15	.12	.00	.00	.20	.30	.02	.00	1.44
(2)	.10	.42	.10	.00	.00	.00	.00	.00	.02	.15	.12	.00	.00	.20	.30	.02	.00	1.44
ALL SPEEDS	455	374	189	133	104	67	122	276	251	316	307	244	151	277	419	354	0	4039
(1)	11.27	9.26	4.68	3.29	2.57	1.66	3.02	6.83	6.21	7.82	7.60	6.04	3.74	6.86	10.37	8.76	.00	100.00
(2)	11.27	9.26	4.68	3.29	2.57	1.66	3.02	6.83	6.21	7.82	7.60	6.04	3.74	6.86	10.37	8.76	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-58— CCNPP 197' March JFD
(Page 1 of 8)

CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 12.40

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
4-7	3	8	5	1	4	1	0	2	1	1	1	3	0	0	1	0	0	31
(1)	.56	1.50	.94	.19	.75	.19	.00	.38	.19	.19	.19	.56	.00	.00	.19	.00	.00	5.82
(2)	.07	.19	.12	.02	.09	.02	.00	.05	.02	.02	.02	.07	.00	.00	.02	.00	.00	.72
8-12	32	19	6	1	9	7	9	22	6	18	31	13	9	9	10	7	0	208
(1)	6.00	3.56	1.13	.19	1.69	1.31	1.69	4.13	1.13	3.38	5.82	2.44	1.69	1.69	1.88	1.31	.00	39.02
(2)	.74	.44	.14	.02	.21	.16	.21	.51	.14	.42	.72	.30	.21	.21	.23	.16	.00	4.84
13-18	13	7	2	0	2	1	5	24	3	18	37	12	14	36	42	12	0	228
(1)	2.44	1.31	.38	.00	.38	.19	.94	4.50	.56	3.38	6.94	2.25	2.63	6.75	7.88	2.25	.00	42.78
(2)	.30	.16	.05	.00	.05	.02	.12	.56	.07	.42	.86	.28	.33	.84	.98	.28	.00	5.30
19-24	1	0	1	0	0	0	1	2	0	2	8	4	2	20	17	2	0	60
(1)	.19	.00	.19	.00	.00	.00	.19	.38	.00	.38	1.50	.75	.38	3.75	3.19	.38	.00	11.26
(2)	.02	.00	.02	.00	.00	.00	.02	.05	.00	.05	.19	.09	.05	.47	.40	.05	.00	1.40
GT 24	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.00	.38	.38	.00	.00	.94
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.05	.05	.00	.00	.12
ALL SPEEDS	49	34	14	3	15	9	15	50	10	39	77	33	25	67	72	21	0	533
(1)	9.19	6.38	2.63	.56	2.81	1.69	2.81	9.38	1.88	7.32	14.45	6.19	4.69	12.57	13.51	3.94	.00	100.00
(2)	1.14	.79	.33	.07	.35	.21	.35	1.16	.23	.91	1.79	.77	.58	1.56	1.67	.49	.00	12.40

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-58— CCNPP 197' March JFD

(Page 2 of 8)

CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 3.44

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.68	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.68
(2)	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
4-7	3	6	1	1	4	1	0	0	4	1	2	0	1	0	0	0	0	24
(1)	2.03	4.05	.68	.68	2.70	.68	.00	.00	2.70	.68	1.35	.00	.68	.00	.00	.00	.00	16.22
(2)	.07	.14	.02	.02	.09	.02	.00	.00	.09	.02	.05	.00	.02	.00	.00	.00	.00	.56
8-12	6	13	2	2	3	1	6	9	1	2	7	2	2	3	2	6	0	67
(1)	4.05	8.78	1.35	1.35	2.03	.68	4.05	6.08	.68	1.35	4.73	1.35	1.35	2.03	1.35	4.05	.00	45.27
(2)	.14	.30	.05	.05	.07	.02	.14	.21	.02	.05	.16	.05	.05	.07	.05	.14	.00	1.56
13-18	2	0	1	0	0	0	4	3	0	2	6	0	2	3	7	4	0	34
(1)	1.35	.00	.68	.00	.00	.00	2.70	2.03	.00	1.35	4.05	.00	1.35	2.03	4.73	2.70	.00	22.97
(2)	.05	.00	.02	.00	.00	.00	.09	.07	.00	.05	.14	.00	.05	.07	.16	.09	.00	.79
19-24	0	1	0	0	0	0	0	1	0	1	1	0	0	9	3	2	0	18
(1)	.00	.68	.00	.00	.00	.00	.00	.68	.00	.68	.68	.00	.00	6.08	2.03	1.35	.00	12.16
(2)	.00	.02	.00	.00	.00	.00	.00	.02	.00	.02	.02	.00	.00	.21	.07	.05	.00	.42
GT 24	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	4
(1)	.68	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.68	1.35	.00	.00	2.70
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.00	.00	.09
ALL SPEEDS	12	20	4	3	7	2	11	13	5	6	16	2	5	16	14	12	0	148
(1)	8.11	13.51	2.70	2.03	4.73	1.35	7.43	8.78	3.38	4.05	10.81	1.35	3.38	10.81	9.46	8.11	.00	100.00
(2)	.28	.47	.09	.07	.16	.05	.26	.30	.12	.14	.37	.05	.12	.37	.33	.28	.00	3.44

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-58— CCNPP 197' March JFD

(Page 3 of 8)

CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA   STABILITY CLASS C   CLASS FREQUENCY (PERCENT) = 4.21

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55	.00	.00	.00	.00	.00	.55
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
4-7	7	6	8	3	3	3	1	0	2	2	4	2	2	2	0	1	0	46
(1)	3.87	3.31	4.42	1.66	1.66	1.66	.55	.00	1.10	1.10	2.21	1.10	1.10	1.10	.00	.55	.00	25.41
(2)	.16	.14	.19	.07	.07	.07	.02	.00	.05	.05	.09	.05	.05	.05	.00	.02	.00	1.07
8-12	9	6	4	2	2	4	3	9	4	5	2	7	1	2	4	6	0	70
(1)	4.97	3.31	2.21	1.10	1.10	2.21	1.66	4.97	2.21	2.76	1.10	3.87	.55	1.10	2.21	3.31	.00	38.67
(2)	.21	.14	.09	.05	.05	.09	.07	.21	.09	.12	.05	.16	.02	.05	.09	.14	.00	1.63
13-18	2	2	2	0	0	0	1	8	1	1	2	1	4	3	8	5	0	40
(1)	1.10	1.10	1.10	.00	.00	.00	.55	4.42	.55	.55	1.10	.55	2.21	1.66	4.42	2.76	.00	22.10
(2)	.05	.05	.05	.00	.00	.00	.02	.19	.02	.02	.05	.02	.09	.07	.19	.12	.00	.93
19-24	2	1	1	0	0	0	0	1	0	1	1	0	0	4	8	2	0	21
(1)	1.10	.55	.55	.00	.00	.00	.00	.55	.00	.55	.55	.00	.00	2.21	4.42	1.10	.00	11.60
(2)	.05	.02	.02	.00	.00	.00	.00	.02	.00	.02	.02	.00	.00	.09	.19	.05	.00	.49
GT 24	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	3
(1)	.55	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.10	.00	.00	1.66
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.07
ALL SPEEDS	21	15	15	5	5	7	5	18	7	9	9	11	7	11	22	14	0	181
(1)	11.60	8.29	8.29	2.76	2.76	3.87	2.76	9.94	3.87	4.97	4.97	6.08	3.87	6.08	12.15	7.73	.00	100.00
(2)	.49	.35	.35	.12	.12	.16	.12	.42	.16	.21	.21	.26	.16	.26	.51	.33	.00	4.21

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-58— CCNPP 197' March JFD

(Page 4 of 8)

CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 37.65

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	7	4	5	4	4	4	1	1	2	0	4	6	3	3	2	1	0	51
(1)	.43	.25	.31	.25	.25	.25	.06	.06	.12	.00	.25	.37	.19	.19	.12	.06	.00	3.15
(2)	.16	.09	.12	.09	.09	.09	.02	.02	.05	.00	.09	.14	.07	.07	.05	.02	.00	1.19
4-7	26	41	29	39	34	17	23	20	10	10	11	9	4	2	11	13	0	299
(1)	1.61	2.53	1.79	2.41	2.10	1.05	1.42	1.24	.62	.62	.68	.56	.25	.12	.68	.80	.00	18.47
(2)	.60	.95	.67	.91	.79	.40	.53	.47	.23	.23	.26	.21	.09	.05	.26	.30	.00	6.95
8-12	52	41	29	54	34	28	42	56	22	17	11	17	10	15	24	41	0	493
(1)	3.21	2.53	1.79	3.34	2.10	1.73	2.59	3.46	1.36	1.05	.68	1.05	.62	.93	1.48	2.53	.00	30.45
(2)	1.21	.95	.67	1.26	.79	.65	.98	1.30	.51	.40	.26	.40	.23	.35	.56	.95	.00	11.47
13-18	62	28	37	35	6	3	15	48	10	15	30	12	6	33	82	59	0	481
(1)	3.83	1.73	2.29	2.16	.37	.19	.93	2.96	.62	.93	1.85	.74	.37	2.04	5.06	3.64	.00	29.71
(2)	1.44	.65	.86	.81	.14	.07	.35	1.12	.23	.35	.70	.28	.14	.77	1.91	1.37	.00	11.19
19-24	50	34	21	10	0	3	0	14	1	6	9	1	5	17	40	23	0	234
(1)	3.09	2.10	1.30	.62	.00	.19	.00	.86	.06	.37	.56	.06	.31	1.05	2.47	1.42	.00	14.45
(2)	1.16	.79	.49	.23	.00	.07	.00	.33	.02	.14	.21	.02	.12	.40	.93	.53	.00	5.44
GT 24	18	8	3	8	0	0	0	4	0	0	0	0	0	10	8	2	0	61
(1)	1.11	.49	.19	.49	.00	.00	.00	.25	.00	.00	.00	.00	.00	.62	.49	.12	.00	3.77
(2)	.42	.19	.07	.19	.00	.00	.00	.09	.00	.00	.00	.00	.00	.23	.19	.05	.00	1.42
ALL SPEEDS	215	156	124	150	78	55	81	143	45	48	65	45	28	80	167	139	0	1619
(1)	13.28	9.64	7.66	9.26	4.82	3.40	5.00	8.83	2.78	2.96	4.01	2.78	1.73	4.94	10.32	8.59	.00	100.00
(2)	5.00	3.63	2.88	3.49	1.81	1.28	1.88	3.33	1.05	1.12	1.51	1.05	.65	1.86	3.88	3.23	.00	37.65

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-58— CCNPP 197' March JFD

(Page 5 of 8)

CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 28.91

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	6	5	3	4	1	1	6	2	1	2	0	1	1	3	1	0	39
(1)	.16	.48	.40	.24	.32	.08	.08	.48	.16	.08	.16	.00	.08	.08	.24	.08	.00	3.14
(2)	.05	.14	.12	.07	.09	.02	.02	.14	.05	.02	.05	.00	.02	.02	.07	.02	.00	.91
4-7	14	14	24	12	19	10	4	4	9	5	10	5	3	8	8	16	0	165
(1)	1.13	1.13	1.93	.97	1.53	.80	.32	.32	.72	.40	.80	.40	.24	.64	.64	1.29	.00	13.27
(2)	.33	.33	.56	.28	.44	.23	.09	.09	.21	.12	.23	.12	.07	.19	.19	.37	.00	3.84
8-12	47	19	20	9	11	13	16	49	41	19	19	13	17	48	61	71	0	473
(1)	3.78	1.53	1.61	.72	.88	1.05	1.29	3.94	3.30	1.53	1.53	1.05	1.37	3.86	4.91	5.71	.00	38.05
(2)	1.09	.44	.47	.21	.26	.30	.37	1.14	.95	.44	.44	.30	.40	1.12	1.42	1.65	.00	11.00
13-18	34	17	4	2	2	7	4	52	63	64	58	17	15	25	50	42	0	456
(1)	2.74	1.37	.32	.16	.16	.56	.32	4.18	5.07	5.15	4.67	1.37	1.21	2.01	4.02	3.38	.00	36.69
(2)	.79	.40	.09	.05	.05	.16	.09	1.21	1.47	1.49	1.35	.40	.35	.58	1.16	.98	.00	10.60
19-24	18	2	0	0	0	2	2	9	7	22	20	1	2	2	6	2	0	95
(1)	1.45	.16	.00	.00	.00	.16	.16	.72	.56	1.77	1.61	.08	.16	.16	.48	.16	.00	7.64
(2)	.42	.05	.00	.00	.00	.05	.05	.21	.16	.51	.47	.02	.05	.05	.14	.05	.00	2.21
GT 24	2	3	0	0	0	0	2	2	1	1	1	0	0	3	0	0	0	15
(1)	.16	.24	.00	.00	.00	.00	.16	.16	.08	.08	.08	.00	.00	.24	.00	.00	.00	1.21
(2)	.05	.07	.00	.00	.00	.00	.05	.05	.02	.02	.02	.00	.00	.07	.00	.00	.00	.35
ALL SPEEDS	117	61	53	26	36	33	29	122	123	112	110	36	38	87	128	132	0	1243
(1)	9.41	4.91	4.26	2.09	2.90	2.65	2.33	9.81	9.90	9.01	8.85	2.90	3.06	7.00	10.30	10.62	.00	100.00
(2)	2.72	1.42	1.23	.60	.84	.77	.67	2.84	2.86	2.60	2.56	.84	.88	2.02	2.98	3.07	.00	28.91

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-58— CCNPP 197' March JFD
(Page 6 of 8)

CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 9.63
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	0	1	0	1	3	2	2	0	2	0	0	2	1	2	0	0	18
(1)	.48	.00	.24	.00	.24	.72	.48	.48	.00	.48	.00	.00	.48	.24	.48	.00	.00	4.35
(2)	.05	.00	.02	.00	.02	.07	.05	.05	.00	.05	.00	.00	.05	.02	.05	.00	.00	.42
4-7	8	7	6	7	9	4	5	4	4	3	4	5	5	6	4	4	0	85
(1)	1.93	1.69	1.45	1.69	2.17	.97	1.21	.97	.97	.72	.97	1.21	1.21	1.45	.97	.97	.00	20.53
(2)	.19	.16	.14	.16	.21	.09	.12	.09	.09	.07	.09	.12	.12	.14	.09	.09	.00	1.98
8-12	8	8	12	4	1	4	2	4	15	18	14	8	14	12	11	13	0	148
(1)	1.93	1.93	2.90	.97	.24	.97	.48	.97	3.62	4.35	3.38	1.93	3.38	2.90	2.66	3.14	.00	35.75
(2)	.19	.19	.28	.09	.02	.09	.05	.09	.35	.42	.33	.19	.33	.28	.26	.30	.00	3.44
13-18	5	3	7	8	3	0	3	10	34	23	22	12	8	2	16	3	0	159
(1)	1.21	.72	1.69	1.93	.72	.00	.72	2.42	8.21	5.56	5.31	2.90	1.93	.48	3.86	.72	.00	38.41
(2)	.12	.07	.16	.19	.07	.00	.07	.23	.79	.53	.51	.28	.19	.05	.37	.07	.00	3.70
19-24	1	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	4
(1)	.24	.00	.24	.24	.00	.00	.00	.00	.00	.24	.00	.00	.00	.00	.00	.00	.00	.97
(2)	.02	.00	.02	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.09
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	24	18	27	20	14	11	12	20	53	47	40	25	29	21	33	20	0	414
(1)	5.80	4.35	6.52	4.83	3.38	2.66	2.90	4.83	12.80	11.35	9.66	6.04	7.00	5.07	7.97	4.83	.00	100.00
(2)	.56	.42	.63	.47	.33	.26	.28	.47	1.23	1.09	.93	.58	.67	.49	.77	.47	.00	9.63

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-58— CCNPP 197' March JFD
(Page 7 of 8)

CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 3.77

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	1	1	2	1	0	0	0	1	1	1	0	0	1	0	0	10
(1)	.62	.00	.62	.62	1.23	.62	.00	.00	.00	.62	.62	.62	.00	.00	.62	.00	.00	6.17
(2)	.02	.00	.02	.02	.05	.02	.00	.00	.00	.02	.02	.02	.00	.00	.02	.00	.00	.23
4-7	4	2	2	1	5	4	2	3	3	2	1	3	0	5	3	2	0	42
(1)	2.47	1.23	1.23	.62	3.09	2.47	1.23	1.85	1.85	1.23	.62	1.85	.00	3.09	1.85	1.23	.00	25.93
(2)	.09	.05	.05	.02	.12	.09	.05	.07	.07	.05	.02	.07	.00	.12	.07	.05	.00	.98
8-12	1	2	1	1	2	2	4	3	11	9	3	10	5	1	5	1	0	61
(1)	.62	1.23	.62	.62	1.23	1.23	2.47	1.85	6.79	5.56	1.85	6.17	3.09	.62	3.09	.62	.00	37.65
(2)	.02	.05	.02	.02	.05	.05	.09	.07	.26	.21	.07	.23	.12	.02	.12	.02	.00	1.42
13-18	0	1	1	0	0	0	0	3	7	12	2	6	6	3	4	0	0	45
(1)	.00	.62	.62	.00	.00	.00	.00	1.85	4.32	7.41	1.23	3.70	3.70	1.85	2.47	.00	.00	27.78
(2)	.00	.02	.02	.00	.00	.00	.00	.07	.16	.28	.05	.14	.14	.07	.09	.00	.00	1.05
19-24	0	0	0	1	0	0	0	0	0	0	0	0	1	2	0	0	0	4
(1)	.00	.00	.00	.62	.00	.00	.00	.00	.00	.00	.00	.00	.62	1.23	.00	.00	.00	2.47
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.00	.00	.00	.09
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	6	5	5	4	9	7	6	9	21	24	7	20	12	11	13	3	0	162
(1)	3.70	3.09	3.09	2.47	5.56	4.32	3.70	5.56	12.96	14.81	4.32	12.35	7.41	6.79	8.02	1.85	.00	100.00
(2)	.14	.12	.12	.09	.21	.16	.14	.21	.49	.56	.16	.47	.28	.26	.30	.07	.00	3.77

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-58— CCNPP 197' March JFD
(Page 8 of 8)

CC MARCH MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	12	10	12	9	11	9	5	9	4	4	7	8	6	5	8	2	0	121
(1)	.28	.23	.28	.21	.26	.21	.12	.21	.09	.09	.16	.19	.14	.12	.19	.05	.00	2.81
(2)	.28	.23	.28	.21	.26	.21	.12	.21	.09	.09	.16	.19	.14	.12	.19	.05	.00	2.81
4-7	65	84	75	64	78	40	35	33	33	24	33	27	15	23	27	36	0	692
(1)	1.51	1.95	1.74	1.49	1.81	.93	.81	.77	.77	.56	.77	.63	.35	.53	.63	.84	.00	16.09
(2)	1.51	1.95	1.74	1.49	1.81	.93	.81	.77	.77	.56	.77	.63	.35	.53	.63	.84	.00	16.09
8-12	155	108	74	73	62	59	82	152	100	88	87	70	58	90	117	145	0	1520
(1)	3.60	2.51	1.72	1.70	1.44	1.37	1.91	3.53	2.33	2.05	2.02	1.63	1.35	2.09	2.72	3.37	.00	35.35
(2)	3.60	2.51	1.72	1.70	1.44	1.37	1.91	3.53	2.33	2.05	2.02	1.63	1.35	2.09	2.72	3.37	.00	35.35
13-18	118	58	54	45	13	11	32	148	118	135	157	60	55	105	209	125	0	1443
(1)	2.74	1.35	1.26	1.05	.30	.26	.74	3.44	2.74	3.14	3.65	1.40	1.28	2.44	4.86	2.91	.00	33.56
(2)	2.74	1.35	1.26	1.05	.30	.26	.74	3.44	2.74	3.14	3.65	1.40	1.28	2.44	4.86	2.91	.00	33.56
19-24	72	38	24	12	0	5	3	27	8	33	39	6	10	54	74	31	0	436
(1)	1.67	.88	.56	.28	.00	.12	.07	.63	.19	.77	.91	.14	.23	1.26	1.72	.72	.00	10.14
(2)	1.67	.88	.56	.28	.00	.12	.07	.63	.19	.77	.91	.14	.23	1.26	1.72	.72	.00	10.14
GT 24	22	11	3	8	0	0	2	6	1	1	1	1	0	16	14	2	0	88
(1)	.51	.26	.07	.19	.00	.00	.05	.14	.02	.02	.02	.02	.00	.37	.33	.05	.00	2.05
(2)	.51	.26	.07	.19	.00	.00	.05	.14	.02	.02	.02	.02	.00	.37	.33	.05	.00	2.05
ALL SPEEDS	444	309	242	211	164	124	159	375	264	285	324	172	144	293	449	341	0	4300
(1)	10.33	7.19	5.63	4.91	3.81	2.88	3.70	8.72	6.14	6.63	7.53	4.00	3.35	6.81	10.44	7.93	.00	100.00
(2)	10.33	7.19	5.63	4.91	3.81	2.88	3.70	8.72	6.14	6.63	7.53	4.00	3.35	6.81	10.44	7.93	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-59— CCNPP 197' April JFD

(Page 1 of 8)

CC APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 12.16

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20
(2)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
4-7	2	2	6	2	2	1	1	2	1	2	2	6	2	1	1	0	0	33
(1)	.40	.40	1.20	.40	.40	.20	.20	.40	.20	.40	.40	1.20	.40	.20	.20	.00	.00	6.63
(2)	.05	.05	.15	.05	.05	.02	.02	.05	.02	.05	.05	.15	.05	.02	.02	.00	.00	.81
8-12	24	30	7	4	5	5	9	15	4	11	21	25	9	8	8	2	0	187
(1)	4.82	6.02	1.41	.80	1.00	1.00	1.81	3.01	.80	2.21	4.22	5.02	1.81	1.61	1.61	.40	.00	37.55
(2)	.59	.73	.17	.10	.12	.12	.22	.37	.10	.27	.51	.61	.22	.20	.20	.05	.00	4.57
13-18	22	25	1	1	2	3	7	17	3	22	45	15	7	16	17	3	0	206
(1)	4.42	5.02	.20	.20	.40	.60	1.41	3.41	.60	4.42	9.04	3.01	1.41	3.21	3.41	.60	.00	41.37
(2)	.54	.61	.02	.02	.05	.07	.17	.42	.07	.54	1.10	.37	.17	.39	.42	.07	.00	5.03
19-24	6	5	1	1	0	0	0	3	0	4	3	3	5	11	10	0	0	52
(1)	1.20	1.00	.20	.20	.00	.00	.00	.60	.00	.80	.60	.60	1.00	2.21	2.01	.00	.00	10.44
(2)	.15	.12	.02	.02	.00	.00	.00	.07	.00	.10	.07	.07	.12	.27	.24	.00	.00	1.27
GT 24	0	2	0	0	0	0	0	0	0	5	1	0	2	5	4	0	0	19
(1)	.00	.40	.00	.00	.00	.00	.00	.00	.00	1.00	.20	.00	.40	1.00	.80	.00	.00	3.82
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.12	.02	.00	.05	.12	.10	.00	.00	.46
ALL SPEEDS	54	64	16	8	9	9	17	37	8	44	72	49	25	41	40	5	0	498
(1)	10.84	12.85	3.21	1.61	1.81	1.81	3.41	7.43	1.61	8.84	14.46	9.84	5.02	8.23	8.03	1.00	.00	100.00
(2)	1.32	1.56	.39	.20	.22	.22	.42	.90	.20	1.07	1.76	1.20	.61	1.00	.98	.12	.00	12.16

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-59— CCNPP 197' April JFD

(Page 2 of 8)

CC APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 4.10

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4-7	7	6	5	5	7	2	2	0	0	1	2	4	1	2	1	0	0	45
(1)	4.17	3.57	2.98	2.98	4.17	1.19	1.19	.00	.00	.60	1.19	2.38	.60	1.19	.60	.00	.00	26.79
(2)	.17	.15	.12	.12	.17	.05	.05	.00	.00	.02	.05	.10	.02	.05	.02	.00	.00	1.10
8-12	8	6	5	3	0	1	3	6	3	4	3	4	3	1	1	1	0	52
(1)	4.76	3.57	2.98	1.79	.00	.60	1.79	3.57	1.79	2.38	1.79	2.38	1.79	.60	.60	.60	.00	30.95
(2)	.20	.15	.12	.07	.00	.02	.07	.15	.07	.10	.07	.10	.07	.02	.02	.02	.00	1.27
13-18	5	4	5	2	0	2	1	9	0	4	6	4	0	3	3	2	0	50
(1)	2.98	2.38	2.98	1.19	.00	1.19	.60	5.36	.00	2.38	3.57	2.38	.00	1.79	1.79	1.19	.00	29.76
(2)	.12	.10	.12	.05	.00	.05	.02	.22	.00	.10	.15	.10	.00	.07	.07	.05	.00	1.22
19-24	2	1	0	2	0	0	0	2	0	4	2	0	1	2	2	0	0	18
(1)	1.19	.60	.00	1.19	.00	.00	.00	1.19	.00	2.38	1.19	.00	.60	1.19	1.19	.00	.00	10.71
(2)	.05	.02	.00	.05	.00	.00	.00	.05	.00	.10	.05	.00	.02	.05	.05	.00	.00	.44
GT 24	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.60	.00	.00	.00	.00	.00	.00	.60	.60	.00	1.79
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02	.02	.00	.07
ALL SPEEDS	22	17	15	12	7	5	6	18	3	13	13	12	5	8	8	4	0	168
(1)	13.10	10.12	8.93	7.14	4.17	2.98	3.57	10.71	1.79	7.74	7.74	7.14	2.98	4.76	4.76	2.38	.00	100.00
(2)	.54	.42	.37	.29	.17	.12	.15	.44	.07	.32	.32	.29	.12	.20	.20	.10	.00	4.10

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-59— CCNPP 197' April JFD
(Page 3 of 8)

CC APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 5.32
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.92	.00	.00	.00	.00	.00	.92
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05
4-7	5	8	10	6	8	0	1	1	0	1	3	1	0	0	0	0	0	44
(1)	2.29	3.67	4.59	2.75	3.67	.00	.46	.46	.00	.46	1.38	.46	.00	.00	.00	.00	.00	20.18
(2)	.12	.20	.24	.15	.20	.00	.02	.02	.00	.02	.07	.02	.00	.00	.00	.00	.00	1.07
8-12	14	10	4	2	3	4	4	8	1	4	6	4	5	2	2	1	0	74
(1)	6.42	4.59	1.83	.92	1.38	1.83	1.83	3.67	.46	1.83	2.75	1.83	2.29	.92	.92	.46	.00	33.94
(2)	.34	.24	.10	.05	.07	.10	.10	.20	.02	.10	.15	.10	.12	.05	.05	.02	.00	1.81
13-18	9	4	3	4	0	0	2	8	0	9	6	7	2	5	8	3	0	70
(1)	4.13	1.83	1.38	1.83	.00	.00	.92	3.67	.00	4.13	2.75	3.21	.92	2.29	3.67	1.38	.00	32.11
(2)	.22	.10	.07	.10	.00	.00	.05	.20	.00	.22	.15	.17	.05	.12	.20	.07	.00	1.71
19-24	3	4	2	3	0	0	0	1	0	3	2	0	0	1	3	1	0	23
(1)	1.38	1.83	.92	1.38	.00	.00	.00	.46	.00	1.38	.92	.00	.00	.46	1.38	.46	.00	10.55
(2)	.07	.10	.05	.07	.00	.00	.00	.02	.00	.07	.05	.00	.00	.02	.07	.02	.00	.56
GT 24	0	1	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	5
(1)	.00	.46	.46	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.92	.46	.00	.00	2.29
(2)	.00	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.02	.00	.00	.12
ALL SPEEDS	31	27	20	15	11	4	7	18	1	17	17	14	7	10	14	5	0	218
(1)	14.22	12.39	9.17	6.88	5.05	1.83	3.21	8.26	.46	7.80	7.80	6.42	3.21	4.59	6.42	2.29	.00	100.00
(2)	.76	.66	.49	.37	.27	.10	.17	.44	.02	.42	.42	.34	.17	.24	.34	.12	.00	5.32

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-59— CCNPP 197' April JFD
(Page 4 of 8)

CC APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 39.77
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	2	7	4	12	5	4	2	1	3	1	0	1	2	2	5	0	53
(1)	.12	.12	.43	.25	.74	.31	.25	.12	.06	.18	.06	.00	.06	.12	.12	.31	.00	3.26
(2)	.05	.05	.17	.10	.29	.12	.10	.05	.02	.07	.02	.00	.02	.05	.05	.12	.00	1.29
4-7	38	27	35	42	36	18	16	19	11	4	13	5	9	8	8	12	0	301
(1)	2.33	1.66	2.15	2.58	2.21	1.11	.98	1.17	.68	.25	.80	.31	.55	.49	.49	.74	.00	18.49
(2)	.93	.66	.85	1.03	.88	.44	.39	.46	.27	.10	.32	.12	.22	.20	.20	.29	.00	7.35
8-12	60	69	39	40	44	31	34	61	26	20	25	23	15	19	38	39	0	583
(1)	3.69	4.24	2.40	2.46	2.70	1.90	2.09	3.75	1.60	1.23	1.54	1.41	.92	1.17	2.33	2.40	.00	35.81
(2)	1.47	1.69	.95	.98	1.07	.76	.83	1.49	.64	.49	.61	.56	.37	.46	.93	.95	.00	14.24
13-18	41	48	52	33	7	5	28	51	15	23	29	18	4	21	31	63	0	469
(1)	2.52	2.95	3.19	2.03	.43	.31	1.72	3.13	.92	1.41	1.78	1.11	.25	1.29	1.90	3.87	.00	28.81
(2)	1.00	1.17	1.27	.81	.17	.12	.68	1.25	.37	.56	.71	.44	.10	.51	.76	1.54	.00	11.46
19-24	14	32	25	14	0	0	1	24	5	6	3	1	3	23	15	16	0	182
(1)	.86	1.97	1.54	.86	.00	.00	.06	1.47	.31	.37	.18	.06	.18	1.41	.92	.98	.00	11.18
(2)	.34	.78	.61	.34	.00	.00	.02	.59	.12	.15	.07	.02	.07	.56	.37	.39	.00	4.45
GT 24	8	13	10	0	0	0	0	1	0	2	0	0	0	5	0	1	0	40
(1)	.49	.80	.61	.00	.00	.00	.00	.06	.00	.12	.00	.00	.00	.31	.00	.06	.00	2.46
(2)	.20	.32	.24	.00	.00	.00	.00	.02	.00	.05	.00	.00	.00	.12	.00	.02	.00	.98
ALL SPEEDS	163	191	168	133	99	59	83	158	58	58	71	47	32	78	94	136	0	1628
(1)	10.01	11.73	10.32	8.17	6.08	3.62	5.10	9.71	3.56	3.56	4.36	2.89	1.97	4.79	5.77	8.35	.00	100.00
(2)	3.98	4.67	4.10	3.25	2.42	1.44	2.03	3.86	1.42	1.42	1.73	1.15	.78	1.91	2.30	3.32	.00	39.77

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-59— CCNPP 197' April JFD
(Page 5 of 8)

CC APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 26.21
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	4	3	5	2	2	1	4	3	5	2	0	3	2	4	1	0	42
(1)	.09	.37	.28	.47	.19	.19	.09	.37	.28	.47	.19	.00	.28	.19	.37	.09	.00	3.91
(2)	.02	.10	.07	.12	.05	.05	.02	.10	.07	.12	.05	.00	.07	.05	.10	.02	.00	1.03
4-7	8	18	12	8	12	5	7	5	8	16	5	5	5	5	5	5	0	129
(1)	.75	1.68	1.12	.75	1.12	.47	.65	.47	.75	1.49	.47	.47	.47	.47	.47	.47	.00	12.02
(2)	.20	.44	.29	.20	.29	.12	.17	.12	.20	.39	.12	.12	.12	.12	.12	.12	.00	3.15
8-12	40	31	23	14	9	9	8	24	25	27	25	15	17	33	50	34	0	384
(1)	3.73	2.89	2.14	1.30	.84	.84	.75	2.24	2.33	2.52	2.33	1.40	1.58	3.08	4.66	3.17	.00	35.79
(2)	.98	.76	.56	.34	.22	.22	.20	.59	.61	.66	.61	.37	.42	.81	1.22	.83	.00	9.38
13-18	26	21	4	1	0	1	3	39	69	94	51	30	13	22	21	32	0	427
(1)	2.42	1.96	.37	.09	.00	.09	.28	3.63	6.43	8.76	4.75	2.80	1.21	2.05	1.96	2.98	.00	39.79
(2)	.64	.51	.10	.02	.00	.02	.07	.95	1.69	2.30	1.25	.73	.32	.54	.51	.78	.00	10.43
19-24	5	11	1	0	0	0	0	3	10	26	18	0	3	4	1	3	0	85
(1)	.47	1.03	.09	.00	.00	.00	.00	.28	.93	2.42	1.68	.00	.28	.37	.09	.28	.00	7.92
(2)	.12	.27	.02	.00	.00	.00	.00	.07	.24	.64	.44	.00	.07	.10	.02	.07	.00	2.08
GT 24	1	1	1	0	0	0	0	0	0	1	0	1	0	1	0	0	0	6
(1)	.09	.09	.09	.00	.00	.00	.00	.00	.00	.09	.00	.09	.00	.09	.00	.00	.00	.56
(2)	.02	.02	.02	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.02	.00	.00	.00	.15
ALL SPEEDS	81	86	44	28	23	17	19	75	115	169	101	51	41	67	81	75	0	1073
(1)	7.55	8.01	4.10	2.61	2.14	1.58	1.77	6.99	10.72	15.75	9.41	4.75	3.82	6.24	7.55	6.99	.00	100.00
(2)	1.98	2.10	1.07	.68	.56	.42	.46	1.83	2.81	4.13	2.47	1.25	1.00	1.64	1.98	1.83	.00	26.21

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-59— CCNPP 197' April JFD
(Page 6 of 8)

CC APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 7.72

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	2	1	2	1	1	2	2	0	0	1	0	0	0	0	1	0	13
(1)	.00	.63	.32	.63	.32	.32	.63	.63	.00	.00	.32	.00	.00	.00	.00	.32	.00	4.11
(2)	.00	.05	.02	.05	.02	.02	.05	.05	.00	.00	.02	.00	.00	.00	.00	.02	.00	.32
4-7	1	2	5	2	3	4	3	1	1	2	1	3	2	3	2	2	0	37
(1)	.32	.63	1.58	.63	.95	1.27	.95	.32	.32	.63	.32	.95	.63	.95	.63	.63	.00	11.71
(2)	.02	.05	.12	.05	.07	.10	.07	.02	.02	.05	.02	.07	.05	.07	.05	.05	.00	.90
8-12	2	6	1	0	2	3	5	8	8	12	14	4	7	7	13	7	0	99
(1)	.63	1.90	.32	.00	.63	.95	1.58	2.53	2.53	3.80	4.43	1.27	2.22	2.22	4.11	2.22	.00	31.33
(2)	.05	.15	.02	.00	.05	.07	.12	.20	.20	.29	.34	.10	.17	.17	.32	.17	.00	2.42
13-18	5	3	2	1	0	0	2	7	24	36	30	27	2	5	8	1	0	153
(1)	1.58	.95	.63	.32	.00	.00	.63	2.22	7.59	11.39	9.49	8.54	.63	1.58	2.53	.32	.00	48.42
(2)	.12	.07	.05	.02	.00	.00	.05	.17	.59	.88	.73	.66	.05	.12	.20	.02	.00	3.74
19-24	0	2	0	2	0	0	0	0	0	3	5	0	0	0	0	0	0	12
(1)	.00	.63	.00	.63	.00	.00	.00	.00	.00	.95	1.58	.00	.00	.00	.00	.00	.00	3.80
(2)	.00	.05	.00	.05	.00	.00	.00	.00	.00	.07	.12	.00	.00	.00	.00	.00	.00	.29
GT 24	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.63	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.63
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
ALL SPEEDS	8	17	9	7	6	8	12	18	33	53	51	34	11	15	23	11	0	316
(1)	2.53	5.38	2.85	2.22	1.90	2.53	3.80	5.70	10.44	16.77	16.14	10.76	3.48	4.75	7.28	3.48	.00	100.00
(2)	.20	.42	.22	.17	.15	.20	.29	.44	.81	1.29	1.25	.83	.27	.37	.56	.27	.00	7.72

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-59— CCNPP 197' April JFD
(Page 7 of 8)

CC APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 4.71

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	1	0	0	2	4	0	1	1	0	1	2	1	0	2	0	15
(1)	.00	.00	.52	.00	.00	1.04	2.07	.00	.52	.52	.00	.52	1.04	.52	.00	1.04	.00	7.77
(2)	.00	.00	.02	.00	.00	.05	.10	.00	.02	.02	.00	.02	.05	.02	.00	.05	.00	.37
4-7	0	2	1	0	0	2	3	1	2	3	4	2	7	2	3	1	0	33
(1)	.00	1.04	.52	.00	.00	1.04	1.55	.52	1.04	1.55	2.07	1.04	3.63	1.04	1.55	.52	.00	17.10
(2)	.00	.05	.02	.00	.00	.05	.07	.02	.05	.07	.10	.05	.17	.05	.07	.02	.00	.81
8-12	1	1	1	0	0	0	2	4	12	15	7	8	9	8	2	1	0	71
(1)	.52	.52	.52	.00	.00	.00	1.04	2.07	6.22	7.77	3.63	4.15	4.66	4.15	1.04	.52	.00	36.79
(2)	.02	.02	.02	.00	.00	.00	.05	.10	.29	.37	.17	.20	.22	.20	.05	.02	.00	1.73
13-18	0	0	7	3	0	0	0	0	7	17	10	7	3	1	2	0	0	57
(1)	.00	.00	3.63	1.55	.00	.00	.00	.00	3.63	8.81	5.18	3.63	1.55	.52	1.04	.00	.00	29.53
(2)	.00	.00	.17	.07	.00	.00	.00	.00	.17	.42	.24	.17	.07	.02	.05	.00	.00	1.39
19-24	0	0	7	0	0	0	0	0	0	1	0	1	0	0	0	0	0	9
(1)	.00	.00	3.63	.00	.00	.00	.00	.00	.00	.52	.00	.52	.00	.00	.00	.00	.00	4.66
(2)	.00	.00	.17	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.00	.22
GT 24	0	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
(1)	.00	1.04	3.11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.15
(2)	.00	.05	.15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20
ALL SPEEDS	1	5	23	3	0	4	9	5	22	37	21	19	21	12	7	4	0	193
(1)	.52	2.59	11.92	1.55	.00	2.07	4.66	2.59	11.40	19.17	10.88	9.84	10.88	6.22	3.63	2.07	.00	100.00
(2)	.02	.12	.56	.07	.00	.10	.22	.12	.54	.90	.51	.46	.51	.29	.17	.10	.00	4.71

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-59— CCNPP 197' April JFD
(Page 8 of 8)

CC APRIL MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	3	8	13	11	15	10	11	8	5	9	4	3	6	5	6	9	0	126
(1)	.07	.20	.32	.27	.37	.24	.27	.20	.12	.22	.10	.07	.15	.12	.15	.22	.00	3.08
(2)	.07	.20	.32	.27	.37	.24	.27	.20	.12	.22	.10	.07	.15	.12	.15	.22	.00	3.08
4-7	61	65	74	65	68	32	33	29	23	29	30	26	26	21	20	20	0	622
(1)	1.49	1.59	1.81	1.59	1.66	.78	.81	.71	.56	.71	.73	.64	.64	.51	.49	.49	.00	15.19
(2)	1.49	1.59	1.81	1.59	1.66	.78	.81	.71	.56	.71	.73	.64	.64	.51	.49	.49	.00	15.19
8-12	149	153	80	63	63	53	65	126	79	93	101	83	65	78	114	85	0	1450
(1)	3.64	3.74	1.95	1.54	1.54	1.29	1.59	3.08	1.93	2.27	2.47	2.03	1.59	1.91	2.78	2.08	.00	35.42
(2)	3.64	3.74	1.95	1.54	1.54	1.29	1.59	3.08	1.93	2.27	2.47	2.03	1.59	1.91	2.78	2.08	.00	35.42
13-18	108	105	74	45	9	11	43	131	118	205	177	108	31	73	90	104	0	1432
(1)	2.64	2.56	1.81	1.10	.22	.27	1.05	3.20	2.88	5.01	4.32	2.64	.76	1.78	2.20	2.54	.00	34.98
(2)	2.64	2.56	1.81	1.10	.22	.27	1.05	3.20	2.88	5.01	4.32	2.64	.76	1.78	2.20	2.54	.00	34.98
19-24	30	55	36	22	0	0	1	33	15	47	33	5	12	41	31	20	0	381
(1)	.73	1.34	.88	.54	.00	.00	.02	.81	.37	1.15	.81	.12	.29	1.00	.76	.49	.00	9.31
(2)	.73	1.34	.88	.54	.00	.00	.02	.81	.37	1.15	.81	.12	.29	1.00	.76	.49	.00	9.31
GT 24	9	21	18	0	0	0	0	2	0	8	1	1	2	13	6	2	0	83
(1)	.22	.51	.44	.00	.00	.00	.00	.05	.00	.20	.02	.02	.05	.32	.15	.05	.00	2.03
(2)	.22	.51	.44	.00	.00	.00	.00	.05	.00	.20	.02	.02	.05	.32	.15	.05	.00	2.03
ALL SPEEDS	360	407	295	206	155	106	153	329	240	391	346	226	142	231	267	240	0	4094
(1)	8.79	9.94	7.21	5.03	3.79	2.59	3.74	8.04	5.86	9.55	8.45	5.52	3.47	5.64	6.52	5.86	.00	100.00
(2)	8.79	9.94	7.21	5.03	3.79	2.59	3.74	8.04	5.86	9.55	8.45	5.52	3.47	5.64	6.52	5.86	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-60— CCNPP 197' May JFD
(Page 1 of 8)

CC MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 13.37
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4-7	7	19	13	12	15	9	5	5	5	7	13	7	1	0	2	2	0	122
(1)	1.18	3.19	2.18	2.02	2.52	1.51	.84	.84	.84	1.18	2.18	1.18	.17	.00	.34	.34	.00	20.50
(2)	.16	.43	.29	.27	.34	.20	.11	.11	.11	.16	.29	.16	.02	.00	.04	.04	.00	2.74
8-12	28	38	8	6	11	18	27	27	15	25	44	27	11	9	2	5	0	301
(1)	4.71	6.39	1.34	1.01	1.85	3.03	4.54	4.54	2.52	4.20	7.39	4.54	1.85	1.51	.34	.84	.00	50.59
(2)	.63	.85	.18	.13	.25	.40	.61	.61	.34	.56	.99	.61	.25	.20	.04	.11	.00	6.76
13-18	10	3	1	0	1	1	7	16	4	18	44	9	6	9	9	5	0	143
(1)	1.68	.50	.17	.00	.17	.17	1.18	2.69	.67	3.03	7.39	1.51	1.01	1.51	1.51	.84	.00	24.03
(2)	.22	.07	.02	.00	.02	.02	.16	.36	.09	.40	.99	.20	.13	.20	.20	.11	.00	3.21
19-24	0	1	2	0	0	0	1	0	0	5	10	0	2	1	1	1	0	24
(1)	.00	.17	.34	.00	.00	.00	.17	.00	.00	.84	1.68	.00	.34	.17	.17	.17	.00	4.03
(2)	.00	.02	.04	.00	.00	.00	.02	.00	.00	.11	.22	.00	.04	.02	.02	.02	.00	.54
GT 24	0	0	2	0	0	0	0	0	0	1	0	1	1	0	0	0	0	5
(1)	.00	.00	.34	.00	.00	.00	.00	.00	.00	.17	.00	.17	.17	.00	.00	.00	.00	.84
(2)	.00	.00	.04	.00	.00	.00	.00	.00	.00	.02	.00	.02	.02	.00	.00	.00	.00	.11
ALL SPEEDS	45	61	26	18	27	28	40	48	24	56	111	44	21	19	14	13	0	595
(1)	7.56	10.25	4.37	3.03	4.54	4.71	6.72	8.07	4.03	9.41	18.66	7.39	3.53	3.19	2.35	2.18	.00	100.00
(2)	1.01	1.37	.58	.40	.61	.63	.90	1.08	.54	1.26	2.49	.99	.47	.43	.31	.29	.00	13.37

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-60— CCNPP 197' May JFD

(Page 2 of 8)

CC MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA   STABILITY CLASS B   CLASS FREQUENCY (PERCENT) = 5.12

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	0	1	0	1	0	0	0	0	0	0	1	0	1	0	0	5
(1)	.00	.44	.00	.44	.00	.44	.00	.00	.00	.00	.00	.00	.44	.00	.44	.00	.00	2.19
(2)	.00	.02	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.11
4-7	5	6	6	6	8	6	4	2	0	1	1	6	3	2	0	0	0	56
(1)	2.19	2.63	2.63	2.63	3.51	2.63	1.75	.88	.00	.44	.44	2.63	1.32	.88	.00	.00	.00	24.56
(2)	.11	.13	.13	.13	.18	.13	.09	.04	.00	.02	.02	.13	.07	.04	.00	.00	.00	1.26
8-12	15	8	4	1	3	5	13	12	5	5	13	9	6	6	1	1	0	107
(1)	6.58	3.51	1.75	.44	1.32	2.19	5.70	5.26	2.19	2.19	5.70	3.95	2.63	2.63	.44	.44	.00	46.93
(2)	.34	.18	.09	.02	.07	.11	.29	.27	.11	.11	.29	.20	.13	.13	.02	.02	.00	2.40
13-18	4	1	1	1	0	1	3	11	1	2	9	1	5	1	3	1	0	45
(1)	1.75	.44	.44	.44	.00	.44	1.32	4.82	.44	.88	3.95	.44	2.19	.44	1.32	.44	.00	19.74
(2)	.09	.02	.02	.02	.00	.02	.07	.25	.02	.04	.20	.02	.11	.02	.07	.02	.00	1.01
19-24	1	0	4	0	0	0	0	1	1	0	1	0	0	3	0	3	0	14
(1)	.44	.00	1.75	.00	.00	.00	.00	.44	.44	.00	.44	.00	.00	1.32	.00	1.32	.00	6.14
(2)	.02	.00	.09	.00	.00	.00	.00	.02	.02	.00	.02	.00	.00	.07	.00	.07	.00	.31
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.44	.00	.00	.00	.00	.44
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02
ALL SPEEDS	25	16	15	9	11	13	20	26	7	8	24	16	16	12	5	5	0	228
(1)	10.96	7.02	6.58	3.95	4.82	5.70	8.77	11.40	3.07	3.51	10.53	7.02	7.02	5.26	2.19	2.19	.00	100.00
(2)	.56	.36	.34	.20	.25	.29	.45	.58	.16	.18	.54	.36	.36	.27	.11	.11	.00	5.12

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-60— CCNPP 197' May JFD
(Page 3 of 8)

CC MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 5.51
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	3	1	1	1	0	1	0	0	0	0	0	0	1	0	0	9
(1)	.00	.41	1.22	.41	.41	.41	.00	.41	.00	.00	.00	.00	.00	.00	.41	.00	.00	3.67
(2)	.00	.02	.07	.02	.02	.02	.00	.02	.00	.00	.00	.00	.00	.00	.02	.00	.00	.20
4-7	4	9	4	8	8	10	2	4	4	5	1	6	3	0	1	1	0	70
(1)	1.63	3.67	1.63	3.27	3.27	4.08	.82	1.63	1.63	2.04	.41	2.45	1.22	.00	.41	.41	.00	28.57
(2)	.09	.20	.09	.18	.18	.22	.04	.09	.09	.11	.02	.13	.07	.00	.02	.02	.00	1.57
8-12	15	12	3	2	3	3	3	22	4	4	6	7	2	7	6	0	0	99
(1)	6.12	4.90	1.22	.82	1.22	1.22	1.22	8.98	1.63	1.63	2.45	2.86	.82	2.86	2.45	.00	.00	40.41
(2)	.34	.27	.07	.04	.07	.07	.07	.49	.09	.09	.13	.16	.04	.16	.13	.00	.00	2.22
13-18	4	3	3	2	2	1	3	7	1	2	12	3	2	0	2	5	0	52
(1)	1.63	1.22	1.22	.82	.82	.41	1.22	2.86	.41	.82	4.90	1.22	.82	.00	.82	2.04	.00	21.22
(2)	.09	.07	.07	.04	.04	.02	.07	.16	.02	.04	.27	.07	.04	.00	.04	.11	.00	1.17
19-24	0	1	3	0	0	0	0	0	0	1	3	1	1	3	0	0	0	13
(1)	.00	.41	1.22	.00	.00	.00	.00	.00	.00	.41	1.22	.41	.41	1.22	.00	.00	.00	5.31
(2)	.00	.02	.07	.00	.00	.00	.00	.00	.00	.02	.07	.02	.02	.07	.00	.00	.00	.29
GT 24	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.82	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.82
(2)	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
ALL SPEEDS	23	26	18	13	14	15	8	34	9	12	22	17	8	10	10	6	0	245
(1)	9.39	10.61	7.35	5.31	5.71	6.12	3.27	13.88	3.67	4.90	8.98	6.94	3.27	4.08	4.08	2.45	.00	100.00
(2)	.52	.58	.40	.29	.31	.34	.18	.76	.20	.27	.49	.38	.18	.22	.22	.13	.00	5.51

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-60— CCNPP 197' May JFD
(Page 4 of 8)

CC MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 35.51
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	8	10	7	9	12	9	4	6	4	2	6	2	3	5	4	4	0	95
(1)	.51	.63	.44	.57	.76	.57	.25	.38	.25	.13	.38	.13	.19	.32	.25	.25	.00	6.01
(2)	.18	.22	.16	.20	.27	.20	.09	.13	.09	.04	.13	.04	.07	.11	.09	.09	.00	2.13
4-7	19	52	33	37	47	34	32	26	23	11	19	9	7	5	6	10	0	370
(1)	1.20	3.29	2.09	2.34	2.97	2.15	2.03	1.65	1.46	.70	1.20	.57	.44	.32	.38	.63	.00	23.42
(2)	.43	1.17	.74	.83	1.06	.76	.72	.58	.52	.25	.43	.20	.16	.11	.13	.22	.00	8.31
8-12	43	53	57	77	55	40	60	85	42	17	18	29	19	10	28	41	0	674
(1)	2.72	3.35	3.61	4.87	3.48	2.53	3.80	5.38	2.66	1.08	1.14	1.84	1.20	.63	1.77	2.59	.00	42.66
(2)	.97	1.19	1.28	1.73	1.24	.90	1.35	1.91	.94	.38	.40	.65	.43	.22	.63	.92	.00	15.15
13-18	30	25	31	32	18	20	16	50	11	15	33	12	6	7	9	34	0	349
(1)	1.90	1.58	1.96	2.03	1.14	1.27	1.01	3.16	.70	.95	2.09	.76	.38	.44	.57	2.15	.00	22.09
(2)	.67	.56	.70	.72	.40	.45	.36	1.12	.25	.34	.74	.27	.13	.16	.20	.76	.00	7.84
19-24	7	27	18	2	0	1	1	2	1	6	9	0	2	3	1	2	0	82
(1)	.44	1.71	1.14	.13	.00	.06	.06	.13	.06	.38	.57	.00	.13	.19	.06	.13	.00	5.19
(2)	.16	.61	.40	.04	.00	.02	.02	.04	.02	.13	.20	.00	.04	.07	.02	.04	.00	1.84
GT 24	0	6	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
(1)	.00	.38	.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.63
(2)	.00	.13	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22
ALL SPEEDS	107	173	150	157	132	104	113	169	81	51	85	52	37	30	48	91	0	1580
(1)	6.77	10.95	9.49	9.94	8.35	6.58	7.15	10.70	5.13	3.23	5.38	3.29	2.34	1.90	3.04	5.76	.00	100.00
(2)	2.40	3.89	3.37	3.53	2.97	2.34	2.54	3.80	1.82	1.15	1.91	1.17	.83	.67	1.08	2.04	.00	35.51

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-60— CCNPP 197' May JFD

(Page 5 of 8)

CC MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 23.33

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	4	2	3	2	5	5	3	4	6	2	4	1	0	0	1	1	0	43
(1)	.39	.19	.29	.19	.48	.48	.29	.39	.58	.19	.39	.10	.00	.00	.10	.10	.00	4.14
(2)	.09	.04	.07	.04	.11	.11	.07	.09	.13	.04	.09	.02	.00	.00	.02	.02	.00	.97
4-7	12	9	11	6	10	7	17	17	8	7	18	6	4	11	8	6	0	157
(1)	1.16	.87	1.06	.58	.96	.67	1.64	1.64	.77	.67	1.73	.58	.39	1.06	.77	.58	.00	15.13
(2)	.27	.20	.25	.13	.22	.16	.38	.38	.18	.16	.40	.13	.09	.25	.18	.13	.00	3.53
8-12	20	9	7	4	13	15	27	54	55	30	33	34	18	29	30	39	0	417
(1)	1.93	.87	.67	.39	1.25	1.45	2.60	5.20	5.30	2.89	3.18	3.28	1.73	2.79	2.89	3.76	.00	40.17
(2)	.45	.20	.16	.09	.29	.34	.61	1.21	1.24	.67	.74	.76	.40	.65	.67	.88	.00	9.37
13-18	15	4	1	0	0	1	5	24	36	65	109	22	10	16	29	30	0	367
(1)	1.45	.39	.10	.00	.00	.10	.48	2.31	3.47	6.26	10.50	2.12	.96	1.54	2.79	2.89	.00	35.36
(2)	.34	.09	.02	.00	.00	.02	.11	.54	.81	1.46	2.45	.49	.22	.36	.65	.67	.00	8.25
19-24	3	3	0	1	0	0	0	2	0	19	15	3	4	3	0	0	0	53
(1)	.29	.29	.00	.10	.00	.00	.00	.19	.00	1.83	1.45	.29	.39	.29	.00	.00	.00	5.11
(2)	.07	.07	.00	.02	.00	.00	.00	.04	.00	.43	.34	.07	.09	.07	.00	.00	.00	1.19
GT 24	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.10
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
ALL SPEEDS	54	27	22	13	28	28	52	101	105	124	179	66	36	59	68	76	0	1038
(1)	5.20	2.60	2.12	1.25	2.70	2.70	5.01	9.73	10.12	11.95	17.24	6.36	3.47	5.68	6.55	7.32	.00	100.00
(2)	1.21	.61	.49	.29	.63	.63	1.17	2.27	2.36	2.79	4.02	1.48	.81	1.33	1.53	1.71	.00	23.33

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-60— CCNPP 197' May JFD
(Page 6 of 8)

CC MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 10.54
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	1	1	2	2	4	1	2	2	1	2	0	2	1	0	0	0	23
(1)	.43	.21	.21	.43	.43	.85	.21	.43	.43	.21	.43	.00	.43	.21	.00	.00	.00	4.90
(2)	.04	.02	.02	.04	.04	.09	.02	.04	.04	.02	.04	.00	.04	.02	.00	.00	.00	.52
4-7	7	2	4	5	2	4	3	5	7	3	5	3	4	4	5	2	0	65
(1)	1.49	.43	.85	1.07	.43	.85	.64	1.07	1.49	.64	1.07	.64	.85	.85	1.07	.43	.00	13.86
(2)	.16	.04	.09	.11	.04	.09	.07	.11	.16	.07	.11	.07	.09	.09	.11	.04	.00	1.46
8-12	6	2	2	0	3	0	10	14	20	20	16	12	16	11	14	22	0	168
(1)	1.28	.43	.43	.00	.64	.00	2.13	2.99	4.26	4.26	3.41	2.56	3.41	2.35	2.99	4.69	.00	35.82
(2)	.13	.04	.04	.00	.07	.00	.22	.31	.45	.45	.36	.27	.36	.25	.31	.49	.00	3.78
13-18	1	2	0	0	0	0	2	6	34	59	56	14	9	5	21	2	0	211
(1)	.21	.43	.00	.00	.00	.00	.43	1.28	7.25	12.58	11.94	2.99	1.92	1.07	4.48	.43	.00	44.99
(2)	.02	.04	.00	.00	.00	.00	.04	.13	.76	1.33	1.26	.31	.20	.11	.47	.04	.00	4.74
19-24	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43	.00	.00	.00	.00	.00	.43
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00	.04
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	16	7	7	7	7	8	16	27	63	83	79	31	31	21	40	26	0	469
(1)	3.41	1.49	1.49	1.49	1.49	1.71	3.41	5.76	13.43	17.70	16.84	6.61	6.61	4.48	8.53	5.54	.00	100.00
(2)	.36	.16	.16	.16	.16	.18	.36	.61	1.42	1.87	1.78	.70	.70	.47	.90	.58	.00	10.54

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-60— CCNPP 197' May JFD
(Page 7 of 8)

CC MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 6.63

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	3	3	3	1	0	1	2	2	2	1	2	1	1	0	0	0	0	22
(1)	1.02	1.02	1.02	.34	.00	.34	.68	.68	.68	.34	.68	.34	.34	.00	.00	.00	.00	7.46
(2)	.07	.07	.07	.02	.00	.02	.04	.04	.04	.02	.04	.02	.02	.00	.00	.00	.00	.49
4-7	4	4	0	4	4	2	3	2	6	5	4	4	4	1	2	2	0	51
(1)	1.36	1.36	.00	1.36	1.36	.68	1.02	.68	2.03	1.69	1.36	1.36	1.36	.34	.68	.68	.00	17.29
(2)	.09	.09	.00	.09	.09	.04	.07	.04	.13	.11	.09	.09	.09	.02	.04	.04	.00	1.15
8-12	7	0	0	0	0	0	1	13	16	18	12	11	7	12	12	6	0	115
(1)	2.37	.00	.00	.00	.00	.00	.34	4.41	5.42	6.10	4.07	3.73	2.37	4.07	4.07	2.03	.00	38.98
(2)	.16	.00	.00	.00	.00	.00	.02	.29	.36	.40	.27	.25	.16	.27	.27	.13	.00	2.58
13-18	0	0	0	0	0	0	0	2	20	27	21	8	9	8	10	1	0	106
(1)	.00	.00	.00	.00	.00	.00	.00	.68	6.78	9.15	7.12	2.71	3.05	2.71	3.39	.34	.00	35.93
(2)	.00	.00	.00	.00	.00	.00	.00	.04	.45	.61	.47	.18	.20	.18	.22	.02	.00	2.38
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.34	.00	.00	.34
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	14	7	3	5	4	3	6	19	44	51	39	24	21	21	25	9	0	295
(1)	4.75	2.37	1.02	1.69	1.36	1.02	2.03	6.44	14.92	17.29	13.22	8.14	7.12	7.12	8.47	3.05	.00	100.00
(2)	.31	.16	.07	.11	.09	.07	.13	.43	.99	1.15	.88	.54	.47	.47	.56	.20	.00	6.63

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-60— CCNPP 197' May JFD
(Page 8 of 8)

CC MAY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	17	18	17	16	20	21	10	15	14	6	14	4	7	6	7	5	0	197
(1)	.38	.40	.38	.36	.45	.47	.22	.34	.31	.13	.31	.09	.16	.13	.16	.11	.00	4.43
(2)	.38	.40	.38	.36	.45	.47	.22	.34	.31	.13	.31	.09	.16	.13	.16	.11	.00	4.43
4-7	58	101	71	78	94	72	66	61	53	39	61	41	26	23	24	23	0	891
(1)	1.30	2.27	1.60	1.75	2.11	1.62	1.48	1.37	1.19	.88	1.37	.92	.58	.52	.54	.52	.00	20.02
(2)	1.30	2.27	1.60	1.75	2.11	1.62	1.48	1.37	1.19	.88	1.37	.92	.58	.52	.54	.52	.00	20.02
8-12	134	122	81	90	88	81	141	227	157	119	142	129	79	84	93	114	0	1881
(1)	3.01	2.74	1.82	2.02	1.98	1.82	3.17	5.10	3.53	2.67	3.19	2.90	1.78	1.89	2.09	2.56	.00	42.27
(2)	3.01	2.74	1.82	2.02	1.98	1.82	3.17	5.10	3.53	2.67	3.19	2.90	1.78	1.89	2.09	2.56	.00	42.27
13-18	64	38	37	35	21	24	36	116	107	188	284	69	47	46	83	78	0	1273
(1)	1.44	.85	.83	.79	.47	.54	.81	2.61	2.40	4.22	6.38	1.55	1.06	1.03	1.87	1.75	.00	28.61
(2)	1.44	.85	.83	.79	.47	.54	.81	2.61	2.40	4.22	6.38	1.55	1.06	1.03	1.87	1.75	.00	28.61
19-24	11	32	27	3	0	1	2	5	2	31	38	6	9	13	3	6	0	189
(1)	.25	.72	.61	.07	.00	.02	.04	.11	.04	.70	.85	.13	.20	.29	.07	.13	.00	4.25
(2)	.25	.72	.61	.07	.00	.02	.04	.11	.04	.70	.85	.13	.20	.29	.07	.13	.00	4.25
GT 24	0	6	8	0	0	0	0	0	0	2	0	1	2	0	0	0	0	19
(1)	.00	.13	.18	.00	.00	.00	.00	.00	.00	.04	.00	.02	.04	.00	.00	.00	.00	.43
(2)	.00	.13	.18	.00	.00	.00	.00	.00	.00	.04	.00	.02	.04	.00	.00	.00	.00	.43
ALL SPEEDS	284	317	241	222	223	199	255	424	333	385	539	250	170	172	210	226	0	4450
(1)	6.38	7.12	5.42	4.99	5.01	4.47	5.73	9.53	7.48	8.65	12.11	5.62	3.82	3.87	4.72	5.08	.00	100.00
(2)	6.38	7.12	5.42	4.99	5.01	4.47	5.73	9.53	7.48	8.65	12.11	5.62	3.82	3.87	4.72	5.08	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-61— CCNPP 197' June JFD
(Page 1 of 8)

CC JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 13.90
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	4
(1)	.17	.00	.00	.17	.17	.00	.00	.17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.67
(2)	.02	.00	.00	.02	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
4-7	12	23	13	15	16	16	5	6	7	14	20	5	4	3	0	1	0	160
(1)	2.00	3.83	2.17	2.50	2.67	2.67	.83	1.00	1.17	2.33	3.33	.83	.67	.50	.00	.17	.00	26.67
(2)	.28	.53	.30	.35	.37	.37	.12	.14	.16	.32	.46	.12	.09	.07	.00	.02	.00	3.71
8-12	44	14	1	3	3	7	28	26	15	26	54	32	15	6	9	5	0	288
(1)	7.33	2.33	.17	.50	.50	1.17	4.67	4.33	2.50	4.33	9.00	5.33	2.50	1.00	1.50	.83	.00	48.00
(2)	1.02	.32	.02	.07	.07	.16	.65	.60	.35	.60	1.25	.74	.35	.14	.21	.12	.00	6.67
13-18	1	5	1	0	0	0	12	21	8	20	47	10	4	5	2	4	0	140
(1)	.17	.83	.17	.00	.00	.00	2.00	3.50	1.33	3.33	7.83	1.67	.67	.83	.33	.67	.00	23.33
(2)	.02	.12	.02	.00	.00	.00	.28	.49	.19	.46	1.09	.23	.09	.12	.05	.09	.00	3.24
19-24	0	1	0	0	0	0	0	2	0	1	0	0	0	0	3	0	0	7
(1)	.00	.17	.00	.00	.00	.00	.00	.33	.00	.17	.00	.00	.00	.00	.50	.00	.00	1.17
(2)	.00	.02	.00	.00	.00	.00	.00	.05	.00	.02	.00	.00	.00	.00	.07	.00	.00	.16
GT 24	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.17
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
ALL SPEEDS	58	43	15	19	20	23	45	57	30	61	121	47	23	14	14	10	0	600
(1)	9.67	7.17	2.50	3.17	3.33	3.83	7.50	9.50	5.00	10.17	20.17	7.83	3.83	2.33	2.33	1.67	.00	100.00
(2)	1.34	1.00	.35	.44	.46	.53	1.04	1.32	.69	1.41	2.80	1.09	.53	.32	.32	.23	.00	13.90

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-61— CCNPP 197' June JFD

(Page 2 of 8)

CC JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 5.54
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	1	1	2	2	0	0	0	0	3	0	0	0	0	0	0	10
(1)	.00	.42	.42	.42	.84	.84	.00	.00	.00	.00	1.26	.00	.00	.00	.00	.00	.00	4.18
(2)	.00	.02	.02	.02	.05	.05	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.23
4-7	8	17	6	10	13	9	7	7	4	5	4	4	2	1	1	3	0	101
(1)	3.35	7.11	2.51	4.18	5.44	3.77	2.93	2.93	1.67	2.09	1.67	1.67	.84	.42	.42	1.26	.00	42.26
(2)	.19	.39	.14	.23	.30	.21	.16	.16	.09	.12	.09	.09	.05	.02	.02	.07	.00	2.34
8-12	6	7	0	1	3	3	6	15	3	10	15	6	4	8	4	2	0	93
(1)	2.51	2.93	.00	.42	1.26	1.26	2.51	6.28	1.26	4.18	6.28	2.51	1.67	3.35	1.67	.84	.00	38.91
(2)	.14	.16	.00	.02	.07	.07	.14	.35	.07	.23	.35	.14	.09	.19	.09	.05	.00	2.15
13-18	2	0	0	0	2	0	0	6	0	9	5	1	2	0	1	3	0	31
(1)	.84	.00	.00	.00	.84	.00	.00	2.51	.00	3.77	2.09	.42	.84	.00	.42	1.26	.00	12.97
(2)	.05	.00	.00	.00	.05	.00	.00	.14	.00	.21	.12	.02	.05	.00	.02	.07	.00	.72
19-24	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	4
(1)	.00	.84	.00	.00	.00	.00	.00	.42	.00	.00	.00	.00	.00	.00	.00	.42	.00	1.67
(2)	.00	.05	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02	.00	.09
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	16	27	7	12	20	14	13	29	7	24	27	11	8	9	6	9	0	239
(1)	6.69	11.30	2.93	5.02	8.37	5.86	5.44	12.13	2.93	10.04	11.30	4.60	3.35	3.77	2.51	3.77	.00	100.00
(2)	.37	.63	.16	.28	.46	.32	.30	.67	.16	.56	.63	.25	.19	.21	.14	.21	.00	5.54

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-61— CCNPP 197' June JFD

(Page 3 of 8)

CC JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA   STABILITY CLASS C   CLASS FREQUENCY (PERCENT) = 6.02

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	0	1	2	0	0	1	0	1	1	0	1	0	0	0	0	8
(1)	.00	.38	.00	.38	.77	.00	.00	.38	.00	.38	.38	.00	.38	.00	.00	.00	.00	3.08
(2)	.00	.02	.00	.02	.05	.00	.00	.02	.00	.02	.02	.00	.02	.00	.00	.00	.00	.19
4-7	24	17	7	14	7	3	9	3	0	0	11	1	2	3	1	5	0	107
(1)	9.23	6.54	2.69	5.38	2.69	1.15	3.46	1.15	.00	.00	4.23	.38	.77	1.15	.38	1.92	.00	41.15
(2)	.56	.39	.16	.32	.16	.07	.21	.07	.00	.00	.25	.02	.05	.07	.02	.12	.00	2.48
8-12	7	7	1	1	7	2	3	13	9	7	13	10	6	5	12	4	0	107
(1)	2.69	2.69	.38	.38	2.69	.77	1.15	5.00	3.46	2.69	5.00	3.85	2.31	1.92	4.62	1.54	.00	41.15
(2)	.16	.16	.02	.02	.16	.05	.07	.30	.21	.16	.30	.23	.14	.12	.28	.09	.00	2.48
13-18	1	3	1	1	1	1	0	6	0	4	8	1	1	1	2	2	0	33
(1)	.38	1.15	.38	.38	.38	.38	.00	2.31	.00	1.54	3.08	.38	.38	.38	.77	.77	.00	12.69
(2)	.02	.07	.02	.02	.02	.02	.00	.14	.00	.09	.19	.02	.02	.02	.05	.05	.00	.76
19-24	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	3
(1)	.00	.00	.38	.00	.00	.00	.00	.38	.00	.00	.00	.00	.00	.00	.38	.00	.00	1.15
(2)	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02	.00	.00	.07
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.38	.00	.38	.00	.00	.77
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.05
ALL SPEEDS	32	28	10	17	17	6	12	24	9	12	33	12	11	9	17	11	0	260
(1)	12.31	10.77	3.85	6.54	6.54	2.31	4.62	9.23	3.46	4.62	12.69	4.62	4.23	3.46	6.54	4.23	.00	100.00
(2)	.74	.65	.23	.39	.39	.14	.28	.56	.21	.28	.76	.28	.25	.21	.39	.25	.00	6.02

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-61— CCNPP 197' June JFD
(Page 4 of 8)

CC JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 30.58
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
(2)	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
C-3	9	9	5	8	13	7	4	2	3	5	6	7	7	3	8	4	0	100
(1)	.68	.68	.38	.61	.98	.53	.30	.15	.23	.38	.45	.53	.53	.23	.61	.30	.00	7.58
(2)	.21	.21	.12	.19	.30	.16	.09	.05	.07	.12	.14	.16	.16	.07	.19	.09	.00	2.32
4-7	44	48	22	33	27	24	16	15	15	21	15	22	12	14	16	13	0	357
(1)	3.33	3.64	1.67	2.50	2.05	1.82	1.21	1.14	1.14	1.59	1.14	1.67	.91	1.06	1.21	.98	.00	27.05
(2)	1.02	1.11	.51	.76	.63	.56	.37	.35	.35	.49	.35	.51	.28	.32	.37	.30	.00	8.27
8-12	44	24	27	74	43	18	9	61	24	42	48	28	20	22	36	29	0	549
(1)	3.33	1.82	2.05	5.61	3.26	1.36	.68	4.62	1.82	3.18	3.64	2.12	1.52	1.67	2.73	2.20	.00	41.59
(2)	1.02	.56	.63	1.71	1.00	.42	.21	1.41	.56	.97	1.11	.65	.46	.51	.83	.67	.00	12.72
13-18	32	29	24	24	16	3	6	38	2	21	28	10	3	3	21	19	0	279
(1)	2.42	2.20	1.82	1.82	1.21	.23	.45	2.88	.15	1.59	2.12	.76	.23	.23	1.59	1.44	.00	21.14
(2)	.74	.67	.56	.56	.37	.07	.14	.88	.05	.49	.65	.23	.07	.07	.49	.44	.00	6.46
19-24	7	4	2	0	2	0	0	2	0	1	1	0	1	5	2	5	0	32
(1)	.53	.30	.15	.00	.15	.00	.00	.15	.00	.08	.08	.00	.08	.38	.15	.38	.00	2.42
(2)	.16	.09	.05	.00	.05	.00	.00	.05	.00	.02	.02	.00	.02	.12	.05	.12	.00	.74
GT 24	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
(1)	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.15
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.05
ALL SPEEDS	136	115	80	139	101	53	35	118	44	90	98	67	43	47	84	70	0	1320
(1)	10.30	8.71	6.06	10.53	7.65	4.02	2.65	8.94	3.33	6.82	7.42	5.08	3.26	3.56	6.36	5.30	.00	100.00
(2)	3.15	2.66	1.85	3.22	2.34	1.23	.81	2.73	1.02	2.08	2.27	1.55	1.00	1.09	1.95	1.62	.00	30.58

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-61— CCNPP 197' June JFD

(Page 5 of 8)

CC JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 22.12

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	7	4	0	1	3	1	1	2	3	0	2	1	2	2	0	30
(1)	.10	.00	.73	.42	.00	.10	.31	.10	.10	.21	.31	.00	.21	.10	.21	.21	.00	3.14
(2)	.02	.00	.16	.09	.00	.02	.07	.02	.02	.05	.07	.00	.05	.02	.05	.05	.00	.69
4-7	7	5	2	6	8	4	11	8	13	6	19	20	6	12	11	11	0	149
(1)	.73	.52	.21	.63	.84	.42	1.15	.84	1.36	.63	1.99	2.09	.63	1.26	1.15	1.15	.00	15.60
(2)	.16	.12	.05	.14	.19	.09	.25	.19	.30	.14	.44	.46	.14	.28	.25	.25	.00	3.45
8-12	15	12	1	2	7	7	14	45	72	64	62	41	26	31	30	36	0	465
(1)	1.57	1.26	.10	.21	.73	.73	1.47	4.71	7.54	6.70	6.49	4.29	2.72	3.25	3.14	3.77	.00	48.69
(2)	.35	.28	.02	.05	.16	.16	.32	1.04	1.67	1.48	1.44	.95	.60	.72	.69	.83	.00	10.77
13-18	3	2	0	0	1	3	2	25	31	86	78	23	5	6	18	18	0	301
(1)	.31	.21	.00	.00	.10	.31	.21	2.62	3.25	9.01	8.17	2.41	.52	.63	1.88	1.88	.00	31.52
(2)	.07	.05	.00	.00	.02	.07	.05	.58	.72	1.99	1.81	.53	.12	.14	.42	.42	.00	6.97
19-24	0	0	0	0	0	0	0	0	0	1	5	1	0	1	0	2	0	10
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.52	.10	.00	.10	.00	.21	.00	1.05
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.12	.02	.00	.02	.00	.05	.00	.23
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	26	19	10	12	16	15	30	79	117	159	167	85	39	51	61	69	0	955
(1)	2.72	1.99	1.05	1.26	1.68	1.57	3.14	8.27	12.25	16.65	17.49	8.90	4.08	5.34	6.39	7.23	.00	100.00
(2)	.60	.44	.23	.28	.37	.35	.69	1.83	2.71	3.68	3.87	1.97	.90	1.18	1.41	1.60	.00	22.12

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-61— CCNPP 197' June JFD
(Page 6 of 8)

CC JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 12.76

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	2	1	2	1	0	1	3	1	1	1	0	0	0	3	1	0	17
(1)	.00	.36	.18	.36	.18	.00	.18	.54	.18	.18	.18	.00	.00	.00	.54	.18	.00	3.09
(2)	.00	.05	.02	.05	.02	.00	.02	.07	.02	.02	.02	.00	.00	.00	.07	.02	.00	.39
4-7	4	3	1	1	0	3	7	2	10	4	8	9	5	5	3	6	0	71
(1)	.73	.54	.18	.18	.00	.54	1.27	.36	1.81	.73	1.45	1.63	.91	.91	.54	1.09	.00	12.89
(2)	.09	.07	.02	.02	.00	.07	.16	.05	.23	.09	.19	.21	.12	.12	.07	.14	.00	1.64
8-12	6	0	0	0	0	1	5	16	47	54	33	30	28	19	15	5	0	259
(1)	1.09	.00	.00	.00	.00	.18	.91	2.90	8.53	9.80	5.99	5.44	5.08	3.45	2.72	.91	.00	47.01
(2)	.14	.00	.00	.00	.00	.02	.12	.37	1.09	1.25	.76	.69	.65	.44	.35	.12	.00	6.00
13-18	0	0	0	0	0	0	0	7	31	58	46	22	7	8	21	3	0	203
(1)	.00	.00	.00	.00	.00	.00	.00	1.27	5.63	10.53	8.35	3.99	1.27	1.45	3.81	.54	.00	36.84
(2)	.00	.00	.00	.00	.00	.00	.00	.16	.72	1.34	1.07	.51	.16	.19	.49	.07	.00	4.70
19-24	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.00	.00	.00	.00	.00	.00	.00	.18
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	10	5	2	3	1	4	13	28	89	118	88	61	40	32	42	15	0	551
(1)	1.81	.91	.36	.54	.18	.73	2.36	5.08	16.15	21.42	15.97	11.07	7.26	5.81	7.62	2.72	.00	100.00
(2)	.23	.12	.05	.07	.02	.09	.30	.65	2.06	2.73	2.04	1.41	.93	.74	.97	.35	.00	12.76

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-61— CCNPP 197' June JFD
(Page 7 of 8)

CC JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 9.08
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	3	2	3	1	5	4	2	1	1	2	1	1	1	3	4	2	0	36
(1)	.77	.51	.77	.26	1.28	1.02	.51	.26	.26	.51	.26	.26	.26	.77	1.02	.51	.00	9.18
(2)	.07	.05	.07	.02	.12	.09	.05	.02	.02	.05	.02	.02	.02	.07	.09	.05	.00	.83
4-7	4	0	1	2	2	1	2	3	3	5	7	4	9	7	5	3	0	58
(1)	1.02	.00	.26	.51	.51	.26	.51	.77	.77	1.28	1.79	1.02	2.30	1.79	1.28	.77	.00	14.80
(2)	.09	.00	.02	.05	.05	.02	.05	.07	.07	.12	.16	.09	.21	.16	.12	.07	.00	1.34
8-12	2	0	0	1	0	0	0	4	21	34	45	23	25	19	7	11	0	192
(1)	.51	.00	.00	.26	.00	.00	.00	1.02	5.36	8.67	11.48	5.87	6.38	4.85	1.79	2.81	.00	48.98
(2)	.05	.00	.00	.02	.00	.00	.00	.09	.49	.79	1.04	.53	.58	.44	.16	.25	.00	4.45
13-18	0	0	0	0	0	0	0	3	16	26	12	13	15	11	8	1	0	105
(1)	.00	.00	.00	.00	.00	.00	.00	.77	4.08	6.63	3.06	3.32	3.83	2.81	2.04	.26	.00	26.79
(2)	.00	.00	.00	.00	.00	.00	.00	.07	.37	.60	.28	.30	.35	.25	.19	.02	.00	2.43
19-24	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.26	.00	.00	.00	.00	.00	.00	.00	.26
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	9	2	4	4	7	5	4	11	41	68	65	41	50	40	24	17	0	392
(1)	2.30	.51	1.02	1.02	1.79	1.28	1.02	2.81	10.46	17.35	16.58	10.46	12.76	10.20	6.12	4.34	.00	100.00
(2)	.21	.05	.09	.09	.16	.12	.09	.25	.95	1.58	1.51	.95	1.16	.93	.56	.39	.00	9.08

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-61— CCNPP 197' June JFD
(Page 8 of 8)

CC JUNE MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
C-3	14	15	17	18	24	14	10	9	6	11	15	8	11	7	17	9	0	205
(1)	.32	.35	.39	.42	.56	.32	.23	.21	.14	.25	.35	.19	.25	.16	.39	.21	.00	4.75
(2)	.32	.35	.39	.42	.56	.32	.23	.21	.14	.25	.35	.19	.25	.16	.39	.21	.00	4.75
4-7	103	113	52	81	73	60	57	44	52	55	84	65	40	45	37	42	0	1003
(1)	2.39	2.62	1.20	1.88	1.69	1.39	1.32	1.02	1.20	1.27	1.95	1.51	.93	1.04	.86	.97	.00	23.23
(2)	2.39	2.62	1.20	1.88	1.69	1.39	1.32	1.02	1.20	1.27	1.95	1.51	.93	1.04	.86	.97	.00	23.23
8-12	124	64	30	82	63	38	65	180	191	237	270	170	124	110	113	92	0	1953
(1)	2.87	1.48	.69	1.90	1.46	.88	1.51	4.17	4.42	5.49	6.25	3.94	2.87	2.55	2.62	2.13	.00	45.24
(2)	2.87	1.48	.69	1.90	1.46	.88	1.51	4.17	4.42	5.49	6.25	3.94	2.87	2.55	2.62	2.13	.00	45.24
13-18	39	39	26	25	20	7	20	106	88	224	224	80	37	34	73	50	0	1092
(1)	.90	.90	.60	.58	.46	.16	.46	2.46	2.04	5.19	5.19	1.85	.86	.79	1.69	1.16	.00	25.30
(2)	.90	.90	.60	.58	.46	.16	.46	2.46	2.04	5.19	5.19	1.85	.86	.79	1.69	1.16	.00	25.30
19-24	7	7	3	0	2	0	0	6	0	5	6	1	1	6	6	8	0	58
(1)	.16	.16	.07	.00	.05	.00	.00	.14	.00	.12	.14	.02	.02	.14	.14	.19	.00	1.34
(2)	.16	.16	.07	.00	.05	.00	.00	.14	.00	.12	.14	.02	.02	.14	.14	.19	.00	1.34
GT 24	0	1	0	0	0	0	0	1	0	0	0	0	1	0	2	0	0	5
(1)	.00	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.05	.00	.00	.12
(2)	.00	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.05	.00	.00	.12
ALL SPEEDS	287	239	128	206	182	120	152	346	337	532	599	324	214	202	248	201	0	4317
(1)	6.65	5.54	2.97	4.77	4.22	2.78	3.52	8.01	7.81	12.32	13.88	7.51	4.96	4.68	5.74	4.66	.00	100.00
(2)	6.65	5.54	2.97	4.77	4.22	2.78	3.52	8.01	7.81	12.32	13.88	7.51	4.96	4.68	5.74	4.66	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-62— CCNPP 197' July JFD
(Page 1 of 8)

CC JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 12.73

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.00	.00	.00	.00	.00	.18
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
4-7	14	21	6	12	13	6	12	2	3	13	13	6	0	0	1	2	0	124
(1)	2.50	3.76	1.07	2.15	2.33	1.07	2.15	.36	.54	2.33	2.33	1.07	.00	.00	.18	.36	.00	22.18
(2)	.32	.48	.14	.27	.30	.14	.27	.05	.07	.30	.30	.14	.00	.00	.02	.05	.00	2.82
8-12	51	48	6	2	0	12	21	29	13	36	51	26	8	4	6	6	0	319
(1)	9.12	8.59	1.07	.36	.00	2.15	3.76	5.19	2.33	6.44	9.12	4.65	1.43	.72	1.07	1.07	.00	57.07
(2)	1.16	1.09	.14	.05	.00	.27	.48	.66	.30	.82	1.16	.59	.18	.09	.14	.14	.00	7.26
13-18	14	13	8	1	0	1	10	15	5	10	9	2	3	3	10	6	0	110
(1)	2.50	2.33	1.43	.18	.00	.18	1.79	2.68	.89	1.79	1.61	.36	.54	.54	1.79	1.07	.00	19.68
(2)	.32	.30	.18	.02	.00	.02	.23	.34	.11	.23	.20	.05	.07	.07	.23	.14	.00	2.50
19-24	0	1	2	0	0	0	0	1	0	0	1	0	0	0	0	0	0	5
(1)	.00	.18	.36	.00	.00	.00	.00	.18	.00	.00	.18	.00	.00	.00	.00	.00	.00	.89
(2)	.00	.02	.05	.00	.00	.00	.00	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.11
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	79	83	22	15	13	19	43	47	21	59	74	35	11	7	17	14	0	559
(1)	14.13	14.85	3.94	2.68	2.33	3.40	7.69	8.41	3.76	10.55	13.24	6.26	1.97	1.25	3.04	2.50	.00	100.00
(2)	1.80	1.89	.50	.34	.30	.43	.98	1.07	.48	1.34	1.68	.80	.25	.16	.39	.32	.00	12.73

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-62— CCNPP 197' July JFD
(Page 2 of 8)

CC JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 5.92
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	0	2	0	0	1	0	0	0	1	1	1	0	0	0	0	7
(1)	.00	.38	.00	.77	.00	.00	.38	.00	.00	.00	.38	.38	.38	.00	.00	.00	.00	2.69
(2)	.00	.02	.00	.05	.00	.00	.02	.00	.00	.00	.02	.02	.02	.00	.00	.00	.00	.16
4-7	23	22	7	10	16	8	8	3	3	3	3	10	10	2	1	0	0	129
(1)	8.85	8.46	2.69	3.85	6.15	3.08	3.08	1.15	1.15	1.15	1.15	3.85	3.85	.77	.38	.00	.00	49.62
(2)	.52	.50	.16	.23	.36	.18	.18	.07	.07	.07	.07	.23	.23	.05	.02	.00	.00	2.94
8-12	11	11	1	1	0	1	8	14	2	10	10	12	7	1	1	4	0	94
(1)	4.23	4.23	.38	.38	.00	.38	3.08	5.38	.77	3.85	3.85	4.62	2.69	.38	.38	1.54	.00	36.15
(2)	.25	.25	.02	.02	.00	.02	.18	.32	.05	.23	.23	.27	.16	.02	.02	.09	.00	2.14
13-18	4	2	2	1	0	0	0	4	3	2	5	2	0	0	1	0	0	26
(1)	1.54	.77	.77	.38	.00	.00	.00	1.54	1.15	.77	1.92	.77	.00	.00	.38	.00	.00	10.00
(2)	.09	.05	.05	.02	.00	.00	.00	.09	.07	.05	.11	.05	.00	.00	.02	.00	.00	.59
19-24	0	1	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	4
(1)	.00	.38	.00	.00	.00	.00	.00	.00	.38	.00	.38	.00	.00	.00	.38	.00	.00	1.54
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.00	.02	.00	.00	.09
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	38	37	10	14	16	9	17	21	9	15	20	25	18	3	4	4	0	260
(1)	14.62	14.23	3.85	5.38	6.15	3.46	6.54	8.08	3.46	5.77	7.69	9.62	6.92	1.15	1.54	1.54	.00	100.00
(2)	.87	.84	.23	.32	.36	.20	.39	.48	.20	.34	.46	.57	.41	.07	.09	.09	.00	5.92

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-62— CCNPP 197' July JFD
(Page 3 of 8)

CC JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 6.79
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	2	0	3	3	0	0	0	1	0	1	0	0	0	1	3	0	15
(1)	.34	.67	.00	1.01	1.01	.00	.00	.00	.34	.00	.34	.00	.00	.00	.34	1.01	.00	5.03
(2)	.02	.05	.00	.07	.07	.00	.00	.00	.02	.00	.02	.00	.00	.00	.02	.07	.00	.34
4-7	20	30	9	14	15	8	10	6	5	3	8	9	4	4	2	1	0	148
(1)	6.71	10.07	3.02	4.70	5.03	2.68	3.36	2.01	1.68	1.01	2.68	3.02	1.34	1.34	.67	.34	.00	49.66
(2)	.46	.68	.20	.32	.34	.18	.23	.14	.11	.07	.18	.20	.09	.09	.05	.02	.00	3.37
8-12	24	6	3	3	2	2	5	9	3	5	18	14	3	0	1	9	0	107
(1)	8.05	2.01	1.01	1.01	.67	.67	1.68	3.02	1.01	1.68	6.04	4.70	1.01	.00	.34	3.02	.00	35.91
(2)	.55	.14	.07	.07	.05	.05	.11	.20	.07	.11	.41	.32	.07	.00	.02	.20	.00	2.44
13-18	4	1	2	1	0	0	0	4	2	2	5	3	1	1	1	1	0	28
(1)	1.34	.34	.67	.34	.00	.00	.00	1.34	.67	.67	1.68	1.01	.34	.34	.34	.34	.00	9.40
(2)	.09	.02	.05	.02	.00	.00	.00	.09	.05	.05	.11	.07	.02	.02	.02	.02	.00	.64
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	49	39	14	21	20	10	15	19	11	10	32	26	8	5	5	14	0	298
(1)	16.44	13.09	4.70	7.05	6.71	3.36	5.03	6.38	3.69	3.36	10.74	8.72	2.68	1.68	1.68	4.70	.00	100.00
(2)	1.12	.89	.32	.48	.46	.23	.34	.43	.25	.23	.73	.59	.18	.11	.11	.32	.00	6.79

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-62— CCNPP 197' July JFD

(Page 4 of 8)

CC JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 30.62

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	6	9	8	11	11	5	5	4	7	4	3	3	4	1	1	5	0	87
(1)	.45	.67	.59	.82	.82	.37	.37	.30	.52	.30	.22	.22	.30	.07	.07	.37	.00	6.47
(2)	.14	.20	.18	.25	.25	.11	.11	.09	.16	.09	.07	.07	.09	.02	.02	.11	.00	1.98
4-7	43	61	20	33	39	21	19	16	8	24	30	21	17	20	14	14	0	400
(1)	3.20	4.54	1.49	2.45	2.90	1.56	1.41	1.19	.59	1.78	2.23	1.56	1.26	1.49	1.04	1.04	.00	29.74
(2)	.98	1.39	.46	.75	.89	.48	.43	.36	.18	.55	.68	.48	.39	.46	.32	.32	.00	9.11
8-12	45	41	54	61	49	25	32	43	19	26	56	37	13	7	9	16	0	533
(1)	3.35	3.05	4.01	4.54	3.64	1.86	2.38	3.20	1.41	1.93	4.16	2.75	.97	.52	.67	1.19	.00	39.63
(2)	1.02	.93	1.23	1.39	1.12	.57	.73	.98	.43	.59	1.28	.84	.30	.16	.20	.36	.00	12.14
13-18	12	38	72	36	17	7	4	28	7	10	18	7	0	1	7	7	0	271
(1)	.89	2.83	5.35	2.68	1.26	.52	.30	2.08	.52	.74	1.34	.52	.00	.07	.52	.52	.00	20.15
(2)	.27	.87	1.64	.82	.39	.16	.09	.64	.16	.23	.41	.16	.00	.02	.16	.16	.00	6.17
19-24	3	11	16	3	1	0	0	0	0	0	7	0	0	1	0	0	0	42
(1)	.22	.82	1.19	.22	.07	.00	.00	.00	.00	.00	.52	.00	.00	.07	.00	.00	.00	3.12
(2)	.07	.25	.36	.07	.02	.00	.00	.00	.00	.00	.16	.00	.00	.02	.00	.00	.00	.96
GT 24	0	10	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	12
(1)	.00	.74	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.89
(2)	.00	.23	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.27
ALL SPEEDS	109	170	171	144	117	58	60	91	41	64	114	68	34	30	32	42	0	1345
(1)	8.10	12.64	12.71	10.71	8.70	4.31	4.46	6.77	3.05	4.76	8.48	5.06	2.53	2.23	2.38	3.12	.00	100.00
(2)	2.48	3.87	3.89	3.28	2.66	1.32	1.37	2.07	.93	1.46	2.60	1.55	.77	.68	.73	.96	.00	30.62

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-62— CCNPP 197' July JFD
(Page 5 of 8)

CC JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 23.11

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	3	3	5	3	3	3	6	2	2	3	1	1	1	3	1	0	42
(1)	.20	.30	.30	.49	.30	.30	.30	.59	.20	.20	.30	.10	.10	.10	.30	.10	.00	4.14
(2)	.05	.07	.07	.11	.07	.07	.07	.14	.05	.05	.07	.02	.02	.02	.07	.02	.00	.96
4-7	9	8	7	10	11	12	7	18	17	8	24	15	9	15	7	8	0	185
(1)	.89	.79	.69	.99	1.08	1.18	.69	1.77	1.67	.79	2.36	1.48	.89	1.48	.69	.79	.00	18.23
(2)	.20	.18	.16	.23	.25	.27	.16	.41	.39	.18	.55	.34	.20	.34	.16	.18	.00	4.21
8-12	22	7	9	2	5	9	17	76	68	64	69	70	26	18	20	28	0	510
(1)	2.17	.69	.89	.20	.49	.89	1.67	7.49	6.70	6.31	6.80	6.90	2.56	1.77	1.97	2.76	.00	50.25
(2)	.50	.16	.20	.05	.11	.20	.39	1.73	1.55	1.46	1.57	1.59	.59	.41	.46	.64	.00	11.61
13-18	2	11	2	2	3	3	1	14	30	69	77	11	2	6	5	12	0	250
(1)	.20	1.08	.20	.20	.30	.30	.10	1.38	2.96	6.80	7.59	1.08	.20	.59	.49	1.18	.00	24.63
(2)	.05	.25	.05	.05	.07	.07	.02	.32	.68	1.57	1.75	.25	.05	.14	.11	.27	.00	5.69
19-24	2	0	1	1	1	1	0	0	3	4	14	0	0	0	0	1	0	28
(1)	.20	.00	.10	.10	.10	.10	.00	.00	.30	.39	1.38	.00	.00	.00	.00	.10	.00	2.76
(2)	.05	.00	.02	.02	.02	.02	.00	.00	.07	.09	.32	.00	.00	.00	.00	.02	.00	.64
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	37	29	22	20	23	28	28	114	120	147	187	97	38	40	35	50	0	1015
(1)	3.65	2.86	2.17	1.97	2.27	2.76	2.76	11.23	11.82	14.48	18.42	9.56	3.74	3.94	3.45	4.93	.00	100.00
(2)	.84	.66	.50	.46	.52	.64	.64	2.60	2.73	3.35	4.26	2.21	.87	.91	.80	1.14	.00	23.11

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-62— CCNPP 197' July JFD

(Page 6 of 8)

CC JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 10.82

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.21
(2)	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
C-3	2	1	2	3	1	1	3	1	2	1	3	2	0	3	1	1	0	27
(1)	.42	.21	.42	.63	.21	.21	.63	.21	.42	.21	.63	.42	.00	.63	.21	.21	.00	5.68
(2)	.05	.02	.05	.07	.02	.02	.07	.02	.05	.02	.07	.05	.00	.07	.02	.02	.00	.61
4-7	6	4	2	0	3	2	4	7	5	9	13	18	3	6	3	2	0	87
(1)	1.26	.84	.42	.00	.63	.42	.84	1.47	1.05	1.89	2.74	3.79	.63	1.26	.63	.42	.00	18.32
(2)	.14	.09	.05	.00	.07	.05	.09	.16	.11	.20	.30	.41	.07	.14	.07	.05	.00	1.98
8-12	4	1	1	1	1	2	8	11	57	47	49	35	22	17	11	12	0	279
(1)	.84	.21	.21	.21	.21	.42	1.68	2.32	12.00	9.89	10.32	7.37	4.63	3.58	2.32	2.53	.00	58.74
(2)	.09	.02	.02	.02	.02	.05	.18	.25	1.30	1.07	1.12	.80	.50	.39	.25	.27	.00	6.35
13-18	0	0	0	0	0	0	0	1	7	21	18	10	5	4	15	0	0	81
(1)	.00	.00	.00	.00	.00	.00	.00	.21	1.47	4.42	3.79	2.11	1.05	.84	3.16	.00	.00	17.05
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.16	.48	.41	.23	.11	.09	.34	.00	.00	1.84
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	12	6	5	4	5	6	15	20	71	78	83	65	30	30	30	15	0	475
(1)	2.53	1.26	1.05	.84	1.05	1.26	3.16	4.21	14.95	16.42	17.47	13.68	6.32	6.32	6.32	3.16	.00	100.00
(2)	.27	.14	.11	.09	.11	.14	.34	.46	1.62	1.78	1.89	1.48	.68	.68	.68	.34	.00	10.82

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-62— CCNPP 197' July JFD
(Page 7 of 8)

CC JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 10.02

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	3	5	5	2	6	1	2	4	4	2	2	2	4	0	1	3	0	46
(1)	.68	1.14	1.14	.45	1.36	.23	.45	.91	.91	.45	.45	.45	.91	.00	.23	.68	.00	10.45
(2)	.07	.11	.11	.05	.14	.02	.05	.09	.09	.05	.05	.05	.09	.00	.02	.07	.00	1.05
4-7	7	5	7	2	4	1	3	6	12	9	15	17	16	6	3	3	0	116
(1)	1.59	1.14	1.59	.45	.91	.23	.68	1.36	2.73	2.05	3.41	3.86	3.64	1.36	.68	.68	.00	26.36
(2)	.16	.11	.16	.05	.09	.02	.07	.14	.27	.20	.34	.39	.36	.14	.07	.07	.00	2.64
8-12	1	0	0	0	0	0	4	2	25	32	50	51	38	14	17	12	0	246
(1)	.23	.00	.00	.00	.00	.00	.91	.45	5.68	7.27	11.36	11.59	8.64	3.18	3.86	2.73	.00	55.91
(2)	.02	.00	.00	.00	.00	.00	.09	.05	.57	.73	1.14	1.16	.87	.32	.39	.27	.00	5.60
13-18	0	0	0	0	0	0	0	0	9	3	2	2	3	5	8	0	0	32
(1)	.00	.00	.00	.00	.00	.00	.00	.00	2.05	.68	.45	.45	.68	1.14	1.82	.00	.00	7.27
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.20	.07	.05	.05	.07	.11	.18	.00	.00	.73
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	11	10	12	4	10	2	9	12	50	46	69	72	61	25	29	18	0	440
(1)	2.50	2.27	2.73	.91	2.27	.45	2.05	2.73	11.36	10.45	15.68	16.36	13.86	5.68	6.59	4.09	.00	100.00
(2)	.25	.23	.27	.09	.23	.05	.20	.27	1.14	1.05	1.57	1.64	1.39	.57	.66	.41	.00	10.02

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-62— CCNPP 197' July JFD
(Page 8 of 8)

CC JULY MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
(2)	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
C-3	14	21	18	26	24	10	14	15	16	9	13	10	10	5	7	13	0	225
(1)	.32	.48	.41	.59	.55	.23	.32	.34	.36	.20	.30	.23	.23	.11	.16	.30	.00	5.12
(2)	.32	.48	.41	.59	.55	.23	.32	.34	.36	.20	.30	.23	.23	.11	.16	.30	.00	5.12
4-7	122	151	58	81	101	58	63	58	53	69	106	96	59	53	31	30	0	1189
(1)	2.78	3.44	1.32	1.84	2.30	1.32	1.43	1.32	1.21	1.57	2.41	2.19	1.34	1.21	.71	.68	.00	27.07
(2)	2.78	3.44	1.32	1.84	2.30	1.32	1.43	1.32	1.21	1.57	2.41	2.19	1.34	1.21	.71	.68	.00	27.07
8-12	158	114	74	70	57	51	95	184	187	220	303	245	117	61	65	87	0	2088
(1)	3.60	2.60	1.68	1.59	1.30	1.16	2.16	4.19	4.26	5.01	6.90	5.58	2.66	1.39	1.48	1.98	.00	47.54
(2)	3.60	2.60	1.68	1.59	1.30	1.16	2.16	4.19	4.26	5.01	6.90	5.58	2.66	1.39	1.48	1.98	.00	47.54
13-18	36	65	86	41	20	11	15	66	63	117	134	37	14	20	47	26	0	798
(1)	.82	1.48	1.96	.93	.46	.25	.34	1.50	1.43	2.66	3.05	.84	.32	.46	1.07	.59	.00	18.17
(2)	.82	1.48	1.96	.93	.46	.25	.34	1.50	1.43	2.66	3.05	.84	.32	.46	1.07	.59	.00	18.17
19-24	5	13	19	4	2	1	0	1	4	4	23	0	0	1	1	1	0	79
(1)	.11	.30	.43	.09	.05	.02	.00	.02	.09	.09	.52	.00	.00	.02	.02	.02	.00	1.80
(2)	.11	.30	.43	.09	.05	.02	.00	.02	.09	.09	.52	.00	.00	.02	.02	.02	.00	1.80
GT 24	0	10	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	12
(1)	.00	.23	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.27
(2)	.00	.23	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.27
ALL SPEEDS	335	374	256	222	204	132	187	324	323	419	579	388	200	140	152	157	0	4392
(1)	7.63	8.52	5.83	5.05	4.64	3.01	4.26	7.38	7.35	9.54	13.18	8.83	4.55	3.19	3.46	3.57	.00	100.00
(2)	7.63	8.52	5.83	5.05	4.64	3.01	4.26	7.38	7.35	9.54	13.18	8.83	4.55	3.19	3.46	3.57	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-63— CCNPP 197' August JFD
(Page 1 of 8)

CC AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA   STABILITY CLASS A   CLASS FREQUENCY (PERCENT) = 12.05

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	4
(1)	.19	.00	.19	.00	.00	.00	.00	.00	.00	.00	.00	.19	.00	.00	.00	.19	.00	.75
(2)	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.02	.00	.09
4-7	19	12	5	10	15	8	7	6	12	17	31	6	4	0	1	2	0	155
(1)	3.55	2.24	.93	1.87	2.80	1.50	1.31	1.12	2.24	3.18	5.79	1.12	.75	.00	.19	.37	.00	28.97
(2)	.43	.27	.11	.23	.34	.18	.16	.14	.27	.38	.70	.14	.09	.00	.02	.05	.00	3.49
8-12	38	36	7	1	2	5	18	29	13	43	73	9	7	5	3	6	0	295
(1)	7.10	6.73	1.31	.19	.37	.93	3.36	5.42	2.43	8.04	13.64	1.68	1.31	.93	.56	1.12	.00	55.14
(2)	.86	.81	.16	.02	.05	.11	.41	.65	.29	.97	1.64	.20	.16	.11	.07	.14	.00	6.64
13-18	15	11	0	0	0	3	6	9	2	10	12	2	0	0	0	3	0	73
(1)	2.80	2.06	.00	.00	.00	.56	1.12	1.68	.37	1.87	2.24	.37	.00	.00	.00	.56	.00	13.64
(2)	.34	.25	.00	.00	.00	.07	.14	.20	.05	.23	.27	.05	.00	.00	.00	.07	.00	1.64
19-24	3	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	8
(1)	.56	.56	.00	.00	.00	.00	.00	.37	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.50
(2)	.07	.07	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	76	62	13	11	17	16	31	46	27	70	116	18	11	5	4	12	0	535
(1)	14.21	11.59	2.43	2.06	3.18	2.99	5.79	8.60	5.05	13.08	21.68	3.36	2.06	.93	.75	2.24	.00	100.00
(2)	1.71	1.40	.29	.25	.38	.36	.70	1.04	.61	1.58	2.61	.41	.25	.11	.09	.27	.00	12.05

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-63— CCNPP 197' August JFD
(Page 2 of 8)

CC AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 5.81

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	5
(1)	.00	.39	.39	.39	.39	.00	.39	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.94
(2)	.00	.02	.02	.02	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
4-7	18	16	13	9	5	6	4	2	5	5	13	7	2	0	0	1	0	106
(1)	6.98	6.20	5.04	3.49	1.94	2.33	1.55	.78	1.94	1.94	5.04	2.71	.78	.00	.00	.39	.00	41.09
(2)	.41	.36	.29	.20	.11	.14	.09	.05	.11	.11	.29	.16	.05	.00	.00	.02	.00	2.39
8-12	17	15	1	1	1	2	10	20	7	7	14	5	4	3	2	3	0	112
(1)	6.59	5.81	.39	.39	.39	.78	3.88	7.75	2.71	2.71	5.43	1.94	1.55	1.16	.78	1.16	.00	43.41
(2)	.38	.34	.02	.02	.02	.05	.23	.45	.16	.16	.32	.11	.09	.07	.05	.07	.00	2.52
13-18	5	4	2	0	0	1	2	2	2	2	5	1	1	0	0	1	0	28
(1)	1.94	1.55	.78	.00	.00	.39	.78	.78	.78	.78	1.94	.39	.39	.00	.00	.39	.00	10.85
(2)	.11	.09	.05	.00	.00	.02	.05	.05	.05	.05	.11	.02	.02	.00	.00	.02	.00	.63
19-24	2	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	4
(1)	.78	.00	.00	.00	.00	.00	.00	.39	.00	.39	.00	.00	.00	.00	.00	.00	.00	1.55
(2)	.05	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.09
GT 24	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	3
(1)	.00	.00	.00	.39	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.39	.39	.00	1.16
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.07
ALL SPEEDS	42	36	17	12	7	9	17	25	14	15	32	13	7	3	3	6	0	258
(1)	16.28	13.95	6.59	4.65	2.71	3.49	6.59	9.69	5.43	5.81	12.40	5.04	2.71	1.16	1.16	2.33	.00	100.00
(2)	.95	.81	.38	.27	.16	.20	.38	.56	.32	.34	.72	.29	.16	.07	.07	.14	.00	5.81

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-63— CCNPP 197' August JFD
(Page 3 of 8)

CC AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 6.10
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	3	4	1	0	1	0	0	0	1	1	2	1	0	0	0	0	16
(1)	.74	1.11	1.48	.37	.00	.37	.00	.00	.00	.37	.37	.74	.37	.00	.00	.00	.00	5.90
(2)	.05	.07	.09	.02	.00	.02	.00	.00	.00	.02	.02	.05	.02	.00	.00	.00	.00	.36
4-7	13	19	8	11	12	6	4	4	5	3	18	6	4	2	0	0	0	115
(1)	4.80	7.01	2.95	4.06	4.43	2.21	1.48	1.48	1.85	1.11	6.64	2.21	1.48	.74	.00	.00	.00	42.44
(2)	.29	.43	.18	.25	.27	.14	.09	.09	.11	.07	.41	.14	.09	.05	.00	.00	.00	2.59
8-12	19	18	3	2	1	3	6	20	4	7	15	9	3	2	4	4	0	120
(1)	7.01	6.64	1.11	.74	.37	1.11	2.21	7.38	1.48	2.58	5.54	3.32	1.11	.74	1.48	1.48	.00	44.28
(2)	.43	.41	.07	.05	.02	.07	.14	.45	.09	.16	.34	.20	.07	.05	.09	.09	.00	2.70
13-18	1	3	1	1	0	0	0	3	1	2	3	1	0	1	0	1	0	18
(1)	.37	1.11	.37	.37	.00	.00	.00	1.11	.37	.74	1.11	.37	.00	.37	.00	.37	.00	6.64
(2)	.02	.07	.02	.02	.00	.00	.00	.07	.02	.05	.07	.02	.00	.02	.00	.02	.00	.41
19-24	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
(1)	.37	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37	.00	.00	.00	.00	.00	.00	.74
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.05
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	36	43	16	15	13	10	10	27	10	13	38	18	8	5	4	5	0	271
(1)	13.28	15.87	5.90	5.54	4.80	3.69	3.69	9.96	3.69	4.80	14.02	6.64	2.95	1.85	1.48	1.85	.00	100.00
(2)	.81	.97	.36	.34	.29	.23	.23	.61	.23	.29	.86	.41	.18	.11	.09	.11	.00	6.10

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-63— CCNPP 197' August JFD
(Page 4 of 8)

CC AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 28.72

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	10	7	6	8	11	7	3	2	7	8	5	5	2	7	3	6	0	97
(1)	.78	.55	.47	.63	.86	.55	.24	.16	.55	.63	.39	.39	.16	.55	.24	.47	.00	7.61
(2)	.23	.16	.14	.18	.25	.16	.07	.05	.16	.18	.11	.11	.05	.16	.07	.14	.00	2.18
4-7	50	41	19	35	51	22	21	29	12	16	28	18	9	6	7	14	0	378
(1)	3.92	3.22	1.49	2.75	4.00	1.73	1.65	2.27	.94	1.25	2.20	1.41	.71	.47	.55	1.10	.00	29.65
(2)	1.13	.92	.43	.79	1.15	.50	.47	.65	.27	.36	.63	.41	.20	.14	.16	.32	.00	8.51
8-12	29	41	31	39	21	28	20	65	32	43	47	21	8	12	17	28	0	482
(1)	2.27	3.22	2.43	3.06	1.65	2.20	1.57	5.10	2.51	3.37	3.69	1.65	.63	.94	1.33	2.20	.00	37.80
(2)	.65	.92	.70	.88	.47	.63	.45	1.46	.72	.97	1.06	.47	.18	.27	.38	.63	.00	10.86
13-18	28	28	36	21	5	9	5	26	4	13	40	2	2	3	4	21	0	247
(1)	2.20	2.20	2.82	1.65	.39	.71	.39	2.04	.31	1.02	3.14	.16	.16	.24	.31	1.65	.00	19.37
(2)	.63	.63	.81	.47	.11	.20	.11	.59	.09	.29	.90	.05	.05	.07	.09	.47	.00	5.56
19-24	7	24	20	3	0	0	0	1	0	3	3	1	0	1	0	2	0	65
(1)	.55	1.88	1.57	.24	.00	.00	.00	.08	.00	.24	.24	.08	.00	.08	.00	.16	.00	5.10
(2)	.16	.54	.45	.07	.00	.00	.00	.02	.00	.07	.07	.02	.00	.02	.00	.05	.00	1.46
GT 24	0	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6
(1)	.00	.24	.16	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.47
(2)	.00	.07	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
ALL SPEEDS	124	144	114	107	88	66	49	123	55	83	123	47	21	29	31	71	0	1275
(1)	9.73	11.29	8.94	8.39	6.90	5.18	3.84	9.65	4.31	6.51	9.65	3.69	1.65	2.27	2.43	5.57	.00	100.00
(2)	2.79	3.24	2.57	2.41	1.98	1.49	1.10	2.77	1.24	1.87	2.77	1.06	.47	.65	.70	1.60	.00	28.72

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-63— CCNPP 197' August JFD
(Page 5 of 8)

CC AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 27.48
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.08
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02
C-3	2	0	2	4	0	5	5	2	4	3	0	3	3	3	3	2	0	41
(1)	.16	.00	.16	.33	.00	.41	.41	.16	.33	.25	.00	.25	.25	.25	.25	.16	.00	3.36
(2)	.05	.00	.05	.09	.00	.11	.11	.05	.09	.07	.00	.07	.07	.07	.07	.05	.00	.92
4-7	11	6	4	9	12	12	12	8	25	15	22	8	9	6	9	9	0	177
(1)	.90	.49	.33	.74	.98	.98	.98	.66	2.05	1.23	1.80	.66	.74	.49	.74	.74	.00	14.51
(2)	.25	.14	.09	.20	.27	.27	.27	.18	.56	.34	.50	.18	.20	.14	.20	.20	.00	3.99
8-12	22	12	15	6	7	13	28	72	110	96	69	44	17	16	22	50	0	599
(1)	1.80	.98	1.23	.49	.57	1.07	2.30	5.90	9.02	7.87	5.66	3.61	1.39	1.31	1.80	4.10	.00	49.10
(2)	.50	.27	.34	.14	.16	.29	.63	1.62	2.48	2.16	1.55	.99	.38	.36	.50	1.13	.00	13.49
13-18	6	12	3	0	0	0	0	15	46	115	140	14	4	4	9	15	0	383
(1)	.49	.98	.25	.00	.00	.00	.00	1.23	3.77	9.43	11.48	1.15	.33	.33	.74	1.23	.00	31.39
(2)	.14	.27	.07	.00	.00	.00	.00	.34	1.04	2.59	3.15	.32	.09	.09	.20	.34	.00	8.63
19-24	0	7	3	0	1	0	0	0	1	3	3	0	1	0	0	0	0	19
(1)	.00	.57	.25	.00	.08	.00	.00	.00	.08	.25	.25	.00	.08	.00	.00	.00	.00	1.56
(2)	.00	.16	.07	.00	.02	.00	.00	.00	.02	.07	.07	.00	.02	.00	.00	.00	.00	.43
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	41	37	27	19	20	30	45	97	186	232	234	69	35	29	43	76	0	1220
(1)	3.36	3.03	2.21	1.56	1.64	2.46	3.69	7.95	15.25	19.02	19.18	5.66	2.87	2.38	3.52	6.23	.00	100.00
(2)	.92	.83	.61	.43	.45	.68	1.01	2.18	4.19	5.23	5.27	1.55	.79	.65	.97	1.71	.00	27.48

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-63— CCNPP 197' August JFD
(Page 6 of 8)

CC AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 11.91
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.00	.00	.00	.00	.00	.19
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
C-3	4	3	1	2	4	2	2	3	3	4	1	2	1	3	1	0	0	36
(1)	.76	.57	.19	.38	.76	.38	.38	.57	.57	.76	.19	.38	.19	.57	.19	.00	.00	6.81
(2)	.09	.07	.02	.05	.09	.05	.05	.07	.07	.09	.02	.05	.02	.07	.02	.00	.00	.81
4-7	5	4	0	3	3	6	4	12	13	22	9	7	8	0	4	4	0	104
(1)	.95	.76	.00	.57	.57	1.13	.76	2.27	2.46	4.16	1.70	1.32	1.51	.00	.76	.76	.00	19.66
(2)	.11	.09	.00	.07	.07	.14	.09	.27	.29	.50	.20	.16	.18	.00	.09	.09	.00	2.34
8-12	6	0	0	0	0	2	9	17	58	60	45	37	17	18	8	16	0	293
(1)	1.13	.00	.00	.00	.00	.38	1.70	3.21	10.96	11.34	8.51	6.99	3.21	3.40	1.51	3.02	.00	55.39
(2)	.14	.00	.00	.00	.00	.05	.20	.38	1.31	1.35	1.01	.83	.38	.41	.18	.36	.00	6.60
13-18	0	0	0	0	0	0	0	1	25	29	16	8	8	2	5	1	0	95
(1)	.00	.00	.00	.00	.00	.00	.00	.19	4.73	5.48	3.02	1.51	1.51	.38	.95	.19	.00	17.96
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.56	.65	.36	.18	.18	.05	.11	.02	.00	2.14
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	15	7	1	5	7	10	15	33	99	115	71	55	34	23	18	21	0	529
(1)	2.84	1.32	.19	.95	1.32	1.89	2.84	6.24	18.71	21.74	13.42	10.40	6.43	4.35	3.40	3.97	.00	100.00
(2)	.34	.16	.02	.11	.16	.23	.34	.74	2.23	2.59	1.60	1.24	.77	.52	.41	.47	.00	11.91

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-63— CCNPP 197' August JFD
(Page 7 of 8)

CC AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA   STABILITY CLASS G   CLASS FREQUENCY (PERCENT) = 7.93

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28	.00	.28	.00	.00	.57
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.05
C-3	4	2	2	5	6	2	7	3	1	2	1	6	2	1	1	1	0	46
(1)	1.14	.57	.57	1.42	1.70	.57	1.99	.85	.28	.57	.28	1.70	.57	.28	.28	.28	.00	13.07
(2)	.09	.05	.05	.11	.14	.05	.16	.07	.02	.05	.02	.14	.05	.02	.02	.02	.00	1.04
4-7	2	2	1	5	5	4	8	4	6	14	10	11	1	4	4	9	0	90
(1)	.57	.57	.28	1.42	1.42	1.14	2.27	1.14	1.70	3.98	2.84	3.13	.28	1.14	1.14	2.56	.00	25.57
(2)	.05	.05	.02	.11	.11	.09	.18	.09	.14	.32	.23	.25	.02	.09	.09	.20	.00	2.03
8-12	1	0	0	0	0	0	1	6	25	35	31	29	14	9	7	21	0	179
(1)	.28	.00	.00	.00	.00	.00	.28	1.70	7.10	9.94	8.81	8.24	3.98	2.56	1.99	5.97	.00	50.85
(2)	.02	.00	.00	.00	.00	.00	.02	.14	.56	.79	.70	.65	.32	.20	.16	.47	.00	4.03
13-18	0	0	0	0	0	0	0	0	7	12	9	1	1	2	2	1	0	35
(1)	.00	.00	.00	.00	.00	.00	.00	.00	1.99	3.41	2.56	.28	.28	.57	.57	.28	.00	9.94
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.16	.27	.20	.02	.02	.05	.05	.02	.00	.79
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	7	4	3	10	11	6	16	13	39	63	51	47	19	16	15	32	0	352
(1)	1.99	1.14	.85	2.84	3.13	1.70	4.55	3.69	11.08	17.90	14.49	13.35	5.40	4.55	4.26	9.09	.00	100.00
(2)	.16	.09	.07	.23	.25	.14	.36	.29	.88	1.42	1.15	1.06	.43	.36	.34	.72	.00	7.93

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-63— CCNPP 197' August JFD
(Page 8 of 8)

CC AUGUST MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA   STABILITY CLASS ALL   CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	1	2	0	1	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.00	.02	.00	.00	.09
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.00	.02	.00	.00	.09
C-3	23	16	17	21	22	17	18	10	15	18	8	19	9	14	8	10	0	245
(1)	.52	.36	.38	.47	.50	.38	.41	.23	.34	.41	.18	.43	.20	.32	.18	.23	.00	5.52
(2)	.52	.36	.38	.47	.50	.38	.41	.23	.34	.41	.18	.43	.20	.32	.18	.23	.00	5.52
4-7	118	100	50	82	103	64	60	65	78	92	131	63	37	18	25	39	0	1125
(1)	2.66	2.25	1.13	1.85	2.32	1.44	1.35	1.46	1.76	2.07	2.95	1.42	.83	.41	.56	.88	.00	25.34
(2)	2.66	2.25	1.13	1.85	2.32	1.44	1.35	1.46	1.76	2.07	2.95	1.42	.83	.41	.56	.88	.00	25.34
8-12	132	122	57	49	32	53	92	229	249	291	294	154	70	65	63	128	0	2080
(1)	2.97	2.75	1.28	1.10	.72	1.19	2.07	5.16	5.61	6.55	6.62	3.47	1.58	1.46	1.42	2.88	.00	46.85
(2)	2.97	2.75	1.28	1.10	.72	1.19	2.07	5.16	5.61	6.55	6.62	3.47	1.58	1.46	1.42	2.88	.00	46.85
13-18	55	58	42	22	5	13	13	56	87	183	225	29	16	12	20	43	0	879
(1)	1.24	1.31	.95	.50	.11	.29	.29	1.26	1.96	4.12	5.07	.65	.36	.27	.45	.97	.00	19.80
(2)	1.24	1.31	.95	.50	.11	.29	.29	1.26	1.96	4.12	5.07	.65	.36	.27	.45	.97	.00	19.80
19-24	13	34	23	3	1	0	0	4	1	7	7	1	1	1	0	2	0	98
(1)	.29	.77	.52	.07	.02	.00	.00	.09	.02	.16	.16	.02	.02	.02	.00	.05	.00	2.21
(2)	.29	.77	.52	.07	.02	.00	.00	.09	.02	.16	.16	.02	.02	.02	.00	.05	.00	2.21
GT 24	0	3	2	2	0	0	0	0	0	0	0	0	0	0	1	1	0	9
(1)	.00	.07	.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.20
(2)	.00	.07	.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.20
ALL SPEEDS	341	333	191	179	163	147	183	364	430	591	665	267	135	110	118	223	0	4440
(1)	7.68	7.50	4.30	4.03	3.67	3.31	4.12	8.20	9.68	13.31	14.98	6.01	3.04	2.48	2.66	5.02	.00	100.00
(2)	7.68	7.50	4.30	4.03	3.67	3.31	4.12	8.20	9.68	13.31	14.98	6.01	3.04	2.48	2.66	5.02	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-64— CCNPP 197' September JFD
(Page 1 of 8)

CC SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 11.81

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	2	1	1	2	0	1	0	0	1	0	1	0	0	0	1	0	11
(1)	.20	.40	.20	.20	.40	.00	.20	.00	.00	.20	.00	.20	.00	.00	.00	.20	.00	2.20
(2)	.02	.05	.02	.02	.05	.00	.02	.00	.00	.02	.00	.02	.00	.00	.00	.02	.00	.26
4-7	20	29	10	6	7	10	4	6	6	12	10	5	3	4	2	2	0	136
(1)	4.01	5.81	2.00	1.20	1.40	2.00	.80	1.20	1.20	2.40	2.00	1.00	.60	.80	.40	.40	.00	27.25
(2)	.47	.69	.24	.14	.17	.24	.09	.14	.14	.28	.24	.12	.07	.09	.05	.05	.00	3.22
8-12	71	44	3	1	0	8	27	20	5	29	31	12	2	4	0	8	0	265
(1)	14.23	8.82	.60	.20	.00	1.60	5.41	4.01	1.00	5.81	6.21	2.40	.40	.80	.00	1.60	.00	53.11
(2)	1.68	1.04	.07	.02	.00	.19	.64	.47	.12	.69	.73	.28	.05	.09	.00	.19	.00	6.27
13-18	16	13	9	0	0	0	3	7	2	4	4	1	0	1	0	1	0	61
(1)	3.21	2.61	1.80	.00	.00	.00	.60	1.40	.40	.80	.80	.20	.00	.20	.00	.20	.00	12.22
(2)	.38	.31	.21	.00	.00	.00	.07	.17	.05	.09	.09	.02	.00	.02	.00	.02	.00	1.44
19-24	4	7	4	0	0	0	0	1	0	7	0	0	0	0	3	0	0	26
(1)	.80	1.40	.80	.00	.00	.00	.00	.20	.00	1.40	.00	.00	.00	.00	.60	.00	.00	5.21
(2)	.09	.17	.09	.00	.00	.00	.00	.02	.00	.17	.00	.00	.00	.00	.07	.00	.00	.62
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	112	95	27	8	9	18	35	34	13	53	45	19	5	9	5	12	0	499
(1)	22.44	19.04	5.41	1.60	1.80	3.61	7.01	6.81	2.61	10.62	9.02	3.81	1.00	1.80	1.00	2.40	.00	100.00
(2)	2.65	2.25	.64	.19	.21	.43	.83	.80	.31	1.25	1.06	.45	.12	.21	.12	.28	.00	11.81

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-64— CCNPP 197' September JFD
(Page 2 of 8)

CC SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 5.51

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	2	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	4
(1)	.00	.86	.00	.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43	.00	.00	1.72
(2)	.00	.05	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.09
4-7	9	12	9	6	9	4	6	4	2	3	2	2	2	1	0	4	0	75
(1)	3.86	5.15	3.86	2.58	3.86	1.72	2.58	1.72	.86	1.29	.86	.86	.86	.43	.00	1.72	.00	32.19
(2)	.21	.28	.21	.14	.21	.09	.14	.09	.05	.07	.05	.05	.05	.02	.00	.09	.00	1.77
8-12	26	18	5	1	0	2	10	6	2	2	10	1	1	5	2	3	0	94
(1)	11.16	7.73	2.15	.43	.00	.86	4.29	2.58	.86	.86	4.29	.43	.43	2.15	.86	1.29	.00	40.34
(2)	.62	.43	.12	.02	.00	.05	.24	.14	.05	.05	.24	.02	.02	.12	.05	.07	.00	2.22
13-18	7	5	9	0	0	0	3	6	1	3	2	0	0	3	2	1	0	42
(1)	3.00	2.15	3.86	.00	.00	.00	1.29	2.58	.43	1.29	.86	.00	.00	1.29	.86	.43	.00	18.03
(2)	.17	.12	.21	.00	.00	.00	.07	.14	.02	.07	.05	.00	.00	.07	.05	.02	.00	.99
19-24	3	4	3	0	0	0	0	1	2	0	0	0	0	1	3	0	0	17
(1)	1.29	1.72	1.29	.00	.00	.00	.00	.43	.86	.00	.00	.00	.00	.43	1.29	.00	.00	7.30
(2)	.07	.09	.07	.00	.00	.00	.00	.02	.05	.00	.00	.00	.00	.02	.07	.00	.00	.40
GT 24	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
ALL SPEEDS	45	42	26	8	9	6	19	17	7	8	14	3	3	10	8	8	0	233
(1)	19.31	18.03	11.16	3.43	3.86	2.58	8.15	7.30	3.00	3.43	6.01	1.29	1.29	4.29	3.43	3.43	.00	100.00
(2)	1.06	.99	.62	.19	.21	.14	.45	.40	.17	.19	.33	.07	.07	.24	.19	.19	.00	5.51

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-64— CCNPP 197' September JFD
(Page 3 of 8)

CC SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 5.82

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	2	1	2	0	0	0	0	0	1	2	0	0	0	2	0	11
(1)	.00	.41	.81	.41	.81	.00	.00	.00	.00	.00	.41	.81	.00	.00	.00	.81	.00	4.47
(2)	.00	.02	.05	.02	.05	.00	.00	.00	.00	.00	.02	.05	.00	.00	.00	.05	.00	.26
4-7	9	24	10	9	11	9	10	10	7	1	1	2	6	3	2	0	0	114
(1)	3.66	9.76	4.07	3.66	4.47	3.66	4.07	4.07	2.85	.41	.41	.81	2.44	1.22	.81	.00	.00	46.34
(2)	.21	.57	.24	.21	.26	.21	.24	.24	.17	.02	.02	.05	.14	.07	.05	.00	.00	2.70
8-12	21	15	3	2	1	1	3	10	1	1	6	1	1	3	6	6	0	81
(1)	8.54	6.10	1.22	.81	.41	.41	1.22	4.07	.41	.41	2.44	.41	.41	1.22	2.44	2.44	.00	32.93
(2)	.50	.35	.07	.05	.02	.02	.07	.24	.02	.02	.14	.02	.02	.07	.14	.14	.00	1.92
13-18	3	4	4	0	0	0	2	4	1	3	0	0	0	1	2	3	0	27
(1)	1.22	1.63	1.63	.00	.00	.00	.81	1.63	.41	1.22	.00	.00	.00	.41	.81	1.22	.00	10.98
(2)	.07	.09	.09	.00	.00	.00	.05	.09	.02	.07	.00	.00	.00	.02	.05	.07	.00	.64
19-24	2	3	5	1	0	0	0	0	0	1	0	0	0	0	0	1	0	13
(1)	.81	1.22	2.03	.41	.00	.00	.00	.00	.00	.41	.00	.00	.00	.00	.00	.41	.00	5.28
(2)	.05	.07	.12	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02	.00	.31
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	35	47	24	13	14	10	15	24	9	6	8	5	7	7	10	12	0	246
(1)	14.23	19.11	9.76	5.28	5.69	4.07	6.10	9.76	3.66	2.44	3.25	2.03	2.85	2.85	4.07	4.88	.00	100.00
(2)	.83	1.11	.57	.31	.33	.24	.35	.57	.21	.14	.19	.12	.17	.17	.24	.28	.00	5.82

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-64— CCNPP 197' September JFD
(Page 4 of 8)

CC SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 34.29
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
C-3	6	10	13	8	4	4	6	1	2	2	1	2	5	1	3	3	0	71
(1)	.41	.69	.90	.55	.28	.28	.41	.07	.14	.14	.07	.14	.35	.07	.21	.21	.00	4.90
(2)	.14	.24	.31	.19	.09	.09	.14	.02	.05	.05	.02	.05	.12	.02	.07	.07	.00	1.68
4-7	41	58	20	35	51	13	9	11	10	10	12	6	12	10	10	15	0	323
(1)	2.83	4.00	1.38	2.42	3.52	.90	.62	.76	.69	.69	.83	.41	.83	.69	.69	1.04	.00	22.29
(2)	.97	1.37	.47	.83	1.21	.31	.21	.26	.24	.24	.28	.14	.28	.24	.24	.35	.00	7.64
8-12	41	33	40	67	60	44	31	42	21	13	17	11	6	13	22	27	0	488
(1)	2.83	2.28	2.76	4.62	4.14	3.04	2.14	2.90	1.45	.90	1.17	.76	.41	.90	1.52	1.86	.00	33.68
(2)	.97	.78	.95	1.59	1.42	1.04	.73	.99	.50	.31	.40	.26	.14	.31	.52	.64	.00	11.55
13-18	30	34	87	48	6	6	10	20	13	11	13	5	3	4	9	22	0	321
(1)	2.07	2.35	6.00	3.31	.41	.41	.69	1.38	.90	.76	.90	.35	.21	.28	.62	1.52	.00	22.15
(2)	.71	.80	2.06	1.14	.14	.14	.24	.47	.31	.26	.31	.12	.07	.09	.21	.52	.00	7.60
19-24	29	35	51	8	0	0	10	8	6	3	0	0	0	0	4	8	0	162
(1)	2.00	2.42	3.52	.55	.00	.00	.69	.55	.41	.21	.00	.00	.00	.00	.28	.55	.00	11.18
(2)	.69	.83	1.21	.19	.00	.00	.24	.19	.14	.07	.00	.00	.00	.00	.09	.19	.00	3.83
GT 24	7	43	23	0	2	0	1	2	1	0	0	0	0	0	0	4	0	83
(1)	.48	2.97	1.59	.00	.14	.00	.07	.14	.07	.00	.00	.00	.00	.00	.00	.28	.00	5.73
(2)	.17	1.02	.54	.00	.05	.00	.02	.05	.02	.00	.00	.00	.00	.00	.00	.09	.00	1.96
ALL SPEEDS	154	214	234	166	123	67	67	84	53	39	43	24	26	28	48	79	0	1449
(1)	10.63	14.77	16.15	11.46	8.49	4.62	4.62	5.80	3.66	2.69	2.97	1.66	1.79	1.93	3.31	5.45	.00	100.00
(2)	3.64	5.06	5.54	3.93	2.91	1.59	1.59	1.99	1.25	.92	1.02	.57	.62	.66	1.14	1.87	.00	34.29

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-64— CCNPP 197' September JFD
(Page 5 of 8)

CC SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 22.43
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	3	2	1	6	0	6	3	0	1	1	2	1	2	2	1	0	33
(1)	.21	.32	.21	.11	.63	.00	.63	.32	.00	.11	.11	.21	.11	.21	.21	.11	.00	3.48
(2)	.05	.07	.05	.02	.14	.00	.14	.07	.00	.02	.02	.05	.02	.05	.05	.02	.00	.78
4-7	12	15	7	12	24	15	8	5	13	5	5	8	7	9	3	9	0	157
(1)	1.27	1.58	.74	1.27	2.53	1.58	.84	.53	1.37	.53	.53	.84	.74	.95	.32	.95	.00	16.56
(2)	.28	.35	.17	.28	.57	.35	.19	.12	.31	.12	.12	.19	.17	.21	.07	.21	.00	3.72
8-12	23	29	28	10	17	30	24	63	50	28	23	13	17	27	25	45	0	452
(1)	2.43	3.06	2.95	1.05	1.79	3.16	2.53	6.65	5.27	2.95	2.43	1.37	1.79	2.85	2.64	4.75	.00	47.68
(2)	.54	.69	.66	.24	.40	.71	.57	1.49	1.18	.66	.54	.31	.40	.64	.59	1.06	.00	10.70
13-18	8	17	18	0	0	0	1	26	41	52	38	7	5	7	25	31	0	276
(1)	.84	1.79	1.90	.00	.00	.00	.11	2.74	4.32	5.49	4.01	.74	.53	.74	2.64	3.27	.00	29.11
(2)	.19	.40	.43	.00	.00	.00	.02	.62	.97	1.23	.90	.17	.12	.17	.59	.73	.00	6.53
19-24	1	3	0	0	0	0	0	0	1	4	6	1	1	1	0	0	0	18
(1)	.11	.32	.00	.00	.00	.00	.00	.00	.11	.42	.63	.11	.11	.11	.00	.00	.00	1.90
(2)	.02	.07	.00	.00	.00	.00	.00	.00	.02	.09	.14	.02	.02	.02	.00	.00	.00	.43
GT 24	1	1	1	2	1	3	1	2	0	0	0	0	0	0	0	0	0	12
(1)	.11	.11	.11	.21	.11	.32	.11	.21	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.27
(2)	.02	.02	.02	.05	.02	.07	.02	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28
ALL SPEEDS	47	68	56	25	48	48	40	99	105	90	73	31	31	46	55	86	0	948
(1)	4.96	7.17	5.91	2.64	5.06	5.06	4.22	10.44	11.08	9.49	7.70	3.27	3.27	4.85	5.80	9.07	.00	100.00
(2)	1.11	1.61	1.33	.59	1.14	1.14	.95	2.34	2.48	2.13	1.73	.73	.73	1.09	1.30	2.04	.00	22.43

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-64— CCNPP 197' September JFD
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CC SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 10.01
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	2	3	7	1	2	0	3	1	1	1	1	2	1	1	0	27
(1)	.24	.00	.47	.71	1.65	.24	.47	.00	.71	.24	.24	.24	.24	.47	.24	.24	.00	6.38
(2)	.02	.00	.05	.07	.17	.02	.05	.00	.07	.02	.02	.02	.02	.05	.02	.02	.00	.64
4-7	4	5	2	8	2	5	6	8	4	5	1	2	5	3	0	6	0	66
(1)	.95	1.18	.47	1.89	.47	1.18	1.42	1.89	.95	1.18	.24	.47	1.18	.71	.00	1.42	.00	15.60
(2)	.09	.12	.05	.19	.05	.12	.14	.19	.09	.12	.02	.05	.12	.07	.00	.14	.00	1.56
8-12	17	4	1	0	0	1	13	29	48	28	21	11	8	11	12	27	0	231
(1)	4.02	.95	.24	.00	.00	.24	3.07	6.86	11.35	6.62	4.96	2.60	1.89	2.60	2.84	6.38	.00	54.61
(2)	.40	.09	.02	.00	.00	.02	.31	.69	1.14	.66	.50	.26	.19	.26	.28	.64	.00	5.47
13-18	0	0	0	0	0	0	0	9	15	13	14	4	2	8	25	9	0	99
(1)	.00	.00	.00	.00	.00	.00	.00	2.13	3.55	3.07	3.31	.95	.47	1.89	5.91	2.13	.00	23.40
(2)	.00	.00	.00	.00	.00	.00	.00	.21	.35	.31	.33	.09	.05	.19	.59	.21	.00	2.34
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	22	9	5	11	9	7	21	46	70	47	37	18	16	24	38	43	0	423
(1)	5.20	2.13	1.18	2.60	2.13	1.65	4.96	10.87	16.55	11.11	8.75	4.26	3.78	5.67	8.98	10.17	.00	100.00
(2)	.52	.21	.12	.26	.21	.17	.50	1.09	1.66	1.11	.88	.43	.38	.57	.90	1.02	.00	10.01

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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-64— CCNPP 197' September JFD

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CC SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 10.13

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23	.00	.00	.00	.00	.00	.00	.23
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02
C-3	11	5	5	4	8	6	4	6	4	4	7	6	3	3	8	3	0	87
(1)	2.57	1.17	1.17	.93	1.87	1.40	.93	1.40	.93	.93	1.64	1.40	.70	.70	1.87	.70	.00	20.33
(2)	.26	.12	.12	.09	.19	.14	.09	.14	.09	.09	.17	.14	.07	.07	.19	.07	.00	2.06
4-7	13	16	3	7	5	3	12	12	9	8	6	4	8	8	5	6	0	125
(1)	3.04	3.74	.70	1.64	1.17	.70	2.80	2.80	2.10	1.87	1.40	.93	1.87	1.87	1.17	1.40	.00	29.21
(2)	.31	.38	.07	.17	.12	.07	.28	.28	.21	.19	.14	.09	.19	.19	.12	.14	.00	2.96
8-12	9	2	0	0	0	1	3	10	27	25	28	8	14	14	7	13	0	161
(1)	2.10	.47	.00	.00	.00	.23	.70	2.34	6.31	5.84	6.54	1.87	3.27	3.27	1.64	3.04	.00	37.62
(2)	.21	.05	.00	.00	.00	.02	.07	.24	.64	.59	.66	.19	.33	.33	.17	.31	.00	3.81
13-18	0	0	0	0	0	0	0	1	14	10	11	3	3	7	4	1	0	54
(1)	.00	.00	.00	.00	.00	.00	.00	.23	3.27	2.34	2.57	.70	.70	1.64	.93	.23	.00	12.62
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.33	.24	.26	.07	.07	.17	.09	.02	.00	1.28
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	33	23	8	11	13	10	19	29	54	47	53	21	28	32	24	23	0	428
(1)	7.71	5.37	1.87	2.57	3.04	2.34	4.44	6.78	12.62	10.98	12.38	4.91	6.54	7.48	5.61	5.37	.00	100.00
(2)	.78	.54	.19	.26	.31	.24	.45	.69	1.28	1.11	1.25	.50	.66	.76	.57	.54	.00	10.13

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-64— CCNPP 197' September JFD

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CC SEPTEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
(1)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.05
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.05
C-3	21	23	25	19	29	11	19	10	9	9	11	14	10	8	15	11	0	244
(1)	.50	.54	.59	.45	.69	.26	.45	.24	.21	.21	.26	.33	.24	.19	.35	.26	.00	5.77
(2)	.50	.54	.59	.45	.69	.26	.45	.24	.21	.21	.26	.33	.24	.19	.35	.26	.00	5.77
4-7	108	159	61	83	109	59	55	56	51	44	37	29	43	38	22	42	0	996
(1)	2.56	3.76	1.44	1.96	2.58	1.40	1.30	1.33	1.21	1.04	.88	.69	1.02	.90	.52	.99	.00	23.57
(2)	2.56	3.76	1.44	1.96	2.58	1.40	1.30	1.33	1.21	1.04	.88	.69	1.02	.90	.52	.99	.00	23.57
8-12	208	145	80	81	78	87	111	180	154	126	136	57	49	77	74	129	0	1772
(1)	4.92	3.43	1.89	1.92	1.85	2.06	2.63	4.26	3.64	2.98	3.22	1.35	1.16	1.82	1.75	3.05	.00	41.93
(2)	4.92	3.43	1.89	1.92	1.85	2.06	2.63	4.26	3.64	2.98	3.22	1.35	1.16	1.82	1.75	3.05	.00	41.93
13-18	64	73	127	48	6	6	19	73	87	96	82	20	13	31	67	68	0	880
(1)	1.51	1.73	3.01	1.14	.14	.14	.45	1.73	2.06	2.27	1.94	.47	.31	.73	1.59	1.61	.00	20.82
(2)	1.51	1.73	3.01	1.14	.14	.14	.45	1.73	2.06	2.27	1.94	.47	.31	.73	1.59	1.61	.00	20.82
19-24	39	52	63	9	0	0	10	10	9	15	6	1	1	2	10	9	0	236
(1)	.92	1.23	1.49	.21	.00	.00	.24	.24	.21	.35	.14	.02	.02	.05	.24	.21	.00	5.58
(2)	.92	1.23	1.49	.21	.00	.00	.24	.24	.21	.35	.14	.02	.02	.05	.24	.21	.00	5.58
GT 24	8	45	24	2	3	3	2	4	1	0	0	0	0	0	0	4	0	96
(1)	.19	1.06	.57	.05	.07	.07	.05	.09	.02	.00	.00	.00	.00	.00	.00	.09	.00	2.27
(2)	.19	1.06	.57	.05	.07	.07	.05	.09	.02	.00	.00	.00	.00	.00	.00	.09	.00	2.27
ALL SPEEDS	448	498	380	242	225	166	216	333	311	290	273	121	116	156	188	263	0	4226
(1)	10.60	11.78	8.99	5.73	5.32	3.93	5.11	7.88	7.36	6.86	6.46	2.86	2.74	3.69	4.45	6.22	.00	100.00
(2)	10.60	11.78	8.99	5.73	5.32	3.93	5.11	7.88	7.36	6.86	6.46	2.86	2.74	3.69	4.45	6.22	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-65— CCNPP 197' October JFD

(Page 1 of 8)

CC OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 12.84

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	2	1	4	2	0	0	0	0	0	0	0	0	0	0	0	10
(1)	.00	.18	.35	.18	.70	.35	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.76
(2)	.00	.02	.05	.02	.09	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23
4-7	27	9	4	3	11	7	5	8	3	5	7	9	5	2	2	5	0	112
(1)	4.75	1.58	.70	.53	1.94	1.23	.88	1.41	.53	.88	1.23	1.58	.88	.35	.35	.88	.00	19.72
(2)	.61	.20	.09	.07	.25	.16	.11	.18	.07	.11	.16	.20	.11	.05	.05	.11	.00	2.53
8-12	58	18	3	0	1	2	5	21	11	19	29	16	11	18	20	15	0	247
(1)	10.21	3.17	.53	.00	.18	.35	.88	3.70	1.94	3.35	5.11	2.82	1.94	3.17	3.52	2.64	.00	43.49
(2)	1.31	.41	.07	.00	.02	.05	.11	.47	.25	.43	.66	.36	.25	.41	.45	.34	.00	5.58
13-18	25	11	1	1	3	0	1	8	0	7	13	13	11	27	24	9	0	154
(1)	4.40	1.94	.18	.18	.53	.00	.18	1.41	.00	1.23	2.29	2.29	1.94	4.75	4.23	1.58	.00	27.11
(2)	.56	.25	.02	.02	.07	.00	.02	.18	.00	.16	.29	.29	.25	.61	.54	.20	.00	3.48
19-24	2	5	1	2	0	0	0	4	0	0	6	3	0	9	7	1	0	40
(1)	.35	.88	.18	.35	.00	.00	.00	.70	.00	.00	1.06	.53	.00	1.58	1.23	.18	.00	7.04
(2)	.05	.11	.02	.05	.00	.00	.00	.09	.00	.00	.14	.07	.00	.20	.16	.02	.00	.90
GT 24	0	1	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	5
(1)	.00	.18	.35	.00	.00	.00	.00	.00	.00	.00	.00	.35	.00	.00	.00	.00	.00	.88
(2)	.00	.02	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.11
ALL SPEEDS	112	45	13	7	19	11	11	41	14	31	55	43	27	56	53	30	0	568
(1)	19.72	7.92	2.29	1.23	3.35	1.94	1.94	7.22	2.46	5.46	9.68	7.57	4.75	9.86	9.33	5.28	.00	100.00
(2)	2.53	1.02	.29	.16	.43	.25	.25	.93	.32	.70	1.24	.97	.61	1.27	1.20	.68	.00	12.84

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-65— CCNPP 197' October JFD
(Page 2 of 8)

CC OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 3.98
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.57	.00	.00	.00	.57	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.14
(2)	.02	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
4-7	4	4	2	2	3	5	4	1	0	5	3	3	1	3	5	6	0	51
(1)	2.27	2.27	1.14	1.14	1.70	2.84	2.27	.57	.00	2.84	1.70	1.70	.57	1.70	2.84	3.41	.00	28.98
(2)	.09	.09	.05	.05	.07	.11	.09	.02	.00	.11	.07	.07	.02	.07	.11	.14	.00	1.15
8-12	19	9	1	1	2	1	3	9	0	3	6	2	1	5	11	2	0	75
(1)	10.80	5.11	.57	.57	1.14	.57	1.70	5.11	.00	1.70	3.41	1.14	.57	2.84	6.25	1.14	.00	42.61
(2)	.43	.20	.02	.02	.05	.02	.07	.20	.00	.07	.14	.05	.02	.11	.25	.05	.00	1.69
13-18	3	1	0	0	0	0	1	7	0	1	4	1	1	5	6	5	0	35
(1)	1.70	.57	.00	.00	.00	.00	.57	3.98	.00	.57	2.27	.57	.57	2.84	3.41	2.84	.00	19.89
(2)	.07	.02	.00	.00	.00	.00	.02	.16	.00	.02	.09	.02	.02	.11	.14	.11	.00	.79
19-24	1	3	0	0	0	0	0	2	0	0	1	0	2	1	3	0	0	13
(1)	.57	1.70	.00	.00	.00	.00	.00	1.14	.00	.00	.57	.00	1.14	.57	1.70	.00	.00	7.39
(2)	.02	.07	.00	.00	.00	.00	.00	.05	.00	.00	.02	.00	.05	.02	.07	.00	.00	.29
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	28	17	3	3	6	6	8	19	0	9	14	6	5	14	25	13	0	176
(1)	15.91	9.66	1.70	1.70	3.41	3.41	4.55	10.80	.00	5.11	7.95	3.41	2.84	7.95	14.20	7.39	.00	100.00
(2)	.63	.38	.07	.07	.14	.14	.18	.43	.00	.20	.32	.14	.11	.32	.56	.29	.00	3.98

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-65— CCNPP 197' October JFD

(Page 3 of 8)

CC OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA   STABILITY CLASS C   CLASS FREQUENCY (PERCENT) = 4.36

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	1	3	2	1	1	1	1	0	0	2	0	1	0	1	0	0	15
(1)	.52	.52	1.55	1.04	.52	.52	.52	.52	.00	.00	1.04	.00	.52	.00	.52	.00	.00	7.77
(2)	.02	.02	.07	.05	.02	.02	.02	.02	.00	.00	.05	.00	.02	.00	.02	.00	.00	.34
4-7	10	9	4	4	4	5	1	1	2	0	5	4	1	4	2	4	0	60
(1)	5.18	4.66	2.07	2.07	2.07	2.59	.52	.52	1.04	.00	2.59	2.07	.52	2.07	1.04	2.07	.00	31.09
(2)	.23	.20	.09	.09	.09	.11	.02	.02	.05	.00	.11	.09	.02	.09	.05	.09	.00	1.36
8-12	7	13	1	0	0	1	2	8	0	4	2	5	4	1	5	10	0	63
(1)	3.63	6.74	.52	.00	.00	.52	1.04	4.15	.00	2.07	1.04	2.59	2.07	.52	2.59	5.18	.00	32.64
(2)	.16	.29	.02	.00	.00	.02	.05	.18	.00	.09	.05	.11	.09	.02	.11	.23	.00	1.42
13-18	6	9	2	0	0	0	0	4	0	2	2	3	2	4	9	2	0	45
(1)	3.11	4.66	1.04	.00	.00	.00	.00	2.07	.00	1.04	1.04	1.55	1.04	2.07	4.66	1.04	.00	23.32
(2)	.14	.20	.05	.00	.00	.00	.00	.09	.00	.05	.05	.07	.05	.09	.20	.05	.00	1.02
19-24	1	2	0	0	0	0	0	3	0	1	1	0	0	2	0	0	0	10
(1)	.52	1.04	.00	.00	.00	.00	.00	1.55	.00	.52	.52	.00	.00	1.04	.00	.00	.00	5.18
(2)	.02	.05	.00	.00	.00	.00	.00	.07	.00	.02	.02	.00	.00	.05	.00	.00	.00	.23
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	25	34	10	6	5	7	4	17	2	7	12	12	8	11	17	16	0	193
(1)	12.95	17.62	5.18	3.11	2.59	3.63	2.07	8.81	1.04	3.63	6.22	6.22	4.15	5.70	8.81	8.29	.00	100.00
(2)	.56	.77	.23	.14	.11	.16	.09	.38	.05	.16	.27	.27	.18	.25	.38	.36	.00	4.36

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-65— CCNPP 197' October JFD
(Page 4 of 8)

CC OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA   STABILITY CLASS D   CLASS FREQUENCY (PERCENT) = 33.92
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	6	9	4	7	5	8	2	3	1	0	3	6	4	3	2	4	0	67
(1)	.40	.60	.27	.47	.33	.53	.13	.20	.07	.00	.20	.40	.27	.20	.13	.27	.00	4.46
(2)	.14	.20	.09	.16	.11	.18	.05	.07	.02	.00	.07	.14	.09	.07	.05	.09	.00	1.51
4-7	33	38	26	36	29	17	11	12	8	8	5	5	5	4	8	11	0	256
(1)	2.20	2.53	1.73	2.40	1.93	1.13	.73	.80	.53	.53	.33	.33	.33	.27	.53	.73	.00	17.06
(2)	.75	.86	.59	.81	.66	.38	.25	.27	.18	.18	.11	.11	.11	.09	.18	.25	.00	5.79
8-12	48	63	82	61	35	15	23	22	28	17	19	12	9	10	35	56	0	535
(1)	3.20	4.20	5.46	4.06	2.33	1.00	1.53	1.47	1.87	1.13	1.27	.80	.60	.67	2.33	3.73	.00	35.64
(2)	1.08	1.42	1.85	1.38	.79	.34	.52	.50	.63	.38	.43	.27	.20	.23	.79	1.27	.00	12.09
13-18	50	117	80	19	1	4	8	23	24	6	15	12	10	14	35	57	0	475
(1)	3.33	7.79	5.33	1.27	.07	.27	.53	1.53	1.60	.40	1.00	.80	.67	.93	2.33	3.80	.00	31.65
(2)	1.13	2.64	1.81	.43	.02	.09	.18	.52	.54	.14	.34	.27	.23	.32	.79	1.29	.00	10.73
19-24	36	37	25	2	0	0	0	8	4	9	5	0	1	0	1	14	0	142
(1)	2.40	2.47	1.67	.13	.00	.00	.00	.53	.27	.60	.33	.00	.07	.00	.07	.93	.00	9.46
(2)	.81	.84	.56	.05	.00	.00	.00	.18	.09	.20	.11	.00	.02	.00	.02	.32	.00	3.21
GT 24	16	6	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	26
(1)	1.07	.40	.20	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00	1.73
(2)	.36	.14	.07	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.59
ALL SPEEDS	189	270	220	125	70	44	44	68	66	40	47	35	29	31	81	142	0	1501
(1)	12.59	17.99	14.66	8.33	4.66	2.93	2.93	4.53	4.40	2.66	3.13	2.33	1.93	2.07	5.40	9.46	.00	100.00
(2)	4.27	6.10	4.97	2.82	1.58	.99	.99	1.54	1.49	.90	1.06	.79	.66	.70	1.83	3.21	.00	33.92

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-65— CCNPP 197' October JFD
(Page 5 of 8)

CC OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA   STABILITY CLASS E   CLASS FREQUENCY (PERCENT) = 20.23

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
C-3	4	2	6	1	2	3	3	7	0	2	1	0	1	2	1	2	0	37
(1)	.45	.22	.67	.11	.22	.34	.34	.78	.00	.22	.11	.00	.11	.22	.11	.22	.00	4.13
(2)	.09	.05	.14	.02	.05	.07	.07	.16	.00	.05	.02	.00	.02	.05	.02	.05	.00	.84
4-7	9	6	8	12	26	9	1	4	5	2	3	4	1	4	8	11	0	113
(1)	1.01	.67	.89	1.34	2.91	1.01	.11	.45	.56	.22	.34	.45	.11	.45	.89	1.23	.00	12.63
(2)	.20	.14	.18	.27	.59	.20	.02	.09	.11	.05	.07	.09	.02	.09	.18	.25	.00	2.55
8-12	22	23	17	24	16	12	9	47	28	12	20	16	17	33	36	36	0	368
(1)	2.46	2.57	1.90	2.68	1.79	1.34	1.01	5.25	3.13	1.34	2.23	1.79	1.90	3.69	4.02	4.02	.00	41.12
(2)	.50	.52	.38	.54	.36	.27	.20	1.06	.63	.27	.45	.36	.38	.75	.81	.81	.00	8.32
13-18	10	13	1	0	0	0	0	17	39	61	49	23	15	32	49	45	0	354
(1)	1.12	1.45	.11	.00	.00	.00	.00	1.90	4.36	6.82	5.47	2.57	1.68	3.58	5.47	5.03	.00	39.55
(2)	.23	.29	.02	.00	.00	.00	.00	.38	.88	1.38	1.11	.52	.34	.72	1.11	1.02	.00	8.00
19-24	1	0	1	0	0	0	0	0	3	12	2	0	0	0	0	2	0	21
(1)	.11	.00	.11	.00	.00	.00	.00	.00	.34	1.34	.22	.00	.00	.00	.00	.22	.00	2.35
(2)	.02	.00	.02	.00	.00	.00	.00	.00	.07	.27	.05	.00	.00	.00	.00	.05	.00	.47
GT 24	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
ALL SPEEDS	46	44	33	37	45	24	13	76	75	89	75	43	34	71	94	96	0	895
(1)	5.14	4.92	3.69	4.13	5.03	2.68	1.45	8.49	8.38	9.94	8.38	4.80	3.80	7.93	10.50	10.73	.00	100.00
(2)	1.04	.99	.75	.84	1.02	.54	.29	1.72	1.69	2.01	1.69	.97	.77	1.60	2.12	2.17	.00	20.23

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-65— CCNPP 197' October JFD
(Page 6 of 8)

CC OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 10.40

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	2	0	0	1	2	2	1	0	0	0	0	3	1	1	0	0	14
(1)	.22	.43	.00	.00	.22	.43	.43	.22	.00	.00	.00	.00	.65	.22	.22	.00	.00	3.04
(2)	.02	.05	.00	.00	.02	.05	.05	.02	.00	.00	.00	.00	.07	.02	.02	.00	.00	.32
4-7	7	7	2	3	5	3	2	3	5	5	3	2	0	3	4	5	0	59
(1)	1.52	1.52	.43	.65	1.09	.65	.43	.65	1.09	1.09	.65	.43	.00	.65	.87	1.09	.00	12.83
(2)	.16	.16	.05	.07	.11	.07	.05	.07	.11	.11	.07	.05	.00	.07	.09	.11	.00	1.33
8-12	4	0	1	3	0	2	4	13	13	18	16	13	16	25	27	18	0	173
(1)	.87	.00	.22	.65	.00	.43	.87	2.83	2.83	3.91	3.48	2.83	3.48	5.43	5.87	3.91	.00	37.61
(2)	.09	.00	.02	.07	.00	.05	.09	.29	.29	.41	.36	.29	.36	.56	.61	.41	.00	3.91
13-18	0	0	0	0	0	0	1	16	39	32	32	18	15	24	25	10	0	212
(1)	.00	.00	.00	.00	.00	.00	.22	3.48	8.48	6.96	6.96	3.91	3.26	5.22	5.43	2.17	.00	46.09
(2)	.00	.00	.00	.00	.00	.00	.02	.36	.88	.72	.72	.41	.34	.54	.56	.23	.00	4.79
19-24	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22	.00	.00	.00	.22	.00	.00	.43
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.02	.00	.00	.05
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	12	9	3	6	6	7	9	33	57	55	52	33	34	53	58	33	0	460
(1)	2.61	1.96	.65	1.30	1.30	1.52	1.96	7.17	12.39	11.96	11.30	7.17	7.39	11.52	12.61	7.17	.00	100.00
(2)	.27	.20	.07	.14	.14	.16	.20	.75	1.29	1.24	1.18	.75	.77	1.20	1.31	.75	.00	10.40

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-65— CCNPP 197' October JFD
(Page 7 of 8)

CC OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 14.28
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.16	.00	.00	.00	.00	.00	.00	.16	.00	.00	.00	.00	.00	.32
(2)	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.05
C-3	2	1	6	1	2	2	2	4	4	3	3	6	3	6	3	9	0	57
(1)	.32	.16	.95	.16	.32	.32	.32	.63	.63	.47	.47	.95	.47	.95	.47	1.42	.00	9.02
(2)	.05	.02	.14	.02	.05	.05	.05	.09	.09	.07	.07	.14	.07	.14	.07	.20	.00	1.29
4-7	12	10	2	3	4	7	9	11	13	19	13	9	4	6	2	9	0	133
(1)	1.90	1.58	.32	.47	.63	1.11	1.42	1.74	2.06	3.01	2.06	1.42	.63	.95	.32	1.42	.00	21.04
(2)	.27	.23	.05	.07	.09	.16	.20	.25	.29	.43	.29	.20	.09	.14	.05	.20	.00	3.01
8-12	5	0	0	0	0	3	6	13	27	38	36	39	9	17	25	37	0	255
(1)	.79	.00	.00	.00	.00	.47	.95	2.06	4.27	6.01	5.70	6.17	1.42	2.69	3.96	5.85	.00	40.35
(2)	.11	.00	.00	.00	.00	.07	.14	.29	.61	.86	.81	.88	.20	.38	.56	.84	.00	5.76
13-18	0	0	0	0	0	0	0	17	32	28	25	17	18	12	24	4	0	177
(1)	.00	.00	.00	.00	.00	.00	.00	2.69	5.06	4.43	3.96	2.69	2.85	1.90	3.80	.63	.00	28.01
(2)	.00	.00	.00	.00	.00	.00	.00	.38	.72	.63	.56	.38	.41	.27	.54	.09	.00	4.00
19-24	0	0	0	0	0	0	0	0	1	0	1	3	0	2	1	0	0	8
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.16	.00	.16	.47	.00	.32	.16	.00	.00	1.27
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.07	.00	.05	.02	.00	.00	.18
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	19	11	8	4	7	12	17	45	77	88	78	75	34	43	55	59	0	632
(1)	3.01	1.74	1.27	.63	1.11	1.90	2.69	7.12	12.18	13.92	12.34	11.87	5.38	6.80	8.70	9.34	.00	100.00
(2)	.43	.25	.18	.09	.16	.27	.38	1.02	1.74	1.99	1.76	1.69	.77	.97	1.24	1.33	.00	14.28

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-65— CCNPP 197' October JFD
(Page 8 of 8)

CC OCTOBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.07
(2)	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.07
C-3	15	16	21	12	16	18	10	16	5	5	9	12	12	12	8	15	0	202
(1)	.34	.36	.47	.27	.36	.41	.23	.36	.11	.11	.20	.27	.27	.27	.18	.34	.00	4.56
(2)	.34	.36	.47	.27	.36	.41	.23	.36	.11	.11	.20	.27	.27	.27	.18	.34	.00	4.56
4-7	102	83	48	63	82	53	33	40	36	44	39	36	17	26	31	51	0	784
(1)	2.31	1.88	1.08	1.42	1.85	1.20	.75	.90	.81	.99	.88	.81	.38	.59	.70	1.15	.00	17.72
(2)	2.31	1.88	1.08	1.42	1.85	1.20	.75	.90	.81	.99	.88	.81	.38	.59	.70	1.15	.00	17.72
8-12	163	126	105	89	54	36	52	133	107	111	128	103	67	109	159	174	0	1716
(1)	3.68	2.85	2.37	2.01	1.22	.81	1.18	3.01	2.42	2.51	2.89	2.33	1.51	2.46	3.59	3.93	.00	38.78
(2)	3.68	2.85	2.37	2.01	1.22	.81	1.18	3.01	2.42	2.51	2.89	2.33	1.51	2.46	3.59	3.93	.00	38.78
13-18	94	151	84	20	4	4	11	92	134	137	140	87	72	118	172	132	0	1452
(1)	2.12	3.41	1.90	.45	.09	.09	.25	2.08	3.03	3.10	3.16	1.97	1.63	2.67	3.89	2.98	.00	32.81
(2)	2.12	3.41	1.90	.45	.09	.09	.25	2.08	3.03	3.10	3.16	1.97	1.63	2.67	3.89	2.98	.00	32.81
19-24	41	47	27	4	0	0	0	17	8	22	17	6	3	14	13	17	0	236
(1)	.93	1.06	.61	.09	.00	.00	.00	.38	.18	.50	.38	.14	.07	.32	.29	.38	.00	5.33
(2)	.93	1.06	.61	.09	.00	.00	.00	.38	.18	.50	.38	.14	.07	.32	.29	.38	.00	5.33
GT 24	16	7	5	0	0	0	0	1	1	0	0	2	0	0	0	0	0	32
(1)	.36	.16	.11	.00	.00	.00	.00	.02	.02	.00	.00	.05	.00	.00	.00	.00	.00	.72
(2)	.36	.16	.11	.00	.00	.00	.00	.02	.02	.00	.00	.05	.00	.00	.00	.00	.00	.72
ALL SPEEDS	431	430	290	188	158	111	106	299	291	319	333	247	171	279	383	389	0	4425
(1)	9.74	9.72	6.55	4.25	3.57	2.51	2.40	6.76	6.58	7.21	7.53	5.58	3.86	6.31	8.66	8.79	.00	100.00
(2)	9.74	9.72	6.55	4.25	3.57	2.51	2.40	6.76	6.58	7.21	7.53	5.58	3.86	6.31	8.66	8.79	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-66— CCNPP 197' November JFD
(Page 1 of 8)

CC NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 13.19
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18
(2)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
4-7	3	9	8	4	12	6	3	2	2	7	7	3	4	1	0	3	0	74
(1)	.53	1.58	1.41	.70	2.11	1.05	.53	.35	.35	1.23	1.23	.53	.70	.18	.00	.53	.00	13.01
(2)	.07	.21	.19	.09	.28	.14	.07	.05	.05	.16	.16	.07	.09	.02	.00	.07	.00	1.72
8-12	38	14	0	0	0	2	7	20	18	29	33	11	6	7	8	15	0	208
(1)	6.68	2.46	.00	.00	.00	.35	1.23	3.51	3.16	5.10	5.80	1.93	1.05	1.23	1.41	2.64	.00	36.56
(2)	.88	.32	.00	.00	.00	.05	.16	.46	.42	.67	.77	.26	.14	.16	.19	.35	.00	4.82
13-18	22	8	2	0	0	0	0	6	3	38	44	11	8	28	21	29	0	220
(1)	3.87	1.41	.35	.00	.00	.00	.00	1.05	.53	6.68	7.73	1.93	1.41	4.92	3.69	5.10	.00	38.66
(2)	.51	.19	.05	.00	.00	.00	.00	.14	.07	.88	1.02	.26	.19	.65	.49	.67	.00	5.10
19-24	3	4	0	0	0	0	0	3	3	9	6	2	1	8	13	3	0	55
(1)	.53	.70	.00	.00	.00	.00	.00	.53	.53	1.58	1.05	.35	.18	1.41	2.28	.53	.00	9.67
(2)	.07	.09	.00	.00	.00	.00	.00	.07	.07	.21	.14	.05	.02	.19	.30	.07	.00	1.28
GT 24	0	0	0	0	0	0	0	1	0	1	0	0	2	4	3	0	0	11
(1)	.00	.00	.00	.00	.00	.00	.00	.18	.00	.18	.00	.00	.35	.70	.53	.00	.00	1.93
(2)	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.05	.09	.07	.00	.00	.26
ALL SPEEDS	66	36	10	4	12	8	10	32	26	84	90	27	21	48	45	50	0	569
(1)	11.60	6.33	1.76	.70	2.11	1.41	1.76	5.62	4.57	14.76	15.82	4.75	3.69	8.44	7.91	8.79	.00	100.00
(2)	1.53	.83	.23	.09	.28	.19	.23	.74	.60	1.95	2.09	.63	.49	1.11	1.04	1.16	.00	13.19

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-66— CCNPP 197' November JFD

(Page 2 of 8)

CC NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA   STABILITY CLASS B   CLASS FREQUENCY (PERCENT) = 3.59

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.65	.00	.65	.00	.00	.00	.65	.00	.00	.00	.00	.00	1.94
(2)	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.00	.02	.00	.00	.00	.00	.00	.07
4-7	1	5	2	0	3	4	0	0	1	1	4	3	3	1	1	1	0	30
(1)	.65	3.23	1.29	.00	1.94	2.58	.00	.00	.65	.65	2.58	1.94	1.94	.65	.65	.65	.00	19.35
(2)	.02	.12	.05	.00	.07	.09	.00	.00	.02	.02	.09	.07	.07	.02	.02	.02	.00	.70
8-12	6	7	1	0	1	1	3	6	2	3	9	7	1	2	3	1	0	53
(1)	3.87	4.52	.65	.00	.65	.65	1.94	3.87	1.29	1.94	5.81	4.52	.65	1.29	1.94	.65	.00	34.19
(2)	.14	.16	.02	.00	.02	.02	.07	.14	.05	.07	.21	.16	.02	.05	.07	.02	.00	1.23
13-18	4	3	0	0	0	0	0	0	0	7	2	4	4	10	6	6	0	46
(1)	2.58	1.94	.00	.00	.00	.00	.00	.00	.00	4.52	1.29	2.58	2.58	6.45	3.87	3.87	.00	29.68
(2)	.09	.07	.00	.00	.00	.00	.00	.00	.00	.16	.05	.09	.09	.23	.14	.14	.00	1.07
19-24	4	0	0	0	0	0	0	1	0	4	0	0	0	4	4	3	0	20
(1)	2.58	.00	.00	.00	.00	.00	.00	.65	.00	2.58	.00	.00	.00	2.58	2.58	1.94	.00	12.90
(2)	.09	.00	.00	.00	.00	.00	.00	.02	.00	.09	.00	.00	.00	.09	.09	.07	.00	.46
GT 24	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	3
(1)	.65	.00	.00	.00	.00	.00	.00	.65	.00	.00	.00	.00	.00	.65	.00	.00	.00	1.94
(2)	.02	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.07
ALL SPEEDS	16	15	3	0	4	6	3	9	3	15	15	15	8	18	14	11	0	155
(1)	10.32	9.68	1.94	.00	2.58	3.87	1.94	5.81	1.94	9.68	9.68	9.68	5.16	11.61	9.03	7.10	.00	100.00
(2)	.37	.35	.07	.00	.09	.14	.07	.21	.07	.35	.35	.35	.19	.42	.32	.26	.00	3.59

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-66— CCNPP 197' November JFD
(Page 3 of 8)

CC NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 3.69

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	1	2	0	1	1	0	0	0	2	0	0	0	7
(1)	.00	.00	.00	.00	.00	.63	1.26	.00	.63	.63	.00	.00	.00	1.26	.00	.00	.00	4.40
(2)	.00	.00	.00	.00	.00	.02	.05	.00	.02	.02	.00	.00	.00	.05	.00	.00	.00	.16
4-7	3	8	3	4	3	7	2	4	3	3	3	1	2	0	3	0	0	49
(1)	1.89	5.03	1.89	2.52	1.89	4.40	1.26	2.52	1.89	1.89	1.89	.63	1.26	.00	1.89	.00	.00	30.82
(2)	.07	.19	.07	.09	.07	.16	.05	.09	.07	.07	.07	.02	.05	.00	.07	.00	.00	1.14
8-12	2	1	0	0	0	1	4	7	0	3	8	4	4	3	2	3	0	42
(1)	1.26	.63	.00	.00	.00	.63	2.52	4.40	.00	1.89	5.03	2.52	2.52	1.89	1.26	1.89	.00	26.42
(2)	.05	.02	.00	.00	.00	.02	.09	.16	.00	.07	.19	.09	.09	.07	.05	.07	.00	.97
13-18	6	4	0	0	0	0	1	2	4	3	3	1	3	2	3	2	0	34
(1)	3.77	2.52	.00	.00	.00	.00	.63	1.26	2.52	1.89	1.89	.63	1.89	1.26	1.89	1.26	.00	21.38
(2)	.14	.09	.00	.00	.00	.00	.02	.05	.09	.07	.07	.02	.07	.05	.07	.05	.00	.79
19-24	2	3	0	0	0	0	0	1	0	1	0	0	1	7	4	1	0	20
(1)	1.26	1.89	.00	.00	.00	.00	.00	.63	.00	.63	.00	.00	.63	4.40	2.52	.63	.00	12.58
(2)	.05	.07	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.02	.16	.09	.02	.00	.46
GT 24	3	2	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	7
(1)	1.89	1.26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.63	.00	.63	.00	4.40
(2)	.07	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.16
ALL SPEEDS	16	18	3	4	3	9	9	14	8	11	14	6	10	15	12	7	0	159
(1)	10.06	11.32	1.89	2.52	1.89	5.66	5.66	8.81	5.03	6.92	8.81	3.77	6.29	9.43	7.55	4.40	.00	100.00
(2)	.37	.42	.07	.09	.07	.21	.21	.32	.19	.26	.32	.14	.23	.35	.28	.16	.00	3.69

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-66— CCNPP 197' November JFD
(Page 4 of 8)

CC NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 30.35
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	5	7	2	8	5	0	2	3	1	1	2	2	1	2	1	5	0	47
(1)	.38	.53	.15	.61	.38	.00	.15	.23	.08	.08	.15	.15	.08	.15	.08	.38	.00	3.59
(2)	.12	.16	.05	.19	.12	.00	.05	.07	.02	.02	.05	.05	.02	.05	.02	.12	.00	1.09
4-7	13	10	21	11	19	18	24	23	15	9	8	7	7	5	8	10	0	208
(1)	.99	.76	1.60	.84	1.45	1.38	1.83	1.76	1.15	.69	.61	.53	.53	.38	.61	.76	.00	15.89
(2)	.30	.23	.49	.26	.44	.42	.56	.53	.35	.21	.19	.16	.16	.12	.19	.23	.00	4.82
8-12	24	11	12	18	29	26	40	54	31	23	20	19	12	12	23	36	0	390
(1)	1.83	.84	.92	1.38	2.22	1.99	3.06	4.13	2.37	1.76	1.53	1.45	.92	.92	1.76	2.75	.00	29.79
(2)	.56	.26	.28	.42	.67	.60	.93	1.25	.72	.53	.46	.44	.28	.28	.53	.83	.00	9.04
13-18	32	23	13	7	6	10	8	74	24	24	38	19	15	40	56	69	0	458
(1)	2.44	1.76	.99	.53	.46	.76	.61	5.65	1.83	1.83	2.90	1.45	1.15	3.06	4.28	5.27	.00	34.99
(2)	.74	.53	.30	.16	.14	.23	.19	1.72	.56	.56	.88	.44	.35	.93	1.30	1.60	.00	10.62
19-24	31	17	6	0	0	0	0	15	5	7	8	1	3	35	21	16	0	165
(1)	2.37	1.30	.46	.00	.00	.00	.00	1.15	.38	.53	.61	.08	.23	2.67	1.60	1.22	.00	12.61
(2)	.72	.39	.14	.00	.00	.00	.00	.35	.12	.16	.19	.02	.07	.81	.49	.37	.00	3.83
GT 24	12	4	0	0	0	0	0	9	0	0	0	1	2	9	2	2	0	41
(1)	.92	.31	.00	.00	.00	.00	.00	.69	.00	.00	.00	.08	.15	.69	.15	.15	.00	3.13
(2)	.28	.09	.00	.00	.00	.00	.00	.21	.00	.00	.00	.02	.05	.21	.05	.05	.00	.95
ALL SPEEDS	117	72	54	44	59	54	74	178	76	64	76	49	40	103	111	138	0	1309
(1)	8.94	5.50	4.13	3.36	4.51	4.13	5.65	13.60	5.81	4.89	5.81	3.74	3.06	7.87	8.48	10.54	.00	100.00
(2)	2.71	1.67	1.25	1.02	1.37	1.25	1.72	4.13	1.76	1.48	1.76	1.14	.93	2.39	2.57	3.20	.00	30.35

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-66— CCNPP 197' November JFD
(Page 5 of 8)

CC NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA   STABILITY CLASS E   CLASS FREQUENCY (PERCENT) = 28.61

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	6	2	2	2	4	7	2	4	2	1	0	1	2	2	2	4	0	43
(1)	.49	.16	.16	.16	.32	.57	.16	.32	.16	.08	.00	.08	.16	.16	.16	.32	.00	3.48
(2)	.14	.05	.05	.05	.09	.16	.05	.09	.05	.02	.00	.02	.05	.05	.05	.09	.00	1.00
4-7	8	3	13	13	18	18	11	11	10	14	5	5	3	8	13	9	0	162
(1)	.65	.24	1.05	1.05	1.46	1.46	.89	.89	.81	1.13	.41	.41	.24	.65	1.05	.73	.00	13.13
(2)	.19	.07	.30	.30	.42	.42	.26	.26	.23	.32	.12	.12	.07	.19	.30	.21	.00	3.76
8-12	22	9	11	9	12	22	13	29	27	43	40	32	28	46	59	65	0	467
(1)	1.78	.73	.89	.73	.97	1.78	1.05	2.35	2.19	3.48	3.24	2.59	2.27	3.73	4.78	5.27	.00	37.84
(2)	.51	.21	.26	.21	.28	.51	.30	.67	.63	1.00	.93	.74	.65	1.07	1.37	1.51	.00	10.83
13-18	10	6	0	0	1	0	4	17	76	100	75	23	20	29	60	62	0	483
(1)	.81	.49	.00	.00	.08	.00	.32	1.38	6.16	8.10	6.08	1.86	1.62	2.35	4.86	5.02	.00	39.14
(2)	.23	.14	.00	.00	.02	.00	.09	.39	1.76	2.32	1.74	.53	.46	.67	1.39	1.44	.00	11.20
19-24	3	0	0	0	1	0	0	8	4	27	22	3	2	5	2	1	0	78
(1)	.24	.00	.00	.00	.08	.00	.00	.65	.32	2.19	1.78	.24	.16	.41	.16	.08	.00	6.32
(2)	.07	.00	.00	.00	.02	.00	.00	.19	.09	.63	.51	.07	.05	.12	.05	.02	.00	1.81
GT 24	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.08
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
ALL SPEEDS	49	20	26	24	36	47	30	69	119	186	142	64	55	90	136	141	0	1234
(1)	3.97	1.62	2.11	1.94	2.92	3.81	2.43	5.59	9.64	15.07	11.51	5.19	4.46	7.29	11.02	11.43	.00	100.00
(2)	1.14	.46	.60	.56	.83	1.09	.70	1.60	2.76	4.31	3.29	1.48	1.28	2.09	3.15	3.27	.00	28.61

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-66— CCNPP 197' November JFD

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CC NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 11.62

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	3	4	1	3	4	1	1	4	2	2	1	1	2	0	2	0	32
(1)	.20	.60	.80	.20	.60	.80	.20	.20	.80	.40	.40	.20	.20	.40	.00	.40	.00	6.39
(2)	.02	.07	.09	.02	.07	.09	.02	.02	.09	.05	.05	.02	.02	.05	.00	.05	.00	.74
4-7	6	0	8	2	8	3	5	5	11	7	7	1	3	7	2	4	0	79
(1)	1.20	.00	1.60	.40	1.60	.60	1.00	1.00	2.20	1.40	1.40	.20	.60	1.40	.40	.80	.00	15.77
(2)	.14	.00	.19	.05	.19	.07	.12	.12	.26	.16	.16	.02	.07	.16	.05	.09	.00	1.83
8-12	9	2	3	0	0	4	10	20	28	23	13	13	18	10	18	28	0	199
(1)	1.80	.40	.60	.00	.00	.80	2.00	3.99	5.59	4.59	2.59	2.59	3.59	2.00	3.59	5.59	.00	39.72
(2)	.21	.05	.07	.00	.00	.09	.23	.46	.65	.53	.30	.30	.42	.23	.42	.65	.00	4.61
13-18	2	0	0	0	0	0	3	15	35	50	19	5	5	10	23	8	0	175
(1)	.40	.00	.00	.00	.00	.00	.60	2.99	6.99	9.98	3.79	1.00	1.00	2.00	4.59	1.60	.00	34.93
(2)	.05	.00	.00	.00	.00	.00	.07	.35	.81	1.16	.44	.12	.12	.23	.53	.19	.00	4.06
19-24	0	0	0	0	0	0	0	0	0	5	11	0	0	0	0	0	0	16
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.00	2.20	.00	.00	.00	.00	.00	.00	3.19
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	.26	.00	.00	.00	.00	.00	.00	.37
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	18	5	15	3	11	11	19	41	78	87	52	20	27	29	43	42	0	501
(1)	3.59	1.00	2.99	.60	2.20	2.20	3.79	8.18	15.57	17.37	10.38	3.99	5.39	5.79	8.58	8.38	.00	100.00
(2)	.42	.12	.35	.07	.26	.26	.44	.95	1.81	2.02	1.21	.46	.63	.67	1.00	.97	.00	11.62

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-66— CCNPP 197' November JFD
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CC NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 8.95

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.26	.00	.26	.00	.00	.00	.00	.52
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.05
C-3	1	1	3	1	2	0	3	2	1	3	5	5	1	3	0	2	0	33
(1)	.26	.26	.78	.26	.52	.00	.78	.52	.26	.78	1.30	1.30	.26	.78	.00	.52	.00	8.55
(2)	.02	.02	.07	.02	.05	.00	.07	.05	.02	.07	.12	.12	.02	.07	.00	.05	.00	.77
4-7	6	5	5	0	4	2	2	1	5	10	6	8	9	6	5	5	0	79
(1)	1.55	1.30	1.30	.00	1.04	.52	.52	.26	1.30	2.59	1.55	2.07	2.33	1.55	1.30	1.30	.00	20.47
(2)	.14	.12	.12	.00	.09	.05	.05	.02	.12	.23	.14	.19	.21	.14	.12	.12	.00	1.83
8-12	7	1	0	1	0	1	5	10	18	21	12	7	10	14	13	19	0	139
(1)	1.81	.26	.00	.26	.00	.26	1.30	2.59	4.66	5.44	3.11	1.81	2.59	3.63	3.37	4.92	.00	36.01
(2)	.16	.02	.00	.02	.00	.02	.12	.23	.42	.49	.28	.16	.23	.32	.30	.44	.00	3.22
13-18	1	0	0	0	0	4	5	8	21	31	21	8	10	6	12	2	0	129
(1)	.26	.00	.00	.00	.00	1.04	1.30	2.07	5.44	8.03	5.44	2.07	2.59	1.55	3.11	.52	.00	33.42
(2)	.02	.00	.00	.00	.00	.09	.12	.19	.49	.72	.49	.19	.23	.14	.28	.05	.00	2.99
19-24	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.78	.26	.00	.00	.00	.00	.00	.00	1.04
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.02	.00	.00	.00	.00	.00	.00	.09
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	15	7	8	2	6	7	15	21	45	68	46	28	31	29	30	28	0	386
(1)	3.89	1.81	2.07	.52	1.55	1.81	3.89	5.44	11.66	17.62	11.92	7.25	8.03	7.51	7.77	7.25	.00	100.00
(2)	.35	.16	.19	.05	.14	.16	.35	.49	1.04	1.58	1.07	.65	.72	.67	.70	.65	.00	8.95

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-66— CCNPP 197' November JFD
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CC NOVEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.05
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.05
C-3	13	14	11	12	14	13	10	11	9	8	9	10	5	11	3	13	0	166
(1)	.30	.32	.26	.28	.32	.30	.23	.26	.21	.19	.21	.23	.12	.26	.07	.30	.00	3.85
(2)	.30	.32	.26	.28	.32	.30	.23	.26	.21	.19	.21	.23	.12	.26	.07	.30	.00	3.85
4-7	40	40	60	34	67	58	47	46	47	51	40	28	31	28	32	32	0	681
(1)	.93	.93	1.39	.79	1.55	1.34	1.09	1.07	1.09	1.18	.93	.65	.72	.65	.74	.74	.00	15.79
(2)	.93	.93	1.39	.79	1.55	1.34	1.09	1.07	1.09	1.18	.93	.65	.72	.65	.74	.74	.00	15.79
8-12	108	45	27	28	42	57	82	146	124	145	135	93	79	94	126	167	0	1498
(1)	2.50	1.04	.63	.65	.97	1.32	1.90	3.39	2.88	3.36	3.13	2.16	1.83	2.18	2.92	3.87	.00	34.73
(2)	2.50	1.04	.63	.65	.97	1.32	1.90	3.39	2.88	3.36	3.13	2.16	1.83	2.18	2.92	3.87	.00	34.73
13-18	77	44	15	7	7	14	21	122	163	253	202	71	65	125	181	178	0	1545
(1)	1.79	1.02	.35	.16	.16	.32	.49	2.83	3.78	5.87	4.68	1.65	1.51	2.90	4.20	4.13	.00	35.82
(2)	1.79	1.02	.35	.16	.16	.32	.49	2.83	3.78	5.87	4.68	1.65	1.51	2.90	4.20	4.13	.00	35.82
19-24	43	24	6	0	1	0	0	28	12	56	48	6	7	59	44	24	0	358
(1)	1.00	.56	.14	.00	.02	.00	.00	.65	.28	1.30	1.11	.14	.16	1.37	1.02	.56	.00	8.30
(2)	1.00	.56	.14	.00	.02	.00	.00	.65	.28	1.30	1.11	.14	.16	1.37	1.02	.56	.00	8.30
GT 24	16	6	0	0	0	0	0	11	0	2	0	1	4	15	5	3	0	63
(1)	.37	.14	.00	.00	.00	.00	.00	.26	.00	.05	.00	.02	.09	.35	.12	.07	.00	1.46
(2)	.37	.14	.00	.00	.00	.00	.00	.26	.00	.05	.00	.02	.09	.35	.12	.07	.00	1.46
ALL SPEEDS	297	173	119	81	131	142	160	364	355	515	435	209	192	332	391	417	0	4313
(1)	6.89	4.01	2.76	1.88	3.04	3.29	3.71	8.44	8.23	11.94	10.09	4.85	4.45	7.70	9.07	9.67	.00	100.00
(2)	6.89	4.01	2.76	1.88	3.04	3.29	3.71	8.44	8.23	11.94	10.09	4.85	4.45	7.70	9.07	9.67	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-67— CCNPP 197' December JFD

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CC DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)

197.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 8.34

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	3
(1)	.00	.00	.00	.00	.56	.00	.00	.00	.00	.00	.00	.00	.00	.28	.00	.00	.00	.83
(2)	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.07
4-7	7	5	5	2	2	0	0	0	1	2	5	4	2	1	3	4	0	43
(1)	1.94	1.39	1.39	.56	.56	.00	.00	.00	.28	.56	1.39	1.11	.56	.28	.83	1.11	.00	11.94
(2)	.16	.12	.12	.05	.05	.00	.00	.00	.02	.05	.12	.09	.05	.02	.07	.09	.00	1.00
8-12	17	7	3	1	0	0	0	2	3	17	18	12	8	13	12	5	0	118
(1)	4.72	1.94	.83	.28	.00	.00	.00	.56	.83	4.72	5.00	3.33	2.22	3.61	3.33	1.39	.00	32.78
(2)	.39	.16	.07	.02	.00	.00	.00	.05	.07	.39	.42	.28	.19	.30	.28	.12	.00	2.74
13-18	16	6	2	2	0	0	0	2	3	18	18	16	13	24	17	3	0	140
(1)	4.44	1.67	.56	.56	.00	.00	.00	.56	.83	5.00	5.00	4.44	3.61	6.67	4.72	.83	.00	38.89
(2)	.37	.14	.05	.05	.00	.00	.00	.05	.07	.42	.42	.37	.30	.56	.39	.07	.00	3.25
19-24	3	0	1	0	0	0	0	0	0	2	5	1	2	19	22	0	0	55
(1)	.83	.00	.28	.00	.00	.00	.00	.00	.00	.56	1.39	.28	.56	5.28	6.11	.00	.00	15.28
(2)	.07	.00	.02	.00	.00	.00	.00	.00	.00	.05	.12	.02	.05	.44	.51	.00	.00	1.27
GT 24	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28	.00	.00	.00	.00	.00	.00	.00	.28
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
ALL SPEEDS	43	18	11	5	4	0	0	4	7	40	46	33	25	58	54	12	0	360
(1)	11.94	5.00	3.06	1.39	1.11	.00	.00	1.11	1.94	11.11	12.78	9.17	6.94	16.11	15.00	3.33	.00	100.00
(2)	1.00	.42	.25	.12	.09	.00	.00	.09	.16	.93	1.07	.76	.58	1.34	1.25	.28	.00	8.34

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-67— CCNPP 197' December JFD
(Page 2 of 8)

CC DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 4.20
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4-7	4	6	1	0	1	1	0	1	0	1	0	4	2	1	2	2	0	26
(1)	2.21	3.31	.55	.00	.55	.55	.00	.55	.00	.55	.00	2.21	1.10	.55	1.10	1.10	.00	14.36
(2)	.09	.14	.02	.00	.02	.02	.00	.02	.00	.02	.00	.09	.05	.02	.05	.05	.00	.60
8-12	8	8	2	0	1	0	1	1	3	7	8	4	3	8	6	5	0	65
(1)	4.42	4.42	1.10	.00	.55	.00	.55	.55	1.66	3.87	4.42	2.21	1.66	4.42	3.31	2.76	.00	35.91
(2)	.19	.19	.05	.00	.02	.00	.02	.02	.07	.16	.19	.09	.07	.19	.14	.12	.00	1.51
13-18	8	4	1	0	0	0	0	0	0	8	4	3	6	7	12	5	0	58
(1)	4.42	2.21	.55	.00	.00	.00	.00	.00	.00	4.42	2.21	1.66	3.31	3.87	6.63	2.76	.00	32.04
(2)	.19	.09	.02	.00	.00	.00	.00	.00	.00	.19	.09	.07	.14	.16	.28	.12	.00	1.34
19-24	1	1	1	0	0	0	0	0	1	1	2	1	1	7	11	1	0	28
(1)	.55	.55	.55	.00	.00	.00	.00	.00	.55	.55	1.10	.55	.55	3.87	6.08	.55	.00	15.47
(2)	.02	.02	.02	.00	.00	.00	.00	.00	.02	.02	.05	.02	.02	.16	.25	.02	.00	.65
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55	1.66	.00	.00	2.21
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.07	.00	.00	.09
ALL SPEEDS	21	19	5	0	2	1	1	2	4	17	14	12	12	24	34	13	0	181
(1)	11.60	10.50	2.76	.00	1.10	.55	.55	1.10	2.21	9.39	7.73	6.63	6.63	13.26	18.78	7.18	.00	100.00
(2)	.49	.44	.12	.00	.05	.02	.02	.05	.09	.39	.32	.28	.28	.56	.79	.30	.00	4.20

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-67— CCNPP 197' December JFD
(Page 3 of 8)

CC DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 4.36
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	4
(1)	.53	.53	.53	.00	.00	.00	.00	.00	.53	.00	.00	.00	.00	.00	.00	.00	.00	2.13
(2)	.02	.02	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.09
4-7	2	4	2	2	2	3	1	1	1	1	1	4	5	4	3	1	0	37
(1)	1.06	2.13	1.06	1.06	1.06	1.60	.53	.53	.53	.53	.53	2.13	2.66	2.13	1.60	.53	.00	19.68
(2)	.05	.09	.05	.05	.05	.07	.02	.02	.02	.02	.02	.09	.12	.09	.07	.02	.00	.86
8-12	6	4	2	0	0	2	1	4	5	6	5	5	6	8	5	12	0	71
(1)	3.19	2.13	1.06	.00	.00	1.06	.53	2.13	2.66	3.19	2.66	2.66	3.19	4.26	2.66	6.38	.00	37.77
(2)	.14	.09	.05	.00	.00	.05	.02	.09	.12	.14	.12	.12	.14	.19	.12	.28	.00	1.65
13-18	3	3	2	0	0	0	0	0	2	5	5	3	6	10	12	2	0	53
(1)	1.60	1.60	1.06	.00	.00	.00	.00	.00	1.06	2.66	2.66	1.60	3.19	5.32	6.38	1.06	.00	28.19
(2)	.07	.07	.05	.00	.00	.00	.00	.00	.05	.12	.12	.07	.14	.23	.28	.05	.00	1.23
19-24	0	2	0	0	0	0	0	0	0	0	4	0	0	6	5	1	0	18
(1)	.00	1.06	.00	.00	.00	.00	.00	.00	.00	.00	2.13	.00	.00	3.19	2.66	.53	.00	9.57
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.14	.12	.02	.00	.42
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.53	2.13	.00	.00	2.66
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.09	.00	.00	.12
ALL SPEEDS	12	14	7	2	2	5	2	5	9	12	15	12	17	29	29	16	0	188
(1)	6.38	7.45	3.72	1.06	1.06	2.66	1.06	2.66	4.79	6.38	7.98	6.38	9.04	15.43	15.43	8.51	.00	100.00
(2)	.28	.32	.16	.05	.05	.12	.05	.12	.21	.28	.35	.28	.39	.67	.67	.37	.00	4.36

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-67— CCNPP 197' December JFD
(Page 4 of 8)

CC DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA   STABILITY CLASS D   CLASS FREQUENCY (PERCENT) = 35.33

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	3	6	6	4	5	0	1	2	0	0	2	2	2	2	3	4	0	42
(1)	.20	.39	.39	.26	.33	.00	.07	.13	.00	.00	.13	.13	.13	.13	.20	.26	.00	2.76
(2)	.07	.14	.14	.09	.12	.00	.02	.05	.00	.00	.05	.05	.05	.05	.07	.09	.00	.97
4-7	26	22	9	17	8	12	6	9	15	8	5	19	21	16	17	12	0	222
(1)	1.71	1.44	.59	1.12	.52	.79	.39	.59	.98	.52	.33	1.25	1.38	1.05	1.12	.79	.00	14.57
(2)	.60	.51	.21	.39	.19	.28	.14	.21	.35	.19	.12	.44	.49	.37	.39	.28	.00	5.15
8-12	54	37	42	36	13	12	22	25	27	29	24	22	16	40	49	71	0	519
(1)	3.54	2.43	2.76	2.36	.85	.79	1.44	1.64	1.77	1.90	1.57	1.44	1.05	2.62	3.22	4.66	.00	34.06
(2)	1.25	.86	.97	.83	.30	.28	.51	.58	.63	.67	.56	.51	.37	.93	1.14	1.65	.00	12.03
13-18	64	67	40	11	0	2	2	16	16	22	31	20	26	46	97	57	0	517
(1)	4.20	4.40	2.62	.72	.00	.13	.13	1.05	1.05	1.44	2.03	1.31	1.71	3.02	6.36	3.74	.00	33.92
(2)	1.48	1.55	.93	.25	.00	.05	.05	.37	.37	.51	.72	.46	.60	1.07	2.25	1.32	.00	11.98
19-24	29	25	14	1	0	0	4	12	7	5	10	3	7	33	29	13	0	192
(1)	1.90	1.64	.92	.07	.00	.00	.26	.79	.46	.33	.66	.20	.46	2.17	1.90	.85	.00	12.60
(2)	.67	.58	.32	.02	.00	.00	.09	.28	.16	.12	.23	.07	.16	.76	.67	.30	.00	4.45
GT 24	4	0	5	0	0	0	3	0	0	0	0	1	3	8	6	2	0	32
(1)	.26	.00	.33	.00	.00	.00	.20	.00	.00	.00	.00	.07	.20	.52	.39	.13	.00	2.10
(2)	.09	.00	.12	.00	.00	.00	.07	.00	.00	.00	.00	.02	.07	.19	.14	.05	.00	.74
ALL SPEEDS	180	157	116	69	26	26	38	64	65	64	72	67	75	145	201	159	0	1524
(1)	11.81	10.30	7.61	4.53	1.71	1.71	2.49	4.20	4.27	4.20	4.72	4.40	4.92	9.51	13.19	10.43	.00	100.00
(2)	4.17	3.64	2.69	1.60	.60	.60	.88	1.48	1.51	1.48	1.67	1.55	1.74	3.36	4.66	3.69	.00	35.33

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-67— CCNPP 197' December JFD
(Page 5 of 8)

CC DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 36.07
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	3	2	2	1	3	1	1	1	1	5	1	4	4	1	3	2	0	35
(1)	.19	.13	.13	.06	.19	.06	.06	.06	.06	.32	.06	.26	.26	.06	.19	.13	.00	2.25
(2)	.07	.05	.05	.02	.07	.02	.02	.02	.02	.12	.02	.09	.09	.02	.07	.05	.00	.81
4-7	14	12	12	10	4	8	11	12	10	5	7	5	13	16	22	19	0	180
(1)	.90	.77	.77	.64	.26	.51	.71	.77	.64	.32	.45	.32	.84	1.03	1.41	1.22	.00	11.57
(2)	.32	.28	.28	.23	.09	.19	.25	.28	.23	.12	.16	.12	.30	.37	.51	.44	.00	4.17
8-12	33	22	16	9	5	12	29	33	41	31	25	30	55	116	127	110	0	694
(1)	2.12	1.41	1.03	.58	.32	.77	1.86	2.12	2.63	1.99	1.61	1.93	3.53	7.46	8.16	7.07	.00	44.60
(2)	.76	.51	.37	.21	.12	.28	.67	.76	.95	.72	.58	.70	1.27	2.69	2.94	2.55	.00	16.09
13-18	14	7	2	0	0	2	5	30	52	91	108	29	34	82	57	35	0	548
(1)	.90	.45	.13	.00	.00	.13	.32	1.93	3.34	5.85	6.94	1.86	2.19	5.27	3.66	2.25	.00	35.22
(2)	.32	.16	.05	.00	.00	.05	.12	.70	1.21	2.11	2.50	.67	.79	1.90	1.32	.81	.00	12.70
19-24	0	1	0	0	0	0	3	10	2	23	36	2	2	15	2	0	0	96
(1)	.00	.06	.00	.00	.00	.00	.19	.64	.13	1.48	2.31	.13	.13	.96	.13	.00	.00	6.17
(2)	.00	.02	.00	.00	.00	.00	.07	.23	.05	.53	.83	.05	.05	.35	.05	.00	.00	2.23
GT 24	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.06	.13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19
(2)	.00	.00	.00	.00	.00	.00	.02	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
ALL SPEEDS	64	44	32	20	12	23	50	88	106	155	177	70	108	230	211	166	0	1556
(1)	4.11	2.83	2.06	1.29	.77	1.48	3.21	5.66	6.81	9.96	11.38	4.50	6.94	14.78	13.56	10.67	.00	100.00
(2)	1.48	1.02	.74	.46	.28	.53	1.16	2.04	2.46	3.59	4.10	1.62	2.50	5.33	4.89	3.85	.00	36.07

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-67— CCNPP 197' December JFD
(Page 6 of 8)

CC DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA   STABILITY CLASS F   CLASS FREQUENCY (PERCENT) = 8.81
WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	2	2	1	2	2	1	2	1	2	3	0	3	2	4	4	0	32
(1)	.26	.53	.53	.26	.53	.53	.26	.53	.26	.53	.79	.00	.79	.53	1.05	1.05	.00	8.42
(2)	.02	.05	.05	.02	.05	.05	.02	.05	.02	.05	.07	.00	.07	.05	.09	.09	.00	.74
4-7	7	3	3	1	4	3	3	8	4	5	7	3	6	9	8	10	0	84
(1)	1.84	.79	.79	.26	1.05	.79	.79	2.11	1.05	1.32	1.84	.79	1.58	2.37	2.11	2.63	.00	22.11
(2)	.16	.07	.07	.02	.09	.07	.07	.19	.09	.12	.16	.07	.14	.21	.19	.23	.00	1.95
8-12	2	1	1	0	2	0	6	6	11	18	21	16	9	22	25	15	0	155
(1)	.53	.26	.26	.00	.53	.00	1.58	1.58	2.89	4.74	5.53	4.21	2.37	5.79	6.58	3.95	.00	40.79
(2)	.05	.02	.02	.00	.05	.00	.14	.14	.25	.42	.49	.37	.21	.51	.58	.35	.00	3.59
13-18	3	0	0	0	0	0	0	1	24	37	22	9	3	3	4	0	0	106
(1)	.79	.00	.00	.00	.00	.00	.00	.26	6.32	9.74	5.79	2.37	.79	.79	1.05	.00	.00	27.89
(2)	.07	.00	.00	.00	.00	.00	.00	.02	.56	.86	.51	.21	.07	.07	.09	.00	.00	2.46
19-24	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.26	.26	.26	.00	.00	.00	.00	.00	.00	.79
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.02	.00	.00	.00	.00	.00	.00	.07
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	13	6	6	2	8	5	10	17	41	63	54	28	21	36	41	29	0	380
(1)	3.42	1.58	1.58	.53	2.11	1.32	2.63	4.47	10.79	16.58	14.21	7.37	5.53	9.47	10.79	7.63	.00	100.00
(2)	.30	.14	.14	.05	.19	.12	.23	.39	.95	1.46	1.25	.65	.49	.83	.95	.67	.00	8.81

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-67— CCNPP 197' December JFD
(Page 7 of 8)

CC DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 2.90

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	3	2	2	0	0	1	1	0	0	3	0	0	0	0	2	1	0	15
(1)	2.40	1.60	1.60	.00	.00	.80	.80	.00	.00	2.40	.00	.00	.00	.00	1.60	.80	.00	12.00
(2)	.07	.05	.05	.00	.00	.02	.02	.00	.00	.07	.00	.00	.00	.00	.05	.02	.00	.35
4-7	0	0	0	1	2	0	3	2	2	9	2	3	5	4	6	2	0	41
(1)	.00	.00	.00	.80	1.60	.00	2.40	1.60	1.60	7.20	1.60	2.40	4.00	3.20	4.80	1.60	.00	32.80
(2)	.00	.00	.00	.02	.05	.00	.07	.05	.05	.21	.05	.07	.12	.09	.14	.05	.00	.95
8-12	1	0	0	0	0	0	1	6	4	7	7	9	3	3	3	1	0	45
(1)	.80	.00	.00	.00	.00	.00	.80	4.80	3.20	5.60	5.60	7.20	2.40	2.40	2.40	.80	.00	36.00
(2)	.02	.00	.00	.00	.00	.00	.02	.14	.09	.16	.16	.21	.07	.07	.07	.02	.00	1.04
13-18	1	0	0	0	0	0	0	3	7	7	2	1	0	1	0	1	0	23
(1)	.80	.00	.00	.00	.00	.00	.00	2.40	5.60	5.60	1.60	.80	.00	.80	.00	.80	.00	18.40
(2)	.02	.00	.00	.00	.00	.00	.00	.07	.16	.16	.05	.02	.00	.02	.00	.02	.00	.53
19-24	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.80	.00	.00	.00	.00	.00	.00	.00	.80
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	5	2	2	1	2	1	5	11	13	27	11	13	8	8	11	5	0	125
(1)	4.00	1.60	1.60	.80	1.60	.80	4.00	8.80	10.40	21.60	8.80	10.40	6.40	6.40	8.80	4.00	.00	100.00
(2)	.12	.05	.05	.02	.05	.02	.12	.25	.30	.63	.25	.30	.19	.19	.25	.12	.00	2.90

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-67— CCNPP 197' December JFD

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CC DECEMBER MET DATA JOINT FREQUENCY DISTRIBUTION (60 METER TOWER)
197.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED MPH	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	11	13	13	6	12	4	4	5	3	10	6	6	9	6	12	11	0	131
(1)	.25	.30	.30	.14	.28	.09	.09	.12	.07	.23	.14	.14	.21	.14	.28	.25	.00	3.04
(2)	.25	.30	.30	.14	.28	.09	.09	.12	.07	.23	.14	.14	.21	.14	.28	.25	.00	3.04
4-7	60	52	32	33	23	27	24	33	33	31	27	42	54	51	61	50	0	633
(1)	1.39	1.21	.74	.76	.53	.63	.56	.76	.76	.72	.63	.97	1.25	1.18	1.41	1.16	.00	14.67
(2)	1.39	1.21	.74	.76	.53	.63	.56	.76	.76	.72	.63	.97	1.25	1.18	1.41	1.16	.00	14.67
8-12	121	79	66	46	21	26	60	77	94	115	108	98	100	210	227	219	0	1667
(1)	2.80	1.83	1.53	1.07	.49	.60	1.39	1.78	2.18	2.67	2.50	2.27	2.32	4.87	5.26	5.08	.00	38.64
(2)	2.80	1.83	1.53	1.07	.49	.60	1.39	1.78	2.18	2.67	2.50	2.27	2.32	4.87	5.26	5.08	.00	38.64
13-18	109	87	47	13	0	4	7	52	104	188	190	81	88	173	199	103	0	1445
(1)	2.53	2.02	1.09	.30	.00	.09	.16	1.21	2.41	4.36	4.40	1.88	2.04	4.01	4.61	2.39	.00	33.50
(2)	2.53	2.02	1.09	.30	.00	.09	.16	1.21	2.41	4.36	4.40	1.88	2.04	4.01	4.61	2.39	.00	33.50
19-24	33	29	16	1	0	0	7	22	11	33	58	7	12	80	69	15	0	393
(1)	.76	.67	.37	.02	.00	.00	.16	.51	.25	.76	1.34	.16	.28	1.85	1.60	.35	.00	9.11
(2)	.76	.67	.37	.02	.00	.00	.16	.51	.25	.76	1.34	.16	.28	1.85	1.60	.35	.00	9.11
GT 24	4	0	5	0	0	0	4	2	0	1	0	1	3	10	13	2	0	45
(1)	.09	.00	.12	.00	.00	.00	.09	.05	.00	.02	.00	.02	.07	.23	.30	.05	.00	1.04
(2)	.09	.00	.12	.00	.00	.00	.09	.05	.00	.02	.00	.02	.07	.23	.30	.05	.00	1.04
ALL SPEEDS	338	260	179	99	56	61	106	191	245	378	389	235	266	530	581	400	0	4314
(1)	7.83	6.03	4.15	2.29	1.30	1.41	2.46	4.43	5.68	8.76	9.02	5.45	6.17	12.29	13.47	9.27	.00	100.00
(2)	7.83	6.03	4.15	2.29	1.30	1.41	2.46	4.43	5.68	8.76	9.02	5.45	6.17	12.29	13.47	9.27	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
C= CALM (WIND SPEED LESS THAN OR EQUAL TO 0.50 MPH)

Table 2.7-68— Monthly Mean Wind Speed and Prevailing Wind Direction

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/ Washington International Airport	mph/mps	8.3/3.7	8.6/3.8	9.2/4.1	8.8/3.9	7.7/3.4	7.1/3.2	6.7/3.0	6.3/2.8	6.6/3.0	6.7/3.0	7.5/3.4	7.8/3.5	7.6/3.4
	deg	300	300	300	300	290	270	260	280	280	280	290	300	300
Norfolk, VA	mph/mps	10.5/4.7	10.7/4.8	11.3/5.1	11.2/5.0	10.3/4.6	9.4/4.2	8.7/3.9	8.3/3.7	9.4/4.2	9.2/4.1	9.5/4.2	10.0/4.5	9.9/4.4
	deg	240	40	50	230	240	240	230	230	50	50	240	240	230
Richmond, VA	mph/mps	8.5/3.8	8.6/3.8	9.3/4.2	9.1/4.1	8.1/3.6	7.5/3.4	7.1/3.2	6.5/2.9	7.0/3.1	6.9/3.1	7.7/3.4	7.8/3.5	7.8/3.5
	deg	10	360	210	200	220	210	200	200	360	360	360	210	200

Table 2.7-69— Monthly Maximum Two Minute Wind Speed and Direction

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/ Washington International Airport	mph/mps	40/18	40/18	41/18	39/17	39/17	44/20	40/18	39/17	44/20	37/17	45/20	45/20	45/20
	deg	300	290	280	280	290	270	280	320	90	280	280	270	270
Norfolk, VA	mph/mps	43/19	41/18	44/20	38/17	41/18	37/17	44/20	46/21	47/21	38/17	47/21	37/17	47/21
	deg	20	70	240	60	40	10	170	110	60	80	60	40	60
Richmond, VA	mph/mps	38/17	44/20	48/21	46/21	41/18	45/20	47/21	44/20	46/21	37/17	36/16	40/18	48/21
	deg	310	280	240	330	300	260	310	360	90	100	300	150	240

Table 2.7-70— Monthly Maximum Five Second Wind Speed and Direction

SITE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Baltimore/ Washington International Airport	mph/mps	53/24	54/24	53/24	53/24	51/23	60/27	48/21	53/24	55/25	48/21	59/26	61/27	61/27
	deg	280	280	280	280	310	310	280	270	50	270	270	290	290
Norfolk, VA	mph/mps	54/24	53/24	69/31	46/21	52/23	60/27	68/30	67/30	74/33	51/23	55/25	49/22	74/33
	deg	20	340	300	60	240	20	160	220	110	80	60	20	110
Richmond, VA	mph/mps	48/21	63/28	59/26	56/25	60/27	55/25	58/26	59/26	72/32	46/21	46/21	49/22	72/32
	deg	310	290	230	250	280	270	210	300	100	100	270	330	100

Table 2.7-71— CCNPP 33 Feet Wind Direction Persistence Summary for Year 2000
(Page 1 of 2)

	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	158	55	22	15	14	9	2	2	1	1	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	282
	56	76	83	89	94	97	98	98	99	99	99	100	100	100	100	100	100	0	0	0	0	0	0	0	0	
NNE	176	63	35	13	12	4	2	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	308
	57	78	89	93	97	98	99	99	99	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	
NE	159	54	25	8	4	3	3	4	3	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	267
	60	80	89	92	94	95	96	97	99	99	99	99	99	100	100	100	0	0	0	0	0	0	0	0	0	
ENE	156	33	17	9	2	4	2	1	0	2	1	0	1	0	0	2	0	0	0	0	0	0	0	0	0	230
	68	82	90	93	94	96	97	97	97	98	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	
E	112	35	12	7	2	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
	65	85	92	97	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	76	26	4	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112
	68	91	95	96	96	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	110	19	7	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141
	78	91	96	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	139	41	27	15	6	1	4	1	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	238
	58	76	87	93	96	96	98	98	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
S	192	49	25	14	5	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	287
	67	84	93	98	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.7-71— CCNPP 33 Feet Wind Direction Persistence Summary for Year 2000
(Page 2 of 2)

	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	227	86	36	16	11	8	0	2	5	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	394
	58	79	89	93	95	97	97	98	99	99	99	99	99	100	100	100	100	0	0	0	0	0	0	0	0	
SW	234	103	45	23	22	17	8	10	4	4	1	2	1	0	0	1	0	0	1	1	0	0	0	0	0	477
	49	71	80	85	90	93	95	97	98	99	99	99	99	99	99	100	100	100	100	100	0	0	0	0	0	
WSW	216	82	23	20	9	5	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	359
	60	83	89	95	97	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	198	53	29	3	6	2	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	295
	67	85	95	96	98	99	99	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	203	66	32	10	8	3	3	3	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	332
	61	81	91	94	96	97	98	99	99	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	
NW	202	58	36	15	13	11	5	4	4	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	350
	58	74	85	89	93	96	97	98	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNW	157	50	18	8	2	0	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	241
	65	86	93	97	98	98	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	2715	873	393	180	118	73	36	31	24	16	5	6	3	3	0	4	2	0	1	1	1	0	0	0	0	4485

Table 2.7-72— CCNPP 33 Feet Wind Direction Persistence Summary for Year 2001

(Page 1 of 2)

	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	143	60	35	26	9	5	5	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	292
	49	70	82	90	93	95	97	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNE	183	65	33	7	4	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300
	61	83	94	96	97	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NE	159	41	17	10	7	5	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	242
	66	83	90	94	97	99	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENE	111	47	15	2	1	4	1	3	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	187
	59	84	93	94	94	96	97	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
E	116	31	16	2	2	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	171
	68	86	95	96	98	99	99	99	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	
ESE	109	30	8	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154
	71	90	95	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	99	37	17	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158
	63	86	97	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	129	49	28	16	11	5	5	3	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	249
	52	71	83	89	94	96	98	99	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
S	195	63	28	13	13	5	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	321
	61	80	89	93	97	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.7-72— CCNPP 33 Feet Wind Direction Persistence Summary for Year 2001

(Page 2 of 2)

	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	253	75	59	31	15	4	3	6	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	449
	56	73	86	93	96	97	98	99	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
SW	258	104	42	27	24	16	10	2	11	3	0	2	2	2	0	0	2	0	0	1	0	0	0	0	0	506
	51	72	80	85	90	93	95	95	98	98	98	99	99	99	99	99	100	100	100	100	0	0	0	0	0	
WSW	240	66	39	16	6	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	376
	64	81	92	96	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	175	51	17	6	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	254
	69	89	96	98	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	194	58	26	8	10	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	301
	64	84	92	95	98	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NW	179	59	26	20	13	8	4	3	2	2	1	0	2	0	1	0	0	0	0	0	0	0	0	0	0	320
	56	74	83	89	93	95	97	98	98	99	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	
NNW	162	45	20	13	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	254
	64	81	89	94	97	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	2705	881	426	205	127	73	39	30	21	6	5	3	6	3	1	0	2	0	0	1	0	0	0	0	0	4534

Table 2.7-73— CCNPP 33 Feet Wind Direction Persistence Summary for Year 2002

(Page 1 of 2)

	DIRECTION PERSISTENCE (HOURS)/PERCENT																									
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	145	70	37	15	13	6	5	7	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300
	48	72	84	89	93	95	97	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNE	165	73	27	19	7	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	299
	55	80	89	95	97	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NE	144	51	26	11	9	2	1	3	1	3	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	254
	57	77	87	91	95	96	96	97	98	99	99	99	99	99	100	100	100	0	0	0	0	0	0	0	0	
ENE	124	37	21	9	5	5	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	206
	60	78	88	93	95	98	98	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E	95	30	15	0	2	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145
	66	86	97	97	98	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	94	24	3	2	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
	73	92	95	96	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	124	36	12	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	178
	70	90	97	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	127	49	20	12	11	7	1	2	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	237
	54	74	83	88	92	95	96	97	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
S	149	62	24	13	8	6	3	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	267
	56	79	88	93	96	98	99	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.7-73— CCNPP 33 Feet Wind Direction Persistence Summary for Year 2002

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	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	213	85	41	20	11	10	5	2	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	392
	54	76	86	92	94	97	98	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
SW	238	95	54	20	19	12	8	8	8	8	3	4	2	0	0	2	0	0	1	1	0	0	0	0	1	484
	49	69	80	84	88	90	92	94	95	97	98	99	99	99	99	99	99	99	100	100	100	100	100	100	100	
WSW	214	67	26	17	11	4	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	342
	63	82	90	95	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	177	44	20	12	3	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	259
	68	85	93	98	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	170	51	7	12	8	3	1	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	257
	66	86	89	93	96	98	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NW	144	68	34	18	10	3	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	286
	50	74	86	92	96	97	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNW	147	60	23	19	11	4	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	267
	55	78	86	93	97	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	2470	902	390	202	134	71	31	37	24	16	8	7	2	0	1	2	1	0	1	1	0	0	0	0	1	4301

Table 2.7-74— CCNPP 33 Feet Wind Direction Persistence Summary for Year 2003
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	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	145	73	34	13	10	9	4	4	1	2	3	1	0	1	0	1	0	0	0	0	0	0	0	0	0	301
	48	72	84	88	91	94	96	97	97	98	99	99	99	100	100	100	0	0	0	0	0	0	0	0	0	
NNE	180	68	36	18	6	5	3	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	320
	56	78	89	94	96	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NE	161	57	21	13	7	7	2	1	2	1	2	1	2	0	0	0	1	0	1	0	0	0	1	0	0	280
	58	78	85	90	93	95	96	96	97	97	98	98	99	99	99	99	99	99	100	100	100	100	100	0	0	
ENE	114	40	17	12	2	3	4	0	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	198
	58	78	86	92	93	95	97	97	98	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	100	
E	111	26	12	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	159
	70	86	94	98	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	110	22	8	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146
	75	90	96	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	134	30	16	8	4	2	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
	68	83	91	95	97	98	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	139	56	33	11	6	11	3	4	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	267
	52	73	85	90	92	96	97	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S	173	68	28	15	13	2	1	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	304
	57	79	88	93	98	98	99	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.7-74— CCNPP 33 Feet Wind Direction Persistence Summary for Year 2003

(Page 2 of 2)

	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	220	75	32	22	7	7	0	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	371
	59	80	88	94	96	98	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SW	248	77	40	30	12	8	9	5	4	4	4	0	1	1	2	1	0	0	0	0	0	0	0	0	0	446
	56	73	82	89	91	93	95	96	97	98	99	99	99	99	100	100	0	0	0	0	0	0	0	0	0	
WSW	214	69	29	13	6	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	335
	64	84	93	97	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	202	43	17	11	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	280
	72	88	94	98	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	202	60	26	9	4	7	1	2	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	314
	64	83	92	95	96	98	98	99	99	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	
NW	198	63	38	21	6	6	5	2	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	343
	58	76	87	93	95	97	98	99	99	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	
NNW	148	56	14	13	4	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	239
	62	85	91	97	98	98	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	2699	883	401	219	99	71	38	26	16	15	13	5	3	4	2	2	1	0	1	0	0	0	1	0	1	4500

Table 2.7-75— CCNPP 33 Feet Wind Direction Persistence Summary for Year 2004
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	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	151	61	39	23	10	2	2	4	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	295
	51	72	85	93	96	97	98	99	99	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	
NNE	185	59	34	13	9	1	5	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	309
	60	79	90	94	97	97	99	99	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
NE	156	54	19	8	10	5	1	1	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	258
	60	81	89	92	96	98	98	98	98	98	99	99	99	100	100	100	100	0	0	0	0	0	0	0	0	
ENE	142	46	21	8	5	3	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	229
	62	82	91	95	97	98	98	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
E	145	31	15	5	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	201
	72	88	95	98	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	128	18	10	3	5	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	168
	76	87	93	95	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	121	41	15	4	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	187
	65	87	95	97	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	136	42	23	16	11	5	9	4	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	248
	55	72	81	88	92	94	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S	194	65	33	15	10	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	321
	60	81	91	96	99	99	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.7-75— CCNPP 33 Feet Wind Direction Persistence Summary for Year 2004
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	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	226	82	51	22	16	9	3	2	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	415
	54	74	87	92	96	98	99	99	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
SW	241	88	45	26	18	6	9	8	5	7	5	5	1	0	0	0	0	0	1	1	0	0	0	0	0	466
	52	71	80	86	90	91	93	95	96	97	98	99	100	100	100	100	100	100	100	100	0	0	0	0	0	
WSW	251	64	33	10	6	6	3	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	375
	67	84	93	95	97	99	99	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	192	51	15	7	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	268
	72	91	96	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	173	63	23	12	3	3	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	280
	62	84	93	97	98	99	99	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	
NW	166	62	32	21	8	3	2	3	2	2	1	0	0	2	1	1	0	0	0	0	0	0	0	0	0	306
	54	75	85	92	94	95	96	97	98	98	99	99	99	99	100	100	0	0	0	0	0	0	0	0	0	
NNW	175	38	18	8	2	3	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	248
	71	86	93	96	97	98	98	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	2782	865	426	201	120	53	37	29	13	13	12	10	3	4	1	1	1	1	1	1	0	0	0	0	0	4574

Table 2.7-76— CCNPP 33 Feet Wind Direction Persistence Summary for Year 2005

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	DIRECTION PERSISTENCE (HOURS)/PERCENT																									
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	157	69	35	15	10	13	6	1	6	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	315
	50	72	83	88	91	95	97	97	99	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	
NNE	199	67	26	14	7	6	2	4	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	327
	61	81	89	94	96	98	98	99	99	99	99	100	100	100	100	100	0	0	0	0	0	0	0	0	0	
NE	151	45	29	13	8	7	2	4	3	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	264
	57	74	85	90	93	96	97	98	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	
ENE	142	49	15	7	6	4	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	226
	63	85	91	94	97	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E	116	37	17	8	6	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	191
	61	80	89	93	96	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	122	22	11	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	162
	75	89	96	98	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	135	37	4	6	4	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	189
	71	91	93	96	98	99	99	99	99	99	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	
SSE	129	49	31	15	9	9	5	4	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	254
	51	70	82	88	92	95	97	99	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	
S	176	47	37	16	2	9	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	290
	61	77	90	95	96	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.7-76— CCNPP 33 Feet Wind Direction Persistence Summary for Year 2005
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	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	208	71	31	17	10	5	4	0	2	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	351
	59	79	88	93	96	97	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
SW	232	75	45	23	24	9	11	4	2	4	2	1	1	2	0	0	0	0	0	1	0	0	0	0	0	436
	53	70	81	86	92	94	96	97	97	98	99	99	99	100	100	100	100	100	100	100	0	0	0	0	0	
WSW	222	65	36	12	8	4	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	350
	63	82	92	96	98	99	99	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	
W	210	62	22	5	3	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	308
	68	88	95	97	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	189	56	17	14	4	3	1	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	291
	65	84	90	95	96	97	98	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NW	160	72	23	16	11	4	1	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	291
	55	80	88	93	97	98	99	99	99	99	99	99	99	99	99	99	99	99	99	99	100	100	100	100	100	
NNW	133	35	19	5	3	2	2	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	204
	65	82	92	94	96	97	98	98	99	99	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	
TOTAL	2681	858	398	190	118	83	40	26	19	12	3	5	1	6	3	2	1	0	0	1	1	0	0	0	1	4449

Table 2.7-77— CCNPP 33 Feet Average Wind Direction Persistence Summary for Years 2000-2005

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	DIRECTION PERSISTENCE (HOURS)/PERCENT																									
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	150	65	34	18	11	7	4	4	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	298
	50	72	84	90	93	96	97	98	99	83	83	66	66	67	50	33	17	0	0	0	0	0	0	0	0	0
NNE	181	66	32	14	8	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	311
	58	80	90	94	97	98	99	99	83	66	50	50	50	33	17	17	0	0	0	0	0	0	0	0	0	0
NE	155	50	23	11	8	5	2	2	2	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	261
	60	79	88	92	95	97	97	98	99	99	99	82	83	83	67	67	50	17	17	17	17	17	17	0	0	0
ENE	132	42	18	8	4	4	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	213
	62	82	90	94	95	97	98	98	82	83	66	66	33	33	33	33	17	17	17	17	17	17	17	17	17	0
E	116	32	15	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	173
	67	85	94	97	98	83	83	83	50	33	33	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0
ESE	107	24	7	3	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145
	73	90	95	97	99	83	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	121	33	12	4	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175
	69	88	95	97	99	83	66	66	33	33	33	17	17	17	17	17	0	0	0	0	0	0	0	0	0	0
SSE	133	48	27	14	9	6	5	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	249
	54	73	84	89	93	95	97	99	99	100	100	67	50	17	0	0	0	0	0	0	0	0	0	0	0	0
S	180	59	29	14	9	4	2	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	298
	60	80	90	95	98	99	100	100	83	50	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 2.7-77— CCNPP 33 Feet Average Wind Direction Persistence Summary for Years 2000-2005

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	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	225	79	42	21	12	7	3	3	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	395
	57	77	87	93	96	97	98	99	99	100	100	83	50	17	17	17	17	0	0	0	0	0	0	0	0	0
SW	242	90	45	25	20	11	9	6	6	5	3	2	1	1	0	1	0	0	1	1	0	0	0	0	0	469
	52	71	81	86	90	92	94	96	97	98	99	99	99	99	100	100	83	83	83	83	17	17	17	17	17	0
WSW	226	69	31	15	8	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	356
	64	83	92	96	98	99	99	83	83	50	33	33	17	17	17	17	17	0	0	0	0	0	0	0	0	0
W	192	51	20	7	4	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	277
	69	88	95	98	99	83	83	67	50	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	189	59	22	11	6	4	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	296
	64	84	91	95	97	98	99	99	100	83	50	50	50	50	33	33	33	33	17	17	17	0	0	0	0	0
NW	175	64	32	19	10	6	3	3	2	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	316
	55	76	86	91	95	96	98	98	99	99	83	83	66	66	50	33	17	17	17	17	17	17	17	17	17	0
NNW	154	47	19	11	5	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	242
	64	83	91	95	97	98	99	99	83	50	33	33	17	17	17	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2675	877	406	200	119	71	37	30	20	13	8	6	3	3	1	2	1	0	1	1	0	0	0	0	1	4474

Table 2.7-78— CCNPP 197 Feet Wind Direction Persistence Summary for Year 2000
(Page 1 of 2)

	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	146	60	37	19	12	17	2	3	1	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	305
	48	68	80	86	90	95	96	97	97	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	
NNE	165	70	22	18	13	3	4	3	2	3	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	305
	54	77	84	90	94	95	97	98	98	99	100	10 0	100	100	100	0	0	0	0	0	0	0	0	0	0	
NE	141	53	25	8	4	2	0	0	0	1	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	237
	59	82	92	96	97	98	98	98	98	99	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	
ENE	115	42	15	12	2	5	3	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	199
	58	79	86	92	93	96	97	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E	103	30	9	5	2	4	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157
	66	85	90	94	95	97	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	77	21	9	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112
	69	88	96	96	97	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	96	29	21	5	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154
	62	81	95	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	112	35	28	19	4	11	5	2	3	1	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	224
2	50	66	78	87	88	93	96	96	98	98	99	10 0	100	100	100	100	0	0	0	0	0	0	0	0	0	
S	154	41	28	16	7	6	2	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	258

Table 2.7-78— CCNPP 197 Feet Wind Direction Persistence Summary for Year 2000
(Page 2 of 2)

	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
	60	76	86	93	95	98	98	98	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSW	174	65	34	20	14	6	3	10	3	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	333
	52	72	82	88	92	94	95	98	99	99	99	99	99	100	100	100	100	100	100	100	0	0	0	0	0	
SW	167	85	36	16	11	11	11	4	5	1	1	2	4	0	0	0	1	0	0	0	1	0	0	0	0	356
	47	71	81	85	88	92	95	96	97	97	98	98	99	99	99	99	100	100	100	100	100	0	0	0	0	
WSW	158	49	28	18	8	4	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	270
	59	77	87	94	97	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	128	43	20	11	7	4	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
	60	80	89	94	97	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	163	64	34	19	9	5	3	1	1	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	302
	54	75	86	93	96	97	98	99	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
NW	166	53	37	26	11	9	4	5	3	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	317
	52	69	81	89	92	95	97	98	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
NNW	160	54	27	22	10	4	2	3	4	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	291
	55	74	83	90	94	95	96	97	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	2225	794	410	235	117	92	44	37	28	15	13	7	8	3	1	3	1	0	0	1	1	0	0	0	0	4035

Table 2.7-79— CCNPP 197 Feet Wind Direction Persistence Summary for Year 2001
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	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	133	62	39	18	16	6	6	1	2	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	286
	47	68	82	88	94	96	98	98	99	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	
NNE	149	52	29	17	9	6	4	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	271
	55	74	85	91	94	97	98	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NE	136	34	20	9	4	3	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	210
	65	81	90	95	97	98	99	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	
ENE	122	32	17	7	1	4	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	185
	66	83	92	96	97	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E	125	44	16	5	2	2	1	1	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	200
	63	85	93	95	96	97	98	98	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	93	32	14	3	6	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151
	62	83	92	94	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	119	33	11	8	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	173
	69	88	94	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	118	43	35	27	15	6	5	5	1	1	1	1	0	2	0	0	0	0	0	0	1	0	0	0	0	261
	45	62	75	85	91	93	95	97	98	98	98	99	99	100	100	100	100	100	100	100	100	0	0	0	0	
S	176	51	33	19	9	12	4	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	308
	57	74	84	91	94	97	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.7-79— CCNPP 197 Feet Wind Direction Persistence Summary for Year 2001

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	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	174	72	43	35	17	13	5	3	4	3	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	372
	47	66	78	87	92	95	97	97	98	99	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	
SW	165	73	37	25	25	10	2	6	1	3	3	3	2	0	1	0	1	0	0	0	0	0	0	0	0	357
	46	67	77	84	91	94	94	96	96	97	98	99	99	99	100	100	100	0	0	0	0	0	0	0	0	
WSW	155	64	34	7	10	3	3	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	279
	56	78	91	93	97	98	99	99	99	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	
W	123	49	23	7	2	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	208
	59	83	94	97	98	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	139	39	23	10	2	7	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	225
	62	79	89	94	95	98	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NW	178	55	32	18	13	8	6	2	0	4	2	1	0	1	0	1	0	1	1	0	0	0	0	0	0	323
	55	72	82	88	92	94	96	97	97	98	98	99	99	99	99	99	99	100	100	0	0	0	0	0	0	
NNW	136	64	18	24	9	8	12	5	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	281
	48	71	78	86	89	92	96	98	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	2241	799	424	239	141	90	52	40	12	21	7	9	2	4	4	1	1	1	1	0	1	0	0	0	0	4090

Table 2.7-80— CCNPP 197 Feet Wind Direction Persistence Summary for Year 2002
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	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	125	61	42	30	14	7	5	1	4	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	292
	43	64	78	88	93	96	97	98	99	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	
NNE	149	62	30	18	13	11	5	3	5	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	299
	50	71	81	87	91	95	96	97	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
NE	139	51	20	6	5	2	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	231
	60	82	91	94	96	97	97	97	98	98	98	99	99	100	100	100	100	100	100	100	100	100	0	0	0	
ENE	124	24	13	5	4	2	2	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	177
	70	84	91	94	96	97	98	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
E	81	34	13	4	2	1	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	139
	58	83	92	95	96	97	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	86	28	13	3	1	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135
	64	84	94	96	97	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	101	36	11	10	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	162
	62	85	91	98	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	94	50	26	17	11	9	5	3	2	5	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	226
	42	64	75	83	88	92	94	95	96	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
S	126	57	39	21	10	9	1	3	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	269
	47	68	83	90	94	97	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.7-80— CCNPP 197 Feet Wind Direction Persistence Summary for Year 2002
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	DIRECTION PERSISTENCE (HOURS)/PERCENT																									
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	153	78	53	26	15	8	5	1	5	2	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	349
	44	66	81	89	93	95	97	97	99	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	
SW	163	60	34	36	16	4	5	7	5	5	4	3	2	0	0	0	2	1	0	0	0	0	0	0	1	348
	47	64	74	84	89	90	91	93	95	96	97	98	99	99	99	99	99	100	100	100	100	100	100	100	100	
WSW	164	52	16	9	11	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	263
	62	82	88	92	96	98	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	126	33	22	11	2	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
	64	81	92	97	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	147	50	18	15	12	4	3	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	254
	58	78	85	91	95	97	98	98	99	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	
NW	145	57	30	14	13	7	7	1	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	280
	52	72	83	88	93	95	98	98	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NNW	114	50	36	18	18	7	7	0	6	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	260
	44	63	77	84	91	93	96	96	98	99	99	99	99	100	100	100	0	0	0	0	0	0	0	0	0	
TOTAL	2037	783	416	243	148	83	52	25	34	20	14	11	4	5	0	1	2	1	0	0	0	1	0	0	1	3881

Table 2.7-81— CCNPP 197 Feet Wind Direction Persistence Summary for Year 2003

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	DIRECTION PERSISTENCE (HOURS)/PERCENT																									
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	124	61	39	15	13	13	8	8	2	1	3	0	0	0	0	2	0	0	1	0	0	0	0	0	0	290
	43	64	77	82	87	91	94	97	98	98	99	99	99	99	99	100	100	100	100	0	0	0	0	0	0	
NNE	161	65	36	20	4	8	2	1	1	3	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	305
	53	74	86	92	94	96	97	97	98	99	99	100	100	100	100	100	100	100	100	0	0	0	0	0	0	
NE	137	50	22	8	5	3	3	3	1	4	2	1	1	0	1	0	0	0	1	0	0	0	0	0	0	242
	57	77	86	90	92	93	94	95	96	98	98	99	99	99	100	100	100	100	100	0	0	0	0	0	0	
ENE	138	34	12	4	4	1	6	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	202
	68	85	91	93	95	96	99	99	99	99	99	99	99	99	99	99	100	100	100	0	0	0	0	0	0	
E	99	26	14	13	0	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	156
	63	80	89	97	97	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	99	30	14	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	149
	66	87	96	97	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	134	42	14	10	3	3	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	209
	64	84	91	96	97	99	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	124	56	37	15	16	5	5	5	1	3	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	271
	46	66	80	86	92	93	95	97	97	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	
S	162	54	32	21	12	8	1	1	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	295
	55	73	84	91	95	98	98	99	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	

Table 2.7-81— CCNPP 197 Feet Wind Direction Persistence Summary for Year 2003
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	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**GT.24**	**TOTAL**
SSW	159	58	28	21	9	11	7	2	4	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	302
	53	72	81	88	91	95	97	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
SW	177	75	22	26	6	7	7	9	3	3	2	1	0	1	1	0	0	0	0	0	0	0	0	0	0	340
	52	74	81	88	90	92	94	97	98	99	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	
WSW	146	48	23	12	4	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	239
	61	81	91	96	97	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	141	47	22	6	5	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	223
	63	84	94	97	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	145	65	22	17	4	4	2	0	4	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	267
	54	79	87	93	95	96	97	97	99	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	
NW	138	62	39	17	7	14	2	1	3	2	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	290
	48	69	82	88	91	96	96	97	98	98	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	
NNW	122	58	20	14	8	6	6	1	2	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	240
	51	75	83	89	93	95	98	98	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	2206	831	396	220	102	91	56	32	26	18	16	8	4	5	2	2	1	0	4	0	0	0	0	0	0	4020

Table 2.7-82— CCNPP 197 Feet Wind Direction Persistence Summary for Year 2004

(Page 1 of 2)

	DIRECTION PERSISTENCE (HOURS)/PERCENT																									
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	145	49	37	21	23	10	6	5	2	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	301
	48	64	77	84	91	95	97	98	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
NNE	156	59	21	14	12	4	7	3	2	0	0	2	0	0	0	1	2	0	0	0	0	0	1	0	0	284
	55	76	83	88	92	94	96	97	98	98	98	99	99	99	99	99	100	100	100	100	100	100	100	0	0	
NE	133	44	23	16	3	0	1	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	223
	60	79	90	97	98	98	99	99	99	99	99	100	100	100	100	100	100	100	100	100	0	0	0	0	0	
ENE	129	37	17	11	5	4	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	205
	63	81	89	95	97	99	99	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
E	115	30	9	12	3	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	173
	66	84	89	96	98	98	98	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	111	30	10	5	4	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	165
	67	85	92	95	97	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	134	36	18	8	6	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	208
	64	82	90	94	97	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	131	46	36	20	9	7	6	1	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	263
	50	67	81	89	92	95	97	97	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
S	159	62	35	11	14	8	2	3	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	297
	54	74	86	90	95	97	98	99	99	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	

Table 2.7-82— CCNPP 197 Feet Wind Direction Persistence Summary for Year 2004

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	DIRECTION PERSISTENCE (HOURS)/PERCENT																									
SECTOR	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**GT.24**	**TOTAL**
SSW	192	77	52	25	11	8	7	6	3	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	384
	50	70	84	90	93	95	97	98	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
SW	179	74	41	22	12	5	5	7	4	4	4	0	1	1	0	0	1	1	0	0	0	0	0	0	0	361
	50	70	81	88	91	92	94	96	97	98	99	99	99	99	99	99	100	100	0	0	0	0	0	0	0	
WSW	157	44	22	11	7	4	1	1	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	251
	63	80	89	93	96	98	98	98	99	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	
W	152	45	22	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	222
	68	89	99	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	157	50	21	8	9	2	0	0	1	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	252
	62	82	90	94	97	98	98	98	98	98	99	99	100	100	100	100	100	100	100	0	0	0	0	0	0	
NW	145	55	30	16	15	6	4	4	1	1	1	1	0	0	0	0	0	1	1	0	1	0	0	0	1	283
	51	71	81	87	92	94	96	97	98	98	98	99	99	99	99	99	99	99	99	99	100	100	100	100	100	
NNW	135	58	26	10	8	10	4	1	2	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	258
	52	75	85	89	92	96	97	98	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	2330	796	420	211	142	73	47	38	22	14	7	9	5	1	1	1	3	2	3	1	1	0	1	1	1	4130

Table 2.7-83— CCNPP 197 Feet Wind Direction Persistence Summary for Year 2005
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	DIRECTION PERSISTENCE (HOURS)/PERCENT																									
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	134	69	43	19	17	7	13	2	1	0	3	1	0	0	0	0	0	0	0	0	1	0	0	0	0	310
	43	65	79	85	91	93	97	98	98	98	99	100	100	100	100	100	100	100	100	100	100	0	0	0	0	
NNE	158	66	33	19	13	13	4	4	1	2	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	318
	50	70	81	87	91	95	96	97	98	98	99	99	100	0	0	0	0	0	0	0	0	0	0	0	0	
NE	147	46	17	11	4	6	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	235
	63	82	89	94	96	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENE	131	56	10	7	2	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	211
	62	89	93	97	98	99	99	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	
E	129	38	14	12	7	5	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	209
	62	80	87	92	96	98	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	115	39	14	3	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	176
	65	88	95	97	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SE	143	48	19	7	3	0	0	1	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	225
	64	85	93	96	98	98	98	98	99	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	
SSE	143	59	35	15	14	7	5	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	284
	50	71	83	89	94	96	98	99	99	99	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
S	154	45	29	16	11	10	3	4	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	275
	56	72	83	89	93	96	97	99	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	

Table 2.7-83— CCNPP 197 Feet Wind Direction Persistence Summary for Year 2005
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	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	152	65	38	18	12	7	3	2	1	2	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	304
	50	71	84	90	94	96	97	98	98	99	99	99	99	99	100	0	0	0	0	0	0	0	0	0	0	
SW	167	64	34	15	15	8	5	3	3	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	317
	53	73	84	88	93	96	97	98	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
WSW	152	46	31	15	12	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	263
	58	75	87	93	97	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	133	48	19	6	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	212
	63	85	94	97	97	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WNW	182	45	16	10	9	3	3	1	2	1	0	1	0	0	2	0	0	0	0	1	0	0	0	0	1	277
	66	82	88	91	95	96	97	97	98	98	98	99	99	99	99	99	99	99	99	100	100	100	100	100	100	
NW	161	50	30	19	11	5	5	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	285
	56	74	85	91	95	97	99	99	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	
NNW	144	40	24	12	11	5	2	4	2	1	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	250
	58	74	83	88	92	94	95	97	98	98	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	
TOTAL	2345	824	406	204	145	85	53	30	16	12	9	5	4	2	4	1	2	0	0	1	1	0	0	0	2	4151

Table 2.7-84— CCNPP 197 Feet Average Wind Direction Persistence Summary for Years 2000-2005

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	DIRECTION PERSISTENCE (HOURS)/PERCENT																									
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
N	135	60	40	20	16	10	7	3	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	297
	45	66	79	86	91	94	97	98	98	99	99	100	100	83	50	33	33	33	33	17	17	0	0	0	0	0
NNE	156	62	29	18	11	8	4	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	297
	53	74	83	89	93	95	97	98	99	99	83	83	67	50	50	33	33	33	33	17	17	17	17	0	0	0
NE	139	46	21	10	4	3	2	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	230
	61	81	90	94	96	97	98	98	82	82	82	83	83	83	67	67	50	50	50	33	17	17	0	0	0	0
ENE	127	38	14	8	3	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
	65	84	90	95	96	98	99	100	83	83	83	67	33	33	17	17	17	17	17	0	0	0	0	0	0	0
E	109	34	13	9	3	3	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
	63	83	90	95	96	98	99	99	83	66	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	97	30	12	3	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148
	66	86	94	96	98	99	83	66	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	121	37	16	8	3	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	189
	64	84	92	97	98	99	99	100	50	33	33	33	17	17	17	17	17	0	0	0	0	0	0	0	0	0
SSE	120	48	33	19	12	8	5	3	2	2	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	255
	47	66	79	87	91	94	96	97	98	99	99	100	83	83	67	67	50	50	50	50	50	33	33	33	17	0
S	155	52	33	17	11	9	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	284
	55	73	84	91	94	97	98	99	100	100	67	50	50	33	17	0	0	0	0	0	0	0	0	0	0	0

Table 2.7-84— CCNPP 197 Feet Average Wind Direction Persistence Summary for Years 2000-2005

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	DIRECTION PERSISTENCE (HOURS)/PERCENT																								
SECTOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
SSW	167	69	41	24	13	9	5	4	3	2	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	341
	49	70	82	89	93	95	97	98	99	99	99	100	83	67	50	17	17	17	17	17	0	0	0	0	0	0
SW	170	72	34	23	14	8	6	6	4	3	2	2	2	0	0	0	1	0	0	0	0	0	0	0	0	347
	49	70	80	86	90	93	94	96	97	98	99	99	83	83	83	66	67	50	33	33	33	17	17	17	17	0
WSW	155	51	26	12	9	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261
	60	79	89	94	97	98	99	66	66	33	33	33	33	33	33	17	17	17	17	0	0	0	0	0	0	0
W	134	44	21	7	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	213
	63	84	94	97	98	99	100	67	33	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	156	52	22	13	8	4	2	1	2	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	263
	59	79	88	93	96	97	98	98	99	99	83	83	83	67	33	33	33	33	33	17	17	17	17	17	17	0
NW	156	55	33	18	12	8	5	3	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	296
	52	71	82	89	93	95	97	98	98	99	99	83	83	66	50	50	50	33	33	17	17	17	17	17	17	0
NNW	135	54	25	17	11	7	6	2	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	263
	51	72	82	88	92	94	96	97	98	99	100	83	67	33	33	33	0	0	0	0	0	0	0	0	0	0
TOTAL	2231	805	412	225	133	86	51	34	23	17	11	8	5	3	2	2	2	1	1	1	1	0	0	0	1	4051

Table 2.7-85— CCNPP 33 Feet Annual Stability Persistence Summary for Year 2000

	STABILITY PERSISTENCE (HOURS)/PERCENT																								
STABILITY	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**GT.24**	**TOTAL**
A	113	62	35	39	28	26	19	8	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	334
	34	52	63	75	83	91	96	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	302	49	11	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
	83	96	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	300	55	12	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	371
	81	96	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	381	198	68	44	27	16	3	8	9	8	11	7	8	5	7	7	4	4	1	4	0	1	2	3	9	835
	46	69	77	83	86	88	88	89	90	91	93	93	94	95	96	97	97	98	98	98	98	98	99	99	100	
E	273	133	70	47	32	30	23	20	11	19	8	11	6	5	1	3	0	1	0	0	0	0	0	0	0	693
	39	59	69	75	80	84	88	91	92	95	96	98	99	99	99	100	100	100	0	0	0	0	0	0	0	
F	204	73	44	17	13	11	4	2	3	0	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	375
	54	74	86	90	94	97	98	98	99	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	
G	58	27	21	12	9	14	3	4	3	7	2	1	2	3	2	0	0	0	0	0	0	0	0	0	0	168
	35	51	63	70	76	84	86	88	90	94	95	96	97	99	100	0	0	0	0	0	0	0	0	0	0	
TOTAL	1631	597	261	163	109	99	52	42	29	35	23	19	17	14	10	10	4	5	1	4	0	1	2	3	9	3140

Table 2.7-86— CCNPP 33 Feet Annual Stability Persistence Summary for Year 2001

	STABILITY PERSISTENCE (HOURS)/PERCENT																								
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	129	65	34	29	40	34	32	20	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	392
	33	49	58	66	76	84	93	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	305	46	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	363
	84	97	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	288	47	10	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	347
	83	97	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	373	193	81	37	23	18	12	8	12	5	7	8	5	3	7	2	4	2	4	4	0	2	0	0	5	815
	46	69	79	84	87	89	90	91	93	93	94	95	96	96	97	97	98	98	99	99	99	99	99	99	100	
E	310	130	78	48	36	28	15	12	13	9	7	6	8	7	2	3	0	0	0	0	0	0	0	0	0	712
	44	62	73	79	85	88	91	92	94	95	96	97	98	99	100	100	0	0	0	0	0	0	0	0	0	
F	262	102	39	33	15	14	7	4	2	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	482
	54	76	84	90	94	96	98	99	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
G	79	35	23	19	11	7	9	5	4	6	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	209
	38	55	66	75	80	83	88	90	92	95	97	98	99	100	100	0	0	0	0	0	0	0	0	0	0	
TOTAL	1746	618	275	169	126	101	75	49	38	24	19	17	16	11	10	5	4	2	4	4	0	2	0	0	5	3320

Table 2.7-87— CCNPP 33 Feet Annual Stability Persistence Summary for Year 2002

	STABILITY PERSISTENCE (HOURS)/PERCENT																								
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	101	53	36	40	25	26	34	12	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	332
	30	46	57	69	77	85	95	98	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	275	47	8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	331
	83	97	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	264	62	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	336
	79	97	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	348	186	99	32	26	17	16	10	9	7	7	3	5	6	1	3	3	2	1	3	1	1	1	0	13	800
	44	67	79	83	86	89	91	92	93	94	95	95	96	96	97	97	97	98	98	98	98	98	98	98	100	
E	291	126	61	47	42	28	22	28	12	8	9	12	8	3	4	4	0	0	0	0	0	1	0	0	0	706
	41	59	68	74	80	84	87	91	93	94	95	97	98	99	99	100	100	100	100	100	100	100	0	0	0	
F	217	84	40	34	25	8	7	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	420
	52	72	81	89	95	97	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	75	32	26	14	10	8	5	4	2	4	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	183
	41	58	73	80	86	90	93	95	96	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	1571	590	278	169	129	87	84	54	28	22	20	15	13	10	5	7	3	2	1	3	1	2	1	0	13	3108

Table 2.7-88— CCNPP 33 Feet Annual Stability Persistence Summary for Year 2003

	STABILITY PERSISTENCE (HOURS)/PERCENT																								
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	100	50	26	29	25	12	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	251
	40	60	70	82	92	96	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	207	47	15	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	272
	76	93	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	287	49	10	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	348
	82	97	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	314	190	101	44	36	27	19	12	14	3	4	8	2	3	3	7	7	2	1	3	1	1	4	0	10	816
	38	62	74	80	84	87	90	91	93	93	94	95	95	95	96	96	97	98	98	98	98	98	99	99	100	
E	285	140	69	42	48	31	17	20	11	11	11	14	6	5	3	7	0	1	0	1	0	0	0	0	0	722
	39	59	68	74	81	85	88	90	92	93	95	97	98	98	99	100	100	100	100	100	0	0	0	0	0	
F	198	85	58	23	13	8	6	3	1	3	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	403
	49	70	85	90	94	96	97	98	98	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
G	73	31	17	16	12	9	4	2	2	4	4	2	1	1	1	0	0	0	0	0	0	0	0	0	0	179
	41	58	68	77	83	88	91	92	93	95	97	98	99	99	100	0	0	0	0	0	0	0	0	0	0	
TOTAL	1464	592	296	158	135	87	52	40	28	21	22	25	10	9	7	14	7	3	1	4	1	1	4	0	10	2991

Table 2.7-89— CCNPP 33 Feet Annual Stability Persistence Summary for Year 2004

	STABILITY PERSISTENCE (HOURS)/PERCENT																								
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	106	46	35	22	25	24	21	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	285
	37	53	66	73	82	91	98	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	226	63	7	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	298
	76	97	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	284	51	9	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	348
	82	96	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	289	191	103	52	30	24	18	28	10	13	12	6	5	3	7	2	5	4	2	1	2	3	0	3	12	825
	35	58	71	77	81	84	86	89	90	92	93	94	95	95	96	96	97	97	97	98	98	98	98	99	100	
E	267	103	91	56	33	35	25	23	11	10	10	8	6	5	2	0	0	0	0	0	0	0	0	0	0	685
	39	54	67	75	80	85	89	92	94	95	97	98	99	100	100	0	0	0	0	0	0	0	0	0	0	
F	196	81	44	28	16	7	1	2	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	381
	51	73	84	92	96	98	98	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	52	34	11	14	10	3	6	5	1	2	4	0	4	2	1	0	0	0	0	0	0	0	0	0	0	149
	35	58	65	74	81	83	87	91	91	93	95	95	98	99	100	0	0	0	0	0	0	0	0	0	0	
TOTAL	1420	569	300	176	114	95	71	63	27	26	27	14	15	10	10	2	5	4	2	1	2	3	0	3	12	2971

Table 2.7-90— CCNPP 33 Feet Annual Stability Persistence Summary for Year 2005

	STABILITY PERSISTENCE (HOURS)/PERCENT																								
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	101	42	30	13	18	20	21	27	11	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	285
	35	50	61	65	72	79	86	95	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	215	47	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	272
	79	96	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	273	54	15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	343
	80	95	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	294	159	109	48	36	27	19	11	14	8	8	5	6	5	2	6	3	4	8	4	1	0	0	3	7	787
	37	58	71	78	82	86	88	89	91	92	93	94	95	95	95	96	97	97	98	99	99	99	99	99	100	
E	309	98	65	52	37	26	20	16	8	11	5	14	2	6	5	0	1	0	0	0	0	0	0	0	0	675
	46	60	70	78	83	87	90	92	93	95	96	98	98	99	100	100	100	0	0	0	0	0	0	0	0	
F	203	86	44	32	13	10	8	4	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	405
	50	71	82	90	93	96	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	70	19	21	20	4	12	9	6	1	1	5	6	2	4	1	0	0	0	0	0	0	0	0	0	0	181
	39	49	61	72	74	81	86	89	90	90	93	96	97	99	100	0	0	0	0	0	0	0	0	0	0	
TOTAL	1465	505	292	168	108	95	77	64	36	23	19	26	10	15	8	6	4	4	8	4	1	0	0	3	7	2948

Table 2.7-91— CCNPP 33 Feet Annual Stability Persistence Summary for Years 2000-2005

	STABILITY PERSISTENCE (HOURS)/PERCENT																								
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	108	53	33	29	27	24	22	13	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	313
	35	52	63	72	80	88	95	98	83	50	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	255	50	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	317
	80	96	99	100	50	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C	283	53	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	349
	81	96	99	100	67	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D	333	186	94	43	30	22	15	13	11	7	8	6	5	4	5	5	4	3	3	3	1	1	1	2	9	813
	41	64	75	81	84	87	89	90	92	93	94	94	95	95	96	97	97	98	98	98	98	98	99	99	100	0
E	289	122	72	49	38	30	20	20	11	11	8	11	6	5	3	3	0	0	0	0	0	0	0	0	0	699
	41	59	69	76	82	86	89	91	93	95	96	98	98	99	100	83	67	50	33	33	17	17	0	0	0	0
F	213	85	45	28	16	10	6	3	2	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	411
	52	73	84	90	94	97	98	99	99	100	100	50	50	17	0	0	0	0	0	0	0	0	0	0	0	0
G	68	30	20	16	9	9	6	4	2	4	4	2	2	2	1	0	0	0	0	0	0	0	0	0	0	178
	38	55	66	75	80	85	89	91	92	94	96	97	98	99	83	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1550	579	284	167	120	94	69	52	31	25	22	19	14	12	8	7	5	3	3	3	1	2	1	2	9	3080

Table 2.7-92— CCNPP 197 Feet Annual Stability Persistence Summary for Year 2000

	STABILITY PERSISTENCE (HOURS)/PERCENT																									
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	113	62	36	39	28	26	19	8	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	335
	34	52	63	75	83	91	96	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	304	49	11	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366
	83	96	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	300	55	12	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	371
	81	96	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	383	197	68	42	26	16	3	9	9	8	11	7	8	5	7	7	4	4	1	4	0	1	2	3	9	834
	46	70	78	83	86	88	88	89	90	91	93	93	94	95	96	97	97	98	98	98	98	98	99	99	100	
E	273	131	71	45	30	30	23	20	11	19	8	11	6	5	2	3	0	1	0	0	0	0	0	0	0	689
	40	59	69	75	80	84	88	90	92	95	96	98	98	99	99	100	100	100	0	0	0	0	0	0	0	
F	204	73	44	17	13	11	4	2	3	0	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	375
	54	74	86	90	94	97	98	98	99	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	
G	57	27	21	12	9	14	3	4	3	7	2	1	2	3	2	0	0	0	0	0	0	0	0	0	0	167
	34	50	63	70	75	84	86	88	90	94	95	96	97	99	100	0	0	0	0	0	0	0	0	0	0	
TOTAL	1634	594	263	159	106	99	52	43	29	35	23	19	17	14	11	10	4	5	1	4	0	1	2	3	9	3137

Table 2.7-93— CCNPP 197 Feet Annual Stability Persistence Summary for Year 2001

	STABILITY PERSISTENCE (HOURS)/PERCENT																									
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	130	65	34	29	40	34	32	20	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	393
	33	50	58	66	76	84	93	98	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	305	46	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	363
	84	97	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	288	47	10	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	347
	83	97	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	375	194	80	37	23	18	12	8	12	5	7	8	5	3	7	2	4	2	4	4	0	2	0	0	5	817
	46	70	79	84	87	89	90	91	93	94	94	95	96	96	97	97	98	98	99	99	99	99	99	99	100	
E	310	131	78	48	36	28	15	12	13	9	7	6	8	8	2	3	0	0	0	0	0	0	0	0	0	714
	43	62	73	79	84	88	90	92	94	95	96	97	98	99	100	100	0	0	0	0	0	0	0	0	0	
F	262	102	39	33	15	14	7	4	2	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	482
	54	76	84	90	94	96	98	99	99	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
G	77	36	24	19	11	7	9	5	5	6	4	2	2	1	1	0	0	0	0	0	0	0	0	0	0	209
	37	54	66	75	80	83	88	90	92	95	97	98	99	100	100	0	0	0	0	0	0	0	0	0	0	
TOTAL	1747	621	275	169	126	101	75	49	39	24	19	16	16	12	10	5	4	2	4	4	0	2	0	0	5	3325

Table 2.7-94— CCNPP 197 Feet Annual Stability Persistence Summary for Year 2002

	STABILITY PERSISTENCE (HOURS)/PERCENT																								
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	100	53	36	40	27	27	33	14	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	335
	30	46	56	68	76	84	94	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	281	47	8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	337
	83	97	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	270	62	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	342
	79	97	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	352	189	98	32	26	17	15	10	9	8	7	3	5	6	1	3	3	3	1	3	1	1	1	0	13	807
	44	67	79	83	86	88	90	92	93	94	95	95	96	96	96	97	97	98	98	98	98	98	98	98	100	
E	287	127	59	47	44	28	22	29	12	9	9	12	8	3	4	4	0	0	0	0	0	1	0	0	0	705
	41	59	67	74	80	84	87	91	93	94	95	97	98	99	99	100	100	100	100	100	100	100	0	0	0	
F	219	83	41	32	25	8	7	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	420
	52	72	82	89	95	97	99	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	71	32	26	15	10	10	4	5	2	4	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	183
	39	56	70	79	84	90	92	95	96	98	99	99	99	100	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	1580	593	276	168	133	90	81	58	28	24	21	15	13	10	5	7	3	3	1	3	1	2	1	0	13	3129

Table 2.7-95— CCNPP 197 Feet Annual Stability Persistence Summary for Year 2003

	STABILITY PERSISTENCE (HOURS)/PERCENT																								
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	100	50	26	29	25	12	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	251
	40	60	70	82	92	96	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	208	47	15	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	273
	76	93	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	289	49	10	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	350
	83	97	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	310	190	99	46	36	27	19	12	14	3	4	8	2	3	3	7	7	2	1	3	1	1	4	0	10	812
	38	62	74	79	84	87	90	91	93	93	94	95	95	95	96	96	97	98	98	98	98	98	99	99	100	
E	287	137	69	41	47	30	17	20	11	11	11	15	6	5	3	7	0	1	0	0	0	0	0	0	0	718
	40	59	69	74	81	85	87	90	92	93	95	97	98	98	99	100	100	100	0	0	0	0	0	0	0	
F	194	83	58	23	13	7	6	3	1	2	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	396
	49	70	85	90	94	95	97	98	98	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	
G	71	32	17	16	12	9	4	2	2	4	4	2	1	1	1	0	0	0	0	0	0	0	0	0	0	178
	40	58	67	76	83	88	90	92	93	95	97	98	99	99	100	0	0	0	0	0	0	0	0	0	0	
TOTAL	1459	588	294	159	134	85	52	40	28	20	23	26	10	9	7	14	7	3	1	3	1	1	4	0	10	2978

Table 2.7-96— CCNPP 197 Feet Annual Stability Persistence Summary for Year 2004

	STABILITY PERSISTENCE (HOURS)/PERCENT																									
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	106	46	35	21	25	24	21	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	284
	37	54	66	73	82	90	98	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	225	63	7	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	297
	76	97	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	284	51	9	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	348
	82	96	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	289	191	104	52	30	24	18	28	10	13	12	6	5	3	7	2	4	4	3	1	2	3	0	3	12	826
	35	58	71	77	81	84	86	89	90	92	93	94	95	95	96	96	97	97	97	98	98	98	98	99	100	
E	267	105	91	56	33	35	25	23	11	10	10	8	6	5	2	0	0	0	0	0	0	0	0	0	0	687
	39	54	67	76	80	85	89	92	94	95	97	98	99	100	100	0	0	0	0	0	0	0	0	0	0	
F	197	82	44	28	15	7	1	2	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	382
	52	73	85	92	96	98	98	98	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	53	34	11	13	10	3	6	5	1	2	4	0	4	2	1	0	0	0	0	0	0	0	0	0	0	149
	36	58	66	74	81	83	87	91	91	93	95	95	98	99	100	0	0	0	0	0	0	0	0	0	0	
TOTAL	1421	572	301	174	113	95	71	63	27	26	27	14	15	10	10	2	4	4	3	1	2	3	0	3	12	2973

Table 2.7-97— CCNPP 197 Feet Annual Stability Persistence Summary for Year 2005

	STABILITY PERSISTENCE (HOURS)/PERCENT																									
STABILITY	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**GT.24**	**TOTAL**
A	101	42	30	13	18	20	21	27	11	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	285
	35	50	61	65	72	79	86	95	99	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
B	214	47	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	271
	79	96	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	273	54	15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	343
	80	95	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	293	158	109	48	37	24	19	11	14	9	9	5	7	4	2	6	3	4	8	4	1	0	0	3	7	785
	37	57	71	77	82	85	88	89	91	92	93	94	95	95	95	96	97	97	98	99	99	99	99	99	100	
E	308	98	65	52	37	26	20	16	8	11	5	14	2	7	5	0	1	0	0	0	0	0	0	0	0	675
	46	60	70	77	83	87	90	92	93	95	96	98	98	99	100	100	100	0	0	0	0	0	0	0	0	
F	205	86	45	32	13	10	8	4	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	408
	50	71	82	90	93	96	98	99	99	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	73	19	21	20	4	12	9	6	1	1	5	6	2	4	1	0	0	0	0	0	0	0	0	0	0	184
	40	50	61	72	74	81	86	89	90	90	93	96	97	99	100	0	0	0	0	0	0	0	0	0	0	
TOTAL	1467	504	293	168	109	92	77	64	36	24	20	26	11	15	8	6	4	4	8	4	1	0	0	3	7	2951

Table 2.7-98— CCNPP 197 Feet Annual Stability Persistence Summary for Years 2000-2005

	STABILITY PERSISTENCE (HOURS)/PERCENT																								
STABILITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	GT.24	TOTAL
A	108	53	33	29	27	24	22	13	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	314
	35	52	62	72	80	87	94	99	83	50	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	256	50	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	318
	80	96	99	100	50	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C	284	53	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	350
	81	96	99	100	67	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D	334	187	93	43	30	21	14	13	11	8	8	6	5	4	5	5	4	3	3	3	1	1	1	2	9	814
	41	64	75	81	84	87	89	90	92	93	94	94	95	95	96	97	97	98	98	98	98	98	99	99	100	0
E	289	122	72	48	38	30	20	20	11	12	8	11	6	6	3	3	0	0	0	0	0	0	0	0	0	698
	42	59	69	76	81	86	89	91	93	95	96	98	98	99	100	83	67	50	17	17	17	17	0	0	0	0
F	214	85	45	28	16	10	6	3	2	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	411
	52	73	84	90	94	97	98	99	99	100	100	50	50	17	0	0	0	0	0	0	0	0	0	0	0	0
G	67	30	20	16	9	9	6	5	2	4	4	2	2	2	1	0	0	0	0	0	0	0	0	0	0	178
	38	54	66	74	80	85	88	91	92	94	96	97	98	99	83	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1551	579	284	166	120	94	68	53	31	26	22	19	14	12	9	7	4	4	3	3	1	2	1	2	9	3082

Table 2.7-99— Normal Effluent Annual Average, Undecayed, Undepleted χ/Q Values for Mixed Mode Release with Building Wake from 0.5 to 5 Miles with Site Boundary Values

Downwind Sector	χ/Q (sec/m^3) Site Boundary	χ/Q (sec/m^3) 0.5 miles	χ/Q (sec/m^3) 0.75 miles	χ/Q (sec/m^3) 1.0 mile	χ/Q (sec/m^3) 1.5 miles	χ/Q (sec/m^3) 2.0 miles	χ/Q (sec/m^3) 2.5 miles	χ/Q (sec/m^3) 3.0 miles	χ/Q (sec/m^3) 3.5 miles	χ/Q (sec/m^3) 4.0 miles	χ/Q (sec/m^3) 4.5 miles	χ/Q (sec/m^3) 5.0 miles
N	2.885E-06	1.923E-06	1.065E-06	5.811E-07	2.571E-07	1.538E-07	1.055E-07	8.046E-08	6.401E-08	5.261E-08	4.482E-08	3.881E-08
NNE	9.558E-06	3.287E-06	1.754E-06	9.348E-07	3.980E-07	2.333E-07	1.584E-07	1.201E-07	9.528E-08	7.821E-08	6.663E-08	5.773E-08
NE	1.379E-05	5.039E-06	2.711E-06	1.443E-06	6.059E-07	3.491E-07	2.334E-07	1.748E-07	1.372E-07	1.117E-07	9.446E-08	8.134E-08
ENE	4.991E-06	2.038E-06	1.090E-06	5.855E-07	2.525E-07	1.491E-07	1.017E-07	7.731E-08	6.142E-08	5.048E-08	4.303E-08	3.731E-08
E	2.778E-06	1.516E-06	8.448E-07	4.715E-07	2.135E-07	1.287E-07	8.848E-08	6.751E-08	5.374E-08	4.421E-08	3.773E-08	3.273E-08
ESE	2.486E-06	1.987E-06	1.123E-06	6.238E-07	2.761E-07	1.627E-07	1.099E-07	8.269E-08	6.509E-08	5.305E-08	4.489E-08	3.866E-08
SE	1.076E-06	2.416E-06	1.464E-06	8.347E-07	3.833E-07	2.214E-07	1.458E-07	1.072E-07	8.261E-08	6.606E-08	5.495E-08	4.660E-08
SSE	5.252E-07	1.381E-06	8.911E-07	5.240E-07	2.393E-07	1.396E-07	9.489E-08	6.969E-08	5.363E-08	4.280E-08	3.554E-08	3.008E-08
S	8.681E-07	1.815E-06	1.127E-06	6.501E-07	3.095E-07	1.771E-07	1.155E-07	8.420E-08	6.481E-08	5.148E-08	4.256E-08	3.589E-08
SSW	8.366E-07	1.599E-06	1.050E-06	6.224E-07	2.824E-07	1.628E-07	1.066E-07	7.786E-08	5.963E-08	4.741E-08	3.922E-08	3.308E-08
SW	4.960E-07	1.557E-06	1.013E-06	5.897E-07	2.619E-07	1.496E-07	9.750E-08	7.102E-08	5.432E-08	4.314E-08	3.568E-08	3.009E-08
WSW	3.802E-07	1.053E-06	7.219E-07	4.396E-07	2.056E-07	1.204E-07	7.956E-08	5.843E-08	4.492E-08	3.580E-08	2.968E- 08	2.508E-08
W	2.914E-07	6.742E-07	5.085E-07	3.282E-07	1.627E-07	9.803E-08	6.584E-08	4.888E-08	3.787E-08	3.036E-08	2.528E-08	2.143E-08
WNW	1.127E-07	4.529E-07	3.122E-07	2.012E-07	1.108E-07	6.956E-08	4.823E-08	3.671E-08	2.902E-08	2.365E-08	2.079E-08	1.781E-08
NW	2.545E-07	6.608E-07	4.337E-07	2.685E-07	1.399E-07	8.563E-08	5.846E-08	4.403E-08	3.454E-08	2.799E-08	2.353E-08	2.012E-08
NNW	1.699E-06	1.586E-06	9.808E-07	5.737E-07	2.658E-07	1.580E-07	1.062E-07	7.933E-08	6.190E-08	4.999E-08	4.193E-08	3.580E-08

Table 2.7-100— Normal Effluent Annual Average, Undecayed, Undepleted χ/Q Values for Mixed Mode Release With Building Wake from 7.5 to 50 Miles

Downwind Sector	χ/Q (sec/m^3) 7.5 miles	χ/Q (sec/m^3) 10 miles	χ/Q (sec/m^3) 15 mile	χ/Q (sec/m^3) 20 miles	χ/Q (sec/m^3) 25 miles	χ/Q (sec/m^3) 30 miles	χ/Q (sec/m^3) 35 miles	χ/Q (sec/m^3) 40 miles	χ/Q (sec/m^3) 45 miles	χ/Q (sec/m^3) 50 miles
N	2.217E-08	1.608E-08	1.013E-08	7.265E-09	5.602E-09	4.526E-09	3.937E-09	3.363E-09	2.926E-09	2.584E-09
NNE	3.321E-08	2.429E-08	1.555E-08	1.129E-08	8.797E-09	7.170E-09	6.090E-09	5.239E-09	4.773E-09	4.236E-09
NE	4.586E-08	3.318E-08	2.099E-08	1.515E-08	1.236E-08	1.005E-08	8.434E-09	7.247E-09	6.340E-09	5.625E-09
ENE	2.152E-08	1.580E-08	1.018E-08	7.445E-09	6.198E-09	5.078E-09	4.290E-09	3.706E-09	3.258E-09	2.903E-09
E	1.892E-08	1.390E-08	8.963E-09	6.547E-09	5.263E-09	4.304E-09	3.629E-09	3.129E-09	2.746E-09	2.443E-09
ESE	2.176E-08	1.570E-08	9.870E-09	7.089E-09	5.615E-09	4.546E-09	3.802E-09	3.257E-09	2.841E-09	2.514E-09
SE	2.468E-08	1.706E-08	1.011E-08	6.975E-09	5.294E-09	4.183E-09	3.429E-09	2.888E-09	2.482E-09	2.169E-09
SSE	1.578E-08	1.081E-08	6.328E-09	4.322E-09	3.249E-09	2.550E-09	2.079E-09	1.743E-09	1.492E-09	1.299E-09
S	1.862E-08	1.270E-08	7.407E-09	5.053E-09	3.791E-09	2.977E-09	2.429E-09	2.037E-09	1.746E-09	1.522E-09
SSW	1.716E-08	1.170E-08	6.808E-09	4.636E-09	3.470E-09	2.721E-09	2.217E-09	1.857E-09	1.590E-09	1.385E-09
SW	1.562E-08	1.065E-08	6.206E-09	4.230E-09	3.169E-09	2.487E-09	2.078E-09	1.741E-09	1.519E-09	1.322E-09
WSW	1.306E-08	8.908E-09	5.187E-09	3.526E-09	2.614E-09	2.048E-09	1.779E-09	1.486E-09	1.290E-09	1.120E-09
W	1.128E-08	7.736E-09	4.767E-09	3.231E-09	2.399E-09	1.876E-09	1.525E-09	1.275E-09	1.089E-09	9.469E-10
WNW	9.934E-09	6.957E-09	4.180E-09	2.903E-09	2.411E-09	1.901E-09	1.571E-09	1.321E-09	1.234E-09	1.074E-09
NW	1.095E-08	7.658E-09	4.619E-09	3.201E-09	2.677E-09	2.106E- 09	1.789E-09	1.499E-09	1.309E-09	1.139E-09
NNW	2.036E-08	1.421E-08	9.444E-09	6.507E-09	5.273E-09	4.148E-09	3.389E-09	2.847E-09	2.442E-09	2.130E-09

Table 2.7-101— Normal Effluent Annual Average, Undecayed, Undepleted χ/Q Values for Mixed Mode Release With Building Wake for Nearest Residents

Downwind Sector	Distance meters(miles)	χ/Q (sec/m^3)
SE	1574 (1.0)	8.707E-07
SSE	1969 (1.2)	3.545E-07
S	2206 (1.4)	3.717E-07
SW	1945 (1.2)	4.040E-07
WSW	1634 (1.0)	4.279E-07
W	2074 (1.3)	2.129E-07
WNW	2485 (1.5)	1.053E-07
NW	4097 (2.5)	5.686E-08

Table 2.7-102— Normal Effluent Annual Average, Undecayed, Undepleted χ/Q Values for Mixed Mode Release With Building Wake for Nearest Gardens

Downwind Sector	Distance meters (miles)	χ/Q (sec/m^3)
SE	1574 (1.0)	8.707E-07
SSE	2130 (1.3)	3.054E-07
S	2206 (1.4)	3.717E-07
SW	2256 (1.4)	3.009E-07
WSW	1634 (1.0)	4.279E-07
W	2529 (1.6)	1.495E-07
WNW	2795 (1.7)	8.776E-08
NW	4097 (2.5)	5.686E-08

Table 2.7-103— Normal Effluent Annual Average, Decayed, Depleted χ/Q Values for Mixed Mode Release With Building Wake from 0.5 to 5 Miles with Site Boundary Values

Downwind Sector	χ/Q (sec/m^3) Site Boundary	χ/Q (sec/m^3) 0.5 miles 0.8 km	χ/Q (sec/m^3) 0.75 miles 1.21 km	χ/Q (sec/m^3) 1.0 mile 1.6 mm	χ/Q (sec/m^3) 1.5 miles 2.4 km	χ/Q (sec/m^3) 2.0 miles 3.2 km	χ/Q (sec/m^3) 2.5 miles 4.0 km	χ/Q (sec/m^3) 3.0 miles 4.8 km	χ/Q (sec/m^3) 3.5 miles 5.6 km	χ/Q (sec/m^3) 4.0 miles 6.4 km	χ/Q (sec/m^3) 4.5 miles 7.2 km	χ/Q (sec/m^3) 5.0 miles 8.0 km
N	2.677E-06	1.760E-06	9.545E-07	5.149E-07	2.253E-07	1.340E-07	9.153E-08	6.951E-08	5.510E-08	4.513E-08	3.833E-08	3.308E-08
NNE	9.030E-06	3.008E-06	1.570E-06	8.255E-07	3.458E-07	2.007E-07	1.353E-07	1.020E-07	8.050E-08	6.579E-08	5.582E-08	4.818E-08
NE	1.301E-05	4.614E-06	2.427E-06	1.274E-06	5.254E-07	2.990E-07	1.980E-07	1.470E-07	1.146E-07	9.272E-08	7.798E-08	6.680E-08
ENE	4.701E-06	1.870E-06	9.791E-07	5.199E-07	2.212E-07	1.295E-07	8.772E-08	6.629E-08	5.240E-08	4.287E-08	3.639E-08	3.142E-08
E	2.597E-06	1.392E-06	7.627E-07	4.229E-07	1.902E-07	1.141E-07	7.811E-08	5.935E-08	4.707E-08	3.860E-08	3.283E-08	2.839E-08
ESE	2.298E-06	1.823E-06	1.013E-06	5.585E-07	2.449E-07	1.433E-07	9.622E-08	7.202E-08	5.641E-08	4.578E-08	3.859E-08	3.311E-08
SE	9.733E-07	2.220E-06	1.328E-06	7.531E-07	3.439E-07	1.970E-07	1.287E-07	9.395E-08	7.192E-08	5.715E-08	4.727E-08	3.986E-08
SSE	4.789E-07	1.272E-06	8.145E-07	4.778E-07	2.168E-07	1.255E-07	8.487E-08	6.189E-08	4.730E-08	3.752E-08	3.097E-08	2.606E-08
S	7.939E-07	1.680E-06	1.033E-06	5.933E-07	2.816E-07	1.596E-07	1.032E-07	7.458E-08	5.698E-08	4.493E-08	3.689E-08	3.091E-08
SSW	7.759E-07	1.491E-06	9.745E-07	5.766E-07	2.596E-07	1.484E-07	9.633E-08	6.978E-08	5.303E-08	4.186E-08	3.439E-08	2.883E-08
SW	4.573E-07	1.449E-06	9.378E-07	5.444E-07	2.396E-07	1.356E-07	8.756E-08	6.325E-08	4.799E-08	3.784E-08	3.108E-08	2.604E-08
WSW	3.534E-07	9.797E-07	6.711E-07	4.089E-07	1.901E-07	1.104E-07	7.237E-08	5.272E-08	4.022E-08	3.183E-08	2.621E-08	2.201E-08
W	2.753E-07	6.324E-07	4.789E-07	3.101E-07	1.533E-07	9.180E-08	6.126E-08	4.520E-08	3.480E-08	2.774E-08	2.297E-08	1.938E-08
WNW	1.054E-07	4.205E-07	2.897E-07	1.876E- 07	1.039E-07	6.502E-08	4.490E-08	3.403E-08	2.678E-08	2.174E-08	1.909E-08	1.629E-08
NW	2.356E-07	6.130E-07	4.005E-07	2.485E-07	1.299E-07	7.919E-08	5.382E-08	4.035E-08	3.151E-08	2.542E-08	2.128E-08	1.812E-08
NNW	1.570E-06	1.462E-06	8.954E-07	5.225E-07	2.408E-07	1.423E-07	9.513E-08	7.063E-08	5.481E-08	4.404E-08	3.676E-08	3.125E-08

Table 2.7-104— Normal Effluent Annual Average, Decayed, Depleted χ/Q Values for Mixed Mode Release With Building Wake from 7.5 to 50 Miles

Downwind Sector	χ/Q (sec/m^3) 7.5 miles 12.1 km	χ/Q (sec/m^3) 10 miles 16.1 km	χ/Q (sec/m^3) 15 mile 24.1 km	χ/Q (sec/m^3) 20 miles 32.2 km	χ/Q (sec/m^3) 25 miles 40.2 km	χ/Q (sec/m^3) 30 miles 48.3 km	χ/Q (sec/m^3) 35 miles 56.3 km	χ/Q (sec/m^3) 40 miles 64.4 km	χ/Q (sec/m^3) 45 miles 72.4 km	χ/Q (sec/m^3) 50 miles 80.5 km
N	1.868E-08	1.340E-08	8.305E-09	5.878E-09	4.485E-09	3.591E-09	3.132E-09	2.657E-09	2.298E-09	2.017E-09
NNE	2.736E-08	1.978E-08	1.244E-08	8.912E-09	6.869E-09	5.547E-09	4.687E-09	4.003E-09	3.668E-09	3.235E-09
NE	3.698E-08	2.634E-08	1.628E-08	1.156E-08	9.443E-09	7.597E-09	6.315E-09	5.381E-09	4.672E-09	4.115E-09
ENE	1.788E-08	1.297E-08	8.214E-09	5.928E-09	4.961E-09	4.034E-09	3.383E-09	2.904E-09	2.539E-09	2.250E-09
E	1.625E-08	1.183E-08	7.532E-09	5.449E-09	4.371E-09	3.552E-09	2.977E-09	2.554E-09	2.231E-09	1.975E-09
ESE	1.839E-08	1.311E-08	8.101E-09	5.743E-09	4.529E-09	3.635E-09	3.016E-09	2.565E-09	2.224E-09	1.957E-09
SE	2.067E-08	1.403E-08	8.084E-09	5.456E-09	4.081E-09	3.176E-09	2.567E-09	2.135E-09	1.815E-09	1.569E-09
SSE	1.337E-08	8.997E-09	5.116E-09	3.418E-09	2.529E-09	1.956E-09	1.572E-09	1.302E-09	1.102E-09	9.494E-10
S	1.562E-08	1.041E-08	5.855E-09	3.883E-09	2.851E-09	2.195E-09	1.755E-09	1.446E-09	1.219E-09	1.046E-09
SSW	1.457E-08	9.706E-09	5.448E-09	3.606E-09	2.639E-09	2.027E-09	1.617E-09	1.330E-09	1.120E-09	9.590E-10
SW	1.317E-08	8.790E-09	4.952E-09	3.289E-09	2.415E-09	1.861E-09	1.537E-09	1.268E-09	1.093E-09	9.369E-10
WSW	1.117E-08	7.458E-09	4.203E-09	2.785E-09	2.022E-09	1.556E-09	1.345E-09	1.106E-09	9.432E-10	8.070E-10
W	9.991E-09	6.734E-09	4.058E-09	2.695E-09	1.968E-09	1.517E-09	1.216E-09	1.004E-09	8.487E-10	7.291E-10
WNW	8.964E-09	6.202E-09	3.658E-09	2.505E-09	2.078E-09	1.624E-09	1.329E-09	1.107E-09	9.486E-10	8.114E-10
NW	9.709E-09	6.696E-09	3.954E-09	2.695E-09	2.244E-09	1.742E-09	1.426E-09	1.175E-09	9.615E-10	8.199E-10
NNW	1.757E-08	1.208E-08	7.968E-09	5.395E-09	4.271E-09	3.304E-09	2.657E-09	2.194E-09	1.853E-09	1.592E-09

Table 2.7-105— Normal Effluent Annual Average, Decayed, Depleted χ/Q Values for Mixed Mode Release With Building Wake for Nearest Residents

Downwind Sector	Distance meters (miles)	χ/Q (sec/m^3)
SE	1574 (1.0)	7.859E-07
SSE	1969 (1.2)	3.223E-07
S	2206 (1.4)	3.389E-07
SW	1945 (1.2)	3.717E-07
WSW	1634 (1.0)	3.980E-07
W	2074 (1.3)	2.009E-07
WNW	2485 (1.5)	9.872E-08
NW	4097 (2.5)	5.233E-08

Table 2.7-106— Normal Effluent Annual Average, Decayed, Depleted χ/Q Values for Mixed Mode Release With Building Wake for Nearest Gardens

Downwind Sector	Distance meters (miles)	χ/Q (sec/m^3)
SE	1574 (1.0)	7.859E-07
SSE	2130 (1.3)	2.773E-07
S	2206 (1.4)	3.389E-07
SW	2256 (1.4)	2.758E-07
WSW	1634 (1.0)	3.980E-07
W	2529 (1.6)	1.407E-07
WNW	2795 (1.7)	8.218E-08
NW	4097 (2.5)	5.233E-08

Table 2.7-107— Normal Effluent Annual Average, Undecayed, Undepleted Gamma χ/Q Values for Mixed Mode Release With Building Wake from 0.5 to 5 Miles with Site Boundary Values

Downwind Sector	χ/Q (sec/m^3) Site Boundary	χ/Q (sec/m^3) 0.5 miles 0.8 km	χ/Q (sec/m^3) 0.75 miles 1.21 km	χ/Q (sec/m^3) 1.0 mile 1.6 mm	χ/Q (sec/m^3) 1.5 miles 2.4 km	χ/Q (sec/m^3) 2.0 miles 3.2 km	χ/Q (sec/m^3) 2.5 miles 4.0 km	χ/Q (sec/m^3) 3.0 miles 4.8 km	χ/Q (sec/m^3) 3.5 miles 5.6 km	χ/Q (sec/m^3) 4.0 miles 6.4 km	χ/Q (sec/m^3) 4.5 miles 7.2 km	χ/Q (sec/m^3) 5.0 miles 8.0 km
N	1.872E-06	1.415E-06	9.137E-07	5.319E-07	2.442E-07	1.460E-07	9.939E-08	7.527E-08	5.957E-08	4.877E-08	4.143E-08	3.580E-08
NNE	4.043E-06	2.160E-06	1.379E-06	7.991E-07	3.647E-07	2.176E-07	1.481E-07	1.123E-07	8.900E-08	7.299E-08	6.212E-08	5.377E-08
NE	5.769E-06	3.100E-06	1.968E-06	1.135E-06	5.133E-07	3.040E-07	2.057E-07	1.552E-07	1.226E-07	1.002E-07	8.505E-08	7.345E-08
ENE	2.580E-06	1.504E-06	9.617E-07	5.580E-07	2.548E-07	1.519E-07	1.034E-07	7.835E-08	6.210E-08	5.093E-08	4.335E-08	3.752E-08
E	1.905E-06	1.270E-06	8.198E-07	4.771E-07	2.182E-07	1.299E-07	8.814E-08	6.661E-08	5.265E-08	4.308E-08	3.659E-08	3.162E-08
ESE	1.733E-06	1.470E-06	9.407E-07	5.436E-07	2.457E-07	1.449E-07	9.760E-08	7.331E-08	5.765E-08	4.696E-08	3.972E-08	3.420E-08
SE	8.150E-07	1.716E-06	1.100E-06	6.334E-07	2.878E-07	1.671E-07	1.109E-07	8.221E-08	6.389E-08	5.150E-08	4.315E-08	3.683E-08
SSE	4.208E-07	1.113E-06	7.248E-07	4.199E-07	1.884E-07	1.097E-07	7.407E-08	5.484E-08	4.255E-08	3.424E-08	2.864E-08	2.440E-08
S	7.118E-07	1.453E-06	9.258E-07	5.304E-07	2.428E-07	1.394E-07	9.163E-08	6.741E-08	5.224E-08	4.188E-08	3.490E-08	2.965E-08
SSW	6.895E-07	1.370E-06	8.780E-07	5.041E-07	2.225E-07	1.279E-07	8.412E-08	6.187E-08	4.777E-08	3.828E-08	3.190E-08	2.709E-08
SW	3.963E-07	1.286E-06	8.259E-07	4.729E-07	2.081E-07	1.194E-07	7.843E-08	5.763E-08	4.445E-08	3.559E-08	2.964E-08	2.516E-08
WSW	3.261E-07	1.004E-06	6.576E-07	3.815E-07	1.707E-07	9.890E-08	6.536E-08	4.821E-08	3.728E-08	2.990E-08	2.493E-08	2.118E-08
W	2.712E-07	8.038E-07	5.327E-07	3.119E-07	1.414E-07	8.256E-08	5.487E-08	4.065E-08	3.154E-08	2.537E-08	2.120E-08	1.805E-08
WNW	1.171E-07	5.959E-07	3.950E-07	2.331E- 07	1.108E-07	6.573E-08	4.426E-08	3.315E-08	2.597E-08	2.105E-08	1.811E-08	1.550E-08
NW	2.580E-07	7.179E-07	4.689E-07	2.742E-07	1.283E-07	7.546E-08	5.053E-08	3.771E-08	2.945E-08	2.383E-08	2.003E-08	1.714E-08
NNW	1.447E-06	1.365E-06	8.820E-07	5.114E-07	2.308E-07	1.352E-07	9.033E-08	6.731E-08	5.253E-08	4.249E-08	3.570E-08	3.054E-08

Table 2.7-108— Normal Effluent Annual Average, Undecayed, Undepleted Gamma χ/Q Values for Mixed Mode Release With Building Wake from 7.5 to 50 Miles

Downwind Sector	χ/Q (sec/m^3) 7.5 miles	χ/Q (sec/m^3) 10 miles	χ/Q (sec/m^3) 15 mile	χ/Q (sec/m^3) 20 miles	χ/Q (sec/m^3) 25 miles	χ/Q (sec/m^3) 30 miles	χ/Q (sec/m^3) 35 miles	χ/Q (sec/m^3) 40 miles	χ/Q (sec/m^3) 45 miles	χ/Q (sec/m^3) 50 miles
N	2.036E-08	1.475E-08	9.307E-09	6.685E-09	5.162E-09	4.175E-09	3.577E-09	3.058E-09	2.663E-09	2.353E-09
NNE	3.084E-08	2.253E-08	1.439E-08	1.044E-08	8.122E-09	6.613E-09	5.590E-09	4.805E-09	4.301E-09	3.815E-09
NE	4.181E-08	3.040E-08	1.933E-08	1.398E-08	1.119E-08	9.095E-09	7.631E-09	6.554E-09	5.730E-09	5.082E-09
ENE	2.155E-08	1.577E-08	1.011E-08	7.357E-09	5.953E-09	4.856E-09	4.087E-09	3.519E-09	3.084E-09	2.741E-09
E	1.803E-08	1.313E-08	8.360E-09	6.056E-09	4.773E-09	3.885E-09	3.264E-09	2.806E-09	2.456E-09	2.180E-09
ESE	1.924E-08	1.387E-08	8.715E-09	6.254E-09	4.890E-09	3.957E-09	3.308E-09	2.833E-09	2.471E-09	2.186E-09
SE	2.001E-08	1.407E-08	8.532E-09	5.968E-09	4.548E-09	3.620E-09	2.985E-09	2.526E-09	2.179E-09	1.911E-09
SSE	1.314E-08	9.172E-09	5.492E-09	3.804E-09	2.874E-09	2.273E-09	1.864E-09	1.569E-09	1.348E-09	1.178E-09
S	1.582E-08	1.099E-09	6.561E-09	4.538E-09	3.423E-09	2.707E-09	2.220E-09	1.870E-09	1.608E-09	1.405E-09
SSW	1.443E-08	1.001E-09	5.965E-09	4.119E-09	3.102E-09	2.450E-09	2.007E-09	1.689E-09	1.452E-09	1.268E-09
SW	1.337E-08	9.260E-09	5.497E-09	3.787E-09	2.846E-09	2.246E-09	1.861E-09	1.564E-09	1.355E-09	1.183E-09
WSW	1.127E-08	7.797E-09	4.617E-09	3.171E-09	2.366E-09	1.862E-09	1.570E-09	1.316E-09	1.136E-09	9.889E-10
W	9.675E-09	6.726E-09	4.121E-09	2.832E-09	2.118E-09	1.668E-09	1.363E-09	1.44E-09	9.811E-10	8.553E-10
WNW	8.582E-09	6.046E-09	3.667E-09	2.563E-09	2.033E-09	1.614E-09	1.333E-09	1.125E-09	1.007E-09	8.809E-10
NW	9.389E-09	6.622E-09	4.036E-09	2.823E-09	2.258E-09	1.791E-09	1.501E-09	1.266E-09	1.100E-09	9.619E-10
NNW	1.718E-08	1.212E-08	7.752E-09	5.412E-09	4.238E-09	3.366E-09	2.772E-09	2.343E-09	2.020E-09	1.770E-09

Table 2.7-109— Normal Effluent Annual Average, Undecayed, Undepleted Gamma χ/Q Values for Mixed Mode Release With Building Wake for Nearest Residents

Downwind Sector	Distance meters (mile)	χ/Q (sec/m^3)
SE	1574 (1.0)	6.605E-07
SSE	1969 (1.2)	2.810E-07
S	2206 (1.4)	2.919E-07
SW	1945 (1.2)	3.218E-07
WSW	1634 (1.0)	3.705E-07
W	2074 (1.3)	1.900E-07
WNW	2485 (1.5)	1.046E-07
NW	4097 (2.5)	4.910E-08

Table 2.7-110— Normal Effluent Annual Average, Undecayed, Undepleted Gamma χ/Q Values for Mixed Mode Release With Building Wake for Nearest Gardens

Downwind Sector	Distance meters (miles)	χ/Q (sec/m^3)
SE	1574 (1.0)	6.605E-07
SSE	2130 (1.3)	2.413E-07
S	2206 (1.4)	2.919E-07
SW	2256 (1.4)	2.391E-07
WSW	1634 (1.0)	3.705E-07
W	2529 (1.6)	1.290E-07
WNW	2795 (1.7)	8.503E-08
NW	4097 (2.5)	4.910E-08

Table 2.7-111— Normal Effluent Annual Average, D/Q Values for Mixed Mode Release With Building Wake from 0.5 to 5 Miles with Site Boundary Values

Downwind Sector	D/Q ($1/m^2$) Site Boundary	D/Q ($1/m^2$) 0.5 miles 0.8 km	D/Q ($1/m^2$) 0.75 miles 1.21 km	D/Q ($1/m^2$) 1.0 mile 1.6 km	D/Q ($1/m^2$) 1.5 miles 2.4 km	D/Q ($1/m^2$) 2.0 miles 3.2 km	D/Q ($1/m^2$) 2.5 miles 4.0 km	D/Q ($1/m^2$) 3.0 miles 4.8 km	D/Q ($1/m^2$) 3.5 miles 5.6 km	D/Q ($1/m^2$) 4.0 miles 6.4 km	D/Q ($1/m^2$) 4.5 miles 7.2 km	D/Q ($1/m^2$) 5.0 miles 8.0 km
N	1.895E-08	1.322E-08	7.391E-09	3.875E-09	1.472E-09	7.661E-10	4.653E-10	3.197E-10	2.322E-10	1.759E-10	1.390E-10	1.123E-10
NNE	5.101E-08	2.145E-08	1.177E-08	6.016E-09	2.219E-09	1.135E-09	6.822E-10	4.657E-10	3.368E-10	2.545E-10	2.008E-10	1.622E-10
NE	8.617E-08	3.792E-08	2.075E-08	1.057E-08	3.879E-09	1.977E-09	1.184E-09	8.068E-10	5.829E-10	4.402E-10	3.472E-10	2.804E-10
ENE	3.134E-08	1.588E-08	8.994E-09	4.695E-09	1.763E-09	9.143E-10	5.545E-10	3.812E-10	2.773E-10	2.105E-10	1.666E-10	1.349E-10
E	1.978E-08	1.203E-08	6.702E-09	3.472E-09	1.305E-09	6.721E-10	4.053E-10	2.774E-10	2.010E-10	1.522E-10	1.202E-10	9.720E-11
ESE	2.465E-08	1.987E-08	1.081E-08	5.498E-09	2.033E-09	1.032E-09	6.158E-10	4.181E-10	3.012E-10	2.270E-10	1.787E-10	1.441E-10
SE	1.060E-08	2.758E-08	1.520E-08	7.823E-09	2.943E-09	1.496E-09	8.920E-10	6.051E-10	4.355E-10	3.280E-10	2.582E-10	2.081E-10
SSE	4.730E-09	1.508E-08	8.770E-09	4.717E-09	1.846E-09	9.593E-10	5.823E-10	3.982E-10	2.882E-10	2.179E-10	1.721E-10	1.390E-10
S	1.186E-08	2.818E-08	1.604E-08	8.446E-09	3.275E-09	1.690E-09	1.018E-09	6.966E-10	5.050E-10	3.822E-10	3.021E-10	2.443E-10
SSW	9.686E-09	2.181E-08	1.271E-08	6.802E-09	2.649E-09	1.380E-09	8.371E-10	5.751E-10	4.180E-10	3.172E-10	2.511E-10	2.033E-10
SW	5.493E-09	2.151E-08	1.255E-08	6.719E-09	2.616E-09	1.357E-09	8.192E-10	5.607E-10	4.063E-10	3.075E-10	2.431E-10	1.966E-10
WSW	3.580E-09	1.199E-08	7.502E-09	4.250E-09	1.740E-09	9.261E-10	5.680E-10	3.929E-10	2.867E-10	2.179E-10	1.729E-10	1.400E-10
W	2.159E-09	6.673E-09	4.317E-09	2.510E-09	1.053E-09	5.700E-10	3.537E-10	2.466E-10	1.810E-10	1.382E-10	1.098E-10	8.910E-11
WNW	7.963E-10	4.775E-09	3.015E-09	1.737E-09	7.306E-10	3.965E-10	2.468E-10	1.724E-10	1.267E-10	9.681E-11	7.725E-11	6.266E-11
NW	2.465E-09	8.120E-09	4.833E-09	2.646E-09	1.061E-09	5.619E-10	3.445E-10	2.384E-10	1.741E-10	1.326E-10	1.052E-10	8.525E-11
NNW	2.064E-08	1.920E-08	1.103E-08	5.871E-09	2.275E-09	1.184E-09	7.177E-10	4.927E-10	3.578E-10	2.712E-10	2.145E-10	1.735E-10

Table 2.7-112— Normal Effluent Annual Average, D/Q Values for Mixed Mode Release With Building Wake from 7.5 to 50 Miles

Downwind Sector	D/Q ($1/m^2$) 7.5 miles 12.1 km	D/Q ($1/m^2$) 10 miles 16.1 km	D/Q ($1/m^2$) 15 mile 24.1 km	D/Q ($1/m^2$) 20 miles 32.2 km	D/Q ($1/m^2$) 25 miles 40.2 km	D/Q ($1/m^2$) 30 miles 48.3 km	D/Q ($1/m^2$) 35 miles 56.3 km	D/Q ($1/m^2$) 40 miles 64.4 km	D/Q ($1/m^2$) 45 miles 72.4 km	D/Q ($1/m^2$) 50 miles 80.5 km
N	5.031E-11	3.161E-11	1.627E-11	1.009E-11	7.011E-12	5.187E-12	3.990E-12	3.183E-12	2.596E-12	2.156E-12
NNE	7.259E-11	4.579E-11	2.373E-11	1.478E-11	1.034E-11	7.696E-12	5.956E-12	4.767E-12	3.888E-12	3.234E-12
NE	1.254E-10	7.906E-11	4.100E-11	2.555E-11	1.786E-11	1.329E-11	1.030E-11	8.249E-12	6.744E-12	5.611E-12
ENE	6.088E-11	3.847E-11	2.012E-11	1.265E-11	8.954E-12	6.734E-12	5.259E-12	4.245E-12	3.491E-12	2.917E-12
E	4.350E-11	2.735E-11	1.418E-11	8.878E-12	6.223E-12	4.649E-12	3.614E-12	2.909E-12	2.388E-12	1.994E-12
ESE	6.385E-11	4.000E-11	2.053E-11	1.272E-11	8.795E-12	6.499E-12	5.015E-12	4.011E-12	3.279E-12	2.733E-12
SE	9.188E-11	5.720E-11	2.906E-11	1.793E-11	1.243E-11	9.273E-12	7.278E-12	5.937E-12	4.959E-12	4.244E-12
SSE	6.157E-11	3.806E-11	1.920E-11	1.183E-11	8.188E-12	6.096E-12	4.774E-12	3.884E-12	3.236E-12	2.763E-12
S	1.089E-10	6.795E-11	3.500E-11	2.193E-11	1.539E-11	1.158E-11	9.095E-12	7.412E-12	6.162E-12	5.223E-12
SSW	9.094E-11	5.673E-11	2.926E-11	1.839E-11	1.298E-11	9.821E-12	7.758E-12	6.356E-12	5.308E-12	4.519E-12
SW	8.744E-11	5.427E-11	2.766E-11	1.720E-11	1.198E-11	8.950E-12	7.656E-12	6.425E-12	6.883E-12	6.214E-12
WSW	6.255E-11	3.862E-11	1.952E-11	1.208E-11	8.370E-12	6.195E-12	5.790E-12	4.968E-12	5.869E-12	5.485E-12
W	4.009E-11	2.485E-11	1.266E-11	7.985E-12	5.745E-12	4.473E-12	3.663E-12	3.106E-12	2.678E-12	2.365E-12
WNW	2.827E-11	1.757E-11	9.012E-12	5.644E-12	4.309E-12	3.511E-12	3.334E-12	3.048E-12	4.026E-11	3.979E-11
NW	3.833E-11	2.395E-11	1.238E-11	7.785E-12	6.691E-12	5.943E-12	2.517E-11	2.703E-11	5.502E- 11	5.402E-11
NNW	7.758E-11	4.832E-11	2.489E-11	1.618E-11	2.645E-11	3.090E-11	3.475E-11	3.701E-11	3.749E-11	3.831E-11

Table 2.7-113— Normal Effluent Annual Average, D/Q Values for Mixed Mode Release With Building Wake for Nearest Residents

Downwind Sector*	Distance meters (miles)	D/Q (1/m^2)
SE	1574 (1.0)	8.234E-09
SSE	1969 (1.2)	2.960E-09
S	2206 (1.4)	4.068E-09
SW	1945 (1.2)	4.333E-09
WSW	1634 (1.0)	4.115E-09
W	2074 (1.3)	1.465E-09
WNW	2485 (1.5)	6.835E-10
NW	4097 (2.5)	3.322E-10

Note:

* Only includes sectors with residents.

Table 2.7-114— Normal Effluent Annual Average, D/Q Values for Mixed Mode Release With Building Wake for Nearest Gardens

Downwind Sector*	Distance meters (miles)	D/Q ($1/m^2$)
SE	1574 (1.0)	8.234E-09
SSE	2130 (1.3)	2.475E-09
S	2206 (1.4)	4.068E-09
SW	2256 (1.4)	3.074E-09
WSW	1634 (1.0)	4.115E-09
W	2529 (1.6)	9.487E-10
WNW	2795 (1.7)	5.336E-10
NW	4097 (1.5)	3.322E-10

Note:

* Only includes sectors with residents.

Table 2.7-115— 50th Percentile χ/Q Values

Time Interval (hrs)	Atmospheric Dispersion Factor (sec/m^3) (Nominal, 50% Meteorology)	
	EAB (Worst 2-hr)	LPZ (0-30 days)
LOCA		
0 to 1.5	n/a	1.181E-05
1.5 to 3.5[a]	8.079E-05	1.527E-05
3.5 to 8	n/a	1.181E-05
8 to 24		9.391E-06
24 to 96		6.607E-06
96 to 720		3.987E-06
All Other Accidents		
0 to 2	8.079E-05	1.527E-05
2 to 8	n/a	1.181E-05
8 to 24		9.391E-06
24 to 96		6.607E-06
96 to 720		3.987E-06

Note:

a. In accordance with Regulatory Guide 1.183 (Section 4.1.5), the period of most adverse release of radioactive materials to the environment was assumed to occur Coincident with the period of most unfavorable atmospheric dispersion.

Table 2.7-116— Summary of Ambient Environmental Sound Levels (dBA) for Commonly Used Metrics to Assess Noise Level Impact

Location (a)	Minimum L90 (b)	Average Daytime L90 (c)	Ldn (d)	Ldn (e)
P1	Note (f)	Note (f)	65	65
N1	34	44	55	56
W1	30	40	49	52
W2	37	56	65	66
W3	33	46	59	60
S1	31	43	49	51
S2	30	39	49	51
S3	33	44	53	55

Notes:

(a) See Figure 2.7-65.
(b) Minimum measured hourly L90 over 45 hour survey period.
(c) Arithmetic average of measured hourly L90 for the 28 hours from 7 A.M. to 10 P.M.
(d) Calculated for 24 hours with lowest wind speed, nearly calm or still.
(e) Calculated for 24 hours with increasing wind speed.
(f) Control point located on the CCNPP Units 1 and 2 site area.

Table 2.7-117— Snow Storm Events within the General Region of the Site
(Page 1 of 14)

Locations / Counties	Date	Snow Amount
Allegany, Anne Arundel, Calvert, Caroline, Carroll, Cecil, Charles, Dorchester, Frederick, Garrett, Harford, Howard, Inland Worcester, Kent, Maryland Beaches, Montgomery, Northern Baltimore, Prince George's, Queen Anne's, Somerset, Southern Baltimore, St. Mary's, Talbot, Washington, Wicomico	02/12/93	4 to 6 inches (102 to 152 mm) of snow and ice accumulations across north-central and western Maryland.
St. Mary's, Queen Anne's, Prince George's, Dorchester, Calvert, Charles	12/28/93	Heavy Snow
Anne Arundel	12/28/93	Unrecorded
MDZ014	02/04/95	Unrecorded
Caroline, Queen Anne's, Talbot	12/19/95	Freezing rain to sleet and snow.
St. Mary's	01/28/95	4 to 5 inches (102 to 127 mm) of snow accumulation.
Dorchester	1/6/1996	Not recorded.
Caroline, Kent, Queen Anne's, Talbot	01/06/96	Winter storm
Anne Arundel, Charles, Harford, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's	01/09/96	4 to 6 inches (102 to 152 mm) of snow.
Allegany, Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's, Washington	01/12/96	4 to 6 inches (102 to 152 mm) of snow accumulation.
Allegany, Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's, Washington	02/02/96	4 to 13 inches (102 to 330 mm) of snow during an early-morning event and an additional 4 to 6 inches (102 to 152 mm) during the day, totaling 12 to 18 inches (305 to 457 mm) across lower southern Maryland. 6 to 9 inches (152 to 229 mm) of snowfall from the Potomac Highlands through the western suburbs of Baltimore and Washington.
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	02/02/96	Unrecorded
Calvert, Charles, Prince George's, St. Mary's	02/02/96	8 to 13 inches (203 to 330 mm) of snow accumulation.
Anne Arundel, Calvert, Carroll, Charles, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's	02/16/96	10 to 13 inches (254 to 330 mm) of snowfall on the western shore of Chesapeake Bay. 7 to 11 inches (178 to 279 mm) of snowfall over the immediate suburbs of Washington and Baltimore. 4 to 6 inches (102 to 152 mm) of snowfall over areas of north central Maryland.
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	02/16/96	Not recorded.

Table 2.7-117— Snow Storm Events within the General Region of the Site
(Page 2 of 14)

Locations / Counties	Date	Snow Amount
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	03/01/96	Not recorded.
Anne Arundel, Harford, Prince George's	03/02/96	4 inches (102 mm) of snow accumulation in northern Prince George's and eastern Anne Arundel Counties, with up to 6 inches (152 mm) of snow accumulation in portions of Harford County.
7 MDZ021>025	03/07/96	Not recorded.
Caroline, Cecil, Kent, Queen Anne's, Talbot	1/11/1997	1.0 to 1.5 inches (25 to 38 mm) of snow accumulation.
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	02/08/97	1.5 to 2 inches (38 to 51 mm) of snow across Somerset, Wicomico, and Worcester counties. 3 to 4.5 inches (76 to 114 mm) of snow accumulation across Dorchester county.
Allegany, Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's, Washington	02/08/97	4 to 8 inches (102 to 203 mm) of heavy, wet snow across all of central and northern Maryland
Caroline, Kent, Queen Anne's, Talbot	12/23/1998	Cecil County snow accumulations included 4.3 inches (109 mm) in Cecilton and 3.0 inches (76 mm) in Elkton. Farther south snow accumulations were 1.5 inches (38 mm) or less.
Dorchester, Wicomico	1/8/1999	Not recorded.
Anne Arundel, Charles, Howard, Montgomery, Prince George's, Southern Baltimore	1/8/1999	5 to 6 inches (127 to 152 mm) of snowfall in Frederick, Washington and Allegany Counties. 4 to 5 inches (102 to 127 mm) of snowfall in Montgomery, Carroll, Howard, Harford, and Baltimore Counties. 2 to 4 inches (51 to 102 mm) of snowfall in Anne Arundel, Prince George's, and Charles Counties.
Dorchester, Inland Worcester, Somerset, Wicomico	03/09/99	2 to 6 inches (51 to 152 mm) of snowfall across portions of the Lower Maryland Eastern Shore. The highest amounts occurred in Dorchester and Wicomico counties. 5 to 6 inches (127 to 152 mm) of snowfall for Cambridge in Dorchester county. 4 to 6 inches (102 to 152 mm) of snowfall for Salisbury and Fruitland in Wicomico county. 4 inches (102 mm) of snowfall for Princess Anne in Somerset county.

Table 2.7-117— Snow Storm Events within the General Region of the Site
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Locations / Counties	Date	Snow Amount
Allegany, Anne Arundel, Calvert, Charles, Frederick, Howard, Montgomery, Prince George's, St. Mary's, Washington	03/09/99	6 to 10 inches (152 to 254 mm) of snowfall in Prince George's, Montgomery, and Allegany Counties. 4 to 8 inches (102 to 203 mm) of snowfall across Washington, Southern Frederick, Howard, Anne Arundel, Charles and Calvert Counties. 2 to 5 inches (51 to 127 mm) of snowfall across St. Mary's, Northern Frederick, Carroll, and Southern Baltimore Counties, including Baltimore City. 2 inches (51 mm) or less snowfall across Northern Baltimore County.
Anne Arundel, Charles, Howard, Prince George's	3/14/1999	Total snow accumulations included 10 to 12 inches (254 to 305 mm) in Allegany County, 6 to 15 inches (152 to 381 mm) in Washington County, 6 to 12 inches (152 to 305 mm) in Frederick County, 5 to 10 inches (127 to 254 mm)in Carroll County, 4 inches (102 mm) in Howard County, and 2 to 3 inches (51 to 76 mm) in Southern Baltimore County, Northern Anne Arundel County, Prince George's, and Northern Charles Counties.
Dorchester	01/20/00	5 to 7 inches (127 to 178 mm) of snow.
Allegany, Anne Arundel, Calvert, Carroll, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's, Washington	01/20/00	Snowfall totals included 4.7 inches (119 mm) in Westminster, 7.0 inches (178 mm) in Bel Air, 5.0 inches (127 mm) in Baltimore, 7.5 inches (191 mm) in Annapolis, 5.7 inches (145 mm) at BWI, 4.8 inches (122 mm) at Andrews Air Force Base, 3.0 inches (76 mm) at Patuxent River Naval Air Station, 4.0 inches (102 mm) in La Plata, 6.2 inches (157 mm) in Damascus, 8.0 inches (203 mm) in Emmitsburg, 4.1 inches (104 mm) in Hagerstown, 6.5 inches (165 mm) in Cumberland, and 7.7 inches (196 mm) in Frostburg.
Dorchester	01/25/00	9 to 14 inches (229 to 356 mm) of snow.

Table 2.7-117— Snow Storm Events within the General Region of the Site

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Locations / Counties	Date	Snow Amount
Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's, Washington	01/25/00	Total snowfall included 14.9 inches (378 mm) at BWI, 17.0 inches (432 mm) in Annapolis, 16.5 inches (419 mm) in Hollywood, 14.0 inches (356 mm) in Westminster, 13.5 inches (343 mm) in Oxon Hill, 11.5 inches (292 mm) in Gaithersburg, 12.0 inches (305 mm) in Waldorf, 17.0 inches (432 mm) in Baltimore, 11.5 inches (292 mm) in Columbia, 14.0 inches (356 mm) in Bel Air, 9.0 inches (229 mm) in Frederick, 13.5 inches (343 mm) in Hagerstown, and less than 1 inch (25 mm) in Frostburg and Cumberland.
Calvert, Charles, St. Mary's	01/30/00	A mix of sleet and snow in North Central Maryland, and moderate snowfall from Carroll County westward. Elsewhere 3 to 10 inches (76 to 254 mm) of sleet and snowfall.
St. Mary's	02/12/00	Snowfall totals ranged from 2 to 3 inches (51 to 76 mm) across St. Mary's County.
Allegany, Charles, Harford, Howard, Northern Baltimore, Prince George's, Southern Baltimore	12/19/2000	Snowfall totals ranged from 1 to 7 inches (25 to 178 mm) with the highest amounts falling across Frederick and Washington Counties and the smallest accumulations right along the Chesapeake Bay.
Caroline, Queen Anne's, Talbot	12/22/2000	Snow accumulations included 2.5 inches (64 mm) in Federalsburg (Caroline County), 2 inches (51 mm) in Centreville (Queen Anne's County) and 1 inch (25 mm) in Easton (Talbot County).
Caroline, Cecil, Kent, Queen Anne's, Talbot	1/5/2001	Snow accumulations were approximately 1 inch (25 mm).
Caroline, Kent, Queen Anne's, Talbot	1/20/2001	Snow accumulations from 1 to 6 inches (25 to 152 mm) across the Eastern Shore.
Dorchester, Inland Worcester, Somerset, Wicomico	02/22/01	3 to 6 inches (76 to 152 mm) of snow across the Lower Maryland Eastern Shore. Specific snow totals include: 5 to 6 inches (127 to 152 mm) at Salisbury Airport in Wicomico county, 6 inches (152 mm) at Cambridge in Dorchester county, 5 inches (127 mm) north of Princess Anne in Somerset county, and 5 inches (127 mm) north of Snow Hill in Worcester county.
Allegany, Anne Arundel, Calvert, Carroll, Charles, Harford, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's	02/22/01	3 to 7 inches (76 to 178 mm) of snowfall.

Table 2.7-117— Snow Storm Events within the General Region of the Site
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Locations / Counties	Date	Snow Amount
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	01/03/02	3 to 6 inches (76 to 152 mm) of snow across the Lower Maryland Eastern Shore. Specific higher snow totals include: 6 inches (152 mm) at Crisfield in Somerset county, 5 to 6 inches (127 to 152 mm) in Dorchester county, 6 inches (152 mm) at Pocomoke City in Worcester county, 3 to 5 inches (76 to 127 mm) in Wicomico county, 4 inches (102 mm) at Snow Hill in Worcester county, and 3 to 4 inches (76 to 102 mm) at Ocean City in Worcester county.
St. Mary's, Calvert, Charles	01/03/02	In St. Mary's County, snowfall ranged from 2.5 inches (64 mm) in the northern portion to 6.5 inches (165 mm) in the southern tip. In Charles County, snowfall ranged from 1 to 3 inches (25 to 76 mm) with the heaviest amounts in the extreme southern portion of the county.
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	01/16/03	3 to 5 inches (76 to 127 mm) of snow across the Lower Maryland Eastern Shore. Specific higher snow totals include: 5 inches (127 mm) at Princess Anne in Somerset county, 5 inches (127 mm) at Pocomoke in Worcester county, 4 inches (102 mm) in Dorchester county, and 4 inches (102 mm) in Wicomico county.
Allegany, Anne Arundel, Calvert, Carroll, Charles, Frederick, Howard, Montgomery, Prince George's, St. Mary's, Washington	01/19/02	3 to 5 inches (76 to 127 mm) of snow.
Dorchester, Inland Worcester, Somerset, Wicomico .	12/04/02	2 to 5 inches (76 to 127 mm) of snow along with less than 1/4 inch (6 mm) of ice across portions of the Lower Maryland Eastern Shore. Specific snow totals include: 4.5 inches (114 mm) at Cambridge in Dorchester county, 3.5 inches (89 mm) at Salisbury in Wicomico county, 3 inches (76 mm) at Princess Anne in Somerset county, and 2 inches (51 mm) at Snow Hill in Worcester county
Allegany, Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's, Washington	12/05/02	The snow and sleet accumulations ranged from 3 to 5 inches (76 to 127 mm) in this area. In Central Maryland, including the Washington D.C. and Baltimore suburbs, snowfall totals ranged from 6 to 8 inches (152 to 203 mm). 7 to 9 inches (178 to 229 mm) of snowfall accumulation across North Central and Western Maryland.

Table 2.7-117— Snow Storm Events within the General Region of the Site
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Locations / Counties	Date	Snow Amount
Anne Arundel, Harford, Howard, Montgomery, Southern Baltimore	12/24/2002	2 to 4 inches (51 to 102 mm) of snowfall in Southern Frederick, Southern Carroll, Central Baltimore, Harford, Howard, and Northern Montgomery Counties.
Anne Arundel, Carroll, Harford, Howard, Northern Baltimore, Prince George's, Southern Baltimore, Washington	1/5/2003	2 to 5 inches (51 to 127 mm) of snow across Central and Western Maryland
St. Mary's	01/16/03	Snowfall totals ranged from 2 inches (51 mm) in the northern part of the county to just over 5 inches (127 mm) at the southern tip.
Caroline, Cecil, Kent, Queen Anne's, Talbot	1/29/2003	Snow accumulations were less than 1 inch (25 mm).
Dorchester	1/30/2003	1 inch (25 mm) of snow across portions of Dorchester county.
Dorchester	02/06/03	3 to 7 inches (76 to 178 mm) of snow across Dorchester county. 6.5 inches (165 mm) in Cambridge and 3 inches in Vienna.
Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's	02/06/03	Accumulations ranged from 2 to 4 inches (51 to 102 mm) across Western Maryland and 5 to 8 inches (127 to 203 mm) in Central and Southern Maryland.
Dorchester, Wicomico	2/10/2003	0.5 inch to 2 inches (13 to 51 mm) of snow across portions of the Lower Maryland Eastern Shore. 2 inches (51 mm) of snow at Salisbury (SBY).
Caroline, Cecil, Kent, Queen Anne's, Talbot	2/10/2003	No accumulation.
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	2/15/2003	4 to 15 inches (102 to 381 mm) of snow, along with some ice, across the Lower Maryland Eastern Shore. Specific snowfall totals include: 15 inches (381 mm) in the far north portion of Dorchester county, 13 inches (330 mm) at Cambridge in Dorchester county, 10 inches (254 mm) in the southern portion of Dorchester county, 6 inches (152 mm) at Delmar in Wicomico county, 5 to 6 inches (127 to 152 mm) at Ocean City in Worcester county, and 4 inches (102 mm) at Salisbury in Wicomico county.
Caroline, Cecil, Kent, Queen Anne's, Talbot	2/15/2003	Trace amounts of snow in Talbot County.

Table 2.7-117— Snow Storm Events within the General Region of the Site
(Page 7 of 14)

Locations / Counties	Date	Snow Amount
Caroline, Cecil, Kent, Queen Anne's, Talbot	2/16/2003	Specific accumulations include 26.0 inches (660 mm) in Colora (Cecil County)[a], 25.0 inches (635 mm) in Centreville (Queen Anne's County), 23.0 inches (584 mm) in Port Deposit (Cecil County), 22.5 inches (572 mm) in Chestertown (Kent County), 22.0 inches (559 mm) in Galena (Kent County), 20.0 inches (508 mm) in Denton (Caroline County), 19.0 inches (483 mm) in Saint Michaels (Talbot County) and 15.0 inches (381 mm) in Royal Oak (Talbot County).
Allegany, Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's, Washington	02/14/03	Across western and north central Maryland, and the Baltimore metropolitan area, accumulations of mainly snow ranged from 20 to 32 inches (508 to 813 mm). The highest amounts occurred across the north and west suburbs of Baltimore where a period of thunder snow produced snowfall rates up to 4 inches (102 mm) per hour on the 16th. Across the east and southeast Maryland suburbs of Washington D.C., accumulations of snow and sleet ranged from 12 to 20 inches (305 to 508 mm). Areas that received mainly sleet during this massive winter storm received accumulations around two thirds less than areas that had all snow, even though they were impacted by the same storm system. As an example, Hollywood (St. Mary's County) recorded 7.5 inches (191 mm) of accumulation (almost all sleet) whereas downtown Baltimore recorded 24 inches (610 mm) of accumulation (all snow).
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	02/26/03	1 to 7 inches (25 to 178 mm) of snow, along with some sleet and freezing rain, across the Lower Maryland Eastern Shore. Specific snow totals include: 7 inches (178 mm) at Cambridge in Dorchester county, 3 inches (76 mm) at Hurlock in Dorchester county, 2 to 2.5 inches (51 to 64 mm) at Salisbury in Wicomico county, and 1 inch (25 mm) at Ocean City in Worcester county.
Allegany, Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's, Washington	02/26/03	A total of 5 to 8 inches (127 to 203 mm) of snow accumulated across Central and Southern Maryland and 2 to 4 inches (51 to 102 mm) in Western Maryland.

Table 2.7-117— Snow Storm Events within the General Region of the Site

(Page 8 of 14)

Locations / Counties	Date	Snow Amount
Caroline, Queen Anne's, Talbot	2/27/2003	Specific accumulations included 7.0 inches (178 mm) in Easton (Talbot County), 6.5 inches (165 mm) in Stevensville (Queen Anne's County), 5.5 inches (140 mm) in Denton (Caroline County), 4.0 inches (102 mm) in Rock Hall (Kent County) and 2.5 inches (64 mm) in Elkton and Port Deposit (Cecil County).
Anne Arundel, Calvert, Prince George's	12/04/03	Snow totals averaged 1 to 2 inches (25 to 51 mm).
Caroline, Kent, Queen Anne's, Talbot	12/5/2003	Accumulations ranged from 2 inches (51 mm) in Talbot and Caroline Counties to around 12 inches (305 mm) in Cecil County.
Dorchester	12/6/2003	1 to 2 inches (25 to 51 mm) of snow fell across portions of the county, with Cambridge reporting as much as 2.5 inches (64 mm).
Anne Arundel, Calvert, Charles, Harford, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore	12/14/03	Snowfall totals across Central and Lower Southern Maryland averaged 1 to 3 inches (25 to 76 mm). Some light ice accumulations were also reported.
Allegany, Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's, Washington	01/17/04	Snow amounts from .25 to 2 inches (6 to 51 mm) across Maryland from Allegany down to St. Mary's County.
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	01/25/04	2 to 4 inches (51 to 102 mm) of snow and sleet fell across portions of the Lower Maryland Eastern Shore. Specific amounts included: 4.3 inches (109 mm) at Princess Anne in Somerset county, 3.8 inches (97 mm) at Salisbury in Wicomico county, 3.8 inches (97 mm) at Snow Hill in Worcester county, and 3 inches (76 mm) at Hurlock in Dorchester county.
Dorchester Calvert, Charles, St. Mary's	01/25/04	3 to 4 inches (76 to 102 mm) of snowfall over Lower Southern Maryland.
Caroline, Cecil, Kent, Queen Anne's, Talbot	01/27/04	Specific accumulations included 4.0 inches (102 mm) in Port Deposit (Cecil County) and Rock Hall (Kent County), 3.5 inches (89 mm) in Elkton (Cecil County), 3.0 inches (76 mm) in Conowingo (Cecil County), 1.5 inches (38 mm) in Chestertown (Kent County), 1.0 inch (25 mm) in Stevensville (Queen Anne's County) and traces in both Cordova (Talbot County) and Greensboro (Caroline County).

Table 2.7-117— Snow Storm Events within the General Region of the Site
(Page 9 of 14)

Locations / Counties	Date	Snow Amount
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	02/17/04	0.5 to 2 inches (13 to 51 mm) of snowfall across portions of the Lower Maryland Eastern Shore.
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	12/19/04	0.5 to 2 inches (13 to 51 mm) of snowfall across the Lower Maryland Eastern Shore. Amounts include 1.5 inch (38 mm) at Princess Anne in Somerset county, 1 inch (25 mm) at Salisbury in Wicomico county and at Snow Hill in Worcester county.
Caroline, Cecil, Kent, Queen Anne's, Talbot	12/19/04	Snowfall accumulations were 1 inch (25 mm) or less; black ice formed on area roadways and walkways.
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	01/19/05	0.5 to 1.5 inches (13 to 38 mm) of snowfall across the Lower Maryland Eastern Shore.
Caroline, Cecil, Kent, Queen Anne's, Talbot	01/19/05	Accumulations averaged 2 inches (51 mm) and that specific amount accumulated in Ridgely (Caroline County), Barclay (Queen Anne's County) and Easton (Talbot County).
Dorchester, Wicomico	1/22/2005	A mixture of snow, sleet and freezing rain produced 2 to 4 inches (51 to 102 mm) of snow, and 1/8 to 1/4 of an inch (3 to 6 mm) of ice across portions of the Lower Maryland Eastern Shore.
Caroline, Cecil, Kent, Queen Anne's, Talbot	1/22/2005	Specific snowfall accumulations were 9 inches (229 mm) in Elkton (Cecil County), 8 inches (203 mm) in Chestertown (Kent County), 7.5 inches (191 mm) in Port Deposit (Cecil County), 6.3 inches (160 mm) in Stevensville (Queen Anne's County), 6 inches (152 mm) in Denton (Caroline County) and 4.0 inches (102 mm) in Easton (Talbot County).
Caroline, Queen Anne's, Talbot	1/29/2005	Snow accumulations averaged 3 inches (76 mm) in the northern part of the Eastern Shore and between 3 and 4 inches (76 to 102 mm) in the southern part of the Eastern Shore. In addition to the snow, southern parts of the Eastern Shore also received some sleet and up to 0.25 inches (6 mm) of ice that accrued onto exposed surfaces
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	1/30/2005	A mixture of snow, sleet and freezing rain produced 0.5 to 2 inches (13 to 51 mm) of snow, and around 1/8 of an inch (3 mm) of ice across the Lower Maryland Eastern Shore.

Table 2.7-117— Snow Storm Events within the General Region of the Site
(Page 10 of 14)

Locations / Counties	Date	Snow Amount
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	2/24/2005	1 to 3 inches (25 to 51 mm) of snow fell across the Lower Maryland Eastern Shore. The highest snow amounts were 3 inches (51 mm) at Fruitland in Wicomico county, 3 inches (51 mm) at Salisbury in Wicomico county, 2.8 inches (71 mm) at Vienna in Dorchester county, 2.5 inches (64 mm) at Cambridge in Dorchester county, 2.3 inches (58 mm) at Deal Island in Somerset county, and 2 inches (51 mm) at Pocomoke City in Worcester county.
Allegany, Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore	2/24/2005	Snow totals for this event was 4 to 8 inches (102 to 203 mm).
Caroline, Talbot	2/28/2005	Accumulations averaged 1 to 2 inches (25 to 51 mm) in Talbot and Caroline Counties and 3 to 5 inches (76 to 127 mm) elsewhere across the Eastern Shore. Specific accumulations included 5.0 inches (127 mm) in Elkton (Cecil County). 4.7 inches (119 mm) in Stevensville (Queen Anne's County), 4.5 inches (114 mm) in Conowingo (Cecil County), 4.0 inches (102 mm) in Kennedyville (Kent County), 2.0 inches (51 mm) in Goldsboro (Caroline County) and 1.0 inch (25 mm) in Saint Michaels (Talbot County).
Caroline, Cecil, Kent, Queen Anne's, Talbot	3/8/2005	Accumulations were less than 1 inch (25 mm) in most places, but a sharp drop in temperatures brought treacherous driving conditions on untreated roadways during the afternoon and evening.
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	3/8/2005	0.5 to 1 inch (13 to 25 mm) of snowfall across portions of the Lower Maryland Eastern Shore.
Dorchester, Somerset, Wicomico	12/05/05	3 to 6 inches (76 to 152 mm) of snow and sleet across portions of the Lower Maryland Eastern Shore.
Anne Arundel, Carroll, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Southern Baltimore .	12/05/05	Storm total snowfall was between 0 to 4 inches (0 to 102 mm) in some spots.
Calvert, Charles, Prince George's, St. Mary's	12/06/05	Storm total snowfall was between 4 to 6.5 inches (102 to 165 mm).

Table 2.7-117— Snow Storm Events within the General Region of the Site
(Page 11 of 14)

Locations / Counties	Date	Snow Amount
Anne Arundel, Calvert, Charles, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's	12/09/05	Generally, storm total snowfall ranged between 1 to 4 inches (25 to 102 mm), while ice accumulations were two-tenths of an inch (5 mm) or less.
Allegany, Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's, Washington	02/11/06	Storm total snowfall across much of Maryland ranged generally between 8 to 14 inches (203 to 356 mm). Across portions of the northern Washington DC suburbs and the Baltimore suburbs of Maryland, where localized snowfall ranged between 14 to 22 inches (356 to 559 mm). The highest snowfall total occurred at Columbia Hills, MD, in Howard County, where snowfall was 22.5 inches (572 mm).
Dorchester	02/12/06	4 to 7 inches (102 to 178 mm) of snow across Dorchester county.
Caroline, Cecil, Kent, Queen Anne's, Talbot	02/12/06	The Eastern Shore picked up a significant amount of snow, especially locations farther to the north. Some specific amounts include, 15.0 inches (381 mm) in Elkton (Cecil County), 12.0 inches (305 mm) in Tolchester (Kent County), 8.0 inches (203 mm) in Ridgely (Caroline County), and 7.5 inches (191 mm) in Cordova (Talbot County).
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	01/21/07	0.5 to 1 inch (13 to 25 mm) of snow across portions of the Lower Maryland Eastern Shore
Charles, Prince George's, St. Mary's	01/21/07	Frostburg, MD, reported 3 inches (76 mm) of snow. Total accumulations ranging from 1 to 4 inches (25 to 102 mm) across the region.
Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's, Washington	02/12/07	2 tenths of an inch (5 mm) of ice in Huntingtown, MD. Snow and sleet accumulations ranged from 1 to 9 inches (25 to 229 mm) and ice accumulations ranged from a tenth to three quarters of an inch (3 to 19 mm).
Dorchester, Wicomico	2/6/2007	0.5 inches (13 mm) of snow fell in Cambridge.
Anne Arundel, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Washington	2/6/2007	Snow amounts ranged from 1 to 4 inches (25 to 102 mm) across northern and central Maryland.

Table 2.7-117— Snow Storm Events within the General Region of the Site

(Page 12 of 14)

Locations / Counties	Date	Snow Amount
Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's, Washington	02/12/07	On 2/12/07 1 to 4 inches (25 to 102 mm) of snow and sleet and between 0.25 and 0.50 inches of ice (6 to 13 mm). 2/13/07 Snow and sleet accumulations ranged from 1 to 9 inches (25 to 229 mm) and ice accumulations ranged from a tenth to three quarters of an inch (3 to 19 mm).
Caroline, Talbot	02/13/07	The most significant sleet and ice accumulations occurred in Cecil County where up to a quarter of an inch (6 mm) of ice downed trees and power lines. Some snow/sleet accumulations included 6.0 inches (152 mm) in the city of Conowingo (Cecil County) and 1.7 inches (43 mm) in Stevensville (Queen Anne's County)
Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's, Washington	02/24/07	Anne Arundel County reported between 3 and 5 inches (76 to 127 mm) of snow.
Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, St. Mary's, Washington	02/24/07	In central and eastern Allegany County reported between 4 and 5 inches (102 to 127 mm) of snow.
Dorchester	02/25/07	3.5 inches (89 mm) of snow fell in Cambridge, 2.5 inches (64 mm) of snow fell in Church Creek, and 1.5 inches (38 mm) of snow fell in Vienna.
Caroline, Cecil, Kent, Queen Anne's, Talbot	02/25/07	Snowfall accumulations averaged 2 to 5 inches (56 to 127 mm) with up to around one quarter of an inch (6 mm) of ice accruing on exposed surfaces in Cecil County. Snowfall accumulations included 4.5 inches (114 mm) in Henderson (Caroline County), 4.0 inches (102 mm) in Rock Hall (Kent County), 3.9 inches (99 mm) in Stevensville (Queen Anne's County), 3.0 inches (76 mm) in St Michaels (Talbot County) and at the Conowingo Dam (Cecil County) and 2.0 inches (51 mm) in Elkton (Cecil County) and Cordova (Talbot County).
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	03/07/07	Linkwood reported 1.5 inches (38 mm) of snow, and Cambridge reported 1.0 inch (25 mm) of snow.

Table 2.7-117— Snow Storm Events within the General Region of the Site
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Locations / Counties	Date	Snow Amount
Caroline, Talbot, Queen Anne's	03/07/07	Actual accumulations included 2.8 inches (71 mm) in Denton (Caroline County), 2.0 inches (51 mm) in Easton (Talbot County) and Ridgely (Caroline County), 1.8 inches (46 mm) in Stevensville (Queen Anne's County), 1.0 inches (25 mm) in Elkton (Cecil County) and 0.5 inches (13 mm) in Chestertown (Kent County).
Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Southern Baltimore, Washington	3/7/2007	6 to 10 inches (152 to 254 mm) of snow.
Anne Arundel, Carroll, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Southern Baltimore, Washington	3/16/2007	Snowfall amounts ranged from 2 to 10 inches (51 to 254 mm).
Charles, Prince George's	4/6/2007	1 to 2 inches of snow (25 to 51 mm).
Anne Arundel, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, Washington	12/5/2007	Snow amounts ranged from 1 to 3 inches (25 to 76 mm) across lower southern Maryland north into the Washington and southern Baltimore suburbs, and up to 7 inches (178 mm) in far western Allegany County. 3 to 6 inches (76 to 152 mm) of snow across Anne Arundel County. The observer at Baltimore-Washington International Airport (BWI) measured 4.7 inches (119 mm) of snow.
Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, Washington	01/17/08	3 to 4 inches (76 to 102 mm) of snow in western Allegany County. Significant accumulations of snow and sleet were reported with only a trace of ice.
Caroline, Queen Anne's, Talbot	1/24/2008	Accumulations averaged 1 to 2 inches (25 to 51 mm). Specific accumulations included 2.5 inches (64 mm) in Henderson (Caroline County), 1.5 inches (38 mm) in Marydel (Caroline County), 1.4 inches (36 mm) in Trappe (Talbot County), 1.3 inches (33 mm) in Ridgely and Denton (Caroline County), 1.0 inch (25 mm) on the southern part of Kent Island (Queen Anne's County) and 0.5 inches (13 mm) in Saint Michaels (Talbot County).
Dorchester, Wicomico	1/24/2008	0.5 to 1 inch (13 to 25 mm) of snow occurred in a few areas. Cambridge and East New Market reported 1.0 inch (25 mm) of snow.
Anne Arundel, Carroll, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Prince George's, Southern Baltimore, Washington	2/12/2008	Up to 5 inches (127 mm) of snow. Mostly ice was reported further east into the Baltimore Metro and northern Washington DC suburbs.

Table 2.7-117— Snow Storm Events within the General Region of the Site
(Page 14 of 14)

Locations / Counties	Date	Snow Amount
Dorchester, Inland Worcester	2/14/2008	0.5 to 2.5 inches (13 to 64 mm) of snow over portions of the Lower Maryland Eastern Shore. Church Creek reported 2.0 inches (51 mm) of snowfall.
Anne Arundel	2/14/2008	1 to 2 inches (25 to 51 mm) of snow in St. Mary's County.
Caroline, Talbot	2/14/2008	Snow accumulations were less than 1 inch (25 mm) and ice accretions were minimal.
Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Northern Baltimore, Prince George's, Southern Baltimore, Washington	02/20/08	Snow amounts ranged from 3 to 5 inches (76 to 127 mm) along and west of the Allegany Front to 1 to 2 inches (25 to 51 mm) further east across the Baltimore Metro and south across lower southern Maryland.
Anne Arundel, Calvert, Carroll, Charles, Frederick, Harford, Northern Baltimore, Prince George's, Southern Baltimore, Washington	02/22/08	1 to 2 inches (25 to 51 mm) across the Baltimore Metro and south across lower southern Maryland.
Dorchester, Inland Worcester, Maryland Beaches, Somerset, Wicomico	01/27/09	0.5 to 1 inch (13 to 25 mm) occurred across portions of the county. Cambridge reported 1.0 inch (25 mm). Light snow between 0.5 to 1.5 inches (13 to 38 mm) occurred across portions of the Lower Maryland Eastern Shore.
Charles, St. Mary's	01/27/09	Ice accumulation around one tenth of an inch (3 mm). Snow and sleet accumulation around 2 inches (51 mm) was reported throughout the county.
Dorchester	03/01/09	Snowfall amounts were generally between 4 to 11 inches (102 to 279 mm) across the county. Church Creek reported 11.0 inches (279 mm) of snow. Cambridge reported 6.0 inches (152 mm) of snow.
Calvert, St. Mary's Carroll, Charles, Frederick, Harford, Howard, Montgomery, Northern Baltimore, Southern Baltimore	03/01/09	Snowfall totaled up to 13.0 inches (330 mm) in Port Republic. Snowfall amounts averaged between 6 and 10 inches (152 to 254 mm) across the rest of St. Mary's the county. Snowfall reports throughout northern Baltimore County averaged 5 to 7 inches (127 to 178 mm). Snowfall totals averaged around 2 to 5 inches (51 to 127 mm) across Charles county.

a. Colora is greater than 50 mi (80 km) from the site.

Table 2.7-118— Record 1-Day Snowfall Events within 50 mile (80 km) of the Site

Location	Record 1-Day Snowfall in (mm)
Owings Ferry Landing, MD	26.0 (660.4)
US Naval Academy, MD	24.0 (609.6)
Cambridge, MD	24.0 (609.6)
Baltimore Airport, MD	22.8 (579.1)
Vienna, MD	22.0 (558.8)
Upper Marlboro, MD	22.0 (558.8)
Mechanicsville, MD	21.0 (533.4)
La Plata, MD	20.0 (508.0)
Royal Oak, MD	20.0 (508.0)
Blackwater Refuge, MD	18.0 (457.2)
Roanoke, VA	16.9 (429.3)
Washington/National, VA	16.4 (416.6)
Fort Meade, MD	16.0 (406.4)
Easton Police Barracks, MD	16.0 (406.4)
Waldorf Police Barrack, MD	15.0 (381.0)
Solomons, MD	15.0 (381.0)
Patuxent River NAS, MD	14.2 (360.7)
Prince Frederick, MD	13.0 (330.2)
Annapolis Water Works, MD	11.5 (292.1)
Washington/Dulles, VA	10.6 (269.2)

Note:
Summary of corroborated record 1-day snowfall events within approximately 50 mi (80 km) of the site occurring during a period of record from 1917 through 1998. (NOAA, 2009b), (NOAA, 2009c), (SERCC, 2009).

Table 2.7-119— Tropical Cyclone-Related Extreme Rainfall Events

Location	Precipitation in (mm)	Storm
Cambridge Water Treatment Plant, MD	10.3 (261.6)	Unnamed September 1935
La Plata, MD	9.8 (248.9)	Doria August 1971
Blackwater Refuge, MD	8.6 (218.4)	Connie August 1955
Annapolis Police Barracks, MD	8.32 (211.3)	Floyd September 1999
Easton Police Barracks, MD	8.26 (209.8)	Unnamed September 1935
Mechanicsville, MD	8.1 (205.7)	Ernesto September 2006
Royal Oak, MD	7.9 (200.7)	Floyd September 1999
Prince Frederick MD	7.43 (188.7)	Connie August 1955
Solomons, MD	7.4 (188.0)	Unnamed September 1935
Preston, MD	7.14 (181.4)	Donna September 1960
Glenn Dale Bell Station, MD	6.98 (177.3)	Connie August 1955
Owings Ferry Landing, MD	6.54 (166.1)	Gloria September 1985
Fort Meade, MD	6.48 (164.6)	Connie August 1955
Waldorf Police Barracks, MD	6.45 (163.8)	Connie August 1955
Washington National Airport, VA	6.11 (155.2)	Agnes June 1972
Crisfield Somers Cove, MD	4.6 (116.8)	Camille August 1969

Note:
Historical tropical cyclone-related extreme rainfall events that have occurred within the site area over a period of record from 1851 through 2008 identified using information from (NOAA, 2009a), (NOAA, 2009b), (SERCC, 2009).

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
(Page 1 of 56)

Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2000	1	1	55.9	39.0	46.2
2000	1	2	68.5	50.0	59.0
2000	1	3	70.2	58.8	63.8
2000	1	4	72.7	49.5	63.3
2000	1	5	49.8	38.1	41.6
2000	1	6	46.8	35.2	40.5
2000	1	7	54.5	38.8	44.8
2000	1	8	44.1	34.0	39.6
2000	1	9	49.5	40.8	44.1
2000	1	10	58.1	44.4	51.0
2000	1	11	60.1	42.4	51.4
2000	1	12	53.1	36.9	44.5
2000	1	13	65.3	34.0	47.2
2000	1	14	31.2	23.6	27.4
2000	1	15	35.4	21.6	28.4
2000	1	16	60.3	34.9	45.3
2000	1	17	32.9	20.0	24.3
2000	1	18	20.4	15.7	17.8
2000	1	19	37.6	15.5	28.2
2000	1	20	36.3	28.3	33.0
2000	1	21	26.5	16.8	21.2
2000	1	22	27.0	15.7	21.1
2000	1	23	29.2	26.0	27.9
2000	1	24	37.0	29.2	33.1
2000	1	26	33.8	21.1	27.1
2000	1	27	26.0	17.5	21.1
2000	1	28	32.4	14.8	23.3
2000	1	29	29.9	17.9	24.9
2000	1	30	30.1	22.0	27.1
2000	1	31	34.3	24.3	29.3
2000	2	1	35.4	22.4	29.6
2000	2	2	34.9	23.4	29.6
2000	2	3	43.9	26.5	34.1
2000	2	4	32.9	29.7	31.9
2000	2	5	40.1	31.2	34.8
2000	2	6	39.4	30.6	34.2
2000	2	7	50.4	32.9	41.2
2000	2	8	38.5	27.6	31.0
2000	2	9	51.8	27.0	38.4

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2000	2	10	51.1	39.2	44.9
2000	2	11	62.8	41.0	48.8
2000	2	12	39.7	25.6	31.1
2000	2	13	38.1	23.1	32.4
2000	2	14	62.1	37.8	50.8
2000	2	15	45.5	35.4	39.9
2000	2	16	64.8	36.1	49.6
2000	2	17	43.9	33.6	36.1
2000	2	18	46.9	31.5	36.7
2000	2	19	56.1	38.5	46.6
2000	2	20	44.6	36.1	39.6
2000	2	21	43.3	34.3	38.0
2000	2	22	49.6	33.1	41.1
2000	2	23	60.4	34.7	47.5
2000	2	24	69.1	49.8	58.8
2000	2	25	75.6	54.1	63.5
2000	2	26	52.7	41.9	44.0
2000	2	27	65.7	43.2	52.4
2000	2	28	58.8	46.6	52.8
2000	2	29	54.9	39.0	47.8
2000	3	1	61.9	42.8	54.6
2000	3	2	58.6	41.2	50.3
2000	3	3	53.2	34.7	44.2
2000	3	4	51.6	39.6	44.1
2000	3	5	67.6	42.6	55.6
2000	3	6	55.2	41.4	49.0
2000	3	7	66.6	41.0	54.3
2000	3	8	84.0	58.8	70.8
2000	3	9	79.5	64.6	72.1
2000	3	10	69.4	53.6	62.7
2000	3	11	72.0	49.5	56.2
2000	3	12	60.1	37.4	48.9
2000	3	13	44.8	33.1	39.6
2000	3	14	54.1	37.2	46.1
2000	3	15	67.8	47.1	56.0
2000	3	16	68.7	55.6	61.1
2000	3	17	62.4	35.2	49.9
2000	3	18	39.9	29.7	34.1
2000	3	19	46.6	34.2	41.2

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2000	3	20	48.2	40.1	43.3
2000	3	21	45.0	42.3	43.8
2000	3	22	46.2	41.9	43.6
2000	3	23	55.2	42.1	48.0
2000	3	24	62.6	50.4	54.7
2000	3	25	75.4	48.4	60.0
2000	3	26	66.6	56.7	61.6
2000	3	27	66.9	50.7	57.2
2000	3	28	59.9	46.0	52.1
2000	3	29	61.2	43.5	51.9
2000	4	1	65.1	44.4	54.3
2000	4	2	69.4	55.0	60.0
2000	4	3	73.2	61.2	66.2
2000	4	4	70.2	46.2	59.9
2000	4	5	61.5	37.4	46.8
2000	4	6	86.2	37.0	62.6
2000	4	7	69.8	47.1	61.5
2000	4	8	77.9	40.6	62.4
2000	4	9	53.8	33.1	43.9
2000	4	10	64.9	42.4	53.1
2000	4	11	56.3	51.8	54.2
2000	4	12	57.0	46.6	53.0
2000	4	13	48.9	43.5	46.2
2000	4	14	55.0	43.5	49.6
2000	4	15	57.9	50.2	53.8
2000	4	16	76.1	57.9	65.5
2000	4	17	64.4	49.5	55.6
2000	4	18	50.0	46.4	48.4
2000	4	19	56.1	45.9	50.5
2000	4	20	63.5	45.7	54.5
2000	4	21	67.3	52.5	58.6
2000	4	22	56.5	47.5	52.2
2000	4	23	57.0	46.9	52.5
2000	4	24	62.2	47.7	54.9
2000	4	25	52.9	46.0	49.2
2000	4	26	53.2	45.5	48.8
2000	4	27	51.4	45.7	48.4
2000	4	28	57.2	48.2	52.8
2000	4	29	66.0	50.9	56.6

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
(Page 4 of 56)

Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2000	4	30	64.0	53.4	59.2
2000	5	1	74.7	48.7	63.1
2000	5	2	72.0	58.3	65.5
2000	5	3	69.6	52.0	60.7
2000	5	4	70.9	52.9	63.1
2000	5	5	85.1	63.9	73.3
2000	5	6	85.3	68.5	77.0
2000	5	7	89.8	70.7	79.8
2000	5	8	88.9	69.6	79.0
2000	5	9	87.3	70.9	78.8
2000	5	10	86.2	59.9	75.0
2000	5	11	76.8	55.4	66.1
2000	5	12	88.3	65.3	76.6
2000	5	13	88.3	64.0	76.0
2000	5	14	74.7	61.2	67.9
2000	5	15	66.9	57.7	62.2
2000	5	16	71.2	49.3	62.5
2000	5	17	71.4	57.0	64.8
2000	5	18	85.1	66.9	76.0
2000	5	19	80.2	57.2	71.8
2000	5	20	59.7	55.0	57.3
2000	5	21	63.3	56.5	60.3
2000	5	22	61.3	56.5	59.2
2000	5	23	67.8	58.6	63.8
2000	5	24	84.0	65.8	74.2
2000	5	25	75.6	64.9	70.3
2000	5	26	78.3	62.1	70.4
2000	5	27	69.3	58.5	63.5
2000	5	28	63.1	56.7	60.3
2000	5	29	60.8	55.0	57.8
2000	5	30	59.9	53.8	56.5
2000	6	1	84.7	57.7	72.0
2000	6	2	90.9	64.8	80.2
2000	6	3	69.6	59.0	67.0
2000	6	4	70.3	57.0	63.8
2000	6	5	66.9	58.6	62.5
2000	6	6	62.4	58.6	59.8
2000	6	7	72.9	55.9	63.4
2000	6	8	78.1	59.7	69.4

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2000	6	9	85.1	63.5	74.3
2000	6	10	88.0	68.4	78.0
2000	6	11	89.8	71.6	80.2
2000	6	12	88.3	71.4	78.6
2000	6	13	72.0	62.4	66.5
2000	6	14	70.9	61.0	65.5
2000	6	15	84.9	65.7	74.8
2000	6	16	84.0	67.3	76.2
2000	6	17	85.8	72.0	78.1
2000	6	18	86.4	69.8	76.1
2000	6	19	72.7	66.2	68.9
2000	6	20	77.9	65.5	70.1
2000	6	21	82.4	63.0	73.6
2000	6	22	80.8	68.0	74.7
2000	6	23	82.6	68.0	75.6
2000	6	24	82.8	68.4	76.6
2000	6	25	84.4	72.9	78.5
2000	6	26	87.8	71.2	79.0
2000	6	27	86.9	68.7	76.7
2000	6	28	73.0	68.7	70.6
2000	6	29	74.3	65.3	69.5
2000	6	30	75.7	62.1	69.0
2000	7	1	77.9	64.9	71.5
2000	7	2	82.4	64.8	73.4
2000	7	3	84.2	68.9	76.6
2000	7	4	85.1	69.8	77.1
2000	7	5	80.6	70.0	76.2
2000	7	6	79.2	70.3	75.6
2000	7	7	76.6	70.9	74.0
2000	7	8	74.3	65.1	69.8
2000	7	9	84.7	64.2	75.8
2000	7	10	89.6	69.4	80.1
2000	7	11	74.1	66.2	71.1
2000	7	12	76.6	64.6	71.4
2000	7	13	77.7	63.7	70.4
2000	7	14	82.2	66.9	73.4
2000	7	15	73.9	63.0	67.3
2000	7	16	74.5	62.8	67.8
2000	7	17	78.1	63.7	71.0

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
(Page 6 of 56)

Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2000	7	18	85.3	67.5	76.9
2000	7	19	77.7	61.7	69.9
2000	7	20	73.2	61.5	67.1
2000	7	21	79.5	64.9	72.5
2000	7	22	77.9	69.4	72.8
2000	7	23	75.7	66.4	72.5
2000	7	24	70.9	66.7	68.9
2000	7	25	69.6	64.4	67.4
2000	7	26	72.1	65.8	68.4
2000	7	27	74.8	65.8	69.6
2000	7	28	79.5	65.3	72.3
2000	7	29	80.2	65.3	72.1
2000	7	30	80.2	71.4	75.2
2000	7	31	82.4	70.2	75.3
2000	8	1	84.9	71.6	77.9
2000	8	2	83.5	72.0	76.9
2000	8	3	80.2	68.5	75.8
2000	8	4	81.9	69.4	73.2
2000	8	5	75.6	67.1	71.2
2000	8	6	76.8	64.6	71.5
2000	8	7	89.8	76.5	82.4
2000	8	8	86.5	74.8	80.5
2000	8	9	86.7	72.1	79.3
2000	8	10	81.9	70.3	76.3
2000	8	11	83.3	70.5	76.4
2000	8	12	75.4	67.1	71.5
2000	8	13	68.5	63.3	66.4
2000	8	14	69.8	63.7	66.3
2000	8	15	79.7	63.0	72.0
2000	8	16	86.2	71.2	77.8
2000	8	17	74.8	63.0	68.7
2000	8	18	74.1	65.7	70.1
2000	8	19	72.7	60.6	67.0
2000	8	20	69.4	57.9	65.6
2000	8	21	70.3	58.6	64.5
2000	8	22	74.3	59.7	67.4
2000	8	23	79.7	62.4	70.7
2000	8	24	78.4	67.5	72.5
2000	8	25	76.1	65.1	72.0

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2000	8	26	79.2	63.7	71.4
2000	8	27	78.8	65.5	70.0
2000	8	28	74.5	64.2	69.7
2000	8	29	77.2	69.8	73.0
2000	8	30	75.4	70.9	72.9
2000	8	31	79.0	72.0	75.2
2000	9	1	82.2	74.7	77.3
2000	9	2	82.8	71.8	75.6
2000	9	3	79.7	71.4	74.1
2000	9	4	79.7	70.9	74.6
2000	9	5	72.3	59.2	62.7
2000	9	6	66.7	59.4	62.9
2000	9	7	68.0	59.0	63.4
2000	9	8	74.1	58.6	66.6
2000	9	9	77.9	63.7	70.4
2000	9	10	79.5	64.6	71.6
2000	9	11	77.4	65.1	70.9
2000	9	12	81.0	66.6	73.1
2000	9	13	77.4	70.0	73.6
2000	9	14	76.8	67.3	71.9
2000	9	15	72.0	55.4	66.8
2000	9	16	64.6	49.8	57.0
2000	9	17	66.9	49.3	58.1
2000	9	18	68.5	55.6	62.2
2000	9	19	72.0	59.5	65.2
2000	9	20	82.0	59.4	71.6
2000	9	21	75.4	65.1	70.9
2000	9	22	68.7	56.5	63.5
2000	9	23	68.2	62.8	65.4
2000	9	24	75.9	65.7	69.6
2000	9	25	65.1	50.0	55.4
2000	9	26	53.6	49.6	52.0
2000	9	27	63.3	47.1	55.3
2000	9	28	67.8	52.7	60.1
2000	9	29	59.9	52.3	55.9
2000	9	30	63.0	54.5	58.3
2000	10	1	65.8	58.1	62.5
2000	10	2	68.7	58.8	63.2
2000	10	3	81.5	60.3	70.1

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2000	10	5	71.1	55.6	67.4
2000	10	6	81.5	63.7	70.2
2000	10	7	62.2	49.8	56.4
2000	10	8	54.5	43.5	48.6
2000	10	9	50.5	38.3	44.2
2000	10	10	61.0	41.4	50.5
2000	10	11	66.9	48.0	57.0
2000	10	12	68.2	51.6	59.1
2000	10	13	72.5	50.0	60.9
2000	10	14	74.3	51.3	63.3
2000	10	15	75.0	53.1	65.0
2000	10	16	73.8	58.1	64.8
2000	10	17	65.8	61.7	63.3
2000	10	18	68.0	60.1	63.3
2000	10	19	69.8	52.0	60.5
2000	10	20	70.0	48.2	59.0
2000	10	21	75.0	55.4	63.4
2000	10	22	65.7	55.0	61.7
2000	10	23	61.5	50.4	56.5
2000	10	24	61.3	48.2	54.7
2000	10	25	65.3	51.6	58.4
2000	10	26	58.3	51.3	56.3
2000	10	27	65.7	57.2	59.6
2000	10	28	66.6	49.8	59.2
2000	10	29	56.3	35.8	47.9
2000	10	30	55.9	39.0	48.6
2000	10	31	57.2	38.8	48.1
2000	11	1	56.8	38.5	49.3
2000	11	2	57.4	45.7	52.4
2000	11	3	61.9	42.4	53.9
2000	11	4	63.7	53.4	58.4
2000	11	5	56.7	44.2	51.2
2000	11	6	53.6	38.5	46.3
2000	11	7	55.8	38.5	48.8
2000	11	8	58.6	46.6	53.6
2000	11	9	61.0	55.0	58.5
2000	11	10	64.8	49.5	57.1
2000	11	11	59.0	48.6	52.7
2000	11	12	51.3	43.0	46.9

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2000	11	13	55.0	40.5	48.2
2000	11	14	52.7	38.5	48.5
2000	11	15	45.7	35.6	39.7
2000	11	16	50.0	30.6	42.6
2000	11	17	55.8	36.3	46.9
2000	11	18	43.2	31.0	37.5
2000	11	19	38.5	32.7	36.1
2000	11	20	48.2	31.4	37.3
2000	11	21	36.7	27.2	31.6
2000	11	22	34.3	23.6	29.1
2000	11	23	35.8	25.4	30.7
2000	11	24	38.5	29.2	34.0
2000	11	25	51.3	34.9	41.0
2000	11	26	59.5	47.5	52.5
2000	11	27	56.1	45.3	50.0
2000	11	28	53.8	36.9	45.9
2000	11	29	47.5	32.7	42.2
2000	11	30	45.5	36.1	40.7
2000	12	1	44.4	32.2	38.9
2000	12	2	38.5	31.2	34.0
2000	12	3	33.4	25.4	29.0
2000	12	4	39.7	22.9	32.3
2000	12	5	47.3	32.2	38.5
2000	12	6	32.9	24.3	28.7
2000	12	7	37.9	31.4	34.4
2000	12	8	41.0	36.0	38.3
2000	12	9	37.6	33.1	34.9
2000	12	10	36.7	32.9	34.7
2000	12	11	41.4	32.5	36.4
2000	12	12	53.2	29.0	42.1
2000	12	13	32.4	26.1	29.0
2000	12	14	43.5	31.2	35.7
2000	12	15	37.0	33.4	35.4
2000	12	16	48.4	35.1	39.7
2000	12	17	58.8	31.4	48.5
2000	12	18	35.4	25.6	30.7
2000	12	19	41.9	27.6	35.4
2000	12	20	28.7	17.9	23.9
2000	12	21	33.1	20.7	27.7

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2000	12	22	32.7	15.2	27.1
2000	12	23	26.3	11.7	19.1
2000	12	24	38.3	21.5	29.5
2000	12	25	28.8	17.7	21.4
2000	12	26	26.5	12.8	20.3
2000	12	27	29.7	21.5	26.7
2000	12	28	27.9	23.1	25.6
2000	12	29	26.0	16.6	22.6
2000	12	30	31.4	19.8	26.4
2000	12	31	35.8	19.8	26.8
2001	1	1	33.8	22.9	28.2
2001	1	2	29.9	22.9	27.0
2001	1	3	30.8	16.8	23.7
2001	1	4	34.9	21.6	28.0
2001	1	5	31.7	23.1	28.2
2001	1	6	39.7	30.1	34.3
2001	1	7	45.5	28.5	36.3
2001	1	8	40.5	31.2	33.4
2001	1	9	34.0	25.6	29.2
2001	1	10	42.3	26.0	32.1
2001	1	11	56.3	30.1	42.0
2001	1	12	45.7	31.4	35.3
2001	1	13	38.3	28.3	32.8
2001	1	14	46.2	28.1	36.0
2001	1	15	38.5	34.9	36.7
2001	1	16	46.6	33.8	38.4
2001	1	17	41.4	31.2	36.1
2001	1	18	36.5	33.3	34.4
2001	1	19	39.2	34.0	35.7
2001	1	20	35.2	31.0	33.7
2001	1	21	32.2	24.7	28.7
2001	1	22	29.7	23.4	27.1
2001	1	23	31.7	23.3	28.0
2001	1	24	43.7	26.5	34.6
2001	1	25	37.2	28.1	33.3
2001	1	26	34.2	22.7	28.3
2001	1	27	44.6	32.2	37.6
2001	1	28	42.4	26.5	34.8
2001	1	29	39.9	28.8	34.4

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)

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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2001	1	30	61.9	37.9	49.1
2001	1	31	56.5	43.5	50.7
2001	2	1	45.7	36.9	41.8
2001	2	2	49.5	29.4	39.7
2001	2	3	34.0	23.4	28.1
2001	2	4	40.3	27.2	34.1
2001	2	5	40.6	33.8	35.7
2001	2	6	48.0	31.4	39.4
2001	2	7	47.8	36.5	41.2
2001	2	8	51.6	33.6	41.7
2001	2	9	66.9	47.8	57.4
2001	2	10	61.9	35.6	50.9
2001	2	11	34.2	26.1	30.1
2001	2	12	33.1	27.4	29.9
2001	2	13	44.4	30.6	37.2
2001	2	14	51.4	39.7	44.2
2001	2	15	56.1	39.6	46.8
2001	2	16	43.5	37.8	39.3
2001	2	17	40.8	25.8	36.2
2001	2	18	32.9	20.9	26.4
2001	2	19	45.7	24.5	35.6
2001	2	20	63.7	41.0	51.6
2001	2	21	55.2	31.0	46.6
2001	2	22	29.6	22.2	24.5
2001	2	23	42.1	20.7	32.0
2001	2	24	37.8	31.5	33.8
2001	2	25	61.0	33.1	45.6
2001	2	26	57.2	40.8	49.7
2001	2	27	53.2	34.9	42.8
2001	2	28	42.1	31.7	36.4
2001	3	1	45.0	29.7	36.6
2001	3	2	50.5	35.6	43.4
2001	3	3	52.7	38.7	45.9
2001	3	4	43.7	38.5	40.2
2001	3	5	38.8	28.5	34.4
2001	3	6	36.0	23.1	29.3
2001	3	7	43.9	32.0	37.7
2001	3	8	43.7	29.4	36.6
2001	3	9	43.5	33.3	39.5

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2001	3	10	44.6	28.7	36.2
2001	3	11	62.1	32.2	45.9
2001	3	12	47.7	36.5	41.2
2001	3	13	67.5	39.2	49.9
2001	3	14	59.7	44.6	51.6
2001	3	15	50.4	40.5	44.6
2001	3	16	47.8	39.7	43.6
2001	3	17	50.4	41.5	45.2
2001	3	18	46.9	33.6	41.0
2001	3	19	47.1	36.5	41.5
2001	3	20	50.7	36.1	42.9
2001	3	21	47.8	42.3	45.3
2001	3	22	51.4	39.6	45.4
2001	3	23	57.9	41.2	49.1
2001	3	24	65.7	40.8	49.3
2001	3	25	43.7	34.3	38.3
2001	3	26	36.9	28.7	33.7
2001	3	27	38.3	23.1	31.2
2001	3	28	44.2	28.5	35.9
2001	3	29	49.1	37.9	41.4
2001	3	30	55.6	43.2	50.5
2001	3	31	46.4	41.7	42.9
2001	4	1	43.3	41.0	42.5
2001	4	2	52.3	40.5	45.1
2001	4	3	52.2	39.0	46.0
2001	4	4	51.1	42.6	46.6
2001	4	5	59.0	39.6	48.8
2001	4	6	72.0	47.8	58.9
2001	4	7	64.9	45.5	56.1
2001	4	8	56.3	43.7	48.8
2001	4	9	87.4	52.9	68.4
2001	4	10	67.3	51.1	59.3
2001	4	11	55.4	50.4	52.6
2001	4	12	75.4	52.2	63.2
2001	4	13	76.3	60.8	68.6
2001	4	14	66.2	53.2	58.5
2001	4	15	68.5	50.9	56.8
2001	4	16	50.7	44.4	47.8
2001	4	17	48.6	38.5	43.4

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2001	4	18	48.0	34.9	41.7
2001	4	19	58.8	33.4	45.3
2001	4	20	73.2	43.2	58.1
2001	4	21	72.7	56.5	64.6
2001	4	22	82.8	61.5	70.5
2001	4	23	81.1	64.4	72.3
2001	4	24	83.5	56.1	67.8
2001	4	25	56.1	48.0	49.8
2001	4	26	58.5	41.9	51.4
2001	4	27	74.3	41.9	59.2
2001	4	28	62.6	55.0	58.3
2001	4	29	57.2	46.0	51.9
2001	4	30	66.4	44.1	55.6
2001	5	1	75.0	53.4	63.6
2001	5	2	78.4	56.8	67.5
2001	5	3	82.4	60.1	70.6
2001	5	4	83.5	61.5	71.7
2001	5	5	77.4	60.6	67.9
2001	5	6	63.7	49.1	58.3
2001	5	7	60.6	46.0	52.6
2001	5	8	64.9	46.6	55.6
2001	5	9	65.3	52.7	58.7
2001	5	10	76.5	56.3	66.4
2001	5	11	83.3	61.5	71.5
2001	5	12	78.4	62.2	69.3
2001	5	13	64.8	53.4	59.3
2001	5	14	63.7	46.8	56.7
2001	5	15	66.2	51.8	58.5
2001	5	16	64.8	49.5	58.2
2001	5	17	60.1	52.2	56.2
2001	5	18	62.4	56.7	59.8
2001	5	19	65.8	59.9	61.9
2001	5	20	63.0	55.6	60.0
2001	5	21	64.8	55.9	60.4
2001	5	22	75.7	62.4	68.1
2001	5	23	70.7	56.3	63.1
2001	5	24	74.3	55.4	65.3
2001	5	25	68.5	59.4	62.5
2001	5	26	62.8	57.4	60.1

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2001	5	27	73.0	58.3	65.5
2001	5	28	69.1	60.3	64.4
2001	5	29	71.6	59.2	64.7
2001	5	30	67.5	57.4	62.7
2001	5	31	65.8	49.3	57.6
2001	6	1	66.2	52.5	61.3
2001	6	2	72.1	64.2	66.5
2001	6	3	71.8	58.1	65.3
2001	6	4	71.8	57.4	65.0
2001	6	5	75.2	60.6	67.3
2001	6	6	73.6	64.4	69.6
2001	6	7	68.9	60.6	64.5
2001	6	8	75.6	60.8	67.5
2001	6	9	76.8	59.0	68.4
2001	6	10	78.3	62.1	70.3
2001	6	11	82.4	64.4	74.1
2001	6	12	84.2	68.5	76.9
2001	6	13	85.6	71.2	77.7
2001	6	14	79.7	72.1	75.2
2001	6	15	81.0	72.3	76.1
2001	6	16	74.5	71.8	73.5
2001	6	17	83.7	67.3	75.3
2001	6	18	79.3	68.7	73.4
2001	6	19	81.5	63.9	72.9
2001	6	20	83.8	68.0	75.5
2001	6	21	81.7	66.7	74.6
2001	6	22	79.3	70.7	75.0
2001	6	23	75.4	66.4	70.1
2001	6	24	74.3	64.9	69.2
2001	6	25	79.0	62.6	71.6
2001	6	26	81.7	65.5	73.8
2001	6	27	84.4	67.3	76.2
2001	6	28	87.4	72.9	79.9
2001	6	29	87.8	72.3	79.9
2001	6	30	88.2	74.3	80.3
2001	7	1	83.5	67.6	77.1
2001	7	2	69.1	55.6	63.9
2001	7	3	72.5	57.9	66.5
2001	7	4	82.4	68.2	74.3

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
(Page 15 of 56)

Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2001	7	5	82.6	66.6	74.5
2001	7	6	75.6	61.9	68.2
2001	7	7	77.5	61.0	70.1
2001	7	8	77.7	64.0	71.5
2001	7	9	82.4	68.2	75.2
2001	7	10	86.2	68.4	77.1
2001	7	11	83.5	67.5	75.2
2001	7	12	76.3	62.6	69.6
2001	7	13	77.7	63.7	70.6
2001	7	14	77.7	61.2	70.0
2001	7	15	78.8	66.9	72.9
2001	7	16	83.8	66.2	74.2
2001	7	17	86.7	70.5	77.3
2001	7	18	77.0	70.3	73.0
2001	7	19	75.2	66.6	71.3
2001	7	20	76.3	65.3	70.0
2001	7	21	77.9	58.6	69.4
2001	7	22	80.1	61.9	71.4
2001	7	23	83.1	68.4	75.1
2001	7	24	86.0	72.9	78.9
2001	7	25	85.6	75.2	80.3
2001	7	26	84.0	67.3	74.7
2001	7	27	74.1	64.6	69.5
2001	7	28	73.2	59.0	67.7
2001	7	29	67.3	59.9	63.6
2001	7	30	74.7	64.9	69.2
2001	7	31	77.0	60.8	69.4
2001	8	1	79.0	63.1	70.4
2001	8	2	79.9	62.1	70.8
2001	8	3	81.5	66.2	73.2
2001	8	4	82.0	69.4	74.2
2001	8	5	80.8	71.1	76.3
2001	8	8	92.3	78.4	84.8
2001	8	9	93.4	79.2	85.3
2001	8	10	92.7	75.2	83.3
2001	8	11	85.5	73.4	76.9
2001	8	12	81.5	70.2	75.0
2001	8	13	77.0	68.4	73.3
2001	8	14	80.1	67.5	73.5

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
(Page 16 of 56)

Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2001	8	15	79.3	70.0	74.1
2001	8	16	81.3	65.7	73.8
2001	8	17	83.7	72.5	76.8
2001	8	18	81.3	70.9	75.9
2001	8	19	79.3	69.4	74.4
2001	8	20	81.5	73.0	76.5
2001	8	21	79.5	65.8	72.7
2001	8	22	81.9	65.8	73.4
2001	8	23	83.8	69.3	75.1
2001	8	24	78.8	66.7	72.5
2001	8	25	78.8	68.7	73.5
2001	8	26	79.2	61.7	70.8
2001	8	27	84.0	69.4	74.7
2001	8	28	83.7	69.6	75.6
2001	8	29	80.6	72.1	76.0
2001	8	30	81.3	68.7	75.1
2001	8	31	80.8	69.8	75.8
2001	9	1	76.5	66.7	72.4
2001	9	2	72.5	63.9	67.9
2001	9	3	77.2	65.5	70.3
2001	9	4	81.7	65.5	73.7
2001	9	5	73.9	66.9	70.9
2001	9	6	73.6	56.7	66.6
2001	9	7	75.9	60.6	68.6
2001	9	8	80.1	65.1	72.1
2001	9	9	80.8	66.9	73.9
2001	9	10	82.8	70.0	74.7
2001	9	11	76.3	63.9	70.3
2001	9	12	74.1	62.2	69.6
2001	9	13	79.0	59.0	68.9
2001	9	14	66.6	56.3	62.1
2001	9	15	65.5	56.8	61.2
2001	9	16	68.2	50.4	62.4
2001	9	17	72.1	52.5	62.4
2001	9	18	75.9	56.3	65.1
2001	9	19	73.2	60.1	67.3
2001	9	20	70.3	66.4	68.3
2001	9	21	73.6	62.6	68.0
2001	9	22	77.2	65.1	70.2

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)

(Page 17 of 56)

Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2001	9	23	75.2	67.1	70.6
2001	9	24	76.1	67.6	70.7
2001	9	25	68.5	52.9	60.5
2001	9	26	60.8	43.3	53.5
2001	9	27	68.7	49.3	59.0
2001	9	28	59.7	48.4	54.2
2001	9	29	62.2	49.3	56.9
2001	9	30	58.6	51.3	54.9
2001	10	1	60.1	48.4	53.7
2001	10	2	74.3	53.2	63.0
2001	10	3	79.3	58.6	68.4
2001	10	4	79.3	61.3	68.6
2001	10	5	78.3	58.6	68.8
2001	10	6	69.4	49.1	59.0
2001	10	7	55.4	42.1	49.1
2001	10	8	52.3	37.6	46.0
2001	10	9	58.1	36.7	49.0
2001	10	10	69.6	46.8	57.7
2001	10	11	73.9	56.5	63.3
2001	10	12	73.8	55.4	63.7
2001	10	13	72.9	57.6	64.9
2001	10	14	71.4	59.0	65.3
2001	10	15	67.1	51.8	59.3
2001	10	16	66.0	47.7	57.9
2001	10	17	64.8	36.7	48.9
2001	10	18	56.8	33.4	46.0
2001	10	19	62.2	41.7	52.0
2001	10	20	69.1	53.4	60.1
2001	10	21	73.6	53.2	63.2
2001	10	22	75.2	58.8	65.9
2001	10	23	74.7	58.8	66.9
2001	10	24	80.8	64.0	71.0
2001	10	25	75.9	57.7	69.3
2001	10	26	57.6	41.9	52.1
2001	10	27	49.8	38.3	43.9
2001	10	28	49.1	39.4	43.0
2001	10	29	54.3	32.7	43.7
2001	10	30	58.3	43.0	52.5
2001	10	31	60.3	41.5	52.6

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2001	11	1	69.4	49.8	58.9
2001	11	2	74.7	57.6	65.2
2001	11	3	68.7	57.0	63.0
2001	11	4	62.6	50.2	55.0
2001	11	5	54.9	42.1	49.2
2001	11	6	54.5	38.8	45.5
2001	11	7	68.4	43.7	56.4
2001	11	8	66.7	51.3	57.4
2001	11	9	59.2	44.8	51.8
2001	11	10	67.3	40.3	53.0
2001	11	11	54.9	43.3	51.2
2001	11	12	45.7	34.7	40.3
2001	11	13	53.1	34.7	43.4
2001	11	14	62.2	40.6	50.3
2001	11	15	66.0	44.4	54.3
2001	11	16	72.7	48.4	60.3
2001	11	17	60.8	47.8	52.6
2001	11	18	55.6	42.3	48.6
2001	11	19	67.1	45.9	55.7
2001	11	20	60.1	37.4	48.7
2001	11	21	46.8	33.6	39.2
2001	11	22	54.5	35.2	44.5
2001	11	23	58.1	42.3	50.1
2001	11	24	61.3	49.8	55.4
2001	11	25	65.7	57.9	61.4
2001	11	26	59.0	52.7	55.1
2001	11	27	57.4	48.6	53.3
2001	11	28	57.9	54.3	56.6
2001	11	29	64.0	54.5	58.9
2001	11	30	70.2	61.7	65.8
2001	12	1	69.8	54.7	61.9
2001	12	2	53.6	47.3	49.9
2001	12	3	53.8	37.2	47.7
2001	12	4	64.9	41.4	50.9
2001	12	5	72.9	52.9	60.8
2001	12	6	71.4	55.8	61.4
2001	12	7	61.9	54.3	58.5
2001	12	8	54.3	45.1	48.7
2001	12	9	49.5	42.3	46.4

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)

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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2001	12	10	46.4	39.2	43.0
2001	12	11	49.6	44.8	47.1
2001	12	12	50.0	43.5	46.9
2001	12	13	61.3	47.5	53.8
2001	12	14	66.6	55.2	60.4
2001	12	15	62.8	44.1	50.5
2001	12	16	43.2	36.7	40.6
2001	12	17	57.2	40.1	48.1
2001	12	18	56.5	41.5	51.2
2001	12	19	50.5	35.4	44.3
2001	12	20	46.2	37.0	42.2
2001	12	21	42.1	33.8	37.5
2001	12	22	40.1	29.9	34.5
2001	12	23	54.7	33.4	43.1
2001	12	24	55.0	35.2	42.9
2001	12	25	37.8	29.0	34.5
2001	12	26	37.2	28.7	33.1
2001	12	27	37.2	25.6	31.4
2001	12	28	42.6	26.9	34.8
2001	12	29	49.5	27.0	37.8
2001	12	30	30.1	22.0	26.0
2001	12	31	32.9	20.0	26.7
2002	1	1	31.4	19.8	25.8
2002	1	2	31.5	20.2	26.4
2002	1	3	34.9	26.5	29.8
2002	1	4	37.2	26.1	31.3
2002	1	5	44.2	26.7	34.8
2002	1	6	36.7	28.5	33.0
2002	1	7	36.0	31.5	34.3
2002	1	8	36.1	26.1	30.7
2002	1	9	50.7	29.7	40.2
2002	1	10	54.9	44.2	48.9
2002	1	11	51.6	39.9	46.2
2002	1	12	47.1	30.3	38.5
2002	1	13	47.3	36.5	41.5
2002	1	14	47.5	34.2	41.5
2002	1	15	53.8	39.0	45.3
2002	1	16	42.4	32.5	37.6
2002	1	17	46.2	36.9	41.8

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
(Page 20 of 56)

Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2002	1	18	44.1	32.9	38.4
2002	1	19	35.1	30.6	32.7
2002	1	20	35.8	30.1	32.7
2002	1	21	44.4	32.9	37.6
2002	1	22	51.4	34.9	42.3
2002	1	23	46.4	41.0	44.0
2002	1	24	63.3	43.9	54.2
2002	1	25	55.6	36.9	43.3
2002	1	26	54.9	35.1	43.4
2002	1	27	58.1	39.4	48.6
2002	1	28	63.7	50.5	56.1
2002	1	29	72.1	52.3	61.1
2002	1	30	77.2	47.7	61.3
2002	1	31	48.2	43.3	45.1
2002	2	1	75.2	43.7	58.5
2002	2	2	42.6	30.1	36.7
2002	2	3	43.0	31.4	37.3
2002	2	4	42.8	24.7	34.1
2002	2	5	35.4	19.3	27.1
2002	2	6	43.0	26.9	35.9
2002	2	7	38.3	32.4	35.8
2002	2	8	52.5	33.6	42.0
2002	2	9	48.6	38.1	44.0
2002	2	10	57.7	37.9	47.2
2002	2	11	50.5	31.7	41.1
2002	2	12	53.6	26.7	40.4
2002	2	13	45.3	34.5	40.9
2002	2	14	39.2	28.1	33.2
2002	2	15	50.5	31.5	41.1
2002	2	16	55.6	45.0	49.4
2002	2	17	46.2	32.0	40.4
2002	2	18	40.3	27.8	33.9
2002	2	19	53.6	30.5	41.2
2002	2	20	63.0	46.9	52.9
2002	2	21	63.0	50.0	55.8
2002	2	22	51.1	39.2	45.9
2002	2	23	39.6	34.7	37.4
2002	2	24	43.9	35.2	38.6
2002	2	25	52.0	31.5	42.1

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)

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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2002	2	26	66.7	43.9	53.6
2002	2	27	43.9	27.2	34.9
2002	2	28	37.9	24.0	30.7
2002	3	1	45.7	26.3	35.7
2002	3	2	50.5	33.8	41.9
2002	3	3	58.5	40.6	53.4
2002	3	4	37.9	22.0	29.8
2002	3	5	41.0	16.2	29.2
2002	3	6	59.2	36.1	47.3
2002	3	7	64.0	43.2	52.1
2002	3	8	65.1	47.7	55.9
2002	3	9	66.0	50.7	58.8
2002	3	10	64.4	37.4	48.2
2002	3	11	41.0	31.2	35.3
2002	3	12	49.6	36.9	42.9
2002	3	13	46.9	42.3	44.4
2002	3	14	62.1	45.3	51.1
2002	3	15	74.3	43.7	60.1
2002	3	16	71.8	46.8	61.5
2002	3	17	45.0	39.0	40.7
2002	3	18	44.1	40.3	42.2
2002	3	19	44.4	39.9	42.9
2002	3	20	48.9	40.1	45.1
2002	3	21	53.4	37.6	45.6
2002	3	22	34.7	23.6	29.4
2002	3	23	48.9	26.9	38.0
2002	3	24	55.8	36.5	47.1
2002	3	25	55.0	42.6	46.5
2002	3	26	59.2	41.5	47.3
2002	3	27	51.6	40.5	46.0
2002	3	28	47.8	35.1	40.3
2002	3	29	58.6	39.7	49.7
2002	3	30	69.6	56.8	61.4
2002	3	31	54.5	46.0	49.4
2002	4	1	60.4	44.2	51.7
2002	4	2	61.5	45.5	54.0
2002	4	3	80.1	44.1	61.1
2002	4	4	46.0	36.5	42.1
2002	4	5	46.8	37.8	41.8

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2002	4	6	43.2	33.4	38.4
2002	4	7	45.5	34.0	39.8
2002	4	8	64.8	42.3	53.3
2002	4	9	73.8	58.6	65.2
2002	4	10	66.9	48.4	56.8
2002	4	11	65.3	32.5	51.2
2002	4	12	57.6	46.4	50.6
2002	4	13	72.0	56.7	64.8
2002	4	14	76.8	60.3	67.9
2002	4	15	81.3	62.4	71.0
2002	4	16	85.6	65.7	75.0
2002	4	17	87.8	67.6	77.4
2002	4	18	85.3	64.6	73.4
2002	4	19	78.1	62.6	68.9
2002	4	20	77.7	62.4	70.7
2002	4	21	61.3	47.8	53.0
2002	4	22	61.3	46.2	52.9
2002	4	23	53.6	40.6	47.6
2002	4	24	57.0	38.7	49.6
2002	4	25	60.8	50.0	55.1
2002	4	26	60.3	45.9	52.1
2002	4	27	58.6	44.2	52.6
2002	4	28	75.0	55.9	64.6
2002	4	29	66.2	48.0	56.4
2002	4	30	66.6	45.3	55.7
2002	5	1	65.7	47.7	58.2
2002	5	2	80.2	56.3	67.0
2002	5	3	66.0	54.5	60.0
2002	5	4	58.5	45.7	52.4
2002	5	5	62.1	46.6	53.3
2002	5	6	67.6	50.2	58.9
2002	5	7	75.7	60.3	68.2
2002	5	8	71.4	58.8	65.1
2002	5	9	65.1	55.8	60.3
2002	5	10	71.6	61.2	66.9
2002	5	11	65.8	58.8	61.3
2002	5	12	81.3	58.8	70.0
2002	5	13	81.9	57.7	72.2
2002	5	14	63.0	51.1	56.5

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2002	5	15	68.7	48.0	58.5
2002	5	16	79.2	55.2	67.1
2002	5	17	80.2	63.9	70.7
2002	5	18	71.2	47.1	56.9
2002	5	19	54.9	43.0	49.3
2002	5	20	55.9	43.7	50.9
2002	5	21	56.3	44.8	50.0
2002	5	22	60.1	43.0	52.3
2002	5	23	68.9	45.1	57.3
2002	5	24	81.7	54.0	68.2
2002	5	25	73.0	60.1	67.0
2002	5	26	74.7	59.9	67.8
2002	5	27	78.1	61.5	70.1
2002	5	28	78.4	61.0	69.7
2002	5	29	78.1	65.1	70.6
2002	5	30	80.4	62.2	70.8
2002	5	31	86.4	64.2	76.0
2002	6	1	85.5	69.6	76.7
2002	6	2	86.2	66.9	76.0
2002	6	3	72.7	63.1	67.3
2002	6	4	74.7	63.9	70.0
2002	6	5	86.9	70.7	77.6
2002	6	6	86.4	63.9	76.1
2002	6	7	66.9	59.0	63.1
2002	6	8	69.4	56.3	62.3
2002	6	9	78.8	53.8	66.5
2002	6	10	82.9	66.2	74.0
2002	6	11	90.7	69.1	78.9
2002	6	12	89.8	72.3	78.4
2002	6	13	76.6	63.7	70.5
2002	6	14	68.7	62.1	65.6
2002	6	15	77.4	62.1	68.1
2002	6	16	78.6	60.1	69.0
2002	6	17	77.2	64.0	70.0
2002	6	18	78.4	64.8	71.8
2002	6	19	76.8	66.2	70.9
2002	6	20	78.4	64.8	71.7
2002	6	21	78.1	63.3	69.9
2002	6	22	79.9	62.2	71.4

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2002	6	23	85.3	64.0	73.6
2002	6	24	90.0	70.7	79.7
2002	6	25	91.2	70.7	80.5
2002	6	26	91.4	74.3	81.6
2002	6	27	88.5	70.2	78.1
2002	6	28	81.7	69.8	73.0
2002	6	29	81.0	67.8	75.3
2002	6	30	84.9	66.9	75.4
2002	7	1	85.8	67.6	76.9
2002	7	2	89.2	70.3	79.8
2002	7	3	92.1	75.2	82.5
2002	7	4	93.4	76.5	84.7
2002	7	5	86.7	77.5	82.5
2002	7	6	80.4	69.4	75.3
2002	7	7	84.6	63.7	74.0
2002	7	8	91.0	65.3	78.7
2002	7	9	96.3	75.4	84.7
2002	7	10	81.5	75.0	78.1
2002	7	11	77.4	68.0	72.2
2002	7	12	82.0	59.7	70.5
2002	7	13	80.2	65.1	73.5
2002	7	14	74.8	67.6	71.0
2002	7	15	87.4	66.6	76.5
2002	7	16	91.2	73.0	81.6
2002	7	17	92.5	70.2	81.6
2002	7	18	88.9	74.8	81.9
2002	7	19	91.0	75.6	83.2
2002	7	20	85.3	74.8	79.5
2002	7	21	86.7	73.8	79.5
2002	7	22	89.1	71.4	80.9
2002	7	23	91.8	71.8	82.9
2002	7	24	78.3	69.3	72.9
2002	7	25	75.2	67.3	70.8
2002	7	26	68.2	64.9	66.9
2002	7	27	81.3	66.9	73.7
2002	7	28	92.7	72.5	82.3
2002	7	29	93.4	77.4	85.1
2002	7	30	93.0	77.0	84.4
2002	7	31	86.9	76.1	80.5

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2002	8	1	90.7	71.4	80.8
2002	8	2	90.5	73.9	82.0
2002	8	3	89.8	75.6	81.4
2002	8	4	92.1	72.5	80.9
2002	8	5	93.9	74.8	82.6
2002	8	6	77.7	73.2	75.4
2002	8	7	75.7	65.8	70.6
2002	8	8	77.9	63.9	71.8
2002	8	9	79.9	63.7	73.0
2002	8	10	81.9	64.2	73.2
2002	8	11	84.9	66.2	75.8
2002	8	12	90.0	69.1	78.8
2002	8	13	89.2	71.8	80.5
2002	8	14	91.0	76.6	81.9
2002	8	15	87.1	73.9	80.7
2002	8	16	87.4	73.2	78.9
2002	8	17	88.7	75.7	81.4
2002	8	18	89.4	74.3	81.1
2002	8	19	86.4	77.9	81.7
2002	8	20	84.9	75.9	80.4
2002	8	21	82.0	72.9	76.7
2002	8	22	83.8	67.5	76.8
2002	8	23	82.6	74.7	79.7
2002	8	24	82.2	72.3	75.5
2002	8	25	80.6	71.2	76.0
2002	8	26	79.9	70.5	75.2
2002	8	27	78.3	68.9	74.8
2002	8	28	74.1	63.5	68.2
2002	8	29	66.9	63.5	65.0
2002	8	30	71.2	62.6	66.5
2002	8	31	71.6	65.7	68.0
2002	9	1	67.3	64.4	66.1
2002	9	2	71.6	62.4	66.2
2002	9	3	82.6	61.7	71.9
2002	9	4	87.6	72.1	78.9
2002	9	5	76.3	67.5	72.9
2002	9	6	73.6	65.3	69.4
2002	9	7	75.4	60.8	68.5
2002	9	8	75.7	63.0	69.6

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
(Page 26 of 56)

Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2002	9	9	79.0	62.6	72.4
2002	9	10	79.2	71.2	74.7
2002	9	11	79.2	66.2	72.8
2002	9	12	70.2	59.9	64.8
2002	9	13	79.2	58.1	67.7
2002	9	14	77.9	64.4	71.2
2002	9	15	77.7	70.2	71.7
2002	9	16	78.6	68.0	72.1
2002	9	17	87.3	61.9	73.1
2002	9	18	80.4	61.2	71.8
2002	9	19	78.8	66.4	72.4
2002	9	20	82.0	67.6	74.6
2002	9	21	83.5	70.0	76.3
2002	9	22	82.0	68.9	75.5
2002	9	23	73.6	67.5	71.1
2002	9	24	74.7	65.8	69.8
2002	9	25	74.3	67.3	70.4
2002	9	26	66.9	63.9	65.1
2002	9	27	80.6	65.8	74.0
2002	9	28	77.4	66.4	71.0
2002	9	29	70.2	62.1	66.3
2002	9	30	73.4	62.1	66.5
2002	10	1	79.2	62.1	69.5
2002	10	2	85.6	65.8	74.3
2002	10	3	84.9	67.8	77.2
2002	10	4	79.7	71.6	75.8
2002	10	5	86.0	69.1	78.6
2002	10	6	71.6	63.5	67.2
2002	10	7	76.5	64.9	70.5
2002	10	8	64.4	54.3	60.2
2002	10	9	65.7	60.1	63.3
2002	10	10	68.2	65.1	66.6
2002	10	11	70.2	66.4	68.1
2002	10	12	69.1	65.7	67.7
2002	10	13	67.3	63.5	64.9
2002	10	14	61.2	53.6	56.1
2002	10	15	62.2	54.9	58.2
2002	10	16	60.8	53.6	57.5
2002	10	17	61.0	48.6	55.6

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2002	10	18	60.3	41.0	50.8
2002	10	19	65.1	50.9	58.9
2002	10	20	61.5	55.4	57.9
2002	10	21	58.1	49.3	55.5
2002	10	22	59.7	50.4	54.2
2002	10	23	63.9	48.6	55.8
2002	10	24	54.1	49.5	51.8
2002	10	25	59.2	48.6	53.9
2002	10	26	66.0	54.7	59.2
2002	10	27	64.2	50.2	56.7
2002	10	28	57.2	49.3	53.1
2002	10	29	52.2	43.5	47.4
2002	10	30	45.9	40.6	43.6
2002	10	31	46.6	39.7	42.4
2002	11	1	54.1	38.5	45.8
2002	11	2	50.2	37.0	42.9
2002	11	3	50.4	40.6	45.3
2002	11	4	52.9	43.0	47.6
2002	11	5	50.9	43.9	47.9
2002	11	6	57.0	46.4	50.2
2002	11	7	52.7	39.4	47.6
2002	11	8	62.8	39.7	50.7
2002	11	9	68.4	51.6	59.6
2002	11	10	75.2	59.5	66.9
2002	11	11	70.9	61.3	66.1
2002	11	12	61.3	49.8	53.9
2002	11	13	50.4	41.0	47.1
2002	11	14	59.2	38.5	48.2
2002	11	15	59.5	47.1	52.7
2002	11	16	54.7	49.6	52.2
2002	11	17	52.2	39.2	43.9
2002	11	18	50.0	37.6	43.1
2002	11	19	54.1	35.2	46.1
2002	11	20	56.1	41.4	48.0
2002	11	21	57.0	44.4	50.5
2002	11	22	53.4	41.5	48.7
2002	11	23	46.4	37.0	41.5
2002	11	24	57.2	37.9	47.2
2002	11	25	63.1	43.5	51.0

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2002	11	26	49.5	42.6	44.7
2002	11	27	42.1	31.4	38.2
2002	11	28	37.2	28.5	31.9
2002	11	29	47.1	27.2	37.9
2002	11	30	55.0	38.8	45.6
2002	12	1	36.9	28.5	33.0
2002	12	2	48.4	28.7	39.4
2002	12	3	43.3	24.5	30.3
2002	12	4	29.0	19.1	25.4
2002	12	5	32.0	24.9	28.9
2002	12	6	33.8	23.1	28.6
2002	12	7	37.0	17.1	29.8
2002	12	8	46.2	32.0	39.1
2002	12	9	37.6	23.3	28.1
2002	12	10	34.0	24.7	30.3
2002	12	11	35.1	32.0	33.7
2002	12	12	45.0	33.4	39.1
2002	12	13	40.8	35.1	37.7
2002	12	14	45.3	37.8	41.5
2002	12	15	48.6	37.0	42.7
2002	12	16	45.3	31.5	41.2
2002	12	17	32.4	28.3	30.5
2002	12	18	33.6	28.8	31.2
2002	12	19	53.4	32.9	42.6
2002	12	20	61.0	38.5	52.0
2002	12	21	52.3	37.0	44.4
2002	12	22	56.3	40.6	47.7
2002	12	23	50.7	38.5	44.5
2002	12	24	42.1	32.2	37.3
2002	12	25	38.3	33.8	36.0
2002	12	26	40.6	31.4	36.7
2002	12	27	33.3	27.6	30.2
2002	12	28	42.6	24.9	34.5
2002	12	29	44.4	33.6	39.1
2002	12	30	45.5	31.2	39.3
2002	12	31	63.3	39.4	50.4
2003	1	1	59.2	46.8	54.6
2003	1	2	44.6	38.3	39.8
2003	1	3	43.5	34.9	39.7

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2003	1	4	38.5	29.9	34.7
2003	1	5	34.5	27.4	30.9
2003	1	6	34.7	30.3	32.5
2003	1	7	35.6	24.2	29.8
2003	1	8	52.7	36.5	43.6
2003	1	9	61.0	45.0	51.7
2003	1	10	47.3	35.6	42.4
2003	1	11	36.1	25.2	30.4
2003	1	12	31.7	21.5	26.4
2003	1	13	44.2	24.0	33.3
2003	1	14	33.8	25.6	28.1
2003	1	15	32.0	22.5	26.6
2003	1	16	27.9	19.3	24.2
2003	1	17	30.8	20.6	25.3
2003	1	18	19.8	9.9	16.1
2003	1	19	30.3	17.0	24.9
2003	1	20	40.1	27.2	33.4
2003	1	21	26.9	20.9	23.5
2003	1	22	26.3	14.6	20.3
2003	1	23	18.2	12.5	15.7
2003	1	24	31.4	12.8	21.7
2003	1	25	32.7	17.1	24.1
2003	1	26	41.5	24.2	30.9
2003	1	27	29.4	14.1	18.8
2003	1	28	32.9	11.6	23.0
2003	1	29	38.1	30.1	33.6
2003	1	30	30.6	28.7	29.6
2003	1	31	32.4	29.4	30.7
2003	2	1	37.6	32.0	34.8
2003	2	2	46.9	34.3	39.4
2003	2	3	43.7	33.4	38.6
2003	2	4	57.2	37.4	47.8
2003	2	5	37.0	29.2	33.0
2003	2	6	32.4	27.2	29.7
2003	2	7	35.1	27.6	30.2
2003	2	8	34.2	22.2	28.2
2003	2	9	41.5	20.9	30.7
2003	2	10	34.3	29.7	32.8
2003	2	11	36.9	28.7	32.6

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2003	2	12	41.2	27.0	35.0
2003	2	13	39.9	22.4	30.3
2003	2	14	36.9	24.5	32.1
2003	2	15	36.1	24.5	30.4
2003	2	16	25.4	16.4	18.7
2003	2	17	29.4	20.7	24.8
2003	2	18	39.7	23.4	29.6
2003	2	19	42.4	24.9	34.4
2003	2	20	42.6	34.2	39.0
2003	2	21	45.1	35.2	38.4
2003	2	22	43.2	32.9	36.8
2003	2	23	58.8	34.7	45.0
2003	2	24	56.1	28.7	38.3
2003	2	25	39.7	28.1	32.6
2003	2	26	27.6	23.6	25.8
2003	2	27	32.2	25.4	28.5
2003	2	28	32.5	28.5	30.1
2003	3	1	39.7	30.1	35.5
2003	3	2	52.0	34.9	41.1
2003	3	3	41.7	22.4	28.1
2003	3	4	42.6	22.2	32.6
2003	3	5	66.9	40.8	51.3
2003	3	6	53.8	30.1	39.8
2003	3	7	31.2	26.1	28.7
2003	3	8	51.3	26.3	37.6
2003	3	9	59.7	33.6	48.8
2003	3	10	39.2	28.3	32.9
2003	3	11	37.2	29.2	32.6
2003	3	12	54.9	33.4	42.5
2003	3	13	63.1	39.7	49.8
2003	3	14	39.2	31.0	34.6
2003	3	15	51.4	30.3	41.2
2003	3	16	53.8	40.6	48.4
2003	3	17	55.8	48.0	52.7
2003	3	18	60.1	47.3	53.4
2003	3	19	45.9	37.8	42.3
2003	3	20	53.6	38.1	45.2
2003	3	21	59.0	45.1	51.0
2003	3	22	65.3	48.9	55.8

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)

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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2003	3	23	59.7	38.3	51.1
2003	3	24	57.4	46.6	51.0
2003	3	25	60.8	42.6	52.0
2003	3	26	72.3	45.3	57.7
2003	3	27	58.3	42.8	49.3
2003	3	28	55.0	43.9	48.9
2003	3	29	67.8	52.5	60.2
2003	3	30	52.5	32.2	39.1
2003	3	31	42.4	29.2	36.2
2003	4	1	60.8	33.3	47.7
2003	4	2	79.2	57.0	67.7
2003	4	3	77.5	48.2	61.4
2003	4	4	50.5	43.5	46.0
2003	4	5	50.4	43.0	46.1
2003	4	6	48.7	40.6	44.9
2003	4	7	43.9	36.7	39.5
2003	4	8	39.2	37.4	38.2
2003	4	9	41.4	36.9	38.6
2003	4	10	47.3	39.0	41.6
2003	4	11	43.9	39.9	41.5
2003	4	12	68.4	44.4	56.2
2003	4	13	57.4	46.4	53.0
2003	4	14	61.7	41.9	51.5
2003	4	15	84.6	50.4	65.8
2003	4	16	86.2	63.5	74.5
2003	4	17	70.9	40.3	49.5
2003	4	18	48.6	41.0	44.7
2003	4	19	55.6	45.5	49.6
2003	4	20	60.6	48.0	53.1
2003	4	21	57.7	49.3	53.3
2003	4	22	65.8	53.6	58.1
2003	4	23	63.7	46.6	54.4
2003	4	24	62.1	43.3	53.6
2003	4	25	69.3	52.2	58.1
2003	4	26	57.6	54.3	56.0
2003	4	27	67.3	55.6	60.7
2003	4	28	74.1	49.6	63.5
2003	4	29	79.3	61.0	67.1
2003	4	30	68.9	57.0	61.1

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2003	5	1	76.8	57.4	65.8
2003	5	2	74.8	60.4	67.7
2003	5	3	62.4	50.7	55.6
2003	5	4	61.0	49.6	54.1
2003	5	5	53.4	42.3	49.7
2003	5	6	57.9	51.3	55.2
2003	5	7	73.9	52.3	62.6
2003	5	8	69.4	60.3	64.9
2003	5	9	60.4	55.2	57.6
2003	5	10	67.3	56.1	61.3
2003	5	11	81.0	61.7	71.2
2003	5	12	72.7	59.7	66.4
2003	5	13	64.2	55.8	60.5
2003	5	14	70.7	49.6	60.7
2003	5	15	69.8	57.0	62.6
2003	5	16	61.5	52.2	56.6
2003	5	17	51.1	48.4	49.3
2003	5	18	52.2	47.7	49.5
2003	5	19	64.6	50.5	56.4
2003	5	20	70.3	47.1	59.9
2003	5	21	64.8	54.7	58.0
2003	5	22	56.7	54.9	55.6
2003	5	23	55.6	52.5	54.2
2003	5	24	62.2	55.0	57.8
2003	5	25	61.2	57.2	59.1
2003	5	26	62.1	56.3	58.7
2003	5	27	58.1	54.7	56.4
2003	5	28	62.4	53.6	57.3
2003	5	29	66.0	54.0	59.5
2003	5	30	79.2	55.6	67.3
2003	5	31	73.4	63.3	67.1
2003	6	1	66.6	59.4	62.9
2003	6	2	68.4	51.8	60.0
2003	6	3	65.1	55.4	59.6
2003	6	4	66.9	56.7	60.6
2003	6	5	73.8	57.2	65.1
2003	6	6	73.0	58.3	65.6
2003	6	7	72.1	63.3	67.3
2003	6	8	63.9	60.3	62.1

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2003	6	9	75.7	58.6	66.0
2003	6	10	78.1	63.0	70.4
2003	6	11	86.2	65.8	75.6
2003	6	12	84.6	66.6	73.2
2003	6	13	82.9	70.2	74.7
2003	6	14	84.9	69.4	74.8
2003	6	15	72.9	67.6	70.5
2003	6	16	72.5	60.6	65.9
2003	6	17	62.8	58.5	60.1
2003	6	18	68.9	60.3	64.9
2003	6	19	74.8	65.5	70.1
2003	6	20	67.8	60.6	65.1
2003	6	21	67.1	54.7	61.3
2003	6	22	73.4	57.2	64.4
2003	6	23	86.4	64.6	75.1
2003	6	24	87.6	69.8	78.1
2003	6	25	89.6	68.2	78.7
2003	6	26	89.2	72.7	80.8
2003	6	27	85.6	70.2	76.8
2003	6	28	75.6	68.2	71.9
2003	6	29	81.7	66.4	74.4
2003	6	30	84.9	72.0	78.3
2003	7	1	77.7	69.4	73.9
2003	7	2	73.8	65.8	69.8
2003	7	3	76.5	67.3	71.1
2003	7	4	87.4	68.0	77.6
2003	7	5	89.2	74.1	81.6
2003	7	6	89.6	73.4	81.4
2003	7	7	87.4	70.2	76.5
2003	7	8	87.3	74.1	79.6
2003	7	9	92.1	73.6	81.2
2003	7	10	80.6	72.3	75.4
2003	7	11	84.6	72.3	77.6
2003	7	12	83.3	66.2	75.8
2003	7	13	77.7	66.6	72.1
2003	7	14	75.6	65.7	71.2
2003	7	15	79.7	67.3	73.0
2003	7	16	88.2	71.8	79.2
2003	7	17	81.7	68.4	75.9

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2003	7	18	84.6	64.9	73.6
2003	7	19	77.0	68.0	72.2
2003	7	20	80.6	68.2	75.1
2003	7	21	86.7	72.5	79.8
2003	7	22	86.9	68.9	77.9
2003	7	23	77.7	68.5	72.1
2003	7	24	80.2	67.1	72.6
2003	7	25	81.0	67.1	73.7
2003	7	26	85.5	66.9	76.4
2003	7	27	86.9	73.8	79.8
2003	7	28	83.7	71.4	77.5
2003	7	29	75.0	68.4	71.9
2003	7	30	71.4	65.7	69.2
2003	7	31	77.2	69.3	72.9
2003	8	1	81.9	72.0	75.0
2003	8	2	83.1	71.4	75.1
2003	8	3	81.9	72.7	76.0
2003	8	4	82.8	71.2	76.0
2003	8	5	81.1	66.0	75.0
2003	8	6	79.9	66.2	72.6
2003	8	7	74.5	69.8	72.7
2003	8	8	81.1	67.5	73.9
2003	8	9	78.3	72.5	74.3
2003	8	10	80.8	72.1	75.3
2003	8	11	78.1	70.2	74.3
2003	8	12	81.5	70.5	75.7
2003	8	13	83.7	71.8	76.8
2003	8	14	86.5	73.6	78.9
2003	8	15	88.0	72.5	80.0
2003	8	16	84.9	68.4	75.1
2003	8	17	80.1	67.6	73.7
2003	8	18	77.7	70.3	73.5
2003	8	19	80.4	68.5	73.7
2003	8	20	82.2	67.5	74.5
2003	8	21	86.4	71.2	77.9
2003	8	22	89.2	73.8	80.6
2003	8	23	79.7	69.6	76.5
2003	8	24	74.8	63.5	70.7
2003	8	25	83.7	61.7	73.0

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2003	8	26	88.3	67.1	76.6
2003	8	27	87.1	68.5	77.4
2003	8	28	80.6	68.0	74.2
2003	8	29	89.1	73.6	80.1
2003	8	30	89.4	72.5	79.1
2003	8	31	73.4	66.2	70.4
2003	9	1	83.8	70.5	76.1
2003	9	2	85.5	70.2	76.2
2003	9	3	77.9	70.2	72.7
2003	9	4	76.5	71.6	73.8
2003	9	5	76.1	64.0	70.0
2003	9	6	72.9	63.0	67.6
2003	9	7	75.2	59.0	67.8
2003	9	8	77.4	61.3	71.1
2003	9	9	72.1	65.8	69.6
2003	9	10	71.1	62.4	67.3
2003	9	11	77.0	57.4	68.2
2003	9	12	68.7	64.8	66.9
2003	9	13	79.5	69.8	74.0
2003	9	14	78.6	68.4	73.4
2003	9	15	75.2	68.7	71.9
2003	9	16	74.7	63.5	68.7
2003	9	17	76.6	66.7	72.0
2003	9	18	75.2	66.6	69.5
2003	9	19	79.5	67.6	73.3
2003	9	20	76.8	64.4	70.6
2003	9	21	72.1	68.4	70.4
2003	9	22	75.7	68.0	71.6
2003	9	23	75.6	61.3	69.4
2003	9	24	81.5	56.3	65.0
2003	9	26	79.0	67.6	71.6
2003	9	27	79.5	67.8	73.5
2003	9	28	70.9	59.2	67.3
2003	9	29	65.7	53.4	58.6
2003	9	30	64.6	50.0	56.5
2003	10	1	60.3	52.9	56.5
2003	10	2	58.8	45.0	52.5
2003	10	3	56.8	40.3	50.1
2003	10	4	68.0	52.0	58.4

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2003	10	5	66.0	48.2	58.7
2003	10	6	64.4	55.9	60.1
2003	10	7	69.6	57.0	62.9
2003	10	8	72.0	57.9	65.0
2003	10	9	72.9	60.4	66.8
2003	10	10	67.3	61.7	64.9
2003	10	11	66.9	61.7	64.0
2003	10	12	75.4	59.0	67.2
2003	10	13	67.6	57.7	63.4
2003	10	14	68.4	56.3	62.3
2003	10	15	65.3	52.5	59.3
2003	10	16	68.7	50.7	59.1
2003	10	17	60.8	53.4	57.6
2003	10	18	57.0	45.0	51.8
2003	10	19	66.0	46.9	55.5
2003	10	20	66.4	50.2	57.7
2003	10	21	75.6	58.5	66.9
2003	10	22	64.6	45.5	55.8
2003	10	23	49.8	39.0	44.3
2003	10	24	54.7	35.6	45.6
2003	10	25	62.6	44.6	55.0
2003	10	26	72.5	63.3	66.4
2003	10	27	68.4	50.4	61.2
2003	10	28	52.3	47.3	50.2
2003	10	29	54.9	46.8	50.3
2003	10	30	64.1	44.5	53.2
2003	10	31	67.0	49.7	57.8
2003	11	1	76.5	52.5	62.3
2003	11	2	75.6	56.7	65.9
2003	11	3	76.8	57.5	65.4
2003	11	4	77.5	60.8	67.4
2003	11	5	77.5	64.2	70.6
2003	11	6	65.3	60.1	63.3
2003	11	7	59.7	49.8	56.1
2003	11	8	50.4	39.2	46.2
2003	11	9	41.5	34.9	37.7
2003	11	10	47.1	34.5	41.0
2003	11	11	60.3	43.0	53.0
2003	11	12	60.3	54.9	57.1

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
(Page 37 of 56)

Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2003	11	13	63.5	38.3	49.9
2003	11	14	48.6	34.5	41.4
2003	11	15	53.8	43.3	47.6
2003	11	16	52.2	43.7	47.4
2003	11	17	57.7	46.0	50.5
2003	11	18	56.7	48.4	51.9
2003	11	19	64.9	51.4	59.2
2003	11	20	56.1	46.2	51.3
2003	11	21	71.1	43.3	57.1
2003	11	22	58.5	50.2	54.9
2003	11	23	59.9	47.5	52.8
2003	11	24	63.7	38.1	54.8
2003	11	25	41.2	34.2	37.8
2003	11	26	48.4	36.0	42.0
2003	11	27	52.7	42.8	48.3
2003	11	28	63.1	42.3	54.8
2003	11	29	44.2	35.2	39.8
2003	11	30	51.1	34.3	42.3
2003	12	1	55.8	37.4	47.9
2003	12	2	40.5	31.4	36.3
2003	12	3	34.5	26.7	30.7
2003	12	4	37.6	28.1	33.5
2003	12	5	40.6	33.8	37.4
2003	12	6	32.5	26.9	29.2
2003	12	7	34.9	26.3	29.8
2003	12	8	38.5	25.8	32.1
2003	12	9	42.4	32.4	38.2
2003	12	10	54.0	38.5	45.0
2003	12	11	53.2	37.4	47.1
2003	12	12	42.1	32.5	36.6
2003	12	13	32.7	29.6	31.5
2003	12	14	43.2	29.9	35.9
2003	12	15	42.8	31.2	37.3
2003	12	16	50.5	32.7	41.8
2003	12	17	47.7	30.6	40.8
2003	12	18	38.1	30.3	33.6
2003	12	19	34.5	29.9	32.0
2003	12	20	37.6	27.2	31.7
2003	12	21	42.8	24.9	34.0

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2003	12	22	55.2	36.9	45.1
2003	12	23	60.6	44.2	52.5
2003	12	24	55.9	37.4	48.4
2003	12	25	40.3	31.0	35.1
2003	12	26	42.6	29.2	35.3
2003	12	27	45.5	35.2	40.4
2003	12	28	46.8	36.7	39.9
2003	12	29	58.5	35.2	45.7
2003	12	30	56.8	38.8	51.0
2003	12	31	47.7	29.7	40.4
2004	1	1	49.1	39.4	45.2
2004	1	2	49.1	41.0	44.9
2004	1	3	69.1	45.5	56.4
2004	1	4	70.7	43.9	57.8
2004	1	5	44.8	39.2	41.7
2004	1	6	41.9	24.5	35.7
2004	1	7	27.9	17.7	23.0
2004	1	8	33.4	19.8	27.0
2004	1	9	30.1	19.1	27.4
2004	1	10	17.7	9.2	13.9
2004	1	11	28.7	10.3	20.3
2004	1	12	52.0	28.8	40.2
2004	1	13	52.9	32.5	41.2
2004	1	14	31.7	24.3	28.0
2004	1	15	35.2	22.0	28.8
2004	1	16	26.5	13.7	20.2
2004	1	17	30.5	18.6	25.3
2004	1	18	38.5	30.5	34.5
2004	1	19	28.7	20.7	24.8
2004	1	20	27.9	19.8	23.0
2004	1	21	27.6	15.5	21.7
2004	1	22	46.0	22.7	34.2
2004	1	23	26.3	15.9	20.6
2004	1	24	23.1	17.5	19.9
2004	1	25	18.6	14.6	16.0
2004	1	26	24.7	15.0	20.1
2004	1	27	30.1	22.4	26.1
2004	1	28	27.9	20.9	24.6
2004	1	29	37.6	20.4	28.3

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2004	1	30	28.5	18.6	24.6
2004	1	31	24.5	12.8	18.6
2004	2	1	27.0	15.0	21.7
2004	2	2	29.4	24.7	27.2
2004	2	3	42.8	27.6	33.5
2004	2	4	41.7	31.4	36.6
2004	2	5	32.7	28.1	30.2
2004	2	6	36.9	28.7	32.8
2004	2	7	45.7	33.1	37.7
2004	2	8	34.5	26.0	29.6
2004	2	9	48.9	26.1	37.9
2004	2	10	50.9	37.9	41.6
2004	2	11	40.8	33.4	37.1
2004	2	12	38.7	32.0	34.2
2004	2	13	49.6	30.3	37.7
2004	2	14	49.1	36.7	42.3
2004	2	15	41.4	26.9	32.8
2004	2	16	27.4	19.7	24.2
2004	2	17	34.0	24.7	29.7
2004	2	18	44.1	29.0	34.5
2004	2	19	56.5	32.0	44.4
2004	2	20	56.8	37.9	46.9
2004	2	21	57.2	40.3	50.9
2004	2	22	45.3	34.3	39.9
2004	2	23	40.5	32.2	35.7
2004	2	24	45.7	34.3	38.5
2004	2	25	38.1	28.1	33.8
2004	2	26	35.4	29.7	33.4
2004	2	27	40.3	33.3	36.7
2004	2	28	52.5	33.1	41.6
2004	2	29	63.5	39.2	50.6
2004	3	1	61.3	43.9	53.1
2004	3	2	68.0	54.7	60.2
2004	3	3	59.7	45.3	53.9
2004	3	4	54.0	46.0	49.9
2004	3	5	75.4	43.3	57.8
2004	3	6	69.6	51.6	62.2
2004	3	7	54.1	39.7	47.1
2004	3	8	45.5	36.3	41.1

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2004	3	9	41.7	31.2	36.8
2004	3	10	41.4	35.1	38.3
2004	3	11	53.6	33.3	43.3
2004	3	12	48.9	37.6	45.1
2004	3	13	44.2	29.0	37.4
2004	3	14	48.9	33.6	42.0
2004	3	15	55.8	47.5	51.7
2004	3	16	46.6	37.2	39.9
2004	3	17	39.0	32.4	37.5
2004	3	18	44.8	29.0	38.2
2004	3	19	44.8	39.0	42.3
2004	3	20	59.2	34.3	46.3
2004	3	21	60.3	35.2	49.8
2004	3	22	39.7	29.2	33.9
2004	3	23	47.7	28.1	37.8
2004	3	24	57.6	39.2	48.6
2004	3	25	66.7	46.6	56.2
2004	3	26	72.3	54.7	62.2
2004	3	27	65.8	57.4	61.4
2004	3	28	54.3	42.4	48.6
2004	3	29	46.2	37.2	42.2
2004	3	30	44.6	36.9	40.8
2004	3	31	45.3	40.8	42.6
2004	4	1	47.1	44.1	45.1
2004	4	2	43.3	40.6	42.2
2004	4	3	50.2	41.0	44.8
2004	4	4	47.7	37.0	44.1
2004	4	5	45.7	29.4	38.2
2004	4	6	57.7	32.7	45.5
2004	4	7	73.4	46.0	60.1
2004	4	8	58.5	45.0	47.8
2004	4	9	61.0	42.1	51.1
2004	4	10	57.7	47.7	51.9
2004	4	11	48.4	41.7	45.0
2004	4	12	46.6	42.8	44.0
2004	4	13	62.8	43.5	48.5
2004	4	14	52.9	43.0	47.0
2004	4	15	54.7	43.5	49.6
2004	4	16	58.6	42.4	49.0

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2004	4	17	80.1	45.9	63.9
2004	4	18	81.9	62.2	71.2
2004	4	19	85.6	65.1	75.4
2004	4	20	72.9	56.8	68.4
2004	4	21	68.7	55.0	61.9
2004	4	22	81.3	63.1	71.8
2004	4	23	79.0	54.1	69.0
2004	4	24	66.0	53.2	58.7
2004	4	25	61.7	53.4	57.3
2004	4	26	70.5	54.0	60.7
2004	4	27	65.1	43.9	55.4
2004	4	28	58.6	38.7	48.3
2004	4	29	71.8	48.9	59.6
2004	4	30	72.7	56.7	63.3
2004	5	1	73.6	60.8	66.7
2004	5	2	78.1	62.6	69.0
2004	5	3	60.1	45.3	48.6
2004	5	4	57.4	41.9	49.2
2004	5	5	70.7	49.3	58.8
2004	5	6	70.2	55.8	60.1
2004	5	7	85.3	57.9	69.4
2004	5	8	64.4	55.2	61.1
2004	5	9	80.6	54.1	67.3
2004	5	10	84.6	65.1	75.3
2004	5	11	85.6	69.3	76.5
2004	5	12	85.3	69.3	76.8
2004	5	13	82.8	67.8	74.8
2004	5	14	84.9	68.9	76.0
2004	5	15	86.4	69.3	77.4
2004	5	16	76.8	65.8	71.1
2004	5	17	82.2	65.5	71.4
2004	5	18	83.3	67.5	73.8
2004	5	19	73.6	65.1	69.1
2004	5	20	68.5	61.9	65.1
2004	5	21	82.9	64.4	72.1
2004	5	22	84.6	65.1	75.1
2004	5	23	87.1	72.7	78.7
2004	5	24	86.4	71.6	78.8
2004	5	25	82.0	68.4	75.7

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2004	5	26	79.7	67.6	73.0
2004	5	27	78.4	65.1	71.7
2004	5	28	76.3	64.8	70.8
2004	5	29	68.0	57.7	62.7
2004	5	30	68.4	60.3	65.2
2004	5	31	76.8	61.5	69.3
2004	6	1	77.4	59.5	67.3
2004	6	2	79.9	60.4	70.4
2004	6	3	77.4	61.3	69.9
2004	6	4	68.9	61.9	65.2
2004	6	5	69.8	60.6	63.4
2004	6	6	65.5	55.8	61.0
2004	6	7	74.6	62.2	67.5
2004	6	8	77.9	61.6	69.5
2004	6	9	87.1	67.3	77.6
2004	6	10	85.3	71.6	77.8
2004	6	11	70.5	58.3	64.7
2004	6	12	73.0	57.9	66.0
2004	6	13	71.6	58.5	66.5
2004	6	14	82.9	70.7	77.0
2004	6	15	84.0	74.3	78.8
2004	6	16	81.1	72.7	75.9
2004	6	17	87.3	68.0	77.1
2004	6	18	85.8	69.3	77.7
2004	6	19	82.0	70.0	75.6
2004	6	20	69.4	59.5	64.3
2004	6	21	74.5	58.1	67.6
2004	6	22	84.0	68.4	73.4
2004	6	23	75.2	66.2	71.3
2004	6	24	80.2	66.2	73.5
2004	6	25	79.7	68.0	72.7
2004	6	26	78.8	68.0	72.6
2004	6	27	76.6	58.6	68.9
2004	6	28	75.9	62.1	69.8
2004	6	29	74.5	63.1	69.1
2004	6	30	78.3	63.9	71.4
2004	7	1	80.8	65.8	74.0
2004	7	2	83.8	69.6	75.8
2004	7	3	81.1	68.4	75.4

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2004	7	4	78.8	72.1	75.7
2004	7	5	88.7	71.1	78.4
2004	7	6	81.9	71.6	77.1
2004	7	7	83.7	69.4	74.9
2004	7	8	84.4	68.5	76.2
2004	7	9	83.5	68.5	76.3
2004	7	10	79.3	72.9	75.7
2004	7	11	84.0	70.7	77.6
2004	7	12	83.3	70.7	76.0
2004	7	13	79.0	70.9	75.2
2004	7	14	87.3	70.0	75.9
2004	7	15	82.4	65.3	74.1
2004	7	16	82.8	67.1	74.6
2004	7	17	82.9	66.6	73.2
2004	7	18	73.4	64.9	70.3
2004	7	19	77.9	65.3	71.7
2004	7	20	81.3	65.3	73.2
2004	7	21	82.2	68.5	75.5
2004	7	22	84.7	69.6	76.5
2004	7	23	79.2	70.7	73.8
2004	7	24	72.5	70.0	71.6
2004	7	25	72.9	68.7	71.2
2004	7	26	75.2	67.8	71.3
2004	7	27	84.0	70.9	74.3
2004	7	28	77.7	72.3	74.2
2004	7	29	81.0	72.0	76.8
2004	7	30	83.3	71.6	77.3
2004	7	31	84.2	74.3	78.8
2004	8	1	84.6	72.9	76.1
2004	8	2	77.9	72.0	74.8
2004	8	3	78.1	70.9	74.5
2004	8	4	85.3	70.9	78.1
2004	8	5	77.4	66.9	72.2
2004	8	6	71.2	59.0	66.4
2004	8	7	70.5	55.0	63.2
2004	8	8	77.2	57.4	68.3
2004	8	9	80.8	62.8	72.0
2004	8	10	83.7	67.1	74.9
2004	8	11	83.7	69.8	76.0

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2004	8	12	80.1	70.5	74.9
2004	8	13	74.5	69.6	71.9
2004	8	14	68.2	62.6	66.2
2004	8	15	71.6	63.5	67.6
2004	8	16	75.9	65.1	69.8
2004	8	17	78.3	66.2	71.6
2004	8	18	79.0	68.4	73.0
2004	8	19	85.3	70.7	77.4
2004	8	20	87.4	73.8	79.8
2004	8	21	81.7	69.1	75.0
2004	8	22	71.8	64.2	68.2
2004	8	23	79.0	61.5	70.2
2004	8	24	81.7	65.8	73.5
2004	8	25	79.2	69.1	73.2
2004	8	26	80.4	69.6	74.1
2004	8	27	82.0	69.1	74.5
2004	8	28	83.8	69.8	75.7
2004	8	29	82.6	68.9	75.6
2004	8	30	80.1	71.8	75.7
2004	8	31	81.0	72.5	76.0
2004	9	1	76.8	65.7	71.8
2004	9	2	76.6	65.3	71.8
2004	9	3	76.3	68.4	72.5
2004	9	4	75.9	67.1	72.3
2004	9	5	74.8	66.0	70.6
2004	9	6	75.0	65.8	70.2
2004	9	7	76.3	68.4	72.1
2004	9	8	78.8	73.4	75.7
2004	9	9	80.1	67.3	74.0
2004	9	10	77.5	64.2	70.5
2004	9	11	74.5	66.6	70.8
2004	9	12	75.0	59.2	68.4
2004	9	13	77.0	63.7	69.7
2004	9	14	74.3	65.5	70.1
2004	9	15	69.8	65.1	67.6
2004	9	16	76.8	68.2	71.0
2004	9	17	77.9	67.6	73.8
2004	9	18	72.0	61.5	66.7
2004	9	19	65.7	56.5	61.2

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2004	9	20	64.2	54.1	59.3
2004	9	21	76.8	52.2	63.9
2004	9	23	77.9	56.1	69.8
2004	9	24	73.8	63.5	67.9
2004	9	25	70.3	58.5	63.7
2004	9	26	73.0	59.5	66.5
2004	9	27	71.6	64.9	68.5
2004	9	28	77.5	65.8	72.3
2004	9	29	68.4	62.8	65.8
2004	9	30	70.2	60.4	65.3
2004	10	1	71.8	63.3	66.6
2004	10	2	73.0	63.7	67.9
2004	10	3	65.8	56.3	61.3
2004	10	4	71.8	56.5	63.3
2004	10	5	62.2	49.5	57.1
2004	10	6	60.4	45.5	53.4
2004	10	7	68.5	49.3	58.3
2004	10	8	71.4	53.6	62.3
2004	10	9	69.6	56.7	62.1
2004	10	10	68.0	54.9	62.3
2004	10	11	59.5	46.9	53.1
2004	10	12	63.1	41.7	52.4
2004	10	13	59.0	46.9	54.2
2004	10	14	61.9	54.1	58.4
2004	10	15	61.7	49.1	58.8
2004	10	16	60.8	45.5	52.0
2004	10	17	60.3	43.9	51.5
2004	10	18	62.8	41.7	54.5
2004	10	19	66.4	55.9	61.0
2004	10	20	57.7	54.9	56.0
2004	10	21	55.2	52.9	54.1
2004	10	22	55.4	50.9	52.8
2004	10	23	54.7	47.5	50.8
2004	10	24	51.3	47.7	49.5
2004	10	25	54.3	48.0	51.5
2004	10	26	59.9	46.2	54.0
2004	10	27	57.4	48.2	52.7
2004	10	28	58.5	49.6	54.4
2004	10	29	56.8	52.9	55.0

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2004	10	30	71.8	56.7	63.7
2004	10	31	75.2	63.0	68.4
2004	11	1	63.7	57.0	59.8
2004	11	2	70.0	55.0	63.6
2004	11	3	69.1	54.9	61.7
2004	11	4	55.2	48.2	51.1
2004	11	5	60.3	47.1	53.1
2004	11	6	71.6	51.1	62.3
2004	11	7	78.6	56.3	68.3
2004	11	8	70.7	53.2	61.1
2004	11	9	57.0	46.8	52.2
2004	11	10	57.4	47.5	52.6
2004	11	11	67.6	52.2	59.5
2004	11	12	62.2	54.9	58.9
2004	11	13	57.7	51.1	53.9
2004	11	14	55.4	46.2	51.0
2004	11	15	64.8	47.5	56.5
2004	11	16	67.1	51.6	59.7
2004	11	17	66.0	56.7	60.6
2004	11	18	72.3	58.1	64.1
2004	11	19	67.8	60.6	64.8
2004	11	20	69.4	63.0	65.7
2004	11	21	66.9	61.7	63.7
2004	11	22	65.3	61.9	63.0
2004	11	23	64.6	62.1	63.2
2004	11	24	75.0	64.2	67.5
2004	11	25	77.2	50.7	65.9
2004	11	26	56.3	42.3	49.3
2004	11	27	65.5	48.6	57.0
2004	11	28	69.4	53.2	63.8
2004	11	29	57.6	48.6	53.1
2004	11	30	61.2	52.0	56.5
2004	12	1	71.8	53.2	62.1
2004	12	2	52.5	43.0	47.8
2004	12	3	50.7	39.2	44.2
2004	12	4	46.6	36.0	42.0
2004	12	5	57.2	40.1	47.6
2004	12	6	53.4	46.6	50.0
2004	12	7	65.8	47.8	55.2

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2004	12	8	65.5	48.7	57.1
2004	12	9	51.1	44.4	48.0
2004	12	10	57.9	49.1	52.9
2004	12	11	50.0	41.4	47.2
2004	12	12	47.8	38.1	43.0
2004	12	13	46.9	35.8	43.4
2004	12	14	38.7	28.8	33.9
2004	12	15	35.1	24.2	29.5
2004	12	16	44.4	25.2	35.0
2004	12	17	49.1	35.2	42.0
2004	12	18	44.6	35.2	38.7
2004	12	19	41.9	19.3	35.3
2004	12	20	20.6	8.5	15.4
2004	12	21	42.3	17.1	31.2
2004	12	22	58.6	40.1	47.1
2004	12	23	58.8	36.1	50.6
2004	12	24	35.2	28.7	30.6
2004	12	25	29.0	26.1	27.3
2004	12	26	31.2	27.6	29.0
2004	12	27	29.6	24.2	26.9
2004	12	28	33.8	19.5	26.8
2004	12	29	50.0	32.5	40.9
2004	12	30	47.3	38.8	42.5
2004	12	31	57.7	40.1	47.9
2005	1	1	66.4	46.9	55.3
2005	1	2	44.4	38.3	40.3
2005	1	3	66.7	39.6	54.1
2005	1	4	69.3	45.1	56.7
2005	1	5	44.6	39.2	42.0
2005	1	6	52.9	37.9	41.4
2005	1	7	43.0	40.1	41.5
2005	1	8	48.0	39.0	43.1
2005	1	9	40.5	35.8	38.2
2005	1	10	47.3	35.6	41.8
2005	1	11	46.0	39.0	43.0
2005	1	12	47.7	39.2	42.9
2005	1	13	67.5	48.2	59.8
2005	1	14	61.7	37.0	47.8
2005	1	15	36.3	30.6	32.5

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2005	1	16	33.6	29.6	31.1
2005	1	17	28.7	16.1	22.8
2005	1	18	21.1	12.1	16.4
2005	1	19	24.0	14.6	19.6
2005	1	20	36.9	24.2	30.5
2005	1	21	30.1	18.2	23.5
2005	1	22	25.8	14.8	20.4
2005	1	23	22.2	13.2	17.9
2005	1	24	26.5	10.5	19.7
2005	1	25	35.4	24.3	30.1
2005	1	26	40.5	31.5	35.6
2005	1	27	31.7	17.3	21.4
2005	1	28	21.6	13.4	18.0
2005	1	29	31.7	14.6	24.2
2005	1	30	30.6	28.3	29.4
2005	1	31	31.2	27.6	29.4
2005	2	1	33.3	27.6	30.1
2005	2	2	36.9	26.5	32.0
2005	2	3	34.3	30.6	32.2
2005	2	4	43.3	31.2	36.8
2005	2	5	47.3	39.7	43.0
2005	2	6	48.9	38.7	41.7
2005	2	7	46.2	36.5	40.0
2005	2	8	59.5	32.4	44.1
2005	2	9	50.5	39.4	45.5
2005	2	10	49.8	29.2	40.7
2005	2	11	39.6	25.6	31.9
2005	2	12	49.8	27.8	38.3
2005	2	13	45.0	37.8	41.4
2005	2	14	53.4	35.1	41.9
2005	2	15	56.7	43.0	49.4
2005	2	16	64.2	41.4	49.6
2005	2	17	43.0	32.5	37.7
2005	2	18	31.7	23.4	28.4
2005	2	19	34.7	21.3	27.3
2005	2	20	38.7	27.0	33.5
2005	2	21	55.9	34.3	43.3
2005	2	22	41.2	35.8	38.0
2005	2	23	43.0	35.4	38.8

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2005	2	24	35.2	26.3	30.9
2005	2	25	31.7	25.4	27.6
2005	2	26	43.3	25.6	34.5
2005	2	27	37.4	29.6	31.5
2005	2	28	33.4	29.7	31.7
2005	3	1	38.3	29.7	33.2
2005	3	2	35.8	26.7	31.6
2005	3	3	36.0	24.0	29.1
2005	3	4	36.5	25.6	31.1
2005	3	5	37.2	29.7	34.6
2005	3	6	52.9	29.2	41.2
2005	3	7	68.7	43.9	55.9
2005	3	8	59.9	24.5	39.5
2005	3	9	36.0	19.7	27.6
2005	3	10	37.0	24.3	31.5
2005	3	11	54.0	35.6	42.7
2005	3	12	48.6	29.7	39.8
2005	3	13	40.3	36.9	38.4
2005	3	14	41.2	34.3	37.1
2005	3	15	45.5	28.3	37.6
2005	3	16	41.9	35.1	38.9
2005	3	17	39.9	33.4	37.5
2005	3	18	49.3	31.2	40.7
2005	3	19	53.4	37.6	45.4
2005	3	20	51.8	42.1	45.4
2005	3	21	49.6	39.0	43.7
2005	3	22	49.6	32.2	41.5
2005	3	23	48.6	39.2	43.7
2005	3	24	41.9	36.7	39.3
2005	3	25	44.1	37.4	41.1
2005	3	26	45.9	40.6	42.8
2005	3	27	46.4	40.6	43.1
2005	3	28	57.6	42.1	49.3
2005	3	29	57.0	45.9	50.7
2005	3	30	57.4	43.9	48.7
2005	3	31	50.9	41.5	46.3
2005	4	1	54.1	44.1	48.1
2005	4	2	55.8	43.3	51.2
2005	4	3	49.5	40.1	44.4

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2005	4	4	63.9	43.9	54.6
2005	4	5	64.4	44.4	54.3
2005	4	6	90.7	52.2	68.5
2005	4	7	81.5	60.8	69.3
2005	4	8	61.0	49.3	54.6
2005	4	9	57.7	45.7	51.0
2005	4	10	64.4	44.1	53.2
2005	4	11	58.5	44.2	53.6
2005	4	12	49.6	40.6	45.5
2005	4	13	55.9	43.0	48.0
2005	4	14	58.1	42.8	49.2
2005	4	15	52.7	41.9	46.4
2005	4	16	53.8	39.9	46.6
2005	4	17	70.0	38.3	54.7
2005	4	18	72.1	52.2	63.2
2005	4	19	81.0	56.8	69.0
2005	4	20	84.4	63.0	73.5
2005	4	21	69.1	49.8	59.2
2005	4	22	56.1	50.0	53.3
2005	4	23	66.6	48.6	57.8
2005	4	24	50.5	43.7	46.7
2005	4	25	61.7	43.0	51.8
2005	4	26	64.9	48.4	57.5
2005	4	27	64.6	54.1	59.3
2005	4	28	64.8	47.5	56.5
2005	4	29	59.2	52.2	55.2
2005	4	30	69.4	55.0	61.6
2005	5	1	63.1	48.0	56.6
2005	5	2	60.6	44.6	52.6
2005	5	3	57.9	39.9	49.3
2005	5	4	55.8	48.2	50.8
2005	5	5	59.5	44.4	52.6
2005	5	6	52.5	49.1	50.9
2005	5	7	64.2	45.5	55.4
2005	5	8	69.3	51.3	61.0
2005	5	9	70.2	46.4	58.3
2005	5	10	65.1	51.1	57.0
2005	5	11	78.3	50.2	63.8
2005	5	12	70.7	57.7	65.9

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2005	5	13	58.1	52.2	54.8
2005	5	14	79.9	52.9	66.0
2005	5	15	70.7	57.2	63.7
2005	5	16	63.7	56.7	60.5
2005	5	17	63.9	55.0	58.7
2005	5	18	67.3	52.7	59.9
2005	5	19	64.6	54.9	59.8
2005	5	20	61.2	50.9	55.1
2005	5	21	67.6	45.0	57.6
2005	5	22	65.3	53.1	59.2
2005	5	23	62.1	56.7	59.0
2005	5	24	56.7	51.4	53.5
2005	5	25	55.6	50.7	53.0
2005	5	26	69.8	50.5	59.8
2005	5	27	79.0	58.6	69.2
2005	5	28	73.6	58.3	64.6
2005	5	29	74.5	54.0	64.2
2005	5	30	75.7	55.8	64.5
2005	5	31	73.6	59.0	66.0
2005	6	1	73.9	57.9	65.5
2005	6	2	65.5	57.7	61.5
2005	6	3	65.3	57.7	62.5
2005	6	4	70.9	62.6	66.6
2005	6	5	82.2	64.4	73.2
2005	6	6	85.6	67.8	77.1
2005	6	7	82.6	65.5	73.9
2005	6	8	86.9	68.7	77.9
2005	6	9	82.2	70.0	75.9
2005	6	10	81.3	71.8	75.7
2005	6	11	82.6	69.6	74.7
2005	6	12	81.1	68.9	74.6
2005	6	13	85.3	73.2	79.2
2005	6	14	88.7	73.9	81.6
2005	6	15	85.3	72.7	79.2
2005	6	16	82.9	65.3	74.1
2005	6	17	75.2	59.4	68.0
2005	6	18	75.0	56.3	67.5
2005	6	19	73.4	62.2	67.8
2005	6	20	69.1	60.3	63.6

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2005	6	21	76.8	53.8	66.6
2005	6	22	78.1	67.1	72.4
2005	6	23	76.3	67.3	70.7
2005	6	24	79.3	63.1	71.4
2005	6	25	83.3	64.4	73.2
2005	6	26	81.0	67.3	74.3
2005	6	27	78.3	71.2	74.0
2005	6	28	84.9	70.5	76.4
2005	6	29	77.4	69.1	73.2
2005	6	30	81.0	67.1	73.7
2005	7	1	86.5	71.1	78.0
2005	7	2	80.1	70.7	76.7
2005	7	3	80.8	69.6	74.4
2005	7	4	80.6	64.2	72.7
2005	7	5	81.0	69.6	75.2
2005	7	6	81.1	68.4	74.4
2005	7	7	78.1	68.0	73.2
2005	7	8	74.5	66.7	70.3
2005	7	9	83.7	66.6	74.8
2005	7	10	83.8	68.7	76.1
2005	7	11	85.6	69.6	78.1
2005	7	12	86.2	73.8	79.5
2005	7	13	83.8	73.0	78.1
2005	7	14	82.6	73.0	77.4
2005	7	15	82.8	73.6	77.5
2005	7	16	85.5	74.3	79.3
2005	7	17	86.7	73.8	79.3
2005	7	18	88.0	74.3	80.6
2005	7	19	89.4	76.6	82.3
2005	7	20	86.2	73.8	79.8
2005	7	21	88.9	73.0	80.1
2005	7	22	86.5	72.1	78.5
2005	7	23	84.2	75.2	79.6
2005	7	24	82.0	62.6	74.9
2005	7	25	89.6	67.1	78.5
2005	7	26	90.5	77.2	83.1
2005	7	27	95.5	72.9	85.0
2005	7	28	78.4	72.0	75.0
2005	7	29	79.7	69.4	74.4

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2005	7	30	78.6	71.6	74.7
2005	7	31	78.4	71.6	74.6
2005	8	1	81.1	71.2	75.4
2005	8	2	88.0	71.1	79.4
2005	8	3	86.4	75.4	80.4
2005	8	4	91.2	73.2	81.6
2005	8	5	92.3	72.9	81.7
2005	8	6	84.9	72.0	78.9
2005	8	7	85.5	72.9	78.8
2005	8	8	86.0	73.9	79.8
2005	8	9	72.9	69.6	71.2
2005	8	10	80.6	70.2	75.0
2005	8	11	90.0	74.3	81.4
2005	8	12	90.9	76.8	83.1
2005	8	13	92.7	78.1	84.5
2005	8	14	91.8	78.3	84.4
2005	8	15	86.7	77.7	82.6
2005	8	16	79.9	71.6	75.5
2005	8	17	80.2	69.4	73.9
2005	8	18	82.4	67.5	75.5
2005	8	19	76.6	69.1	73.0
2005	8	20	84.0	72.5	77.4
2005	8	21	87.1	76.5	81.3
2005	8	22	84.6	70.0	77.5
2005	8	23	78.8	72.1	75.3
2005	8	24	77.7	72.1	74.7
2005	8	25	77.4	62.1	71.6
2005	8	26	75.6	64.0	70.0
2005	8	27	75.4	66.9	70.7
2005	8	28	79.7	70.7	74.6
2005	8	29	82.6	70.5	76.0
2005	8	30	81.0	73.0	77.4
2005	8	31	83.8	71.8	79.4
2005	9	1	80.2	66.7	73.3
2005	9	2	84.9	66.7	75.7
2005	9	3	78.1	68.2	73.1
2005	9	4	78.3	62.6	72.6
2005	9	5	77.5	67.1	72.2
2005	9	6	76.8	66.6	70.7

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2005	9	7	74.1	65.3	69.2
2005	9	8	76.5	61.5	68.5
2005	9	9	78.6	63.9	71.9
2005	9	10	78.3	66.4	72.1
2005	9	11	76.1	61.5	69.6
2005	9	12	79.9	59.7	68.1
2005	9	13	81.0	62.4	71.7
2005	9	14	82.4	73.6	77.0
2005	9	15	82.9	74.8	78.1
2005	9	16	82.2	73.0	77.0
2005	9	17	83.1	71.1	76.7
2005	9	18	79.0	67.1	73.6
2005	9	19	80.2	63.9	72.5
2005	9	20	84.9	70.0	74.7
2005	9	21	86.5	56.7	70.4
2005	9	22	84.2	54.1	70.2
2005	9	23	86.5	70.9	78.5
2005	9	24	77.5	68.5	72.4
2005	9	25	76.8	67.8	71.8
2005	9	26	82.8	69.3	74.8
2005	9	27	74.1	64.0	69.8
2005	9	28	74.7	62.2	68.6
2005	9	29	72.9	62.1	67.4
2005	9	30	63.9	55.9	59.5
2005	10	1	70.9	53.8	62.5
2005	10	2	73.0	56.3	64.2
2005	10	3	72.3	56.3	65.8
2005	10	4	71.8	66.0	68.4
2005	10	5	71.4	64.4	67.6
2005	10	6	78.1	67.5	71.2
2005	10	7	75.6	68.5	72.2
2005	10	8	73.6	55.9	69.0
2005	10	9	60.4	54.9	57.6
2005	10	10	64.2	60.4	62.2
2005	10	11	63.5	61.2	62.6
2005	10	12	63.1	55.0	60.4
2005	10	13	62.2	54.0	58.6
2005	10	14	70.9	59.5	63.3
2005	10	15	77.9	56.5	65.6

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
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Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2005	10	16	67.3	53.8	59.4
2005	10	17	68.2	45.3	55.7
2005	10	18	77.9	49.3	62.7
2005	10	19	75.7	48.6	64.3
2005	10	20	65.5	51.8	59.7
2005	10	21	56.1	51.3	53.2
2005	10	22	60.4	50.7	56.8
2005	10	23	62.6	45.9	52.6
2005	10	24	58.1	49.5	53.3
2005	10	25	50.5	40.1	45.0
2005	10	26	56.7	39.4	47.0
2005	10	27	55.0	38.3	46.5
2005	10	28	53.4	42.3	48.6
2005	10	29	51.4	35.2	42.7
2005	10	30	68.0	39.0	51.1
2005	10	31	69.6	44.1	55.2
2005	11	1	70.3	49.3	59.1
2005	11	2	63.0	42.8	53.5
2005	11	3	68.5	40.3	54.2
2005	11	4	72.0	49.3	60.1
2005	11	5	73.0	49.1	59.8
2005	11	6	75.7	55.4	64.4
2005	11	7	67.8	47.3	58.9
2005	11	8	73.0	47.8	58.5
2005	11	9	71.4	55.9	63.1
2005	11	10	69.4	41.9	56.1
2005	11	11	55.0	36.7	44.4
2005	11	12	61.2	36.5	48.3
2005	11	13	69.6	45.7	57.3
2005	11	14	68.4	57.4	60.8
2005	11	15	70.9	56.7	62.1
2005	11	16	75.9	44.8	64.6
2005	11	17	45.9	29.7	40.3
2005	11	18	42.1	26.9	32.5
2005	11	19	52.5	29.2	39.8
2005	11	20	60.8	39.7	48.3
2005	11	21	50.5	47.3	48.7
2005	11	22	50.9	39.0	44.6
2005	11	23	40.8	29.4	35.3

Table 2.7-120— CCNPP Daily Average and Extreme Temperatures (2000-2005)
(Page 56 of 56)

Year	Month	Day	Maximum Temp °F	Minimum Temp °F	Average Temp °F
2005	11	24	55.6	26.3	42.8
2005	11	25	37.9	22.0	27.3
2005	11	26	46.6	24.0	36.1
2005	11	27	55.0	36.3	45.8
2005	11	28	65.8	48.2	56.7
2005	11	29	62.4	56.7	59.8
2005	11	30	60.8	41.0	52.6
2005	12	1	45.0	34.2	39.0
2005	12	2	45.5	28.3	36.0
2005	12	3	39.2	26.0	32.4
2005	12	4	57.6	36.7	44.0
2005	12	5	40.1	30.6	35.4
2005	12	6	41.2	26.9	32.7
2005	12	7	43.3	24.3	32.1
2005	12	8	36.3	23.6	28.2
2005	12	9	41.4	28.3	33.6
2005	12	10	41.2	22.4	32.6
2005	12	11	47.1	30.8	39.0
2005	12	12	45.1	31.0	36.5
2005	12	13	32.9	23.6	27.7
2005	12	20	37.4	22.0	29.5
2005	12	21	34.9	23.8	29.1
2005	12	22	40.6	28.3	33.8
2005	12	23	52.9	31.5	41.4
2005	12	24	49.8	38.3	43.8
2005	12	25	51.8	40.6	45.4
2005	12	26	47.7	41.0	44.1
2005	12	27	46.0	36.7	40.8
2005	12	28	52.3	37.0	45.1
2005	12	29	52.3	45.1	47.0
2005	12	30	48.0	36.7	43.2
2005	12	31	48.6	37.9	42.3

Table 2.7-121— CCNPP Monthly Mean Temperatures (1987 - 2006)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
°F	36.5	38.3	44.7	54.8	63.2	71.7	76.5	75.3	68.9	58.2	50.2	39.9	56.5
°C	2.5	3.5	7.1	12.7	17.3	22.1	24.7	24.1	20.5	14.6	10.1	4.4	13.6

Table 2.7-122— CCNPP Monthly and Annual Precipitation (1992 - 2006)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
in	2.11	2.16	3.58	2.90	2.87	2.82	3.04	1.95	2.80	2.42	2.74	2.20	31.58
mm	53.59	54.86	90.93	73.66	72.90	71.63	77.22	49.53	71.12	61.47	69.60	55.88	802.13

Table 2.7-123— CCNPP 33' (10-m) 2000 - 2006 Annual Joint Frequency Distribution Table
(Page 1 of 8)

CC JAN00-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 10.89

WIND DIRECTION FROM

SPEED mps	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	SPEED MPH
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LT .4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.4 - .9
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
.5- 1.0	0	0	0	0	2	0	0	1	0	1	1	0	0	1	0	0	0	6	1.0 - 2.2
(1)	.00	.00	.00	.00	.03	.00	.00	.02	.00	.02	.02	.00	.00	.02	.00	.00	.00	.09	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	
1.1- 1.5	3	3	4	8	4	0	5	2	3	12	9	6	8	4	1	1	0	73	2.3 - 3.4
(1)	.05	.05	.06	.12	.06	.00	.08	.03	.05	.18	.14	.09	.12	.06	.02	.02	.00	1.11	
(2)	.00	.00	.01	.01	.01	.00	.01	.00	.00	.02	.01	.01	.01	.01	.00	.00	.00	.12	
1.6- 2.0	10	29	20	22	14	13	7	13	11	36	54	27	14	5	5	7	0	287	3.5 - 4.5
(1)	.15	.44	.31	.34	.21	.20	.11	.20	.17	.55	.82	.41	.21	.08	.08	.11	.00	4.38	
(2)	.02	.05	.03	.04	.02	.02	.01	.02	.02	.06	.09	.04	.02	.01	.01	.01	.00	.48	
2.1- 3.0	139	178	121	71	83	67	72	84	84	193	297	178	66	38	29	19	0	1719	4.6 - 6.7
(1)	2.12	2.72	1.85	1.08	1.27	1.02	1.10	1.28	1.28	2.95	4.53	2.72	1.01	.58	.44	.29	.00	26.24	
(2)	.23	.30	.20	.12	.14	.11	.12	.14	.14	.32	.49	.30	.11	.06	.05	.03	.00	2.86	
3.1- 4.0	317	280	120	21	31	39	112	168	73	152	329	215	99	92	76	60	0	2184	6.8 - 8.9
(1)	4.84	4.27	1.83	.32	.47	.60	1.71	2.56	1.11	2.32	5.02	3.28	1.51	1.40	1.16	.92	.00	33.34	
(2)	.53	.47	.20	.03	.05	.06	.19	.28	.12	.25	.55	.36	.16	.15	.13	.10	.00	3.63	
4.1- 5.0	179	105	49	9	5	10	54	110	36	88	183	84	76	117	136	49	0	1290	9.0 - 11.2
(1)	2.73	1.60	.75	.14	.08	.15	.82	1.68	.55	1.34	2.79	1.28	1.16	1.79	2.08	.75	.00	19.69	
(2)	.30	.17	.08	.01	.01	.02	.09	.18	.06	.15	.30	.14	.13	.19	.23	.08	.00	2.14	
5.1- 6.0	70	24	28	1	0	1	12	53	6	35	72	26	40	120	122	31	0	641	11.3 - 13.4
(1)	1.07	.37	.43	.02	.00	.02	.18	.81	.09	.53	1.10	.40	.61	1.83	1.86	.47	.00	9.78	
(2)	.12	.04	.05	.00	.00	.00	.02	.09	.01	.06	.12	.04	.07	.20	.20	.05	.00	1.07	
6.1- 8.0	16	1	15	3	0	0	0	28	1	9	19	13	17	80	106	16	0	324	13.5 - 17.9
(1)	.24	.02	.23	.05	.00	.00	.00	.43	.02	.14	.29	.20	.26	1.22	1.62	.24	.00	4.95	
(2)	.03	.00	.02	.00	.00	.00	.00	.05	.00	.01	.03	.02	.03	.13	.18	.03	.00	.54	
8.1-10.0	0	0	0	0	0	0	0	0	0	2	0	0	2	13	8	0	0	25	18.0 - 22.4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.03	.20	.12	.00	.00	.38	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.01	.00	.00	.04	
10.1-89.5	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	22.5 - 200.2
(1)	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.03	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
ALL SPEEDS	734	620	358	135	139	130	262	459	214	528	964	549	323	470	483	183	0	6551	
(1)	11.20	9.46	5.46	2.06	2.12	1.98	4.00	7.01	3.27	8.06	14.72	8.38	4.93	7.17	7.37	2.79	.00	100.00	
(2)	1.22	1.03	.60	.22	.23	.22	.44	.76	.36	.88	1.60	.91	.54	.78	.80	.30	.00	10.89	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.7-123— CCNPP 33' (10-m) 2000 - 2006 Annual Joint Frequency Distribution Table
(Page 2 of 8)

CC JAN00-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 4.50

WIND DIRECTION FROM

SPEED mps	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	SPEED MPH
LT .2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	LT .4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00	.04	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.4 - .9
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
.5- 1.0	1	0	1	0	2	0	1	1	1	0	0	0	0	0	0	1	0	8	1.0 - 2.2
(1)	.04	.00	.04	.00	.07	.00	.04	.04	.04	.00	.00	.00	.00	.00	.00	.04	.00	.30	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	
1.1- 1.5	3	4	3	2	9	1	4	2	3	5	7	3	4	3	0	0	0	53	2.3 - 3.4
(1)	.11	.15	.11	.07	.33	.04	.15	.07	.11	.18	.26	.11	.15	.11	.00	.00	.00	1.96	
(2)	.00	.01	.00	.00	.01	.00	.01	.00	.00	.01	.01	.00	.01	.00	.00	.00	.00	.09	
1.6- 2.0	12	12	27	24	13	20	13	3	13	10	24	20	10	6	4	6	0	217	3.5 - 4.5
(1)	.44	.44	1.00	.89	.48	.74	.48	.11	.48	.37	.89	.74	.37	.22	.15	.22	.00	8.01	
(2)	.02	.02	.04	.04	.02	.03	.02	.00	.02	.02	.04	.03	.02	.01	.01	.01	.00	.36	
2.1- 3.0	103	132	74	70	53	36	48	44	40	58	69	70	46	31	17	15	0	906	4.6 - 6.7
(1)	3.80	4.87	2.73	2.58	1.96	1.33	1.77	1.62	1.48	2.14	2.55	2.58	1.70	1.14	.63	.55	.00	33.44	
(2)	.17	.22	.12	.12	.09	.06	.08	.07	.07	.10	.11	.12	.08	.05	.03	.02	.00	1.51	
3.1- 4.0	122	92	49	16	8	12	53	86	16	44	86	58	33	34	33	18	0	760	6.8 - 8.9
(1)	4.50	3.40	1.81	.59	.30	.44	1.96	3.17	.59	1.62	3.17	2.14	1.22	1.26	1.22	.66	.00	28.05	
(2)	.20	.15	.08	.03	.01	.02	.09	.14	.03	.07	.14	.10	.05	.06	.05	.03	.00	1.26	
4.1- 5.0	58	18	31	3	1	3	15	31	10	22	42	23	26	27	45	29	0	384	9.0 - 11.2
(1)	2.14	.66	1.14	.11	.04	.11	.55	1.14	.37	.81	1.55	.85	.96	1.00	1.66	1.07	.00	14.17	
(2)	.10	.03	.05	.00	.00	.00	.02	.05	.02	.04	.07	.04	.04	.04	.07	.05	.00	.64	
5.1- 6.0	43	10	17	4	0	1	4	21	3	5	17	4	14	26	44	15	0	228	11.3 - 13.4
(1)	1.59	.37	.63	.15	.00	.04	.15	.78	.11	.18	.63	.15	.52	.96	1.62	.55	.00	8.42	
(2)	.07	.02	.03	.01	.00	.00	.01	.03	.00	.01	.03	.01	.02	.04	.07	.02	.00	.38	
6.1- 8.0	10	2	4	4	0	0	2	12	1	4	6	5	5	38	38	10	0	141	13.5 - 17.9
(1)	.37	.07	.15	.15	.00	.00	.07	.44	.04	.15	.22	.18	.18	1.40	1.40	.37	.00	5.20	
(2)	.02	.00	.01	.01	.00	.00	.00	.02	.00	.01	.01	.01	.01	.06	.06	.02	.00	.23	
8.1-10.0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	7	0	0	10	18.0 - 22.4
(1)	.04	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00	.04	.26	.00	.00	.37	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.02	
10.1-89.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	22.5 - 200.2
(1)	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
ALL SPEEDS	354	270	206	123	86	73	140	201	87	148	251	184	138	166	188	94	0	2709	
(1)	13.07	9.97	7.60	4.54	3.17	2.69	5.17	7.42	3.21	5.46	9.27	6.79	5.09	6.13	6.94	3.47	.00	100.00	
(2)	.59	.45	.34	.20	.14	.12	.23	.33	.14	.25	.42	.31	.23	.28	.31	.16	.00	4.50	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.7-123— CCNPP 33' (10-m) 2000 - 2006 Annual Joint Frequency Distribution Table
(Page 3 of 8)

CC JAN00-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 5.09

WIND DIRECTION FROM

SPEED mps	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	SPEED MPH
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LT .4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
.2- .4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	.4 - .9
(1)	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
.5- 1.0	1	1	1	0	3	0	2	1	2	1	3	2	3	1	1	1	0	23	1.0 - 2.2
(1)	.03	.03	.03	.00	.10	.00	.07	.03	.07	.03	.10	.07	.10	.03	.03	.03	.00	.75	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	
1.1- 1.5	5	14	8	13	11	7	6	5	3	8	11	12	8	6	2	4	0	123	2.3 - 3.4
(1)	.16	.46	.26	.42	.36	.23	.20	.16	.10	.26	.36	.39	.26	.20	.07	.13	.00	4.02	
(2)	.01	.02	.01	.02	.02	.01	.01	.01	.00	.01	.02	.02	.01	.01	.00	.01	.00	.20	
1.6- 2.0	18	41	23	30	39	21	19	16	16	11	31	24	16	7	8	4	0	324	3.5 - 4.5
(1)	.59	1.34	.75	.98	1.27	.69	.62	.52	.52	.36	1.01	.78	.52	.23	.26	.13	.00	10.58	
(2)	.03	.07	.04	.05	.06	.03	.03	.03	.03	.02	.05	.04	.03	.01	.01	.01	.00	.54	
2.1- 3.0	132	163	107	79	58	44	56	63	39	60	108	76	48	38	36	25	0	1132	4.6 - 6.7
(1)	4.31	5.32	3.49	2.58	1.89	1.44	1.83	2.06	1.27	1.96	3.53	2.48	1.57	1.24	1.18	.82	.00	36.97	
(2)	.22	.27	.18	.13	.10	.07	.09	.10	.06	.10	.18	.13	.08	.06	.06	.04	.00	1.88	
3.1- 4.0	126	71	76	19	13	8	18	92	26	32	75	56	43	32	47	30	0	764	6.8 - 8.9
(1)	4.11	2.32	2.48	.62	.42	.26	.59	3.00	.85	1.05	2.45	1.83	1.40	1.05	1.53	.98	.00	24.95	
(2)	.21	.12	.13	.03	.02	.01	.03	.15	.04	.05	.12	.09	.07	.05	.08	.05	.00	1.27	
4.1- 5.0	56	22	35	7	3	2	9	44	8	18	35	27	15	33	46	26	0	386	9.0 - 11.2
(1)	1.83	.72	1.14	.23	.10	.07	.29	1.44	.26	.59	1.14	.88	.49	1.08	1.50	.85	.00	12.61	
(2)	.09	.04	.06	.01	.00	.00	.01	.07	.01	.03	.06	.04	.02	.05	.08	.04	.00	.64	
5.1- 6.0	15	10	18	9	0	0	3	15	2	2	19	5	8	24	31	10	0	171	11.3 - 13.4
(1)	.49	.33	.59	.29	.00	.00	.10	.49	.07	.07	.62	.16	.26	.78	1.01	.33	.00	5.58	
(2)	.02	.02	.03	.01	.00	.00	.00	.02	.00	.00	.03	.01	.01	.04	.05	.02	.00	.28	
6.1- 8.0	18	4	7	5	0	0	0	5	0	2	4	0	5	27	41	9	0	127	13.5 - 17.9
(1)	.59	.13	.23	.16	.00	.00	.00	.16	.00	.07	.13	.00	.16	.88	1.34	.29	.00	4.15	
(2)	.03	.01	.01	.01	.00	.00	.00	.01	.00	.00	.01	.00	.01	.04	.07	.01	.00	.21	
8.1-10.0	2	0	2	0	0	0	0	0	0	0	0	0	0	3	3	1	0	11	18.0 - 22.4
(1)	.07	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.10	.03	.00	.36	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	
10.1-89.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.5 - 200.2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
ALL SPEEDS	373	326	277	162	127	83	113	241	96	134	286	202	146	171	215	110	0	3062	
(1)	12.18	10.65	9.05	5.29	4.15	2.71	3.69	7.87	3.14	4.38	9.34	6.60	4.77	5.58	7.02	3.59	.00	100.00	
(2)	.62	.54	.46	.27	.21	.14	.19	.40	.16	.22	.48	.34	.24	.28	.36	.18	.00	5.09	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.7-123— CCNPP 33' (10-m) 2000 - 2006 Annual Joint Frequency Distribution Table

(Page 4 of 8)

CC JAN00-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA STABILITY CLASS D CLASS FREQUENCY (PERCENT) = 33.91

WIND DIRECTION FROM

SPEED mps	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	SPEED MPH
LT .2	0	0	0	0	1	0	0	0	0	2	3	0	0	1	2	1	0	10	LT .4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	.00	.01	.00	.00	.05	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	
.2- .4	1	1	0	2	0	0	1	1	2	2	2	2	4	5	0	1	0	24	.4 - .9
(1)	.00	.00	.00	.01	.00	.00	.00	.00	.01	.01	.01	.01	.02	.02	.00	.00	.00	.12	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	.00	.04	
.5- 1.0	33	35	41	26	41	46	34	33	36	50	57	35	26	40	23	36	0	592	1.0 - 2.2
(1)	.16	.17	.20	.13	.20	.23	.17	.16	.18	.25	.28	.17	.13	.20	.11	.18	.00	2.90	
(2)	.05	.06	.07	.04	.07	.08	.06	.05	.06	.08	.09	.06	.04	.07	.04	.06	.00	.98	
1.1- 1.5	89	92	88	100	152	101	75	79	72	85	109	69	66	46	51	50	0	1324	2.3 - 3.4
(1)	.44	.45	.43	.49	.75	.50	.37	.39	.35	.42	.53	.34	.32	.23	.25	.25	.00	6.49	
(2)	.15	.15	.15	.17	.25	.17	.12	.13	.12	.14	.18	.11	.11	.08	.08	.08	.00	2.20	
1.6- 2.0	173	244	172	219	225	159	144	137	138	139	158	108	81	64	88	84	0	2333	3.5 - 4.5
(1)	.85	1.20	.84	1.07	1.10	.78	.71	.67	.68	.68	.77	.53	.40	.31	.43	.41	.00	11.44	
(2)	.29	.41	.29	.36	.37	.26	.24	.23	.23	.23	.26	.18	.13	.11	.15	.14	.00	3.88	
2.1- 3.0	487	577	448	573	434	274	304	463	284	242	375	282	184	171	287	303	0	5688	4.6 - 6.7
(1)	2.39	2.83	2.20	2.81	2.13	1.34	1.49	2.27	1.39	1.19	1.84	1.38	.90	.84	1.41	1.49	.00	27.89	
(2)	.81	.96	.74	.95	.72	.46	.51	.77	.47	.40	.62	.47	.31	.28	.48	.50	.00	9.45	
3.1- 4.0	470	352	470	445	186	116	153	406	179	154	294	191	114	150	374	452	0	4506	6.8 - 8.9
(1)	2.30	1.73	2.30	2.18	.91	.57	.75	1.99	.88	.76	1.44	.94	.56	.74	1.83	2.22	.00	22.09	
(2)	.78	.59	.78	.74	.31	.19	.25	.67	.30	.26	.49	.32	.19	.25	.62	.75	.00	7.49	
4.1- 5.0	384	285	403	243	48	19	53	221	80	80	188	80	65	144	334	324	0	2951	9.0 - 11.2
(1)	1.88	1.40	1.98	1.19	.24	.09	.26	1.08	.39	.39	.92	.39	.32	.71	1.64	1.59	.00	14.47	
(2)	.64	.47	.67	.40	.08	.03	.09	.37	.13	.13	.31	.13	.11	.24	.56	.54	.00	4.91	
5.1- 6.0	265	187	267	122	1	4	19	118	22	32	85	23	31	118	267	135	0	1696	11.3 - 13.4
(1)	1.30	.92	1.31	.60	.00	.02	.09	.58	.11	.16	.42	.11	.15	.58	1.31	.66	.00	8.31	
(2)	.44	.31	.44	.20	.00	.01	.03	.20	.04	.05	.14	.04	.05	.20	.44	.22	.00	2.82	
6.1- 8.0	204	110	211	53	3	2	13	62	17	17	15	12	15	133	162	49	0	1078	13.5 - 17.9
(1)	1.00	.54	1.03	.26	.01	.01	.06	.30	.08	.08	.07	.06	.07	.65	.79	.24	.00	5.29	
(2)	.34	.18	.35	.09	.00	.00	.02	.10	.03	.03	.02	.02	.02	.22	.27	.08	.00	1.79	
8.1-10.0	34	11	45	10	1	0	3	9	1	2	1	1	4	22	21	3	0	168	18.0 - 22.4
(1)	.17	.05	.22	.05	.00	.00	.01	.04	.00	.01	.00	.00	.02	.11	.10	.01	.00	.82	
(2)	.06	.02	.07	.02	.00	.00	.00	.01	.00	.00	.00	.00	.01	.04	.03	.00	.00	.28	
10.1-89.5	4	2	13	3	1	0	1	1	0	0	0	0	0	1	1	0	0	27	22.5 - 200.2
(1)	.02	.01	.06	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	
(2)	.01	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	
ALL SPEEDS	2144	1896	2158	1796	1093	721	800	1530	831	805	1287	803	590	895	1610	1438	0	20397	
(1)	10.51	9.30	10.58	8.81	5.36	3.53	3.92	7.50	4.07	3.95	6.31	3.94	2.89	4.39	7.89	7.05	.00	100.00	
(2)	3.56	3.15	3.59	2.99	1.82	1.20	1.33	2.54	1.38	1.34	2.14	1.33	.98	1.49	2.68	2.39	.00	33.91	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.7-123— CCNPP 33' (10-m) 2000 - 2006 Annual Joint Frequency Distribution Table

(Page 5 of 8)

CC JAN00-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 27.57

WIND DIRECTION FROM

SPEED mps	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	SPEED MPH
LT .2	3	3	0	0	2	1	4	6	7	3	12	8	5	1	2	1	0	58	LT .4
(1)	.02	.02	.00	.00	.01	.01	.02	.04	.04	.02	.07	.05	.03	.01	.01	.01	.00	.35	
(2)	.00	.00	.00	.00	.00	.00	.01	.01	.01	.00	.02	.01	.01	.00	.00	.00	.00	.10	
.2- .4	3	2	7	2	4	7	8	10	17	19	10	13	15	7	8	1	0	133	.4 - .9
(1)	.02	.01	.04	.01	.02	.04	.05	.06	.10	.11	.06	.08	.09	.04	.05	.01	.00	.80	
(2)	.00	.00	.01	.00	.01	.01	.01	.02	.03	.03	.02	.02	.02	.01	.01	.00	.00	.22	
.5- 1.0	54	42	35	40	59	65	67	83	120	132	137	100	81	52	63	63	0	1193	1.0 - 2.2
(1)	.33	.25	.21	.24	.36	.39	.40	.50	.72	.80	.83	.60	.49	.31	.38	.38	.00	7.19	
(2)	.09	.07	.06	.07	.10	.11	.11	.14	.20	.22	.23	.17	.13	.09	.10	.10	.00	1.98	
1.1- 1.5	110	107	75	64	68	81	98	144	235	299	278	165	134	127	152	84	0	2221	2.3 - 3.4
(1)	.66	.65	.45	.39	.41	.49	.59	.87	1.42	1.80	1.68	.99	.81	.77	.92	.51	.00	13.39	
(2)	.18	.18	.12	.11	.11	.13	.16	.24	.39	.50	.46	.27	.22	.21	.25	.14	.00	3.69	
1.6- 2.0	137	141	63	76	99	70	115	184	296	309	319	204	178	214	233	175	0	2813	3.5 - 4.5
(1)	.83	.85	.38	.46	.60	.42	.69	1.11	1.78	1.86	1.92	1.23	1.07	1.29	1.40	1.05	.00	16.96	
(2)	.23	.23	.10	.13	.16	.12	.19	.31	.49	.51	.53	.34	.30	.36	.39	.29	.00	4.68	
2.1- 3.0	244	213	134	101	105	71	102	270	566	630	871	364	281	354	657	365	0	5328	4.6 - 6.7
(1)	1.47	1.28	.81	.61	.63	.43	.61	1.63	3.41	3.80	5.25	2.19	1.69	2.13	3.96	2.20	.00	32.12	
(2)	.41	.35	.22	.17	.17	.12	.17	.45	.94	1.05	1.45	.61	.47	.59	1.09	.61	.00	8.86	
3.1- 4.0	162	100	88	38	16	16	36	157	234	360	775	162	123	182	393	221	0	3063	6.8 - 8.9
(1)	.98	.60	.53	.23	.10	.10	.22	.95	1.41	2.17	4.67	.98	.74	1.10	2.37	1.33	.00	18.47	
(2)	.27	.17	.15	.06	.03	.03	.06	.26	.39	.60	1.29	.27	.20	.30	.65	.37	.00	5.09	
4.1- 5.0	78	36	33	6	8	5	11	78	77	163	292	54	47	110	119	78	0	1195	9.0 - 11.2
(1)	.47	.22	.20	.04	.05	.03	.07	.47	.46	.98	1.76	.33	.28	.66	.72	.47	.00	7.20	
(2)	.13	.06	.05	.01	.01	.01	.02	.13	.13	.27	.49	.09	.08	.18	.20	.13	.00	1.99	
5.1- 6.0	34	15	7	0	2	1	5	30	23	56	94	12	18	48	44	18	0	407	11.3 - 13.4
(1)	.20	.09	.04	.00	.01	.01	.03	.18	.14	.34	.57	.07	.11	.29	.27	.11	.00	2.45	
(2)	.06	.02	.01	.00	.00	.00	.01	.05	.04	.09	.16	.02	.03	.08	.07	.03	.00	.68	
6.1- 8.0	13	1	2	2	0	1	4	25	9	12	16	3	6	22	14	4	0	134	13.5 - 17.9
(1)	.08	.01	.01	.01	.00	.01	.02	.15	.05	.07	.10	.02	.04	.13	.08	.02	.00	.81	
(2)	.02	.00	.00	.00	.00	.00	.01	.04	.01	.02	.03	.00	.01	.04	.02	.01	.00	.22	
8.1-10.0	7	1	0	0	0	0	1	5	0	0	0	2	0	6	2	4	0	28	18.0 - 22.4
(1)	.04	.01	.00	.00	.00	.00	.01	.03	.00	.00	.00	.01	.00	.04	.01	.02	.00	.17	
(2)	.01	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.01	.00	.01	.00	.05	
10.1-89.5	0	0	8	2	0	2	2	0	0	0	0	0	0	1	0	0	0	15	22.5 - 200.2
(1)	.00	.00	.05	.01	.00	.01	.01	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.09	
(2)	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	
ALL SPEEDS	845	661	452	331	363	320	453	992	1584	1983	2804	1087	888	1124	1687	1014	0	16588	
(1)	5.09	3.98	2.72	2.00	2.19	1.93	2.73	5.98	9.55	11.95	16.90	6.55	5.35	6.78	10.17	6.11	.00	100.00	
(2)	1.40	1.10	.75	.55	.60	.53	.75	1.65	2.63	3.30	4.66	1.81	1.48	1.87	2.80	1.69	.00	27.57	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.7-123— CCNPP 33' (10-m) 2000 - 2006 Annual Joint Frequency Distribution Table
(Page 6 of 8)

CC JAN00-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 10.52

WIND DIRECTION FROM

SPEED mps	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	SPEED MPH
LT .2	0	4	2	2	2	2	3	2	8	9	9	9	3	4	4	1	0	64	LT .4
(1)	.00	.06	.03	.03	.03	.03	.05	.03	.13	.14	.14	.14	.05	.06	.06	.02	.00	1.01	
(2)	.00	.01	.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.00	.01	.01	.00	.00	.11	
.2- .4	0	2	6	2	9	8	8	12	11	19	11	5	7	10	1	6	0	117	.4 - .9
(1)	.00	.03	.09	.03	.14	.13	.13	.19	.17	.30	.17	.08	.11	.16	.02	.09	.00	1.85	
(2)	.00	.00	.01	.00	.01	.01	.01	.02	.02	.03	.02	.01	.01	.02	.00	.01	.00	.19	
.5- 1.0	31	29	41	27	22	41	30	55	104	150	179	110	82	71	28	32	0	1032	1.0 - 2.2
(1)	.49	.46	.65	.43	.35	.65	.47	.87	1.64	2.37	2.83	1.74	1.30	1.12	.44	.51	.00	16.31	
(2)	.05	.05	.07	.04	.04	.07	.05	.09	.17	.25	.30	.18	.14	.12	.05	.05	.00	1.72	
1.1- 1.5	25	27	24	16	15	24	36	83	216	373	342	177	104	127	71	30	0	1690	2.3 - 3.4
(1)	.40	.43	.38	.25	.24	.38	.57	1.31	3.41	5.89	5.40	2.80	1.64	2.01	1.12	.47	.00	26.71	
(2)	.04	.04	.04	.03	.02	.04	.06	.14	.36	.62	.57	.29	.17	.21	.12	.05	.00	2.81	
1.6- 2.0	20	26	13	18	6	6	27	85	187	344	374	190	135	154	107	24	0	1716	3.5 - 4.5
(1)	.32	.41	.21	.28	.09	.09	.43	1.34	2.96	5.44	5.91	3.00	2.13	2.43	1.69	.38	.00	27.12	
(2)	.03	.04	.02	.03	.01	.01	.04	.14	.31	.57	.62	.32	.22	.26	.18	.04	.00	2.85	
2.1- 3.0	23	37	12	9	5	1	15	38	104	229	458	172	92	135	132	11	0	1473	4.6 - 6.7
(1)	.36	.58	.19	.14	.08	.02	.24	.60	1.64	3.62	7.24	2.72	1.45	2.13	2.09	.17	.00	23.28	
(2)	.04	.06	.02	.01	.01	.00	.02	.06	.17	.38	.76	.29	.15	.22	.22	.02	.00	2.45	
3.1- 4.0	2	9	2	2	0	0	0	1	12	25	81	16	6	5	12	1	0	174	6.8 - 8.9
(1)	.03	.14	.03	.03	.00	.00	.00	.02	.19	.40	1.28	.25	.09	.08	.19	.02	.00	2.75	
(2)	.00	.01	.00	.00	.00	.00	.00	.00	.02	.04	.13	.03	.01	.01	.02	.00	.00	.29	
4.1- 5.0	3	4	3	8	2	0	0	0	1	2	11	0	1	0	2	0	0	37	9.0 - 11.2
(1)	.05	.06	.05	.13	.03	.00	.00	.00	.02	.03	.17	.00	.02	.00	.03	.00	.00	.58	
(2)	.00	.01	.00	.01	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.06	
5.1- 6.0	5	1	2	6	2	0	0	0	0	0	2	0	1	0	0	2	0	21	11.3 - 13.4
(1)	.08	.02	.03	.09	.03	.00	.00	.00	.00	.00	.03	.00	.02	.00	.00	.03	.00	.33	
(2)	.01	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	
6.1- 8.0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	13.5 - 17.9
(1)	.02	.02	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	
8.1-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.0 - 22.4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
10.1-89.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.5 - 200.2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
ALL SPEEDS	110	140	107	90	63	82	119	276	643	1151	1467	679	431	506	357	107	0	6328	
(1)	1.74	2.21	1.69	1.42	1.00	1.30	1.88	4.36	10.16	18.19	23.18	10.73	6.81	8.00	5.64	1.69	.00	100.00	
(2)	.18	.23	.18	.15	.10	.14	.20	.46	1.07	1.91	2.44	1.13	.72	.84	.59	.18	.00	10.52	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.7-123— CCNPP 33' (10-m) 2000 - 2006 Annual Joint Frequency Distribution Table

(Page 7 of 8)

CC JAN00-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA   STABILITY CLASS G   CLASS FREQUENCY (PERCENT) = 7.52

WIND DIRECTION FROM

SPEED mps	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	SPEED MPH
LT .2	0	1	1	2	2	1	2	3	9	5	12	15	3	1	2	2	0	61	LT .4
(1)	.00	.02	.02	.04	.04	.02	.04	.07	.20	.11	.27	.33	.07	.02	.04	.04	.00	1.35	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.02	.02	.00	.00	.00	.00	.00	.10	
.2- .4	2	0	2	3	1	7	3	6	16	23	24	18	18	7	7	3	0	140	.4 - .9
(1)	.04	.00	.04	.07	.02	.15	.07	.13	.35	.51	.53	.40	.40	.15	.15	.07	.00	3.09	
(2)	.00	.00	.00	.00	.00	.01	.00	.01	.03	.04	.04	.03	.03	.01	.01	.00	.00	.23	
.5- 1.0	15	4	9	12	9	12	9	30	64	119	193	196	162	108	21	12	0	975	1.0 - 2.2
(1)	.33	.09	.20	.27	.20	.27	.20	.66	1.41	2.63	4.27	4.33	3.58	2.39	.46	.27	.00	21.55	
(2)	.02	.01	.01	.02	.01	.02	.01	.05	.11	.20	.32	.33	.27	.18	.03	.02	.00	1.62	
1.1- 1.5	6	6	9	8	2	6	7	23	119	393	488	270	167	126	18	3	0	1651	2.3 - 3.4
(1)	.13	.13	.20	.18	.04	.13	.15	.51	2.63	8.69	10.79	5.97	3.69	2.79	.40	.07	.00	36.49	
(2)	.01	.01	.01	.01	.00	.01	.01	.04	.20	.65	.81	.45	.28	.21	.03	.00	.00	2.74	
1.6- 2.0	1	8	2	9	0	8	4	22	82	263	378	138	108	126	26	5	0	1180	3.5 - 4.5
(1)	.02	.18	.04	.20	.00	.18	.09	.49	1.81	5.81	8.36	3.05	2.39	2.79	.57	.11	.00	26.08	
(2)	.00	.01	.00	.01	.00	.01	.01	.04	.14	.44	.63	.23	.18	.21	.04	.01	.00	1.96	
2.1- 3.0	1	4	3	0	0	2	2	7	22	64	160	72	55	51	21	2	0	466	4.6 - 6.7
(1)	.02	.09	.07	.00	.00	.04	.04	.15	.49	1.41	3.54	1.59	1.22	1.13	.46	.04	.00	10.30	
(2)	.00	.01	.00	.00	.00	.00	.00	.01	.04	.11	.27	.12	.09	.08	.03	.00	.00	.77	
3.1- 4.0	0	1	0	0	0	0	0	1	0	3	3	1	3	0	2	0	0	14	6.8 - 8.9
(1)	.00	.02	.00	.00	.00	.00	.00	.02	.00	.07	.07	.02	.07	.00	.04	.00	.00	.31	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	
4.1- 5.0	0	1	2	5	1	0	0	0	0	0	1	0	0	1	5	0	0	16	9.0 - 11.2
(1)	.00	.02	.04	.11	.02	.00	.00	.00	.00	.00	.02	.00	.00	.02	.11	.00	.00	.35	
(2)	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.03	
5.1- 6.0	0	0	3	2	0	0	0	0	0	0	0	0	0	1	1	0	0	7	11.3 - 13.4
(1)	.00	.00	.07	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.15	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	
6.1- 8.0	0	0	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9	13.5 - 17.9
(1)	.00	.00	.18	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	
(2)	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	
8.1-10.0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	5	18.0 - 22.4
(1)	.00	.00	.07	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	
10.1-89.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.5 - 200.2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
ALL SPEEDS	25	25	42	44	15	36	27	92	312	870	1259	710	516	421	103	27	0	4524	
(1)	.55	.55	.93	.97	.33	.80	.60	2.03	6.90	19.23	27.83	15.69	11.41	9.31	2.28	.60	.00	100.00	
(2)	.04	.04	.07	.07	.02	.06	.04	.15	.52	1.45	2.09	1.18	.86	.70	.17	.04	.00	7.52	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.7-123— CCNPP 33' (10-m) 2000 - 2006 Annual Joint Frequency Distribution Table

(Page 8 of 8)

CC JAN00-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

33.0 FT WIND DATA STABILITY CLASS ALL CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED mps	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	SPEED MPH
LT .2	3	8	3	4	7	4	9	11	24	19	36	33	11	7	10	5	0	194	LT .4
(1)	.00	.01	.00	.01	.01	.01	.01	.02	.04	.03	.06	.05	.02	.01	.02	.01	.00	.32	
(2)	.00	.01	.00	.01	.01	.01	.01	.02	.04	.03	.06	.05	.02	.01	.02	.01	.00	.32	
.2- .4	6	5	15	9	14	23	20	29	46	63	47	38	44	29	16	11	0	415	.4 - .9
(1)	.01	.01	.02	.01	.02	.04	.03	.05	.08	.10	.08	.06	.07	.05	.03	.02	.00	.69	
(2)	.01	.01	.02	.01	.02	.04	.03	.05	.08	.10	.08	.06	.07	.05	.03	.02	.00	.69	
.5- 1.0	135	111	128	105	138	164	143	204	327	453	570	443	354	273	136	145	0	3829	1.0 - 2.2
(1)	.22	.18	.21	.17	.23	.27	.24	.34	.54	.75	.95	.74	.59	.45	.23	.24	.00	6.36	
(2)	.22	.18	.21	.17	.23	.27	.24	.34	.54	.75	.95	.74	.59	.45	.23	.24	.00	6.36	
1.1- 1.5	241	253	211	211	261	220	231	338	651	1175	1244	702	491	439	295	172	0	7135	2.3 - 3.4
(1)	.40	.42	.35	.35	.43	.37	.38	.56	1.08	1.95	2.07	1.17	.82	.73	.49	.29	.00	11.86	
(2)	.40	.42	.35	.35	.43	.37	.38	.56	1.08	1.95	2.07	1.17	.82	.73	.49	.29	.00	11.86	
1.6- 2.0	371	501	320	398	396	297	329	460	743	1112	1338	711	542	576	471	305	0	8870	3.5 - 4.5
(1)	.62	.83	.53	.66	.66	.49	.55	.76	1.24	1.85	2.22	1.18	.90	.96	.78	.51	.00	14.74	
(2)	.62	.83	.53	.66	.66	.49	.55	.76	1.24	1.85	2.22	1.18	.90	.96	.78	.51	.00	14.74	
2.1- 3.0	1129	1304	899	903	738	495	599	969	1139	1476	2338	1214	772	818	1179	740	0	16712	4.6 - 6.7
(1)	1.88	2.17	1.49	1.50	1.23	.82	1.00	1.61	1.89	2.45	3.89	2.02	1.28	1.36	1.96	1.23	.00	27.78	
(2)	1.88	2.17	1.49	1.50	1.23	.82	1.00	1.61	1.89	2.45	3.89	2.02	1.28	1.36	1.96	1.23	.00	27.78	
3.1- 4.0	1199	905	805	541	254	191	372	911	540	770	1643	699	421	495	937	782	0	11465	6.8 - 8.9
(1)	1.99	1.50	1.34	.90	.42	.32	.62	1.51	.90	1.28	2.73	1.16	.70	.82	1.56	1.30	.00	19.06	
(2)	1.99	1.50	1.34	.90	.42	.32	.62	1.51	.90	1.28	2.73	1.16	.70	.82	1.56	1.30	.00	19.06	
4.1- 5.0	758	471	556	281	68	39	142	484	212	373	752	268	230	432	687	506	0	6259	9.0 - 11.2
(1)	1.26	.78	.92	.47	.11	.06	.24	.80	.35	.62	1.25	.45	.38	.72	1.14	.84	.00	10.40	
(2)	1.26	.78	.92	.47	.11	.06	.24	.80	.35	.62	1.25	.45	.38	.72	1.14	.84	.00	10.40	
5.1- 6.0	432	247	342	144	5	7	43	237	56	130	289	70	112	337	509	211	0	3171	11.3 - 13.4
(1)	.72	.41	.57	.24	.01	.01	.07	.39	.09	.22	.48	.12	.19	.56	.85	.35	.00	5.27	
(2)	.72	.41	.57	.24	.01	.01	.07	.39	.09	.22	.48	.12	.19	.56	.85	.35	.00	5.27	
6.1- 8.0	262	119	249	68	3	3	19	132	28	44	60	33	48	300	361	88	0	1817	13.5 - 17.9
(1)	.44	.20	.41	.11	.00	.00	.03	.22	.05	.07	.10	.05	.08	.50	.60	.15	.00	3.02	
(2)	.44	.20	.41	.11	.00	.00	.03	.22	.05	.07	.10	.05	.08	.50	.60	.15	.00	3.02	
8.1-10.0	44	12	50	12	1	0	4	15	1	4	1	3	6	45	41	8	0	247	18.0 - 22.4
(1)	.07	.02	.08	.02	.00	.00	.01	.02	.00	.01	.00	.00	.01	.07	.07	.01	.00	.41	
(2)	.07	.02	.08	.02	.00	.00	.01	.02	.00	.01	.00	.00	.01	.07	.07	.01	.00	.41	
10.1-89.5	5	2	22	5	1	2	3	1	0	0	0	0	1	2	1	0	0	45	22.5 - 200.2
(1)	.01	.00	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	
(2)	.01	.00	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	
ALL SPEEDS	4585	3938	3600	2681	1886	1445	1914	3791	3767	5619	8318	4214	3032	3753	4643	2973	0	60159	
(1)	7.62	6.55	5.98	4.46	3.14	2.40	3.18	6.30	6.26	9.34	13.83	7.00	5.04	6.24	7.72	4.94	.00	100.00	
(2)	7.62	6.55	5.98	4.46	3.14	2.40	3.18	6.30	6.26	9.34	13.83	7.00	5.04	6.24	7.72	4.94	.00	100.00	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.7-124— CCNPP 197' (60-m) 2000 - 2006 Annual Joint Frequency Distribution Table
(Page 1 of 8)

CC JAN00-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA STABILITY CLASS A CLASS FREQUENCY (PERCENT) = 10.94

WIND DIRECTION FROM

SPEED mps	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	SPEED MPH
LT .2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LT .4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
.2- .4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.4 - .9
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
.5- 1.0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	1.0 - 2.2
(1)	.00	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
1.1- 1.5	2	3	2	3	4	2	1	1	0	1	0	1	1	1	0	0	0	22	2.3 - 3.4
(1)	.03	.05	.03	.05	.06	.03	.02	.02	.00	.02	.00	.02	.02	.02	.00	.00	.00	.34	
(2)	.00	.01	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	
1.6- 2.0	12	13	9	12	20	1	1	1	2	4	12	11	6	0	1	6	0	111	3.5 - 4.5
(1)	.18	.20	.14	.18	.31	.02	.02	.02	.03	.06	.18	.17	.09	.00	.02	.09	.00	1.70	
(2)	.02	.02	.02	.02	.03	.00	.00	.00	.00	.01	.02	.02	.01	.00	.00	.01	.00	.19	
2.1- 3.0	75	91	58	55	76	48	26	22	29	48	77	33	17	10	10	15	0	690	4.6 - 6.7
(1)	1.15	1.39	.89	.84	1.16	.73	.40	.34	.44	.73	1.18	.51	.26	.15	.15	.23	.00	10.56	
(2)	.13	.15	.10	.09	.13	.08	.04	.04	.05	.08	.13	.06	.03	.02	.02	.03	.00	1.16	
3.1- 4.0	166	181	38	18	30	54	63	91	54	120	157	93	42	27	18	22	0	1174	6.8 - 8.9
(1)	2.54	2.77	.58	.28	.46	.83	.96	1.39	.83	1.84	2.40	1.42	.64	.41	.28	.34	.00	17.97	
(2)	.28	.30	.06	.03	.05	.09	.11	.15	.09	.20	.26	.16	.07	.05	.03	.04	.00	1.97	
4.1- 5.0	246	132	20	6	14	32	79	112	52	150	222	112	64	50	59	42	0	1392	9.0 - 11.2
(1)	3.77	2.02	.31	.09	.21	.49	1.21	1.71	.80	2.30	3.40	1.71	.98	.77	.90	.64	.00	21.31	
(2)	.41	.22	.03	.01	.02	.05	.13	.19	.09	.25	.37	.19	.11	.08	.10	.07	.00	2.33	
5.1- 6.0	154	93	14	1	7	6	55	91	39	108	203	89	62	75	72	56	0	1125	11.3 - 13.4
(1)	2.36	1.42	.21	.02	.11	.09	.84	1.39	.60	1.65	3.11	1.36	.95	1.15	1.10	.86	.00	17.22	
(2)	.26	.16	.02	.00	.01	.01	.09	.15	.07	.18	.34	.15	.10	.13	.12	.09	.00	1.88	
6.1- 8.0	141	78	22	5	6	6	39	89	28	152	244	87	78	180	168	64	0	1387	13.5 - 17.9
(1)	2.16	1.19	.34	.08	.09	.09	.60	1.36	.43	2.33	3.74	1.33	1.19	2.76	2.57	.98	.00	21.23	
(2)	.24	.13	.04	.01	.01	.01	.07	.15	.05	.25	.41	.15	.13	.30	.28	.11	.00	2.32	
8.1-10.0	35	33	11	2	0	0	7	23	3	47	62	19	16	107	110	13	0	488	18.0 - 22.4
(1)	.54	.51	.17	.03	.00	.00	.11	.35	.05	.72	.95	.29	.24	1.64	1.68	.20	.00	7.47	
(2)	.06	.06	.02	.00	.00	.00	.01	.04	.01	.08	.10	.03	.03	.18	.18	.02	.00	.82	
10.1-89.5	4	6	9	1	0	0	0	6	1	12	9	5	10	35	38	5	0	141	22.5 - 200.2
(1)	.06	.09	.14	.02	.00	.00	.00	.09	.02	.18	.14	.08	.15	.54	.58	.08	.00	2.16	
(2)	.01	.01	.02	.00	.00	.00	.00	.01	.00	.02	.02	.01	.02	.06	.06	.01	.00	.24	
ALL SPEEDS	835	630	184	103	158	149	271	436	208	642	986	450	296	485	476	223	0	6532	
(1)	12.78	9.64	2.82	1.58	2.42	2.28	4.15	6.67	3.18	9.83	15.09	6.89	4.53	7.42	7.29	3.41	.00	100.00	
(2)	1.40	1.06	.31	.17	.26	.25	.45	.73	.35	1.08	1.65	.75	.50	.81	.80	.37	.00	10.94	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.7-124— CCNPP 197' (60-m) 2000 - 2006 Annual Joint Frequency Distribution Table

(Page 2 of 8)

CC JAN00-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA STABILITY CLASS B CLASS FREQUENCY (PERCENT) = 4.50

WIND DIRECTION FROM

SPEED mps		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	SPEED MPH
LT .2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LT .4
	(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
	(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
.2- .4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.4 - .9
	(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
	(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
.5- 1.0		0	1	1	0	1	0	0	1	0	0	0	0	1	0	2	0	0	7	1.0 - 2.2
	(1)	.00	.04	.04	.00	.04	.00	.00	.04	.00	.00	.00	.00	.04	.00	.07	.00	.00	.26	
	(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	
1.1- 1.5		2	4	2	5	3	3	3	1	0	0	4	2	1	0	0	0	0	30	2.3 - 3.4
	(1)	.07	.15	.07	.19	.11	.11	.11	.04	.00	.00	.15	.07	.04	.00	.00	.00	.00	1.12	
	(2)	.00	.01	.00	.01	.01	.01	.01	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.05	
1.6- 2.0		6	10	14	20	10	11	3	1	4	3	7	5	1	1	3	3	0	102	3.5 - 4.5
	(1)	.22	.37	.52	.74	.37	.41	.11	.04	.15	.11	.26	.19	.04	.04	.11	.11	.00	3.79	
	(2)	.01	.02	.02	.03	.02	.02	.01	.00	.01	.01	.01	.01	.00	.00	.01	.01	.00	.17	
2.1- 3.0		66	81	48	38	68	30	22	17	12	26	25	33	14	9	4	13	0	506	4.6 - 6.7
	(1)	2.45	3.01	1.79	1.41	2.53	1.12	.82	.63	.45	.97	.93	1.23	.52	.33	.15	.48	.00	18.82	
	(2)	.11	.14	.08	.06	.11	.05	.04	.03	.02	.04	.04	.06	.02	.02	.01	.02	.00	.85	
3.1- 4.0		94	87	16	12	13	22	37	42	20	26	46	38	29	24	13	17	0	536	6.8 - 8.9
	(1)	3.50	3.24	.60	.45	.48	.82	1.38	1.56	.74	.97	1.71	1.41	1.08	.89	.48	.63	.00	19.93	
	(2)	.16	.15	.03	.02	.02	.04	.06	.07	.03	.04	.08	.06	.05	.04	.02	.03	.00	.90	
4.1- 5.0		78	46	8	4	5	11	30	56	17	33	51	38	22	20	20	20	0	459	9.0 - 11.2
	(1)	2.90	1.71	.30	.15	.19	.41	1.12	2.08	.63	1.23	1.90	1.41	.82	.74	.74	.74	.00	17.07	
	(2)	.13	.08	.01	.01	.01	.02	.05	.09	.03	.06	.09	.06	.04	.03	.03	.03	.00	.77	
5.1- 6.0		49	26	9	1	3	1	25	42	8	37	59	22	20	22	29	21	0	374	11.3 - 13.4
	(1)	1.82	.97	.33	.04	.11	.04	.93	1.56	.30	1.38	2.19	.82	.74	.82	1.08	.78	.00	13.91	
	(2)	.08	.04	.02	.00	.01	.00	.04	.07	.01	.06	.10	.04	.03	.04	.05	.04	.00	.63	
6.1- 8.0		43	18	16	3	2	3	7	28	9	38	53	20	27	42	57	33	0	399	13.5 - 17.9
	(1)	1.60	.67	.60	.11	.07	.11	.26	1.04	.33	1.41	1.97	.74	1.00	1.56	2.12	1.23	.00	14.84	
	(2)	.07	.03	.03	.01	.00	.01	.01	.05	.02	.06	.09	.03	.05	.07	.10	.06	.00	.67	
8.1-10.0		25	12	10	3	0	0	2	19	3	17	13	5	9	39	41	15	0	213	18.0 - 22.4
	(1)	.93	.45	.37	.11	.00	.00	.07	.71	.11	.63	.48	.19	.33	1.45	1.52	.56	.00	7.92	
	(2)	.04	.02	.02	.01	.00	.00	.00	.03	.01	.03	.02	.01	.02	.07	.07	.03	.00	.36	
10.1-89.5		5	7	2	1	0	0	0	3	3	0	3	3	1	13	17	5	0	63	22.5 - 200.2
	(1)	.19	.26	.07	.04	.00	.00	.00	.11	.11	.00	.11	.11	.04	.48	.63	.19	.00	2.34	
	(2)	.01	.01	.00	.00	.00	.00	.00	.01	.01	.00	.01	.01	.00	.02	.03	.01	.00	.11	
ALL SPEEDS		368	292	126	87	105	81	129	210	76	180	261	166	125	170	186	127	0	2689	
	(1)	13.69	10.86	4.69	3.24	3.90	3.01	4.80	7.81	2.83	6.69	9.71	6.17	4.65	6.32	6.92	4.72	.00	100.00	
	(2)	.62	.49	.21	.15	.18	.14	.22	.35	.13	.30	.44	.28	.21	.28	.31	.21	.00	4.50	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.7-124— CCNPP 197' (60-m) 2000 - 2006 Annual Joint Frequency Distribution Table
(Page 3 of 8)

CC JAN00-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 5.10

WIND DIRECTION FROM

SPEED mps		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	SPEED MPH
LT .2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LT .4
	(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
	(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
.2- .4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.4 - .9
	(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
	(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
.5- 1.0		1	1	1	0	0	2	1	1	1	1	0	4	0	1	0	0	0	14	1.0 - 2.2
	(1)	.03	.03	.03	.00	.00	.07	.03	.03	.03	.03	.00	.13	.00	.03	.00	.00	.00	.46	
	(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.02	
1.1- 1.5		3	7	9	8	8	1	3	1	2	1	4	4	3	1	3	3	0	61	2.3 - 3.4
	(1)	.10	.23	.30	.26	.26	.03	.10	.03	.07	.03	.13	.13	.10	.03	.10	.10	.00	2.00	
	(2)	.01	.01	.02	.01	.01	.00	.01	.00	.00	.00	.01	.01	.01	.00	.01	.01	.00	.10	
1.6- 2.0		15	33	22	26	27	13	6	6	2	4	16	10	8	5	4	4	0	201	3.5 - 4.5
	(1)	.49	1.08	.72	.85	.89	.43	.20	.20	.07	.13	.53	.33	.26	.16	.13	.13	.00	6.61	
	(2)	.03	.06	.04	.04	.05	.02	.01	.01	.00	.01	.03	.02	.01	.01	.01	.01	.00	.34	
2.1- 3.0		67	103	54	65	56	40	35	27	21	17	43	29	20	19	6	12	0	614	4.6 - 6.7
	(1)	2.20	3.38	1.77	2.14	1.84	1.31	1.15	.89	.69	.56	1.41	.95	.66	.62	.20	.39	.00	20.18	
	(2)	.11	.17	.09	.11	.09	.07	.06	.05	.04	.03	.07	.05	.03	.03	.01	.02	.00	1.03	
3.1- 4.0		118	95	32	14	18	24	33	39	26	26	58	47	31	21	30	32	0	644	6.8 - 8.9
	(1)	3.88	3.12	1.05	.46	.59	.79	1.08	1.28	.85	.85	1.91	1.54	1.02	.69	.99	1.05	.00	21.16	
	(2)	.20	.16	.05	.02	.03	.04	.06	.07	.04	.04	.10	.08	.05	.04	.05	.05	.00	1.08	
4.1- 5.0		72	49	11	3	11	9	20	68	18	38	54	37	24	22	37	35	0	508	9.0 - 11.2
	(1)	2.37	1.61	.36	.10	.36	.30	.66	2.23	.59	1.25	1.77	1.22	.79	.72	1.22	1.15	.00	16.69	
	(2)	.12	.08	.02	.01	.02	.02	.03	.11	.03	.06	.09	.06	.04	.04	.06	.06	.00	.85	
5.1- 6.0		48	27	8	6	1	2	6	41	10	27	48	31	17	23	26	27	0	348	11.3 - 13.4
	(1)	1.58	.89	.26	.20	.03	.07	.20	1.35	.33	.89	1.58	1.02	.56	.76	.85	.89	.00	11.44	
	(2)	.08	.05	.01	.01	.00	.00	.01	.07	.02	.05	.08	.05	.03	.04	.04	.05	.00	.58	
6.1- 8.0		36	31	19	5	1	2	9	39	12	38	45	25	21	32	63	30	0	408	13.5 - 17.9
	(1)	1.18	1.02	.62	.16	.03	.07	.30	1.28	.39	1.25	1.48	.82	.69	1.05	2.07	.99	.00	13.41	
	(2)	.06	.05	.03	.01	.00	.00	.02	.07	.02	.06	.08	.04	.04	.05	.11	.05	.00	.68	
8.1-10.0		13	26	9	3	1	0	2	10	2	8	18	3	5	33	34	7	0	174	18.0 - 22.4
	(1)	.43	.85	.30	.10	.03	.00	.07	.33	.07	.26	.59	.10	.16	1.08	1.12	.23	.00	5.72	
	(2)	.02	.04	.02	.01	.00	.00	.00	.02	.00	.01	.03	.01	.01	.06	.06	.01	.00	.29	
10.1-89.5		10	8	6	2	0	0	0	0	0	2	3	0	2	12	25	1	0	71	22.5 - 200.2
	(1)	.33	.26	.20	.07	.00	.00	.00	.00	.00	.07	.10	.00	.07	.39	.82	.03	.00	2.33	
	(2)	.02	.01	.01	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.02	.04	.00	.00	.12	
ALL SPEEDS		383	380	171	132	123	93	115	232	94	162	289	190	131	169	228	151	0	3043	
	(1)	12.59	12.49	5.62	4.34	4.04	3.06	3.78	7.62	3.09	5.32	9.50	6.24	4.30	5.55	7.49	4.96	.00	100.00	
	(2)	.64	.64	.29	.22	.21	.16	.19	.39	.16	.27	.48	.32	.22	.28	.38	.25	.00	5.10	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.7-124— CCNPP 197' (60-m) 2000 - 2006 Annual Joint Frequency Distribution Table

(Page 4 of 8)

CC JAN00-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA   STABILITY CLASS D   CLASS FREQUENCY (PERCENT) = 33.93

WIND DIRECTION FROM

SPEED mps		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	SPEED MPH
LT .2		0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	LT .4
	(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	
	(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
.2- .4		0	2	0	0	1	0	0	1	0	0	0	0	1	2	1	1	0	9	.4 - .9
	(1)	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.04	
	(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	
.5- 1.0		18	18	26	21	28	13	11	12	11	12	12	9	8	11	8	17	0	235	1.0 - 2.2
	(1)	.09	.09	.13	.10	.14	.06	.05	.06	.05	.06	.06	.04	.04	.05	.04	.08	.00	1.16	
	(2)	.03	.03	.04	.04	.05	.02	.02	.02	.02	.02	.02	.02	.01	.02	.01	.03	.00	.39	
1.1- 1.5		45	52	47	55	57	41	24	15	16	17	22	22	24	19	20	21	0	497	2.3 - 3.4
	(1)	.22	.26	.23	.27	.28	.20	.12	.07	.08	.08	.11	.11	.12	.09	.10	.10	.00	2.45	
	(2)	.08	.09	.08	.09	.10	.07	.04	.03	.03	.03	.04	.04	.04	.03	.03	.04	.00	.83	
1.6- 2.0		72	106	77	99	119	59	36	22	32	25	57	36	35	27	29	52	0	883	3.5 - 4.5
	(1)	.36	.52	.38	.49	.59	.29	.18	.11	.16	.12	.28	.18	.17	.13	.14	.26	.00	4.36	
	(2)	.12	.18	.13	.17	.20	.10	.06	.04	.05	.04	.10	.06	.06	.05	.05	.09	.00	1.48	
2.1- 3.0		306	347	188	256	258	152	164	165	107	112	109	110	83	66	91	106	0	2620	4.6 - 6.7
	(1)	1.51	1.71	.93	1.26	1.27	.75	.81	.81	.53	.55	.54	.54	.41	.33	.45	.52	.00	12.93	
	(2)	.51	.58	.31	.43	.43	.25	.27	.28	.18	.19	.18	.18	.14	.11	.15	.18	.00	4.39	
3.1- 4.0		279	282	174	287	230	194	198	240	167	144	174	148	109	101	143	206	0	3076	6.8 - 8.9
	(1)	1.38	1.39	.86	1.42	1.14	.96	.98	1.18	.82	.71	.86	.73	.54	.50	.71	1.02	.00	15.19	
	(2)	.47	.47	.29	.48	.39	.32	.33	.40	.28	.24	.29	.25	.18	.17	.24	.35	.00	5.15	
4.1- 5.0		277	225	243	283	209	122	170	319	153	158	160	134	81	106	188	261	0	3089	9.0 - 11.2
	(1)	1.37	1.11	1.20	1.40	1.03	.60	.84	1.57	.76	.78	.79	.66	.40	.52	.93	1.29	.00	15.25	
	(2)	.46	.38	.41	.47	.35	.20	.28	.53	.26	.26	.27	.22	.14	.18	.31	.44	.00	5.17	
5.1- 6.0		258	227	254	224	95	72	117	295	99	131	175	123	68	124	279	324	0	2865	11.3 - 13.4
	(1)	1.27	1.12	1.25	1.11	.47	.36	.58	1.46	.49	.65	.86	.61	.34	.61	1.38	1.60	.00	14.14	
	(2)	.43	.38	.43	.38	.16	.12	.20	.49	.17	.22	.29	.21	.11	.21	.47	.54	.00	4.80	
6.1- 8.0		443	480	411	211	63	46	92	333	126	180	303	126	81	218	502	479	0	4094	13.5 - 17.9
	(1)	2.19	2.37	2.03	1.04	.31	.23	.45	1.64	.62	.89	1.50	.62	.40	1.08	2.48	2.36	.00	20.21	
	(2)	.74	.80	.69	.35	.11	.08	.15	.56	.21	.30	.51	.21	.14	.37	.84	.80	.00	6.86	
8.1-10.0		301	328	240	47	4	4	35	117	38	89	127	18	27	162	259	181	0	1977	18.0 - 22.4
	(1)	1.49	1.62	1.18	.23	.02	.02	.17	.58	.19	.44	.63	.09	.13	.80	1.28	.89	.00	9.76	
	(2)	.50	.55	.40	.08	.01	.01	.06	.20	.06	.15	.21	.03	.05	.27	.43	.30	.00	3.31	
10.1-89.5		173	238	131	21	2	2	12	35	11	23	15	9	12	86	91	48	0	909	22.5 - 200.2
	(1)	.85	1.17	.65	.10	.01	.01	.06	.17	.05	.11	.07	.04	.06	.42	.45	.24	.00	4.49	
	(2)	.29	.40	.22	.04	.00	.00	.02	.06	.02	.04	.03	.02	.02	.14	.15	.08	.00	1.52	
ALL SPEEDS		2172	2306	1791	1504	1066	706	859	1554	760	891	1154	735	529	922	1611	1696	0	20256	
	(1)	10.72	11.38	8.84	7.42	5.26	3.49	4.24	7.67	3.75	4.40	5.70	3.63	2.61	4.55	7.95	8.37	.00	100.00	
	(2)	3.64	3.86	3.00	2.52	1.79	1.18	1.44	2.60	1.27	1.49	1.93	1.23	.89	1.54	2.70	2.84	.00	33.93	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.7-124— CCNPP 197' (60-m) 2000 - 2006 Annual Joint Frequency Distribution Table
(Page 5 of 8)

CC JAN00-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 27.60

WIND DIRECTION FROM

SPEED mps	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	SPEED MPH
LT .2	0	0	1	0	1	0	0	0	0	1	0	0	1	0	0	0	0	4	LT .4
(1)	.00	.00	.01	.00	.01	.00	.00	.00	.00	.01	.00	.00	.01	.00	.00	.00	.00	.02	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	
.2- .4	2	0	2	1	1	0	1	1	2	0	0	0	1	0	1	0	0	12	.4 - .9
(1)	.01	.00	.01	.01	.01	.00	.01	.01	.01	.00	.00	.00	.01	.00	.01	.00	.00	.07	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	
.5- 1.0	12	8	21	13	25	18	13	21	7	14	7	8	8	8	12	11	0	206	1.0 - 2.2
(1)	.07	.05	.13	.08	.15	.11	.08	.13	.04	.08	.04	.05	.05	.05	.07	.07	.00	1.25	
(2)	.02	.01	.04	.02	.04	.03	.02	.04	.01	.02	.01	.01	.01	.01	.02	.02	.00	.35	
1.1- 1.5	19	21	19	21	18	14	22	17	15	14	13	8	9	13	13	13	0	249	2.3 - 3.4
(1)	.12	.13	.12	.13	.11	.08	.13	.10	.09	.08	.08	.05	.05	.08	.08	.08	.00	1.51	
(2)	.03	.04	.03	.04	.03	.02	.04	.03	.03	.02	.02	.01	.02	.02	.02	.02	.00	.42	
1.6- 2.0	25	41	36	35	51	26	20	29	29	21	21	19	12	20	14	15	0	414	3.5 - 4.5
(1)	.15	.25	.22	.21	.31	.16	.12	.18	.18	.13	.13	.12	.07	.12	.08	.09	.00	2.51	
(2)	.04	.07	.06	.06	.09	.04	.03	.05	.05	.04	.04	.03	.02	.03	.02	.03	.00	.69	
2.1- 3.0	92	89	91	98	116	80	79	86	84	62	95	60	67	78	88	94	0	1359	4.6 - 6.7
(1)	.56	.54	.55	.59	.70	.49	.48	.52	.51	.38	.58	.36	.41	.47	.53	.57	.00	8.25	
(2)	.15	.15	.15	.16	.19	.13	.13	.14	.14	.10	.16	.10	.11	.13	.15	.16	.00	2.28	
3.1- 4.0	175	113	101	82	126	102	97	175	162	139	158	133	121	172	176	206	0	2238	6.8 - 8.9
(1)	1.06	.69	.61	.50	.76	.62	.59	1.06	.98	.84	.96	.81	.73	1.04	1.07	1.25	.00	13.59	
(2)	.29	.19	.17	.14	.21	.17	.16	.29	.27	.23	.26	.22	.20	.29	.29	.35	.00	3.75	
4.1- 5.0	192	125	96	50	44	103	142	305	325	231	219	193	161	298	401	377	0	3262	9.0 - 11.2
(1)	1.17	.76	.58	.30	.27	.63	.86	1.85	1.97	1.40	1.33	1.17	.98	1.81	2.43	2.29	.00	19.80	
(2)	.32	.21	.16	.08	.07	.17	.24	.51	.54	.39	.37	.32	.27	.50	.67	.63	.00	5.46	
5.1- 6.0	164	99	49	18	26	26	68	334	423	371	329	224	151	302	447	391	0	3422	11.3 - 13.4
(1)	1.00	.60	.30	.11	.16	.16	.41	2.03	2.57	2.25	2.00	1.36	.92	1.83	2.71	2.37	.00	20.77	
(2)	.27	.17	.08	.03	.04	.04	.11	.56	.71	.62	.55	.38	.25	.51	.75	.66	.00	5.73	
6.1- 8.0	128	131	32	7	7	19	41	251	453	930	865	191	118	272	351	302	0	4098	13.5 - 17.9
(1)	.78	.80	.19	.04	.04	.12	.25	1.52	2.75	5.65	5.25	1.16	.72	1.65	2.13	1.83	.00	24.88	
(2)	.21	.22	.05	.01	.01	.03	.07	.42	.76	1.56	1.45	.32	.20	.46	.59	.51	.00	6.87	
8.1-10.0	56	27	8	2	3	4	7	65	84	274	273	28	20	70	47	37	0	1005	18.0 - 22.4
(1)	.34	.16	.05	.01	.02	.02	.04	.39	.51	1.66	1.66	.17	.12	.42	.29	.22	.00	6.10	
(2)	.09	.05	.01	.00	.01	.01	.01	.11	.14	.46	.46	.05	.03	.12	.08	.06	.00	1.68	
10.1-89.5	18	17	12	2	1	4	8	27	10	44	27	3	4	15	6	7	0	205	22.5 - 200.2
(1)	.11	.10	.07	.01	.01	.02	.05	.16	.06	.27	.16	.02	.02	.09	.04	.04	.00	1.24	
(2)	.03	.03	.02	.00	.00	.01	.01	.05	.02	.07	.05	.01	.01	.03	.01	.01	.00	.34	
ALL SPEEDS	883	671	468	329	419	396	498	1311	1594	2101	2007	867	673	1248	1556	1453	0	16474	
(1)	5.36	4.07	2.84	2.00	2.54	2.40	3.02	7.96	9.68	12.75	12.18	5.26	4.09	7.58	9.45	8.82	.00	100.00	
(2)	1.48	1.12	.78	.55	.70	.66	.83	2.20	2.67	3.52	3.36	1.45	1.13	2.09	2.61	2.43	.00	27.60	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.7-124— CCNPP 197' (60-m) 2000 - 2006 Annual Joint Frequency Distribution Table
(Page 6 of 8)

CC JAN00-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA STABILITY CLASS F CLASS FREQUENCY (PERCENT) = 10.44

WIND DIRECTION FROM

SPEED mps	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	SPEED MPH
LT .2	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	3	LT .4
(1)	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.05	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	
.2- .4	2	1	0	0	0	1	1	2	1	0	1	1	0	0	0	0	0	10	.4 - .9
(1)	.03	.02	.00	.00	.00	.02	.02	.03	.02	.00	.02	.02	.00	.00	.00	.00	.00	.16	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	
.5- 1.0	6	5	7	10	12	13	7	8	6	12	10	5	6	5	7	6	0	125	1.0 - 2.2
(1)	.10	.08	.11	.16	.19	.21	.11	.13	.10	.19	.16	.08	.10	.08	.11	.10	.00	2.01	
(2)	.01	.01	.01	.02	.02	.02	.01	.01	.01	.02	.02	.01	.01	.01	.01	.01	.00	.21	
1.1- 1.5	8	10	9	8	18	7	9	12	11	7	7	4	9	9	9	8	0	145	2.3 - 3.4
(1)	.13	.16	.14	.13	.29	.11	.14	.19	.18	.11	.11	.06	.14	.14	.14	.13	.00	2.33	
(2)	.01	.02	.02	.01	.03	.01	.02	.02	.02	.01	.01	.01	.02	.02	.02	.01	.00	.24	
1.6- 2.0	11	7	13	20	17	16	17	11	13	15	14	11	11	10	12	11	0	209	3.5 - 4.5
(1)	.18	.11	.21	.32	.27	.26	.27	.18	.21	.24	.22	.18	.18	.16	.19	.18	.00	3.35	
(2)	.02	.01	.02	.03	.03	.03	.03	.02	.02	.03	.02	.02	.02	.02	.02	.02	.00	.35	
2.1- 3.0	48	41	29	26	36	29	30	36	45	45	44	39	34	50	29	40	0	601	4.6 - 6.7
(1)	.77	.66	.47	.42	.58	.47	.48	.58	.72	.72	.71	.63	.55	.80	.47	.64	.00	9.64	
(2)	.08	.07	.05	.04	.06	.05	.05	.06	.08	.08	.07	.07	.06	.08	.05	.07	.00	1.01	
3.1- 4.0	43	24	28	19	20	31	57	64	105	92	89	81	60	62	55	61	0	891	6.8 - 8.9
(1)	.69	.38	.45	.30	.32	.50	.91	1.03	1.68	1.48	1.43	1.30	.96	.99	.88	.98	.00	14.29	
(2)	.07	.04	.05	.03	.03	.05	.10	.11	.18	.15	.15	.14	.10	.10	.09	.10	.00	1.49	
4.1- 5.0	42	22	11	6	4	13	46	100	155	165	142	118	102	104	97	97	0	1224	9.0 - 11.2
(1)	.67	.35	.18	.10	.06	.21	.74	1.60	2.49	2.65	2.28	1.89	1.64	1.67	1.56	1.56	.00	19.63	
(2)	.07	.04	.02	.01	.01	.02	.08	.17	.26	.28	.24	.20	.17	.17	.16	.16	.00	2.05	
5.1- 6.0	18	13	8	4	0	5	32	108	306	277	191	129	112	110	130	76	0	1519	11.3 - 13.4
(1)	.29	.21	.13	.06	.00	.08	.51	1.73	4.91	4.44	3.06	2.07	1.80	1.76	2.09	1.22	.00	24.37	
(2)	.03	.02	.01	.01	.00	.01	.05	.18	.51	.46	.32	.22	.19	.18	.22	.13	.00	2.54	
6.1- 8.0	10	14	11	8	3	1	8	72	241	377	286	121	53	59	137	18	0	1419	13.5 - 17.9
(1)	.16	.22	.18	.13	.05	.02	.13	1.15	3.87	6.05	4.59	1.94	.85	.95	2.20	.29	.00	22.76	
(2)	.02	.02	.02	.01	.01	.00	.01	.12	.40	.63	.48	.20	.09	.10	.23	.03	.00	2.38	
8.1-10.0	5	2	1	3	0	0	0	0	6	24	32	2	1	1	1	0	0	78	18.0 - 22.4
(1)	.08	.03	.02	.05	.00	.00	.00	.00	.10	.38	.51	.03	.02	.02	.02	.00	.00	1.25	
(2)	.01	.00	.00	.01	.00	.00	.00	.00	.01	.04	.05	.00	.00	.00	.00	.00	.00	.13	
10.1-89.5	4	3	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	10	22.5 - 200.2
(1)	.06	.05	.02	.00	.00	.00	.00	.00	.00	.02	.02	.00	.00	.00	.00	.00	.00	.16	
(2)	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	
ALL SPEEDS	197	142	118	105	110	117	207	413	889	1015	817	512	388	410	477	317	0	6234	
(1)	3.16	2.28	1.89	1.68	1.76	1.88	3.32	6.62	14.26	16.28	13.11	8.21	6.22	6.58	7.65	5.09	.00	100.00	
(2)	.33	.24	.20	.18	.18	.20	.35	.69	1.49	1.70	1.37	.86	.65	.69	.80	.53	.00	10.44	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.7-124— CCNPP 197' (60-m) 2000 - 2006 Annual Joint Frequency Distribution Table
(Page 7 of 8)

CC JAN00-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA   STABILITY CLASS G   CLASS FREQUENCY (PERCENT) = 7.48

WIND DIRECTION FROM

SPEED mps	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	SPEED MPH
LT .2	0	0	0	0	1	0	0	0	0	0	2	1	3	0	2	0	0	9	LT .4
(1)	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.04	.02	.07	.00	.04	.00	.00	.20	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.02	
.2- .4	2	1	1	0	2	1	3	0	1	2	0	1	2	0	1	1	0	18	.4 - .9
(1)	.04	.02	.02	.00	.04	.02	.07	.00	.02	.04	.00	.02	.04	.00	.02	.02	.00	.40	
(2)	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	
.5- 1.0	11	9	10	5	15	9	12	13	4	11	12	11	6	10	13	12	0	163	1.0 - 2.2
(1)	.25	.20	.22	.11	.34	.20	.27	.29	.09	.25	.27	.25	.13	.22	.29	.27	.00	3.65	
(2)	.02	.02	.02	.01	.03	.02	.02	.02	.01	.02	.02	.02	.01	.02	.02	.02	.00	.27	
1.1- 1.5	19	11	20	11	22	13	15	15	13	10	15	20	12	10	12	10	0	228	2.3 - 3.4
(1)	.43	.25	.45	.25	.49	.29	.34	.34	.29	.22	.34	.45	.27	.22	.27	.22	.00	5.11	
(2)	.03	.02	.03	.02	.04	.02	.03	.03	.02	.02	.03	.03	.02	.02	.02	.02	.00	.38	
1.6- 2.0	17	16	12	16	18	8	25	16	29	26	19	17	19	9	14	14	0	275	3.5 - 4.5
(1)	.38	.36	.27	.36	.40	.18	.56	.36	.65	.58	.43	.38	.43	.20	.31	.31	.00	6.16	
(2)	.03	.03	.02	.03	.03	.01	.04	.03	.05	.04	.03	.03	.03	.02	.02	.02	.00	.46	
2.1- 3.0	41	35	18	24	22	26	26	35	48	66	41	54	54	39	40	34	0	603	4.6 - 6.7
(1)	.92	.78	.40	.54	.49	.58	.58	.78	1.08	1.48	.92	1.21	1.21	.87	.90	.76	.00	13.51	
(2)	.07	.06	.03	.04	.04	.04	.04	.06	.08	.11	.07	.09	.09	.07	.07	.06	.00	1.01	
3.1- 4.0	34	13	4	3	7	8	33	49	71	78	92	95	64	62	41	62	0	716	6.8 - 8.9
(1)	.76	.29	.09	.07	.16	.18	.74	1.10	1.59	1.75	2.06	2.13	1.43	1.39	.92	1.39	.00	16.04	
(2)	.06	.02	.01	.01	.01	.01	.06	.08	.12	.13	.15	.16	.11	.10	.07	.10	.00	1.20	
4.1- 5.0	11	1	2	2	1	6	12	51	113	154	164	125	72	68	61	64	0	907	9.0 - 11.2
(1)	.25	.02	.04	.04	.02	.13	.27	1.14	2.53	3.45	3.67	2.80	1.61	1.52	1.37	1.43	.00	20.31	
(2)	.02	.00	.00	.00	.00	.01	.02	.09	.19	.26	.27	.21	.12	.11	.10	.11	.00	1.52	
5.1- 6.0	3	3	1	1	0	5	7	32	138	171	145	85	67	50	57	41	0	806	11.3 - 13.4
(1)	.07	.07	.02	.02	.00	.11	.16	.72	3.09	3.83	3.25	1.90	1.50	1.12	1.28	.92	.00	18.05	
(2)	.01	.01	.00	.00	.00	.01	.01	.05	.23	.29	.24	.14	.11	.08	.10	.07	.00	1.35	
6.1- 8.0	2	4	7	2	0	4	3	39	128	151	96	65	62	50	67	4	0	684	13.5 - 17.9
(1)	.04	.09	.16	.04	.00	.09	.07	.87	2.87	3.38	2.15	1.46	1.39	1.12	1.50	.09	.00	15.32	
(2)	.00	.01	.01	.00	.00	.01	.01	.07	.21	.25	.16	.11	.10	.08	.11	.01	.00	1.15	
8.1-10.0	0	0	2	2	0	0	0	1	2	8	4	11	3	5	3	0	0	41	18.0 - 22.4
(1)	.00	.00	.04	.04	.00	.00	.00	.02	.04	.18	.09	.25	.07	.11	.07	.00	.00	.92	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.02	.01	.01	.01	.00	.00	.07	
10.1-89.5	0	3	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	22.5 - 200.2
(1)	.00	.07	.27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.34	
(2)	.00	.01	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	
ALL SPEEDS	140	96	89	66	88	80	136	251	547	677	590	485	364	303	311	242	0	4465	
(1)	3.14	2.15	1.99	1.48	1.97	1.79	3.05	5.62	12.25	15.16	13.21	10.86	8.15	6.79	6.97	5.42	.00	100.00	
(2)	.23	.16	.15	.11	.15	.13	.23	.42	.92	1.13	.99	.81	.61	.51	.52	.41	.00	7.48	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.7-124— CCNPP 197' (60-m) 2000 - 2006 Annual Joint Frequency Distribution Table
(Page 8 of 8)

CC JAN00-DEC06 MET DATA JOINT FREQUENCY DISTRIBUTION (60-METER TOWER)

197.0 FT WIND DATA   STABILITY CLASS ALL   CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED mps	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL	SPEED MPH
LT .2	0	1	1	1	2	2	0	0	0	1	2	2	4	0	2	0	0	18	LT .4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.03	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.03	
.2- .4	6	4	3	1	4	2	5	4	4	2	1	2	4	2	3	2	0	49	.4 - .9
(1)	.01	.01	.01	.00	.01	.00	.01	.01	.01	.00	.00	.00	.01	.00	.01	.00	.00	.08	
(2)	.01	.01	.01	.00	.01	.00	.01	.01	.01	.00	.00	.00	.01	.00	.01	.00	.00	.08	
.5- 1.0	48	42	67	49	82	55	44	56	29	50	41	37	29	35	42	46	0	752	1.0 - 2.2
(1)	.08	.07	.11	.08	.14	.09	.07	.09	.05	.08	.07	.06	.05	.06	.07	.08	.00	1.26	
(2)	.08	.07	.11	.08	.14	.09	.07	.09	.05	.08	.07	.06	.05	.06	.07	.08	.00	1.26	
1.1- 1.5	98	108	108	111	130	81	77	62	57	50	65	61	59	53	57	55	0	1232	2.3 - 3.4
(1)	.16	.18	.18	.19	.22	.14	.13	.10	.10	.08	.11	.10	.10	.09	.10	.09	.00	2.06	
(2)	.16	.18	.18	.19	.22	.14	.13	.10	.10	.08	.11	.10	.10	.09	.10	.09	.00	2.06	
1.6- 2.0	158	226	183	228	262	134	108	86	111	98	146	109	92	72	77	105	0	2195	3.5 - 4.5
(1)	.26	.38	.31	.38	.44	.22	.18	.14	.19	.16	.24	.18	.15	.12	.13	.18	.00	3.68	
(2)	.26	.38	.31	.38	.44	.22	.18	.14	.19	.16	.24	.18	.15	.12	.13	.18	.00	3.68	
2.1- 3.0	695	787	486	562	632	405	382	388	346	376	434	358	289	271	268	314	0	6993	4.6 - 6.7
(1)	1.16	1.32	.81	.94	1.06	.68	.64	.65	.58	.63	.73	.60	.48	.45	.45	.53	.00	11.71	
(2)	1.16	1.32	.81	.94	1.06	.68	.64	.65	.58	.63	.73	.60	.48	.45	.45	.53	.00	11.71	
3.1- 4.0	909	795	393	435	444	435	518	700	605	625	774	635	456	469	476	606	0	9275	6.8 - 8.9
(1)	1.52	1.33	.66	.73	.74	.73	.87	1.17	1.01	1.05	1.30	1.06	.76	.79	.80	1.02	.00	15.54	
(2)	1.52	1.33	.66	.73	.74	.73	.87	1.17	1.01	1.05	1.30	1.06	.76	.79	.80	1.02	.00	15.54	
4.1- 5.0	918	600	391	354	288	296	499	1011	833	929	1012	757	526	668	863	896	0	10841	9.0 - 11.2
(1)	1.54	1.01	.66	.59	.48	.50	.84	1.69	1.40	1.56	1.70	1.27	.88	1.12	1.45	1.50	.00	18.16	
(2)	1.54	1.01	.66	.59	.48	.50	.84	1.69	1.40	1.56	1.70	1.27	.88	1.12	1.45	1.50	.00	18.16	
5.1- 6.0	694	488	343	255	132	117	310	943	1023	1122	1150	703	497	706	1040	936	0	10459	11.3 - 13.4
(1)	1.16	.82	.57	.43	.22	.20	.52	1.58	1.71	1.88	1.93	1.18	.83	1.18	1.74	1.57	.00	17.52	
(2)	1.16	.82	.57	.43	.22	.20	.52	1.58	1.71	1.88	1.93	1.18	.83	1.18	1.74	1.57	.00	17.52	
6.1- 8.0	803	756	518	241	82	81	199	851	997	1866	1892	635	440	853	1345	930	0	12489	13.5 - 17.9
(1)	1.35	1.27	.87	.40	.14	.14	.33	1.43	1.67	3.13	3.17	1.06	.74	1.43	2.25	1.56	.00	20.92	
(2)	1.35	1.27	.87	.40	.14	.14	.33	1.43	1.67	3.13	3.17	1.06	.74	1.43	2.25	1.56	.00	20.92	
8.1-10.0	435	428	281	62	8	8	53	235	138	467	529	86	81	417	495	253	0	3976	18.0 - 22.4
(1)	.73	.72	.47	.10	.01	.01	.09	.39	.23	.78	.89	.14	.14	.70	.83	.42	.00	6.66	
(2)	.73	.72	.47	.10	.01	.01	.09	.39	.23	.78	.89	.14	.14	.70	.83	.42	.00	6.66	
10.1-89.5	214	282	173	27	3	6	20	71	25	82	58	20	29	161	177	66	0	1414	22.5 - 200.2
(1)	.36	.47	.29	.05	.01	.01	.03	.12	.04	.14	.10	.03	.05	.27	.30	.11	.00	2.37	
(2)	.36	.47	.29	.05	.01	.01	.03	.12	.04	.14	.10	.03	.05	.27	.30	.11	.00	2.37	
ALL SPEEDS	4978	4517	2947	2326	2069	1622	2215	4407	4168	5668	6104	3405	2506	3707	4845	4209	0	59693	
(1)	8.34	7.57	4.94	3.90	3.47	2.72	3.71	7.38	6.98	9.50	10.23	5.70	4.20	6.21	8.12	7.05	.00	100.00	
(2)	8.34	7.57	4.94	3.90	3.47	2.72	3.71	7.38	6.98	9.50	10.23	5.70	4.20	6.21	8.12	7.05	.00	100.00	

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD

Table 2.7-125— Monthly Atmospheric Stability Summary

Frequency of Occurrence by Percent												
Stability Class	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A	8.04	10.15	12.30	12.22	13.37	13.90	12.47	11.99	11.82	12.81	13.17	8.36
B	3.36	4.31	3.42	4.13	5.12	5.54	5.87	5.84	5.49	3.98	3.59	4.22
C	4.20	3.94	4.18	5.36	5.50	6.02	6.74	6.13	5.78	4.36	3.68	4.36
D	40.68	34.95	37.34	39.95	35.50	30.58	30.65	28.67	34.31	34.00	30.30	35.54
E	31.35	32.25	29.22	25.84	23.34	22.12	23.30	27.43	22.42	20.20	28.56	36.05
F	8.88	10.57	9.79	7.77	10.54	12.74	11.20	11.97	10.02	10.39	11.67	8.73
G	3.50	3.84	3.76	4.74	6.63	9.10	9.77	7.97	10.16	14.26	9.03	2.74
Frequency of Occurrence by Number of Hours												
Stability Class	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A	345	410	533	497	595	600	540	530	499	567	569	360
B	144	174	148	168	228	239	254	258	232	176	155	182
C	180	159	181	218	245	260	292	271	244	193	159	188
D	1745	1412	1618	1625	1580	1320	1327	1267	1449	1505	1309	1531
E	1345	1303	1266	1051	1039	955	1009	1212	947	894	1234	1553
F	381	427	424	316	469	550	485	529	423	460	504	376
G	150	155	163	193	295	393	423	352	429	631	390	118

Table 2.7-126— Design Input for 50% Percentile Atmospheric Dispersion Factor Computer Run

Parameter	Value(s)
Wind speed group upper limits for AEOLUS3	0.224, 0.75, 1.0, 1.5, 2.0, 3.0, 5.0, 7.0, 10.0, 13.0, 18.0, 50.0 meters/second
AEOLUS3 wind speed assigned to calms	0.25 miles per hour
Anemometer starting speed for the AEOLUS3 runs	0.5 miles per hour
Temperature sensor separation	60m - 10m or 50 meters
Wind instrument heights	10m, 60m
The annual average mixing layer height	900 meters
Meteorological channel units of measure	Wind speed miles per hour Wind direction degrees from True North Delta-Temperature degrees Fahrenheit per sensor separation in feet
Downwind distances	0.25, 0.5, 0.75, 1.0, 1.5, 3.0, 3.0, 4.0, 5.0 miles

Table 2.7-127— Input for AEOLUS3 Normal Effluent χ/Q Run
(Page 1 of 6)

<table>
<tr><th>Parameter</th><th colspan="3">Value(s)</th></tr>
<tr><td>Anemometer starting speed</td><td colspan="3">0.5 miles per hour</td></tr>
<tr><td>Wind speed group upper limits for AEOLUS3</td><td colspan="3">0.224, 0.75, 1.0, 1.5, 2.0, 3.0, 5.0, 7.0, 10.0, 13.0, 18.0, 50.0 meters/ second</td></tr>
<tr><td>AEOLUS3 wind speed assigned to calms</td><td colspan="3">0.25 miles per hour for CC</td></tr>
<tr><td>The annual average mixing layer height at CC</td><td colspan="3">748 meters</td></tr>
<tr><td>Temperature sensor separation</td><td colspan="3">50 meters</td></tr>
<tr><td>Wind instrument heights</td><td colspan="3">10 meters and 60 meters</td></tr>
<tr><td>CC meteorological channel units of measure</td><td colspan="3">Wind speed miles per hour Wind direction degrees from True North
Delta-Temperature degrees Fahrenheit per sensor separation in feet</td></tr>
<tr><td>Order of data channels in met data</td><td colspan="3">Wind speed, wind direction, wind range, delta temperature, precipitation</td></tr>
<tr><td>Receptor distances for normal effluent release</td><td colspan="3">Downwind distances for which atmospheric dispersion factors for normal effluent analyses will be determined using computer code AEOLUS3 version 1.0 are: 805 meters (0.5 mile), 1000 meters (0.62 mile), 2414 meters (1.5 miles), 4023 meters (2.5 miles), 5632 meters (3.5 miles), 7241 meters (4.5 miles), 12068 meters (7.5 miles), 24135 meters (15 miles), 40225 meters (25 miles), 56315 meters (35 miles), and 72405 meters (45 miles).</td></tr>
<tr><td rowspan="17">Site Boundary Distances (meters) and Terrain Heights (m above plant grade)</td><td>DOWNWIND SECTOR</td><td>DISTANCE (METERS)</td><td>TERRAIN HT (METERS)</td></tr>
<tr><td>N</td><td>623.4</td><td>0.0</td></tr>
<tr><td>NNE</td><td>429.4</td><td>0.0</td></tr>
<tr><td>NE</td><td>443.3</td><td>0.0</td></tr>
<tr><td>ENE</td><td>471.0</td><td>0.0</td></tr>
<tr><td>E</td><td>554.1</td><td>16.8</td></tr>
<tr><td>ESE</td><td>692.7</td><td>19.8</td></tr>
<tr><td>SE</td><td>1413.0</td><td>22.9</td></tr>
<tr><td>SSE</td><td>1607.0</td><td>22.9</td></tr>
<tr><td>S</td><td>1385.0</td><td>19.8</td></tr>
<tr><td>SSW</td><td>1371.0</td><td>29.0</td></tr>
<tr><td>SW</td><td>1759.0</td><td>29.0</td></tr>
<tr><td>WSW</td><td>1745.0</td><td>25.9</td></tr>
<tr><td>W</td><td>1732.0</td><td>32.0</td></tr>
<tr><td>WNW</td><td>2313.0</td><td>22.9</td></tr>
<tr><td>NW</td><td>1662.0</td><td>22.9</td></tr>
<tr><td>NNW</td><td>761. 9</td><td>19.8</td></tr>
</table>

Table 2.7-127— Input for AEOLUS3 Normal Effluent χ/Q Run
(Page 2 of 6)

Parameter	Value(s)		
Location of Nearest Residents (compass sector and distance in meters) and Terrain Heights (m above plant grade)	**DOWNWIND SECTOR**	**DISTANCE (METERS)**	**TERRAIN HT (METERS)**
	SE	1574	22.9
	SSE	1969	22.9
	S	2206	25.9
	SW	1945	29.0
	WSW	1634	25.9
	W	2074	32.0
	WNW	2485	25.9
	NW	4097	25.9
Location of Nearest Gardens (compass sector and distance in meters) and Terrain Heights (m above plant grade)	**DOWNWIND SECTOR**	**DISTANCE (METERS)**	**TERRAIN HT (METERS)**
	SE	1574	22.9
	SSE	2130	22.9
	S	2206	25.9
	SW	2256	29.0
	WSW	1634	25.9
	W	2529	32.0
	WNW	2795	25.9
	NW	4097	25.9
Stack flow rate for normal operations	242,458 cfm This is a conservative value; the actual flow rate for normal operations will be higher.		
Stack inner diameter	3.8 meters		
Stack height	62 meters (2 meters above assumed Reactor Building)		
Reactor Building height and cross sectional area	60 meters (used for cross sectional area for building wake - smaller height gives a lower credit for building wake; actual = 62.3 meter) 2940 m^2		
Maximum Terrain Heights 0.5 miles	Values in meters above plant grade. 0.0 0.0 0.0 0.0 16.8 19.8 22.9 22.9 19.8 29.0 29.0 25.9 32.0 22.9 22.9 19.8		

Table 2.7-127— Input for AEOLUS3 Normal Effluent χ/Q Run

(Page 3 of 6)

Parameter	Value(s)
0.62 miles	Values in meters above plant grade. 0.0 0.0 0.0 0.0 16.8 19.8 22.9 22.9 19.8 29.0 29.0 25.9 32.0 22.9 22.9 19.8
1.5 miles	Values in meters above plant grade. 0.0 0.0 0.0 0.0 16.8 19.8 25.9 22.9 25.9 29.0 29.0 25.9 32.0 25.9 25.9 19.8
2.5 miles	Values in meters above plant grade. 0.0 0.0 0.0 0.0 16.8 19.8 25.9 25.9 25.9 29.0 29.0 25.9 32.0 25.9 25.9 19.8

Table 2.7-127— Input for AEOLUS3 Normal Effluent χ/Q Run
(Page 4 of 6)

Parameter	Value(s)
3.5 miles	Values in meters above plant grade. 0.0 0.0 0.0 0.0 16.8 19.8 25.9 25.9 26.8 29.0 29.0 25.9 32.0 25.9 25.9 19.8
4.5 miles	Values in meters above plant grade. 0.0 0.0 0.0 0.0 16.8 19.8 25.9 25.9 26.8 29.0 29.0 25.9 32.0 29.6 25.9 19.8
7.5 miles	Values in meters above plant grade. 0.0 0.0 0.0 0.0 16.8 19.8 25.9 25.9 26.8 29.0 29.0 25.9 32.0 32.0 26.3 26.3

Table 2.7-127— Input for AEOLUS3 Normal Effluent χ/Q Run
(Page 5 of 6)

Parameter	Value(s)
15 miles	Values in meters above plant grade. 0.0 0.0 0.0 0.0 16.8 19.8 25.9 25.9 26.8 29.0 29.0 26.3 44.3 32.0 27.3 43.3
25 miles	Values in meters above plant grade. 0.0 0.0 6.3 6.3 19.1 22.4 28.9 28.9 29.9 32.2 31.3 26.3 45.3 49.3 52.3 61.3
35 miles	Values in meters above plant grade. 6.3 1.3 6.3 6.3 19.1 22.4 28.9 28.9 29.9 32.2 39.3 46.3 45.3 51.3 66.3 61.3

Table 2.7-127— Input for AEOLUS3 Normal Effluent χ/Q Run
(Page 6 of 6)

Parameter	Value(s)
45 miles	Values in meters above plant grade. 6.3 6.3 6.3 6.3 19.1 22.4 28.9 28.9 29.9 32.2 46.3 52.3 45.3 78.3 78.3 61.3

Figure 2.7-1— Ozone Concentration for Maryland Counties

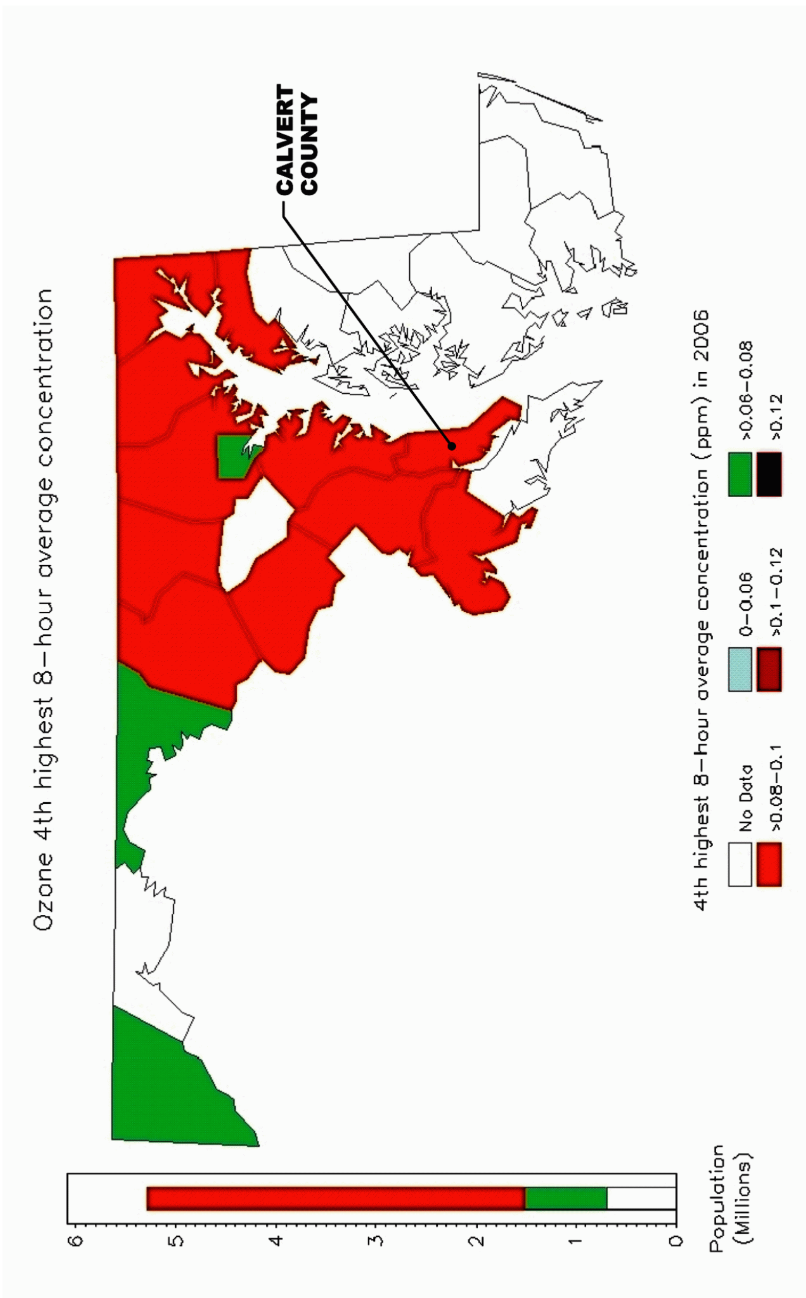


Figure 2.7-2— Annual Average Number of Tornadoes, 1950-1995

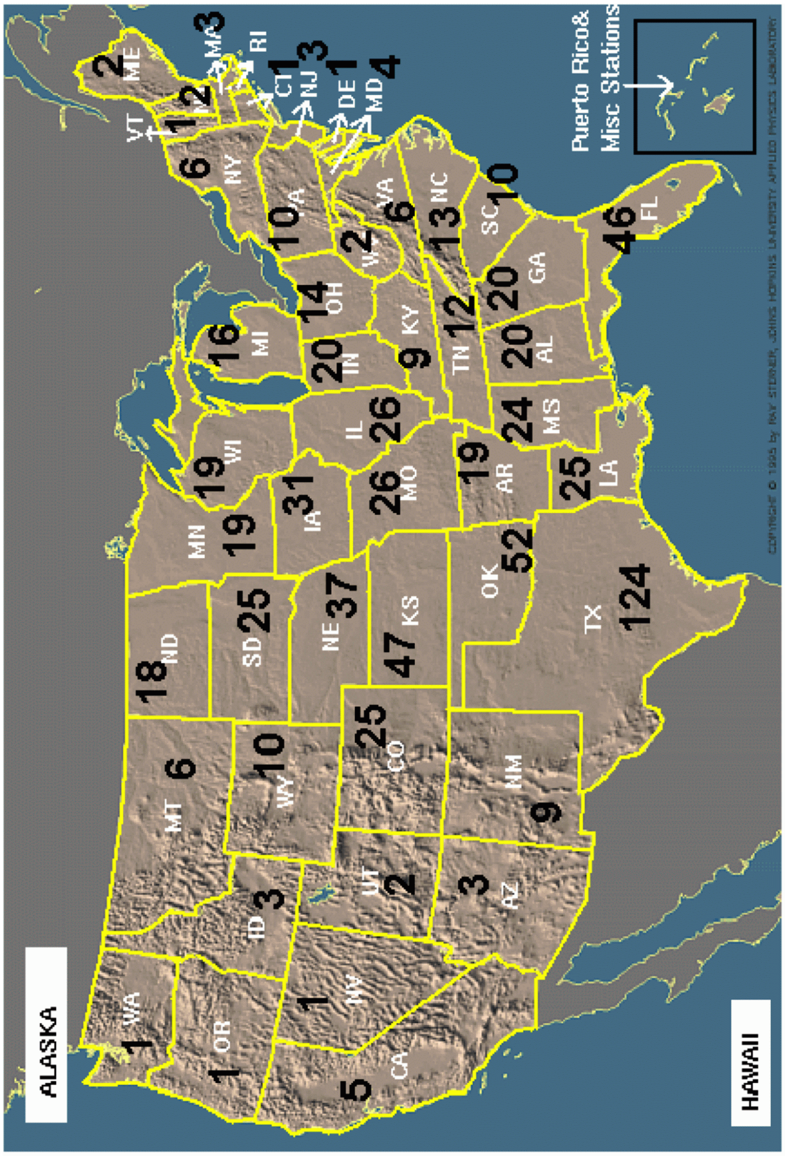


Figure 2.7-3— Average Number of Strong Violent (F2-F5) Tornadoes, 1950-1995

Figure 2.7-4— Date of Maximum Tornado Threat

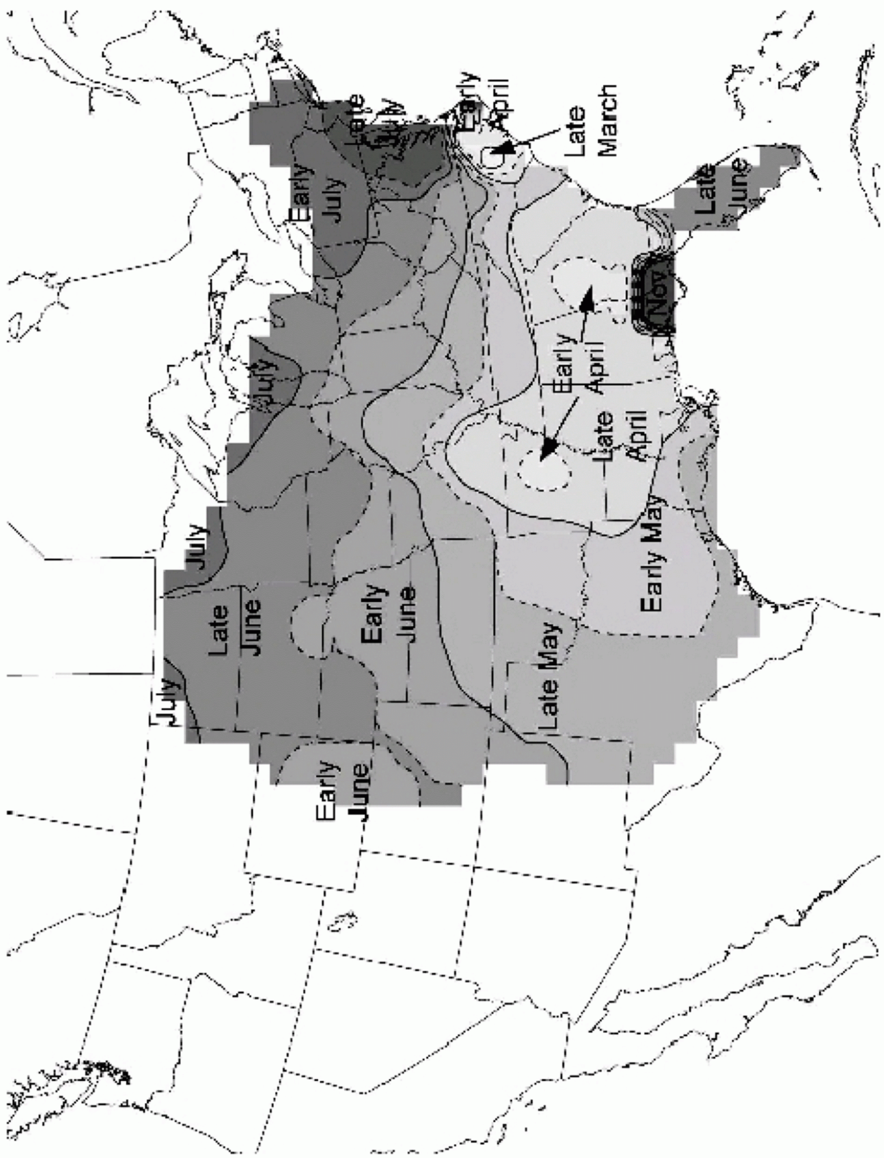


Figure 2.7-5— Five-Year Lightning Flash Density Map

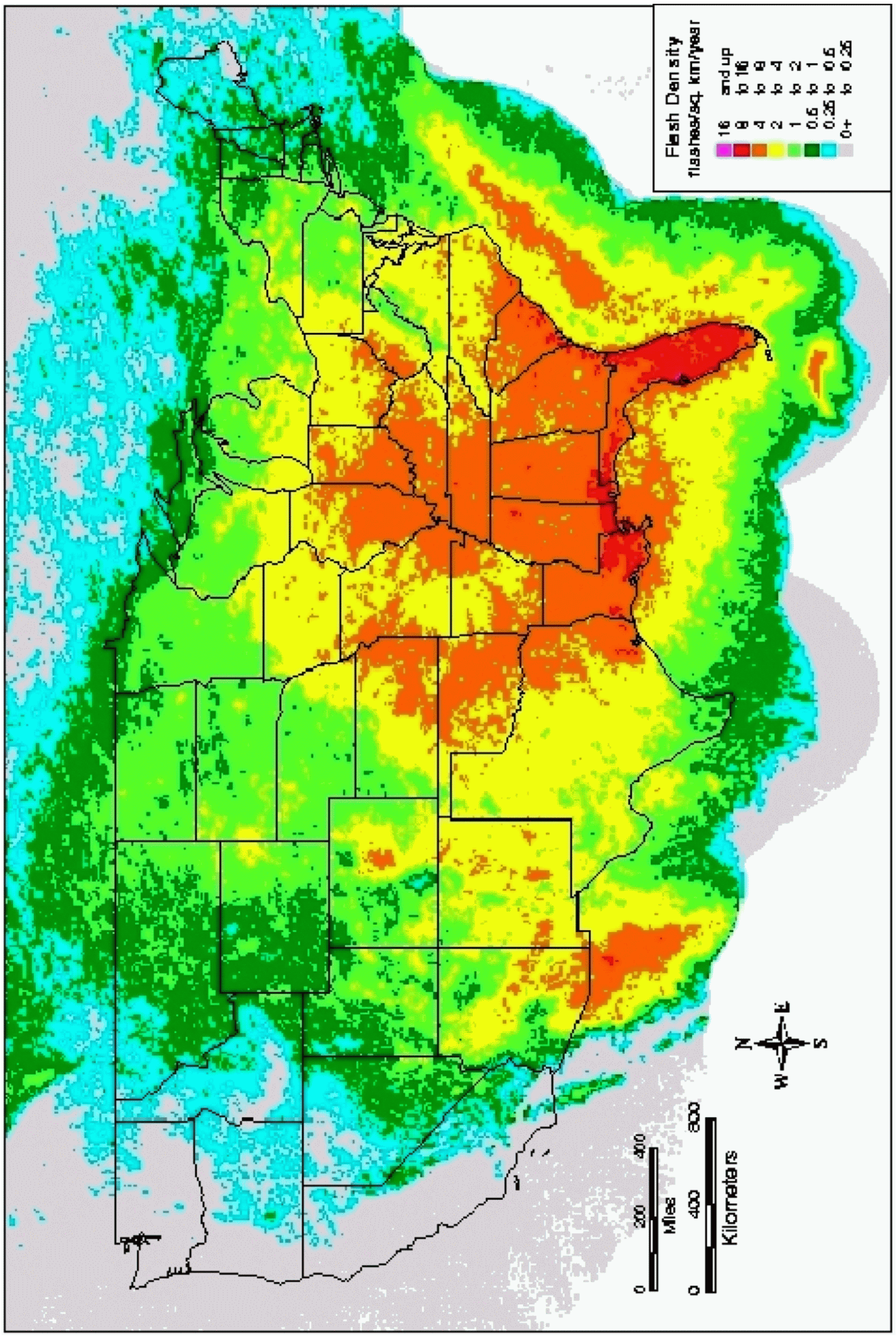


Figure 2.7-6— CCNPP 33 ft January Precipitation Wind Rose

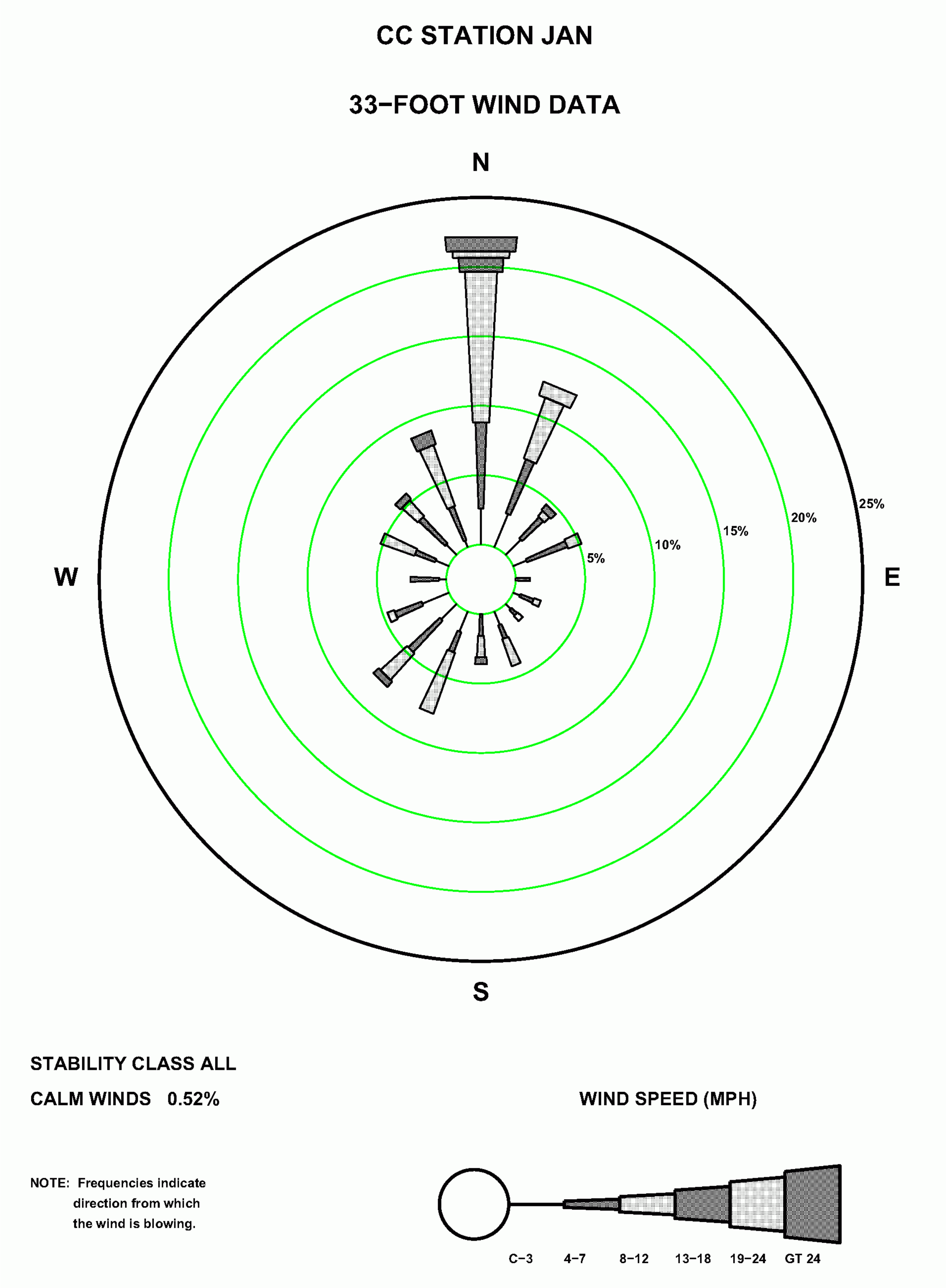


Figure 2.7-7— CCNPP 33 ft February Precipitation Wind Rose

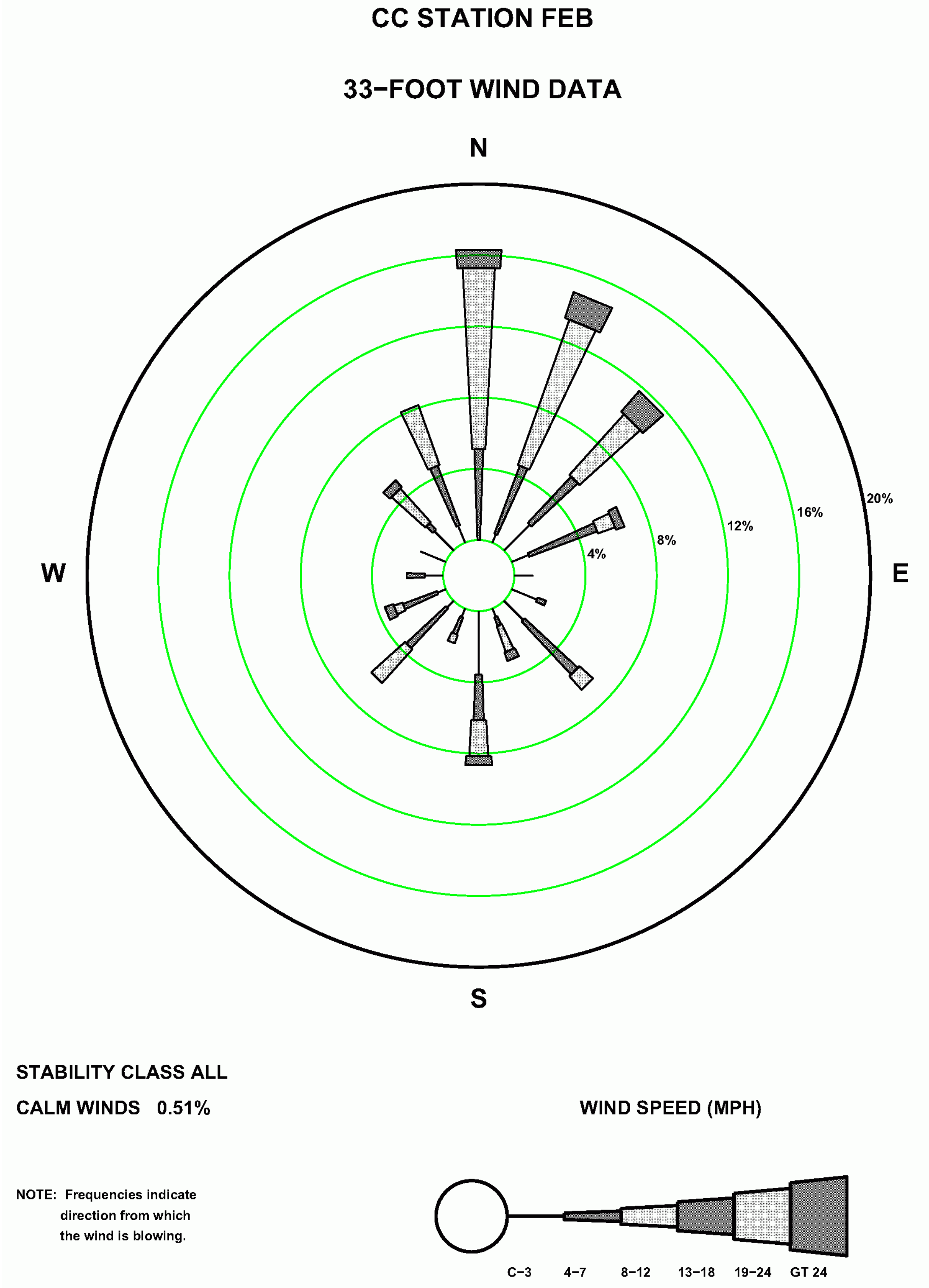


Figure 2.7-8— CCNPP 33 ft March Precipitation Wind Rose

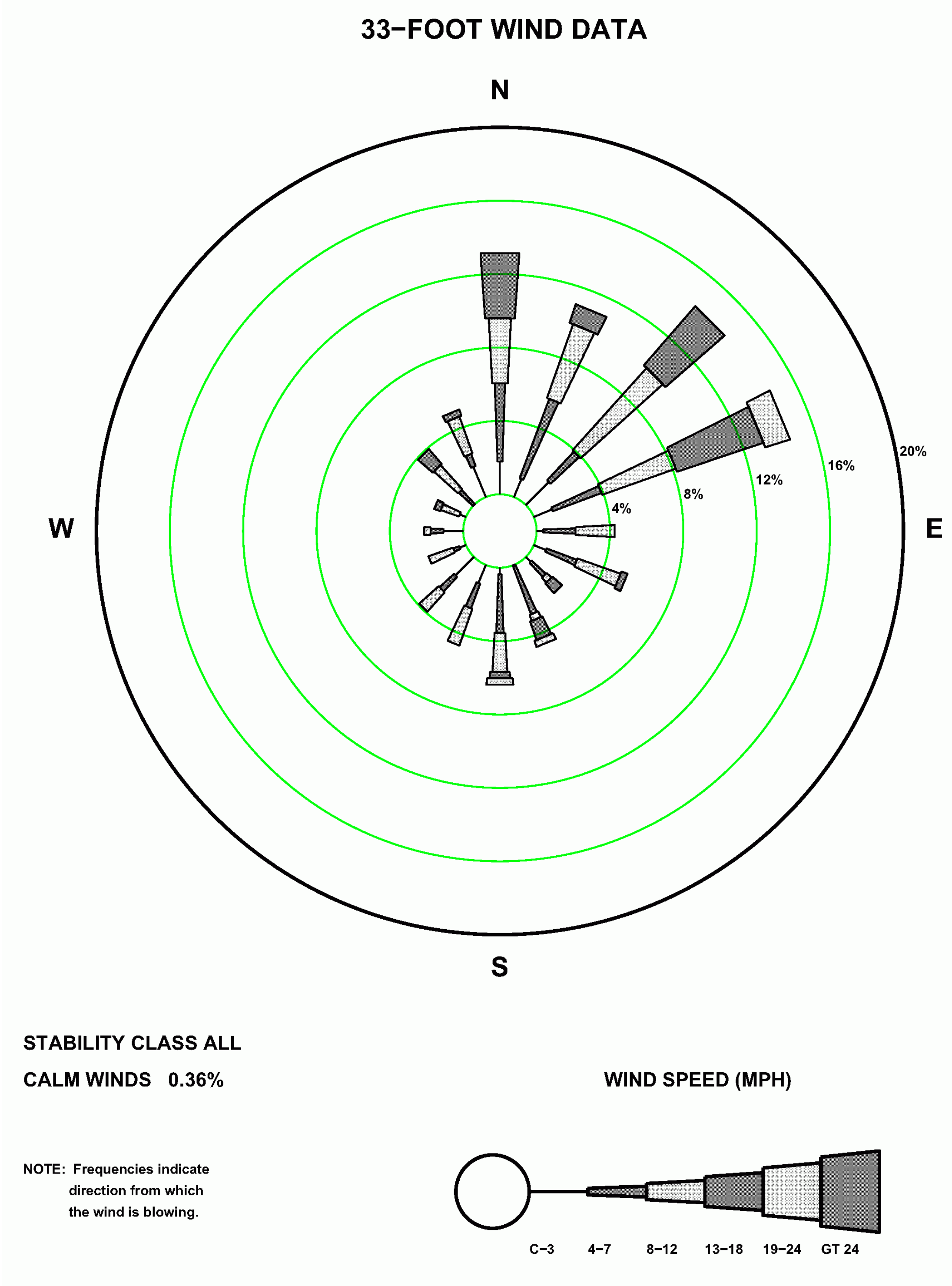


Figure 2.7-9— CCNPP 33 ft April Precipitation Wind Rose

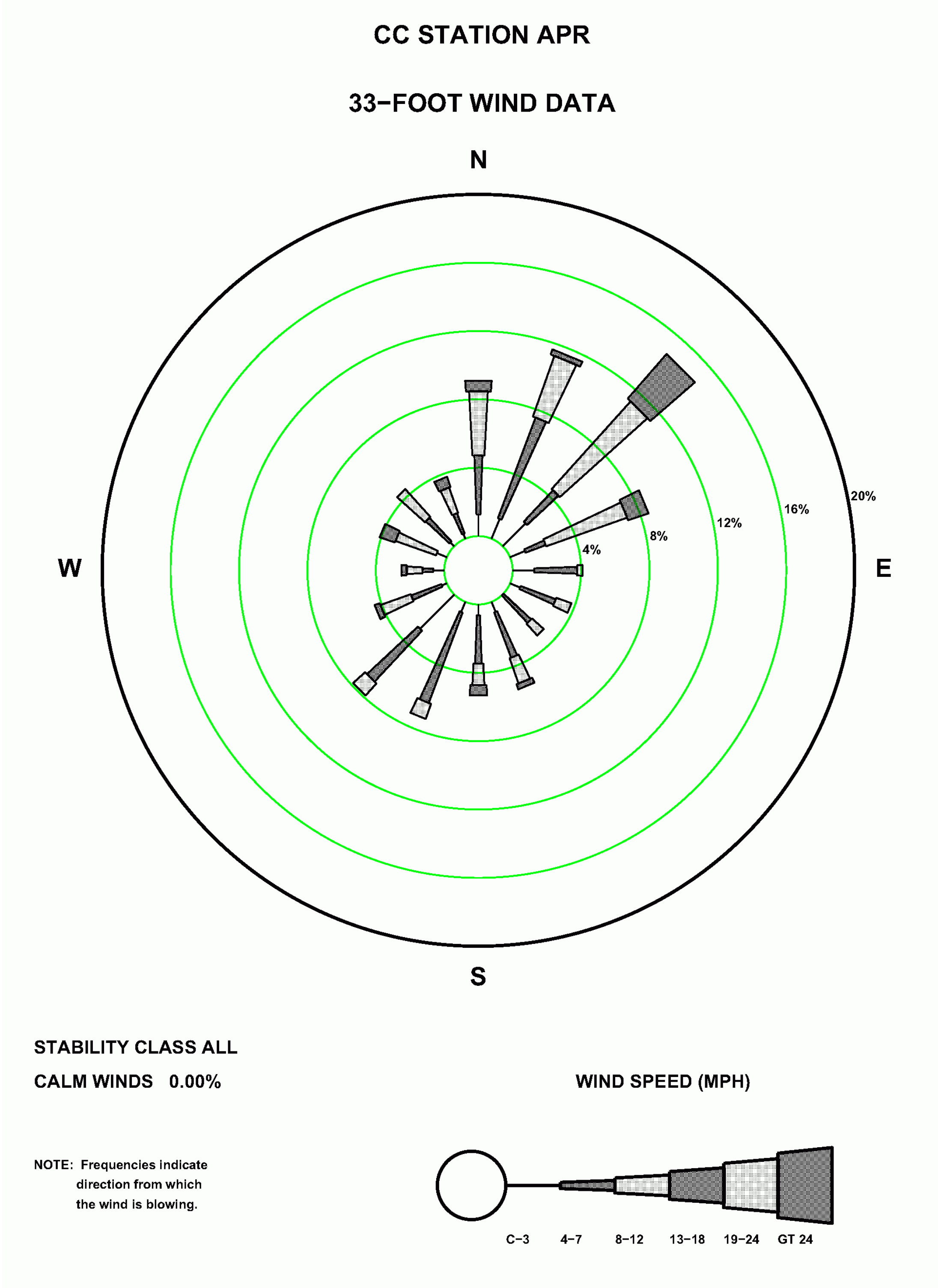


Figure 2.7-10— CCNPP 33 ft May Precipitation Wind Rose

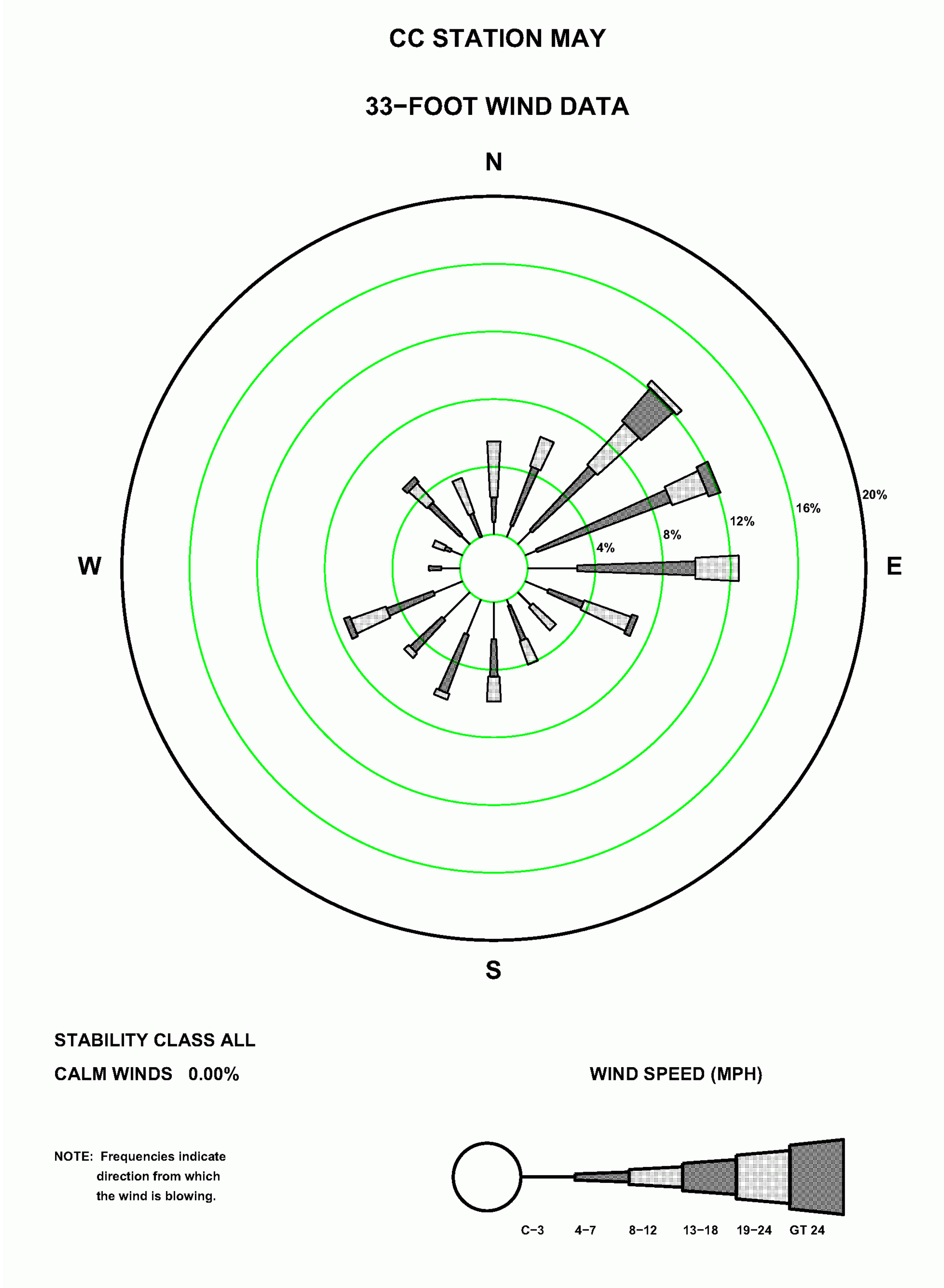


Figure 2.7-11— CCNPP 33 ft June Precipitation Wind Rose

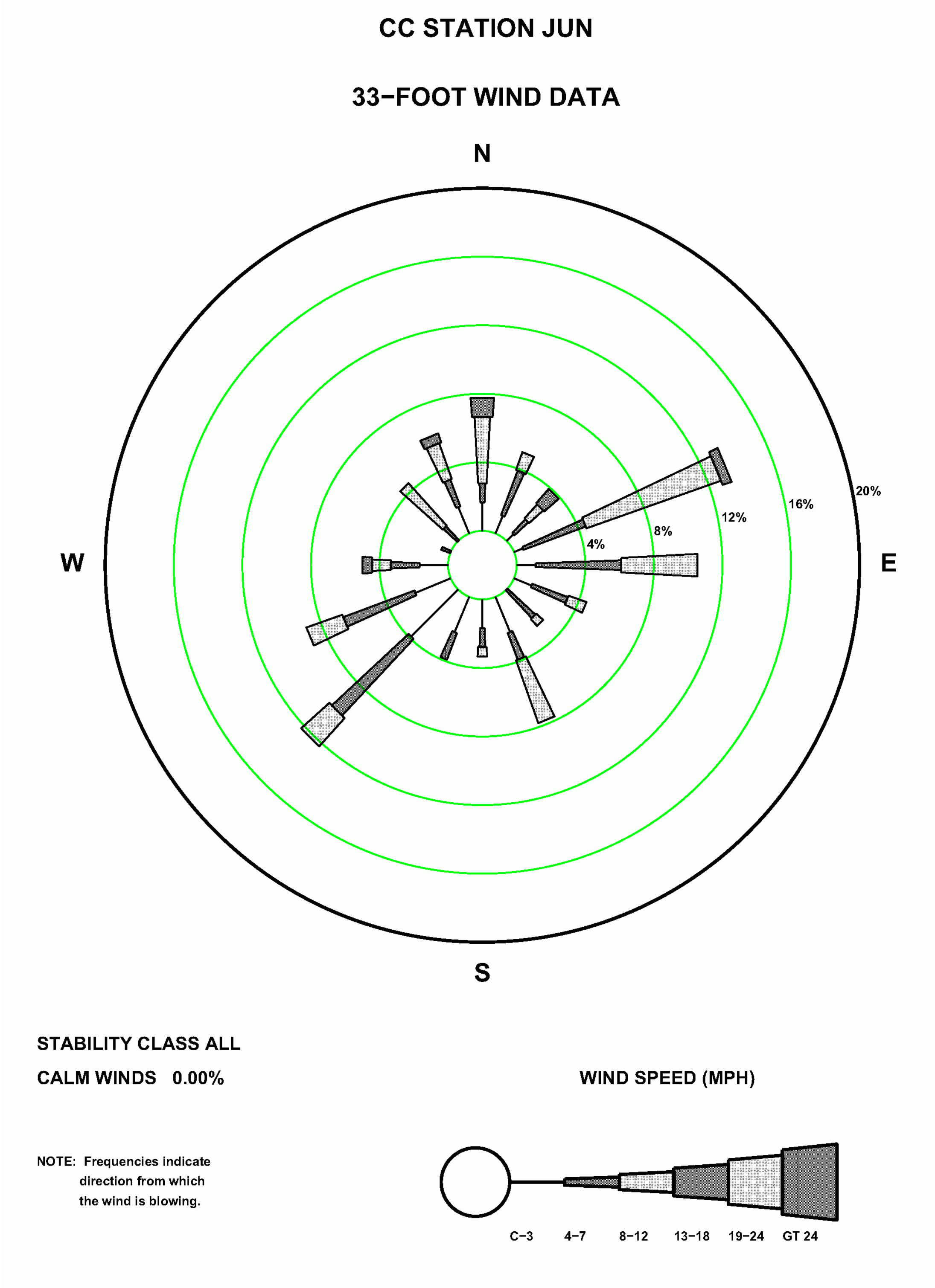


Figure 2.7-12— CCNPP 33 ft July Precipitation Wind Rose

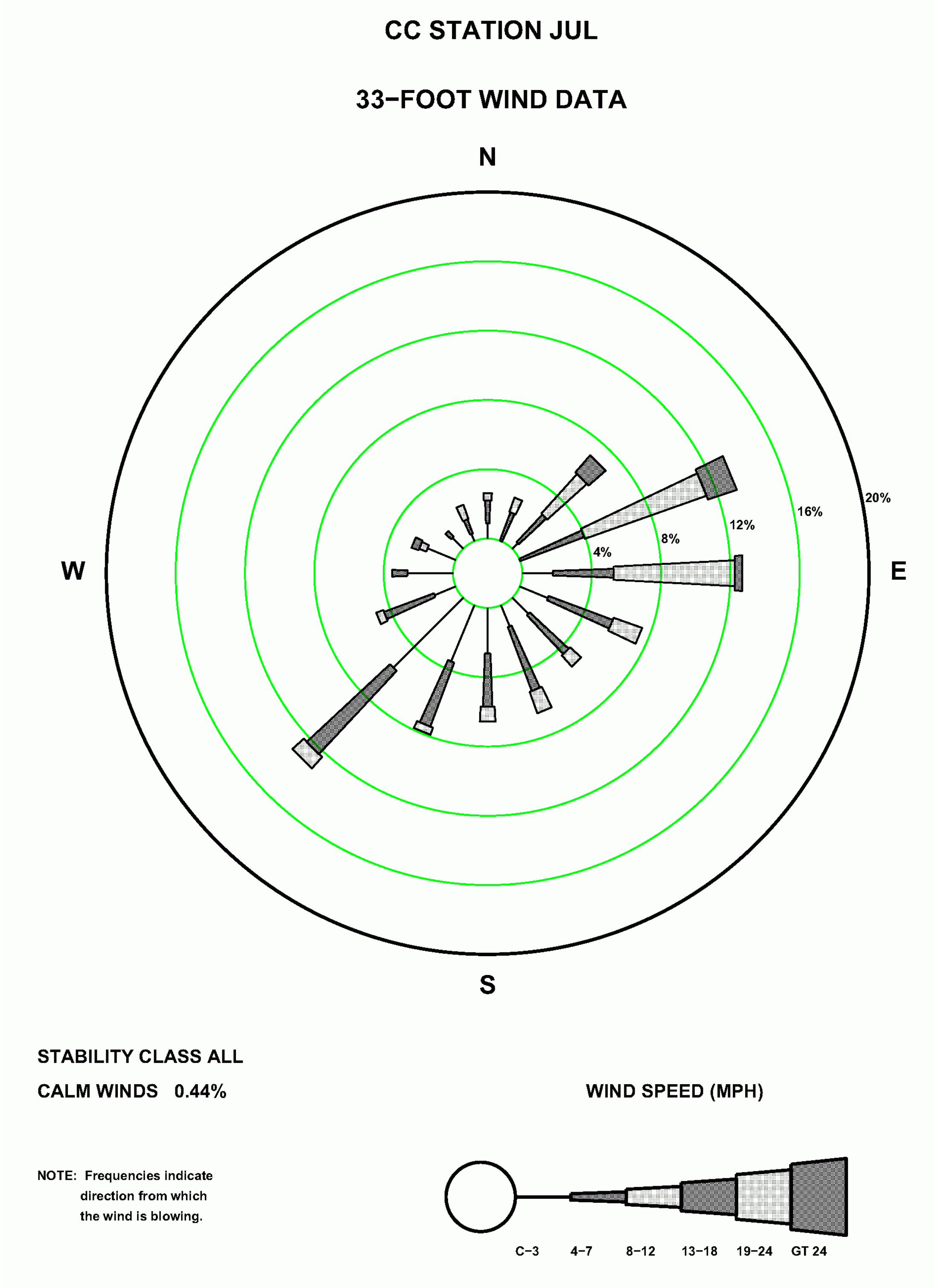


Figure 2.7-13— CCNPP 33 ft August Precipitation Wind Rose

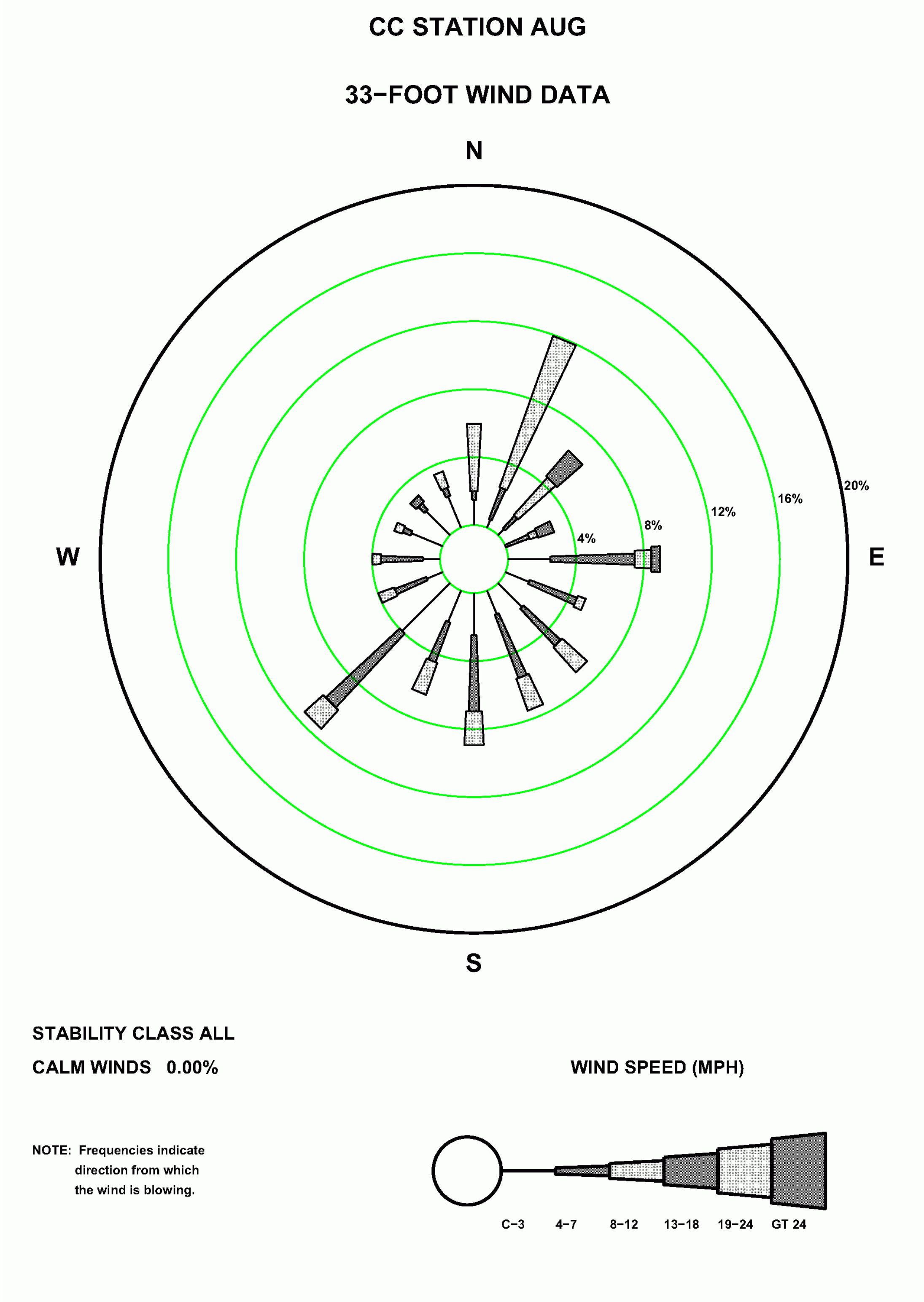


Figure 2.7-14— CCNPP 33 ft September Precipitation Wind Rose

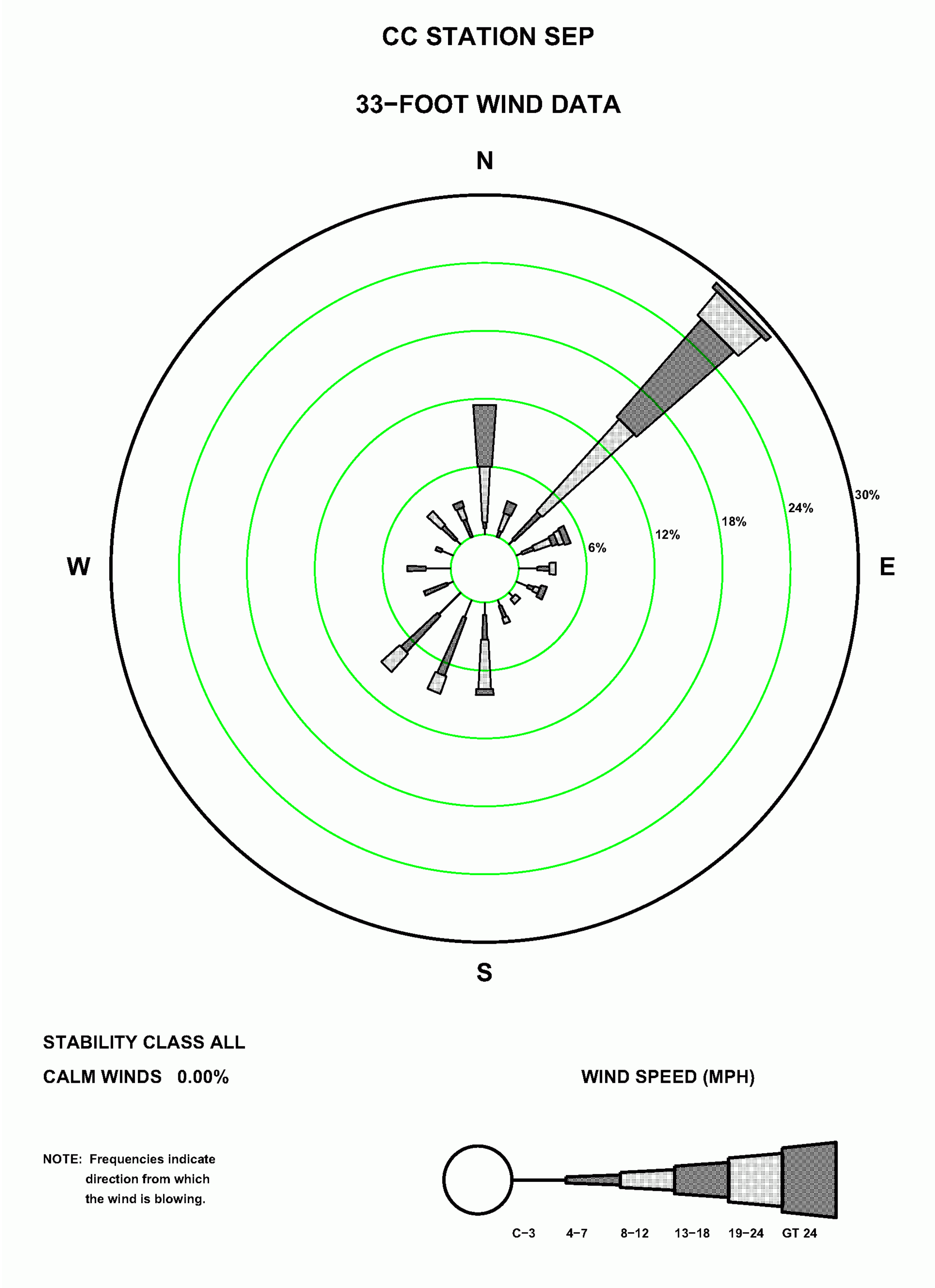


Figure 2.7-15— CCNPP 33 ft October Precipitation Wind Rose

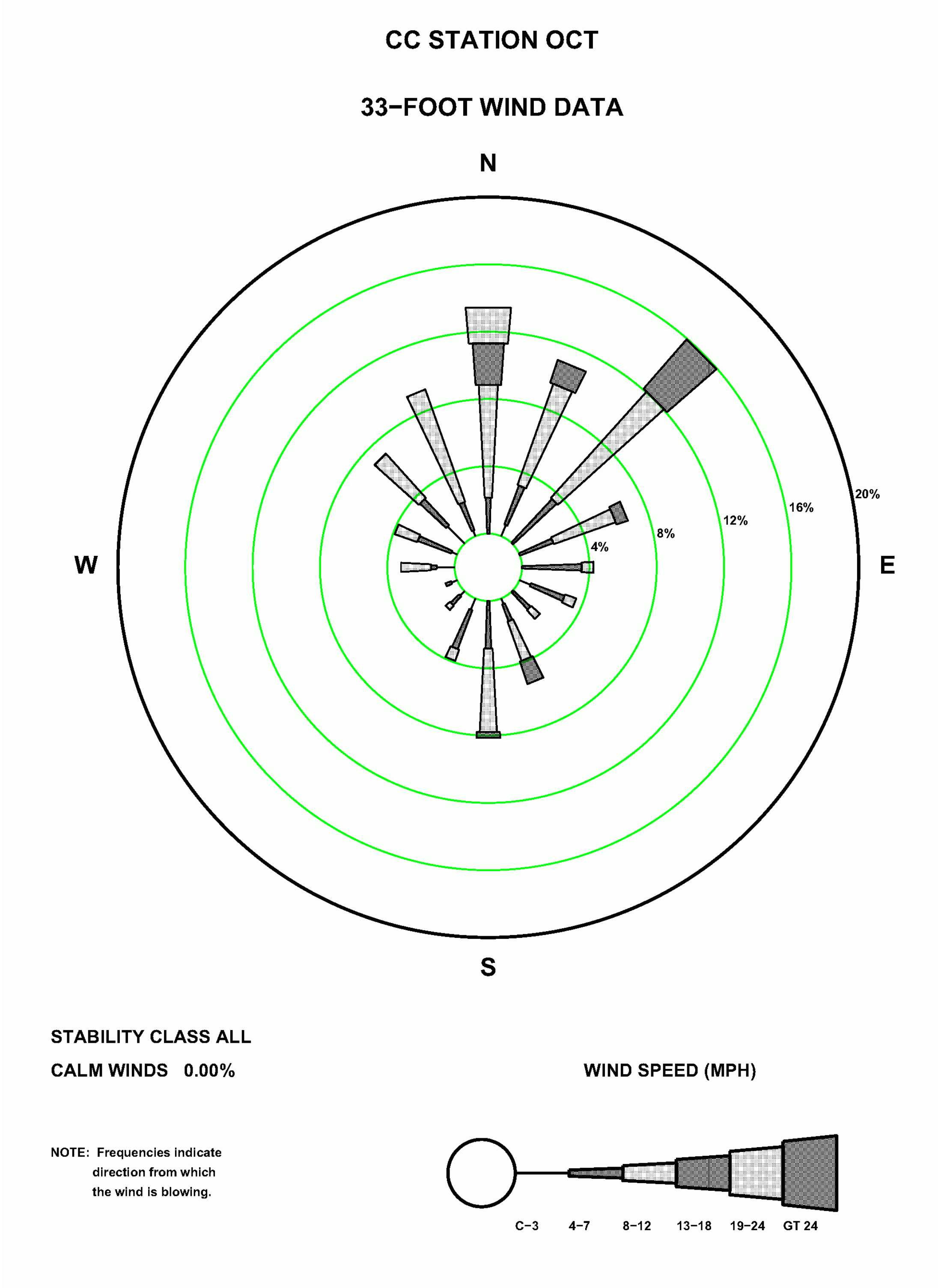


Figure 2.7-16— CCNPP 33 ft November Precipitation Wind Rose

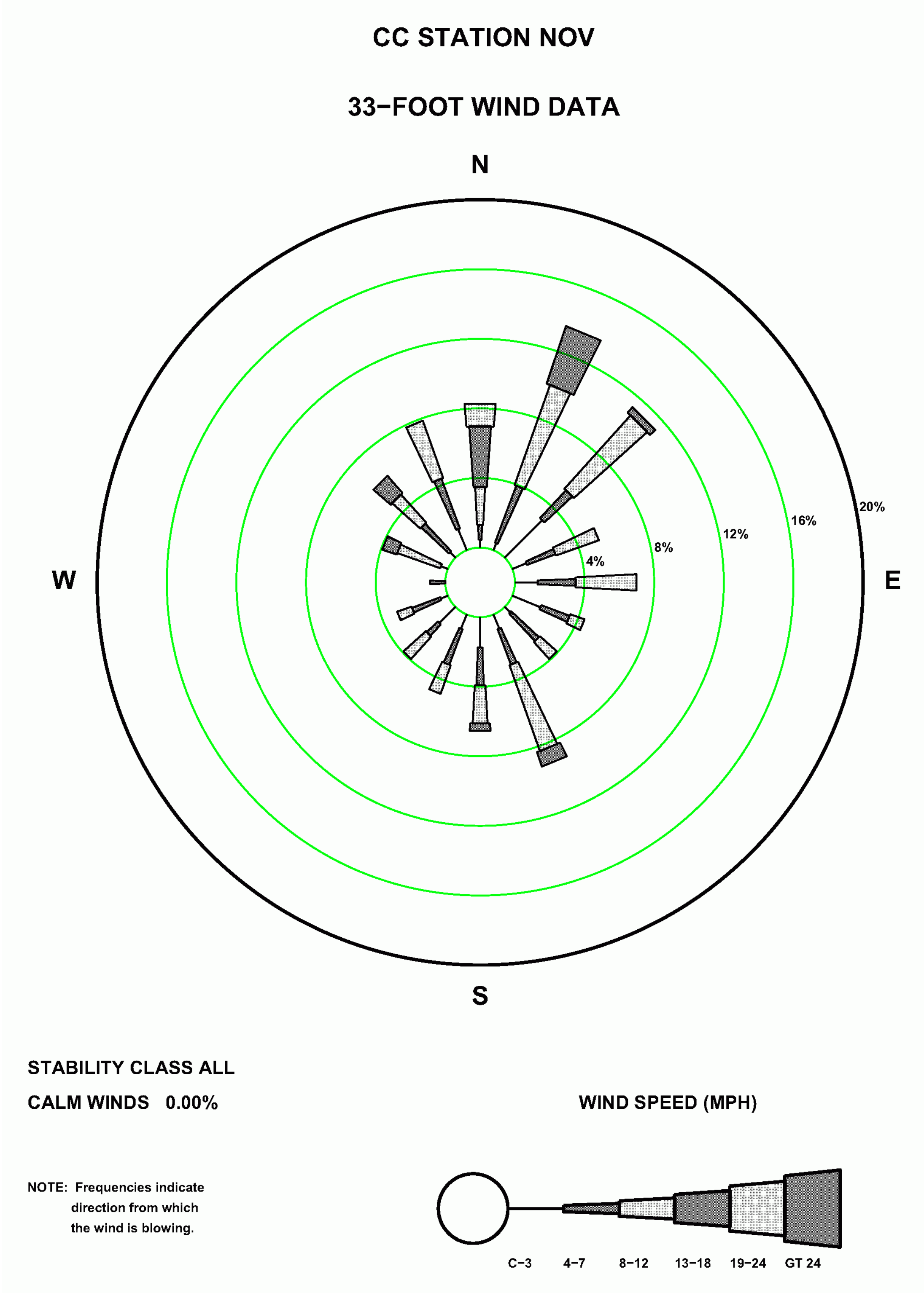


Figure 2.7-17— CCNPP 33 ft December Precipitation Wind Rose

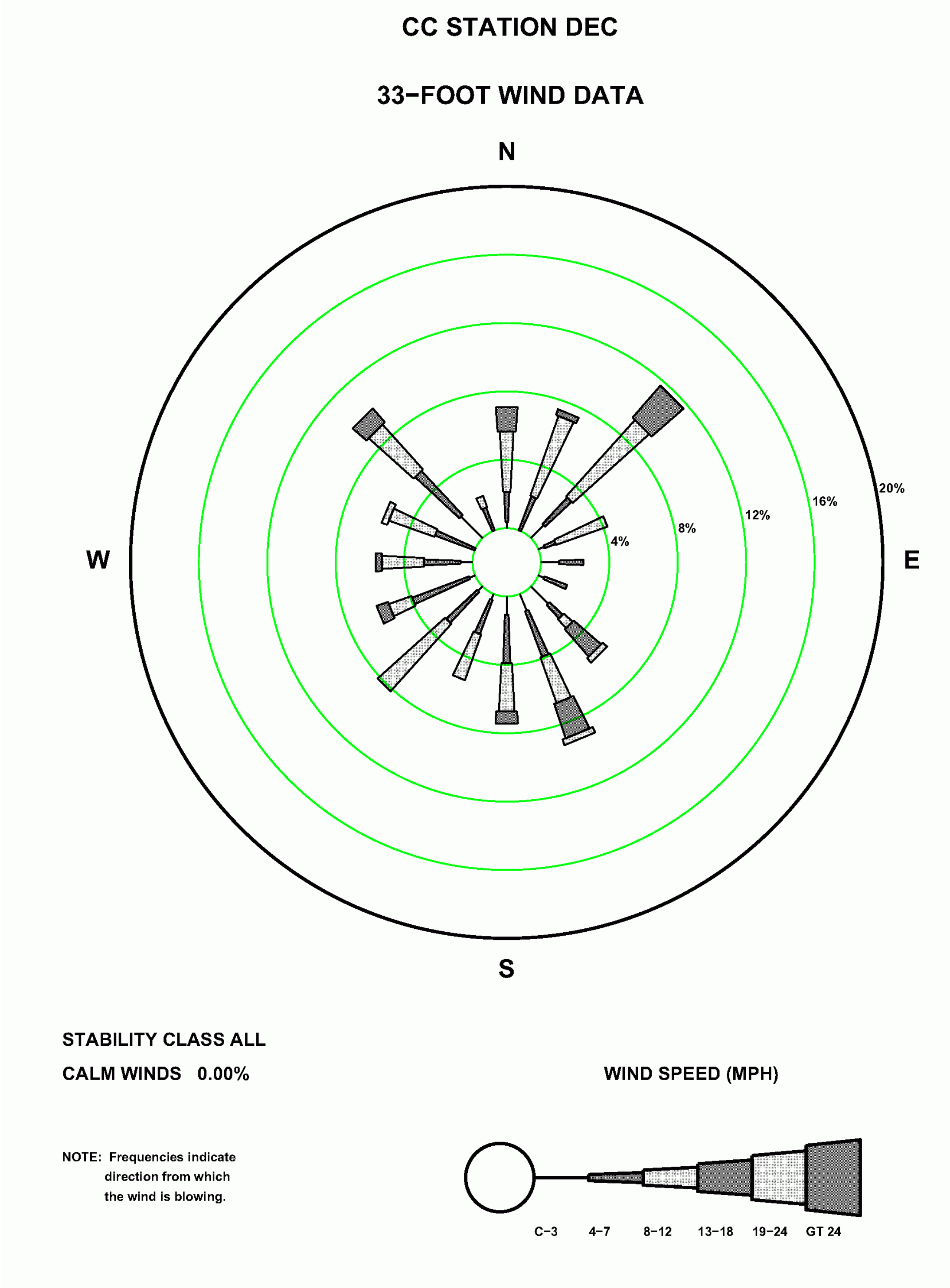


Figure 2.7-18— CCNPP 197 ft January Precipitation Wind Rose

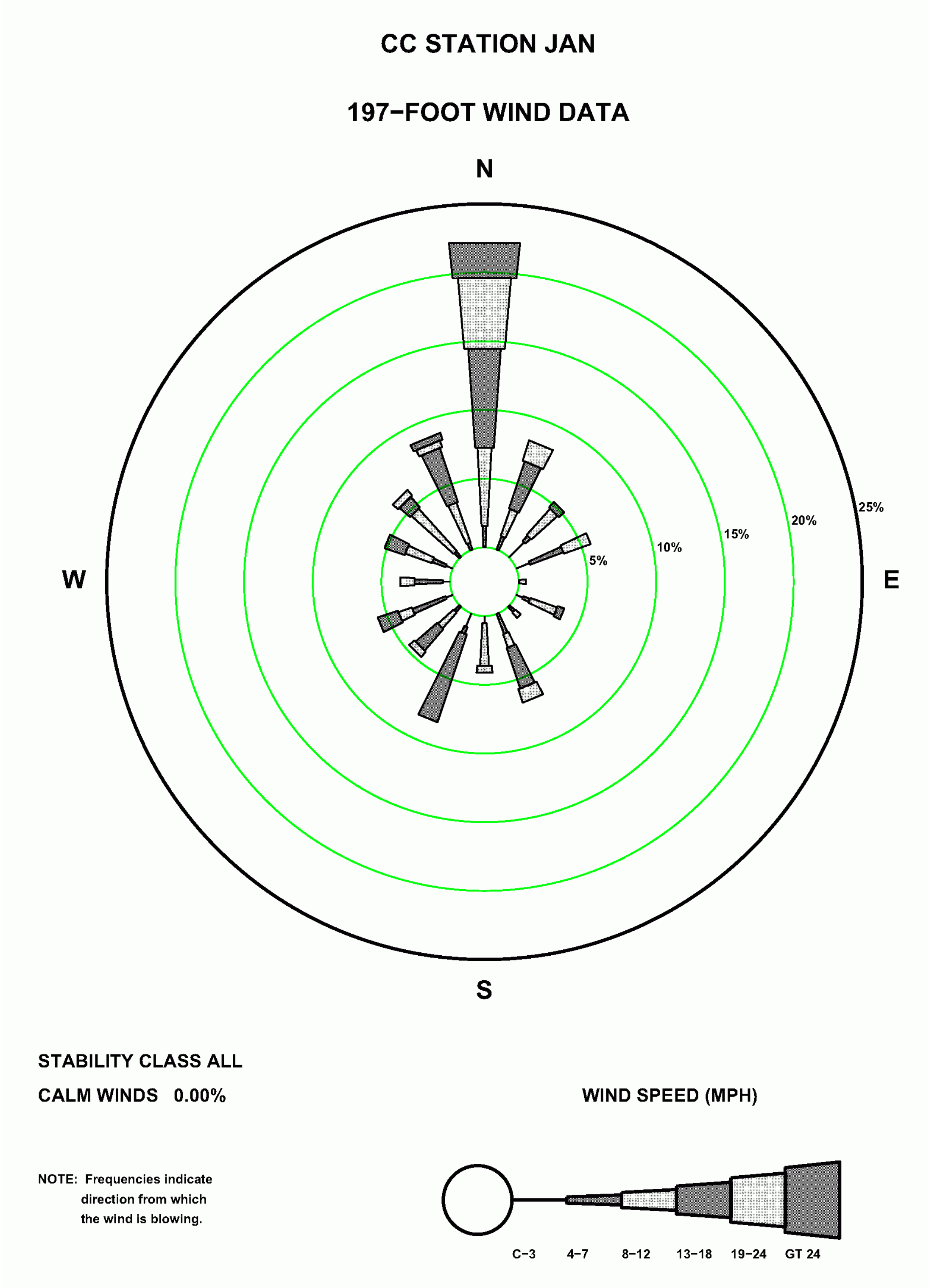


Figure 2.7-19— CCNPP 197 ft February Precipitation Wind Rose

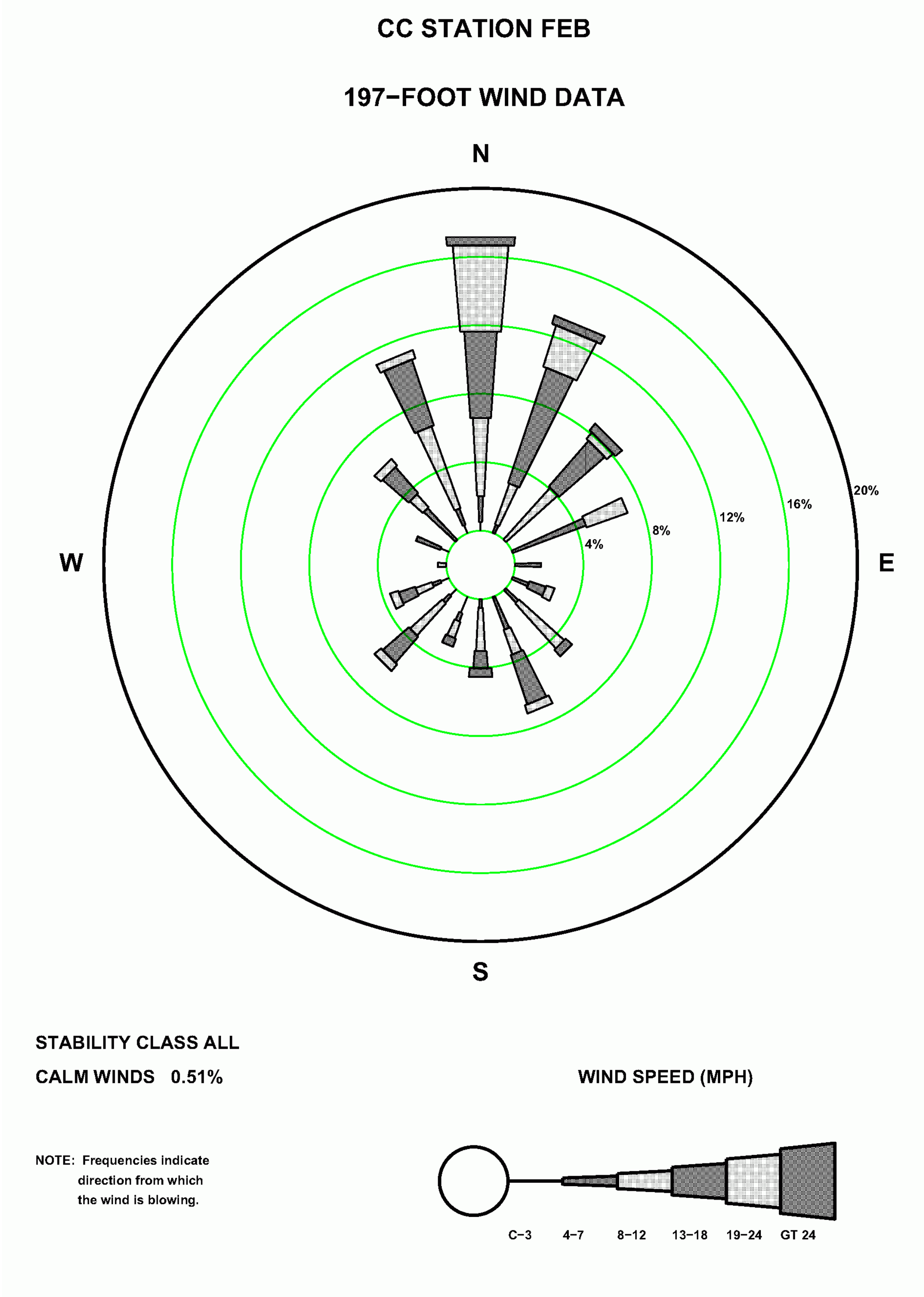


Figure 2.7-20— CCNPP 197 ft March Precipitation Wind Rose

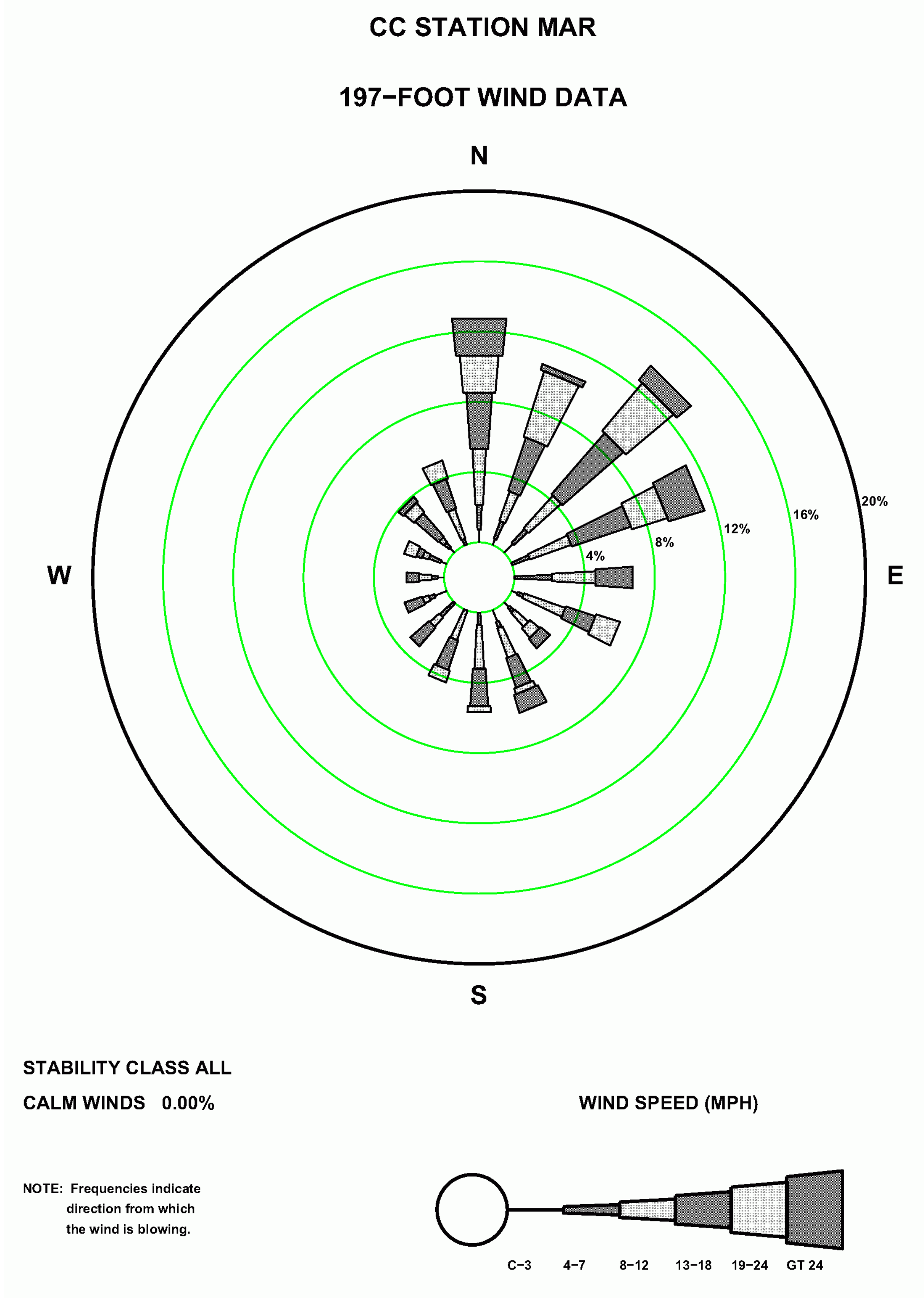


Figure 2.7-21— CCNPP 197 ft April Precipitation Wind Rose

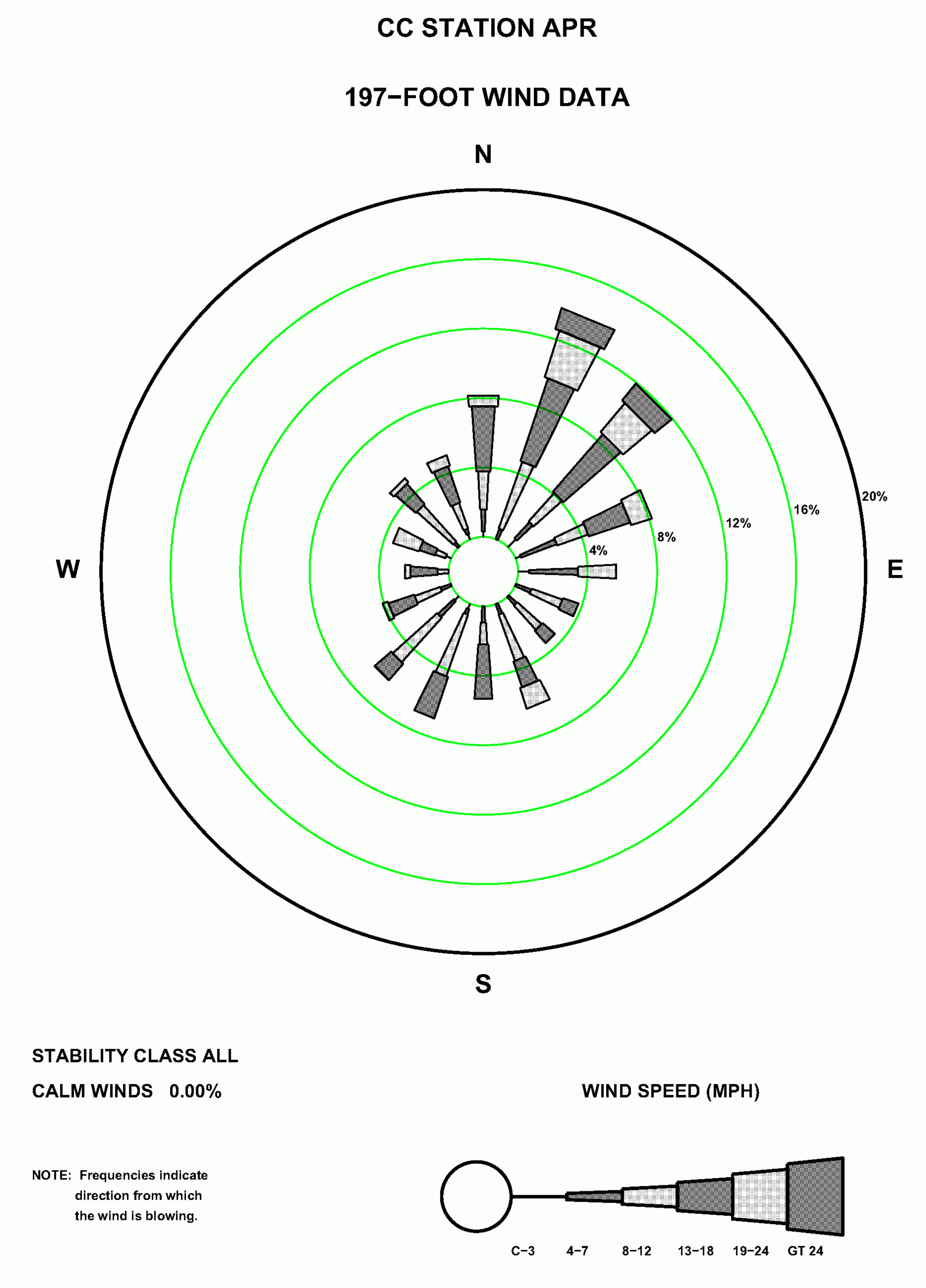


Figure 2.7-22— CCNPP 197 ft May Precipitation Wind Rose

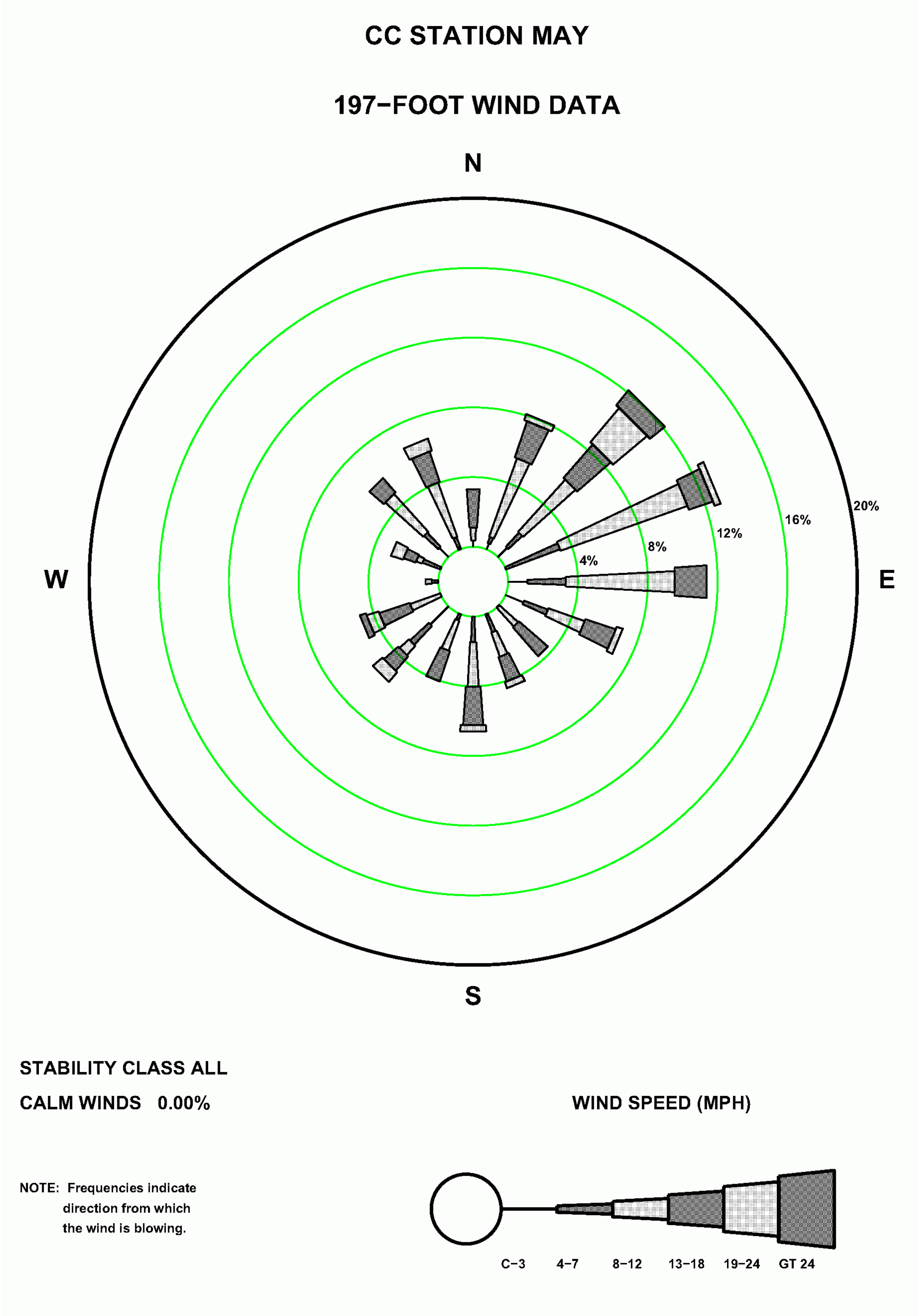


Figure 2.7-23— CCNPP 197 ft June Precipitation Wind Rose

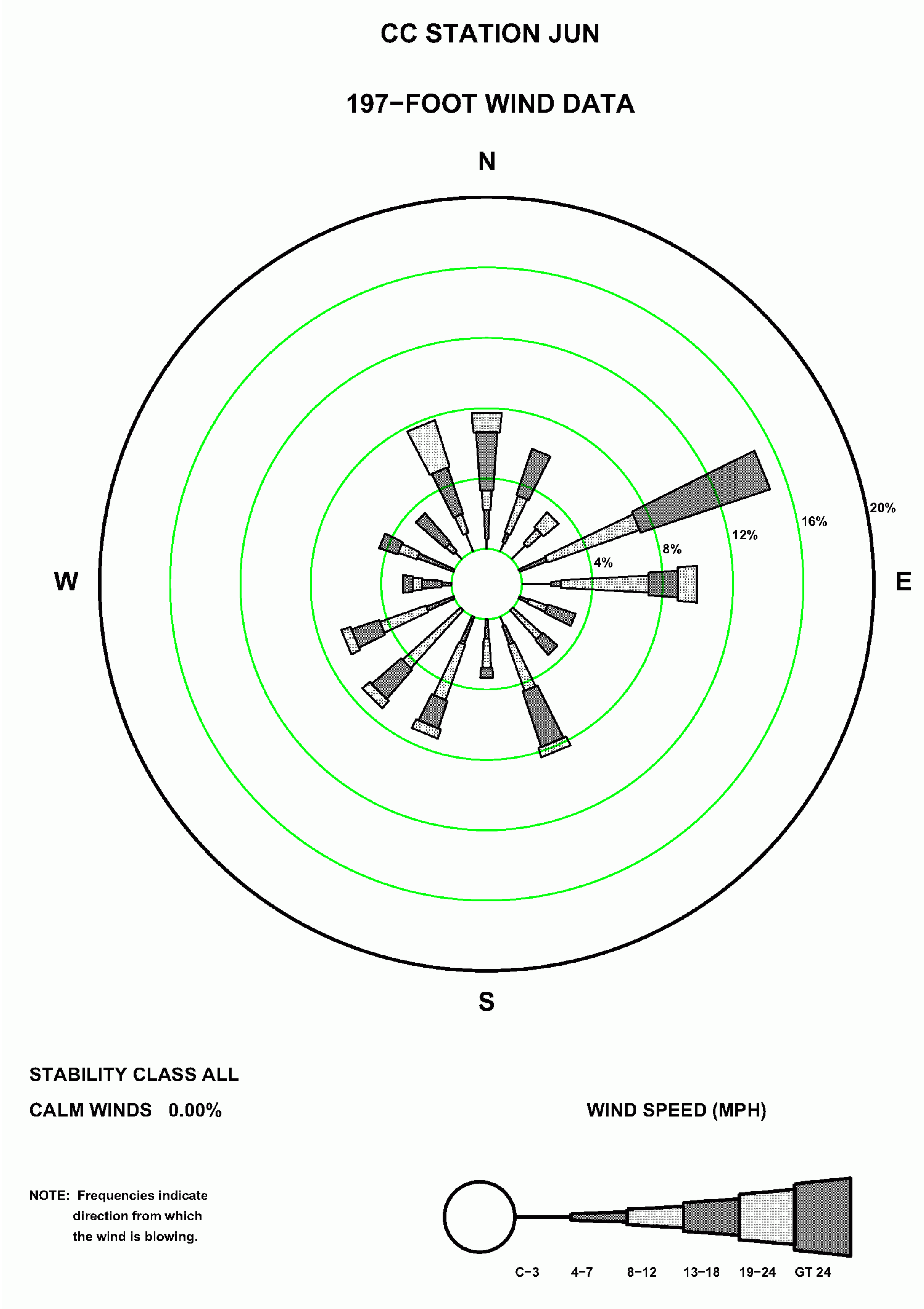


Figure 2.7-24— CCNPP 197 ft July Precipitation Wind Rose

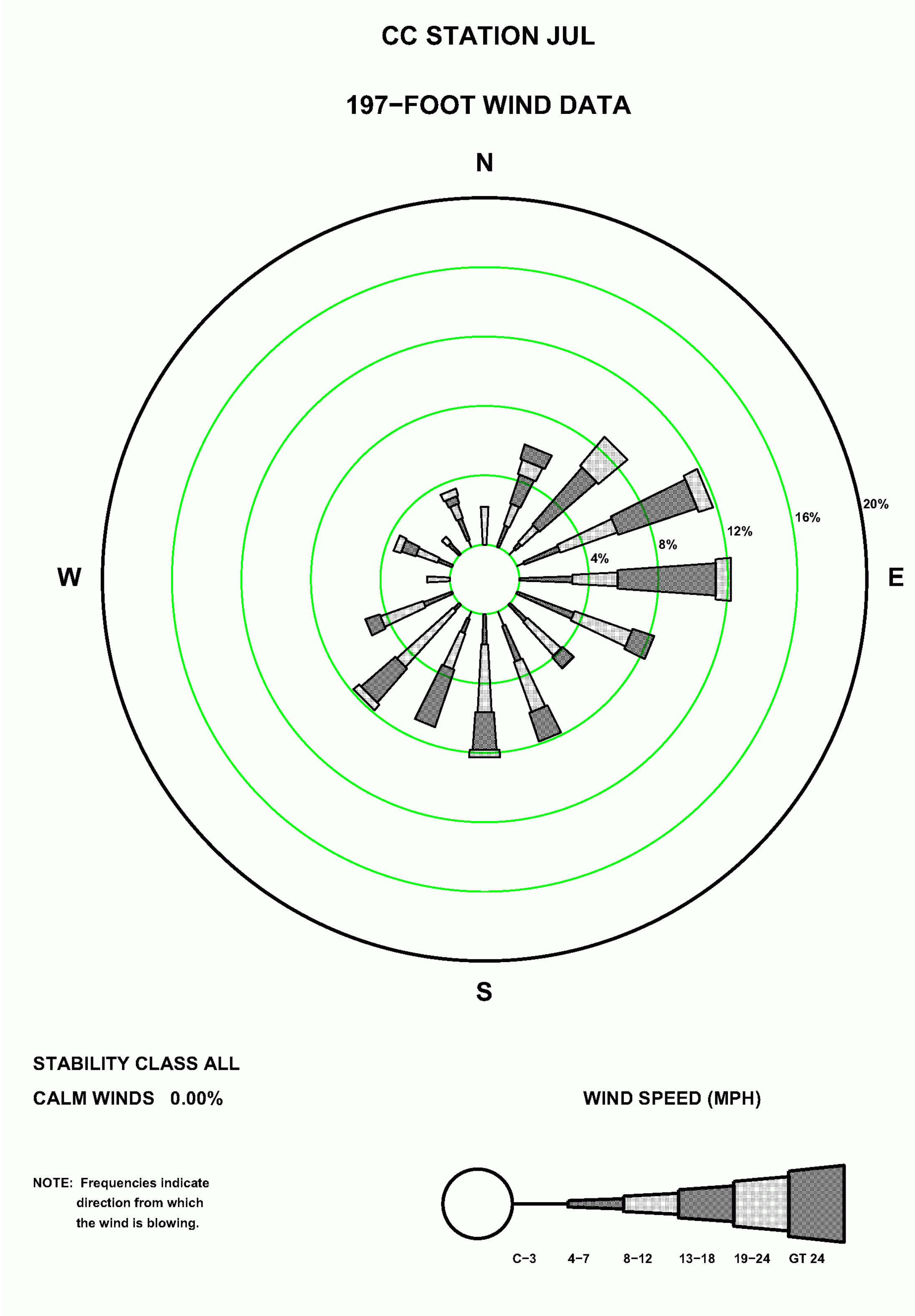


Figure 2.7-25— CCNPP 197 ft August Precipitation Wind Rose

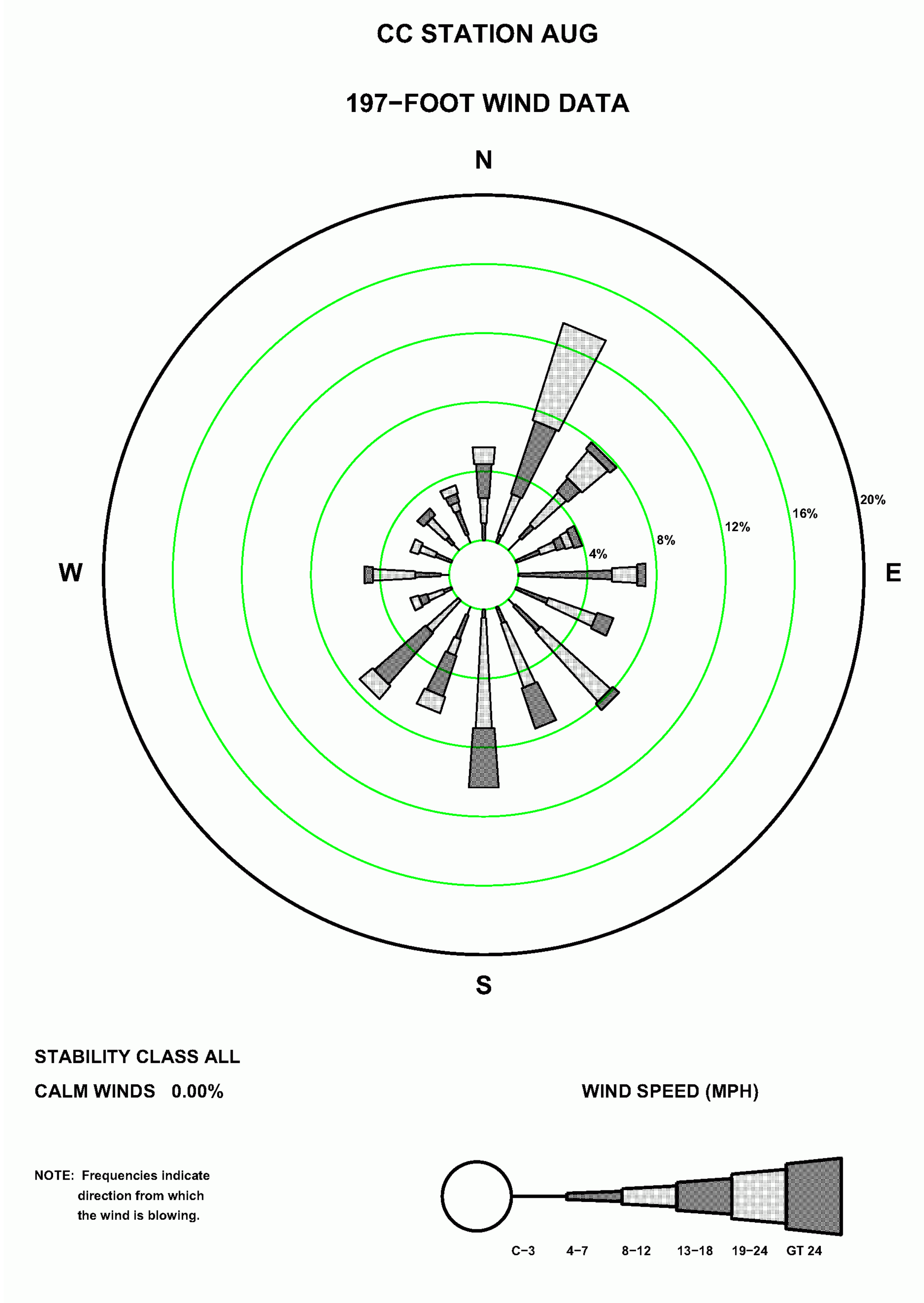


Figure 2.7-26— CCNPP 197 ft September Precipitation Wind Rose

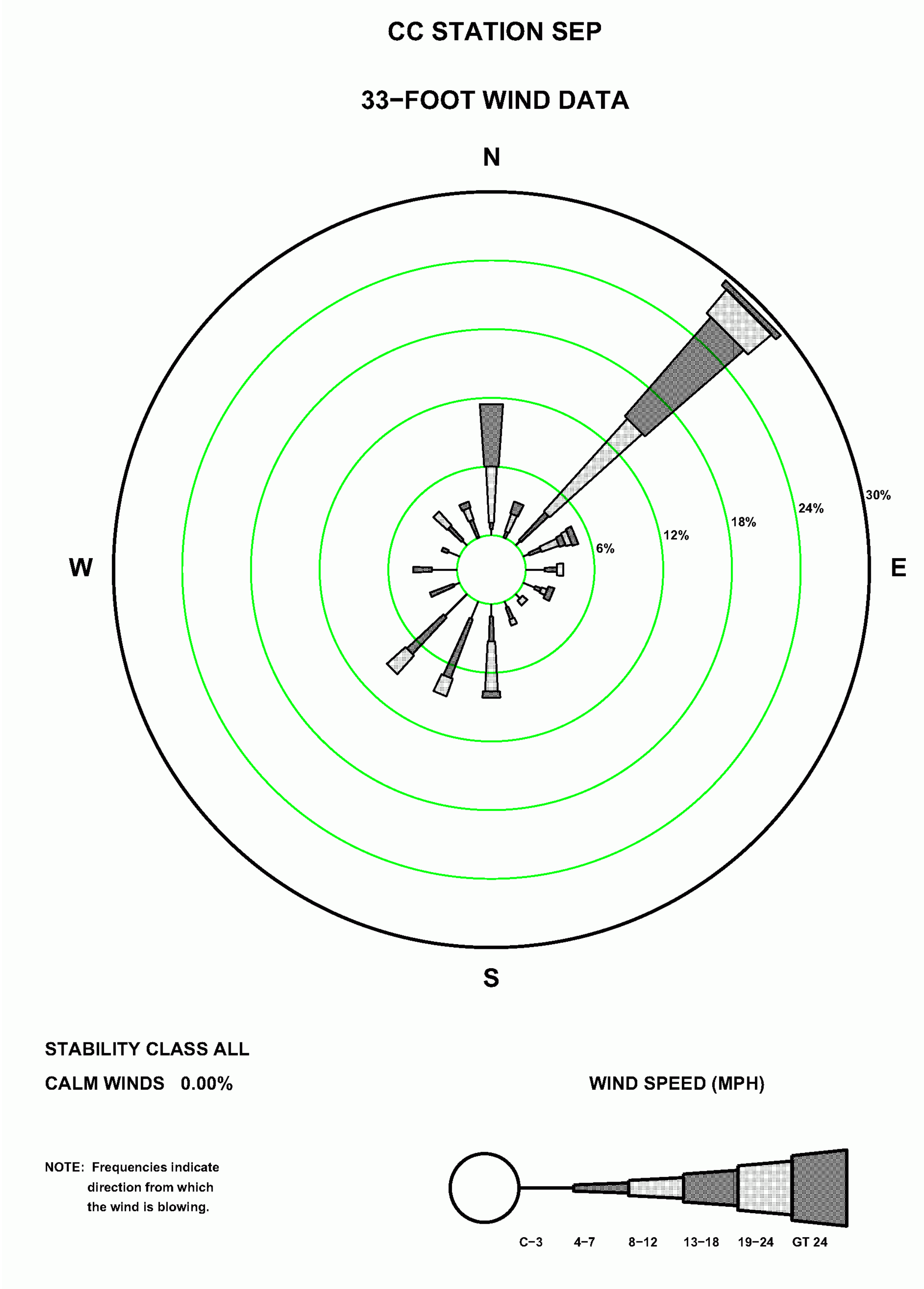


Figure 2.7-27— CCNPP 197 ft October Precipitation Wind Rose

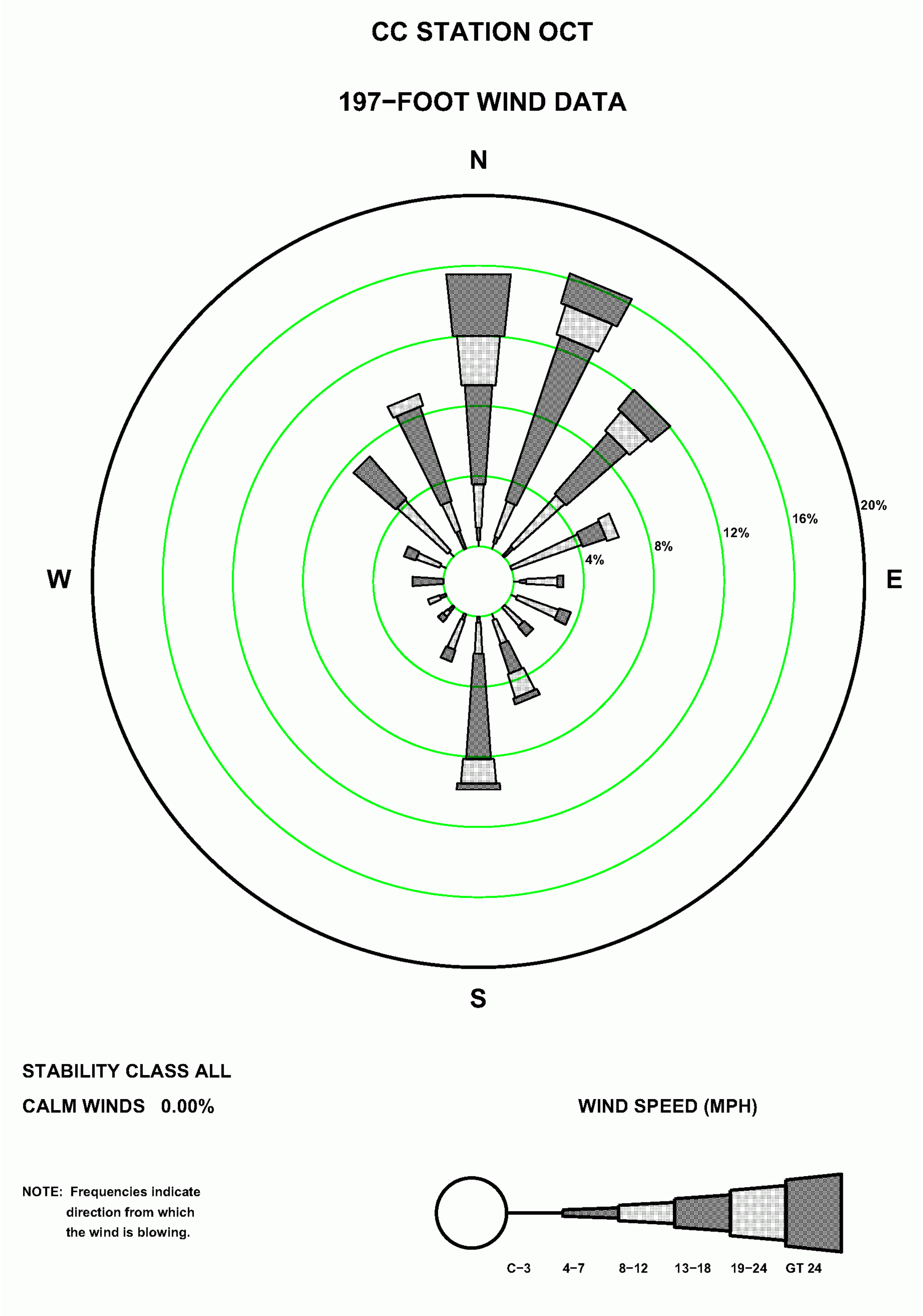


Figure 2.7-28— CCNPP 197 ft November Precipitation Wind Rose

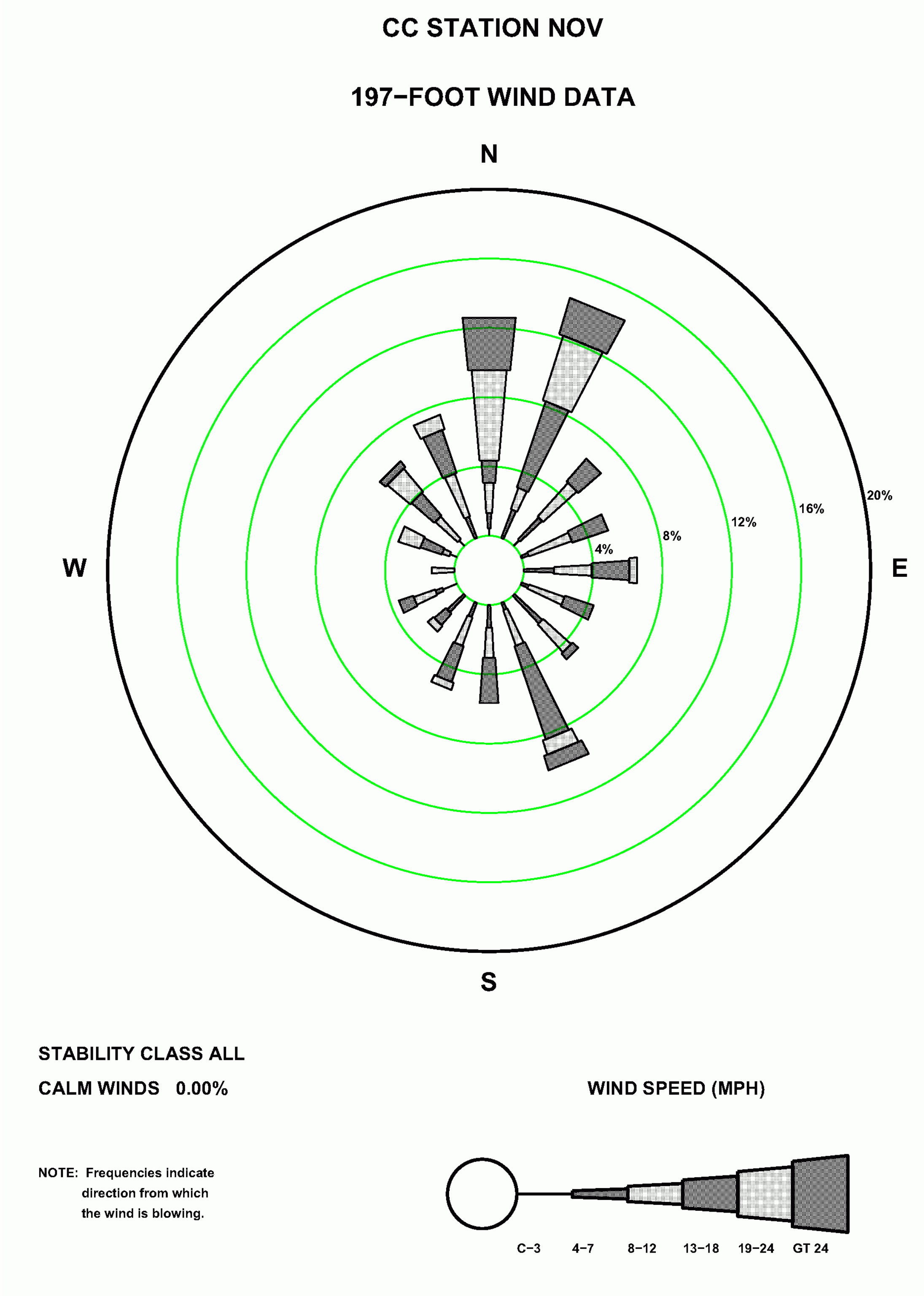


Figure 2.7-29— CCNPP 197 ft December Precipitation Wind Rose

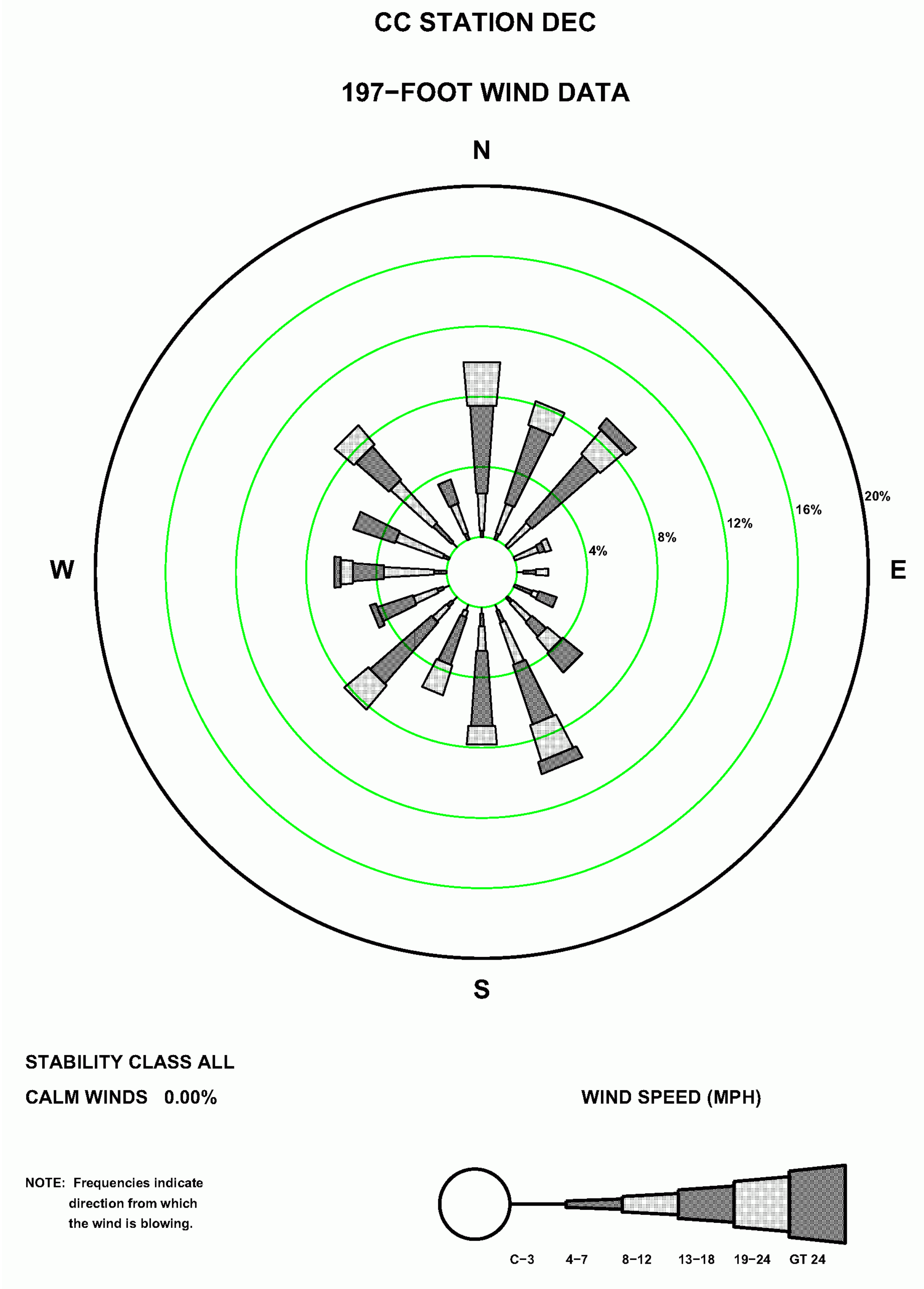


Figure 2.7-30— Monthly Average Mixing Heights

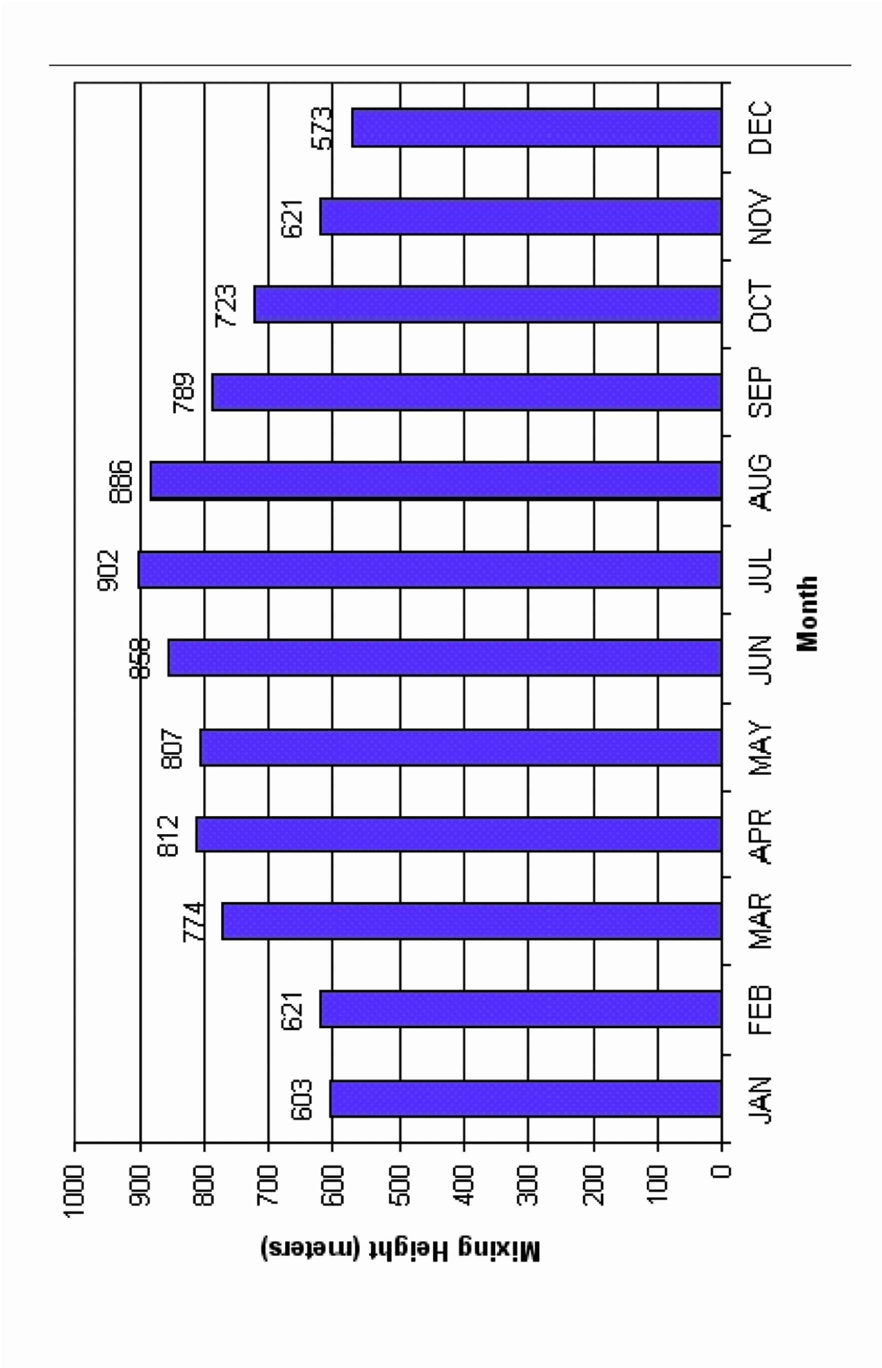


Figure 2.7-31— CCNPP 33 ft Annual Wind Rose

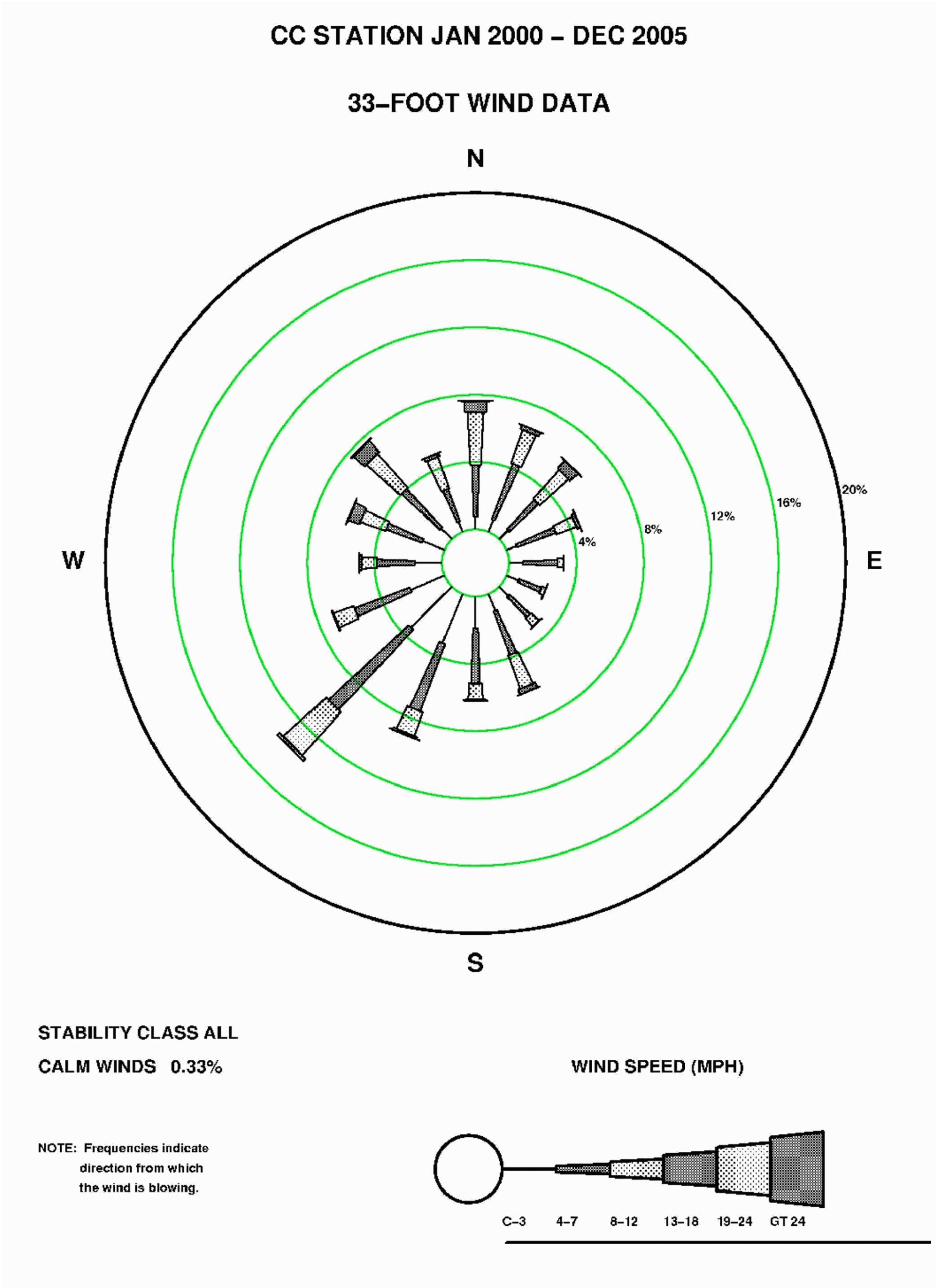


Figure 2.7-32— CCNPP 33 ft January Wind Rose

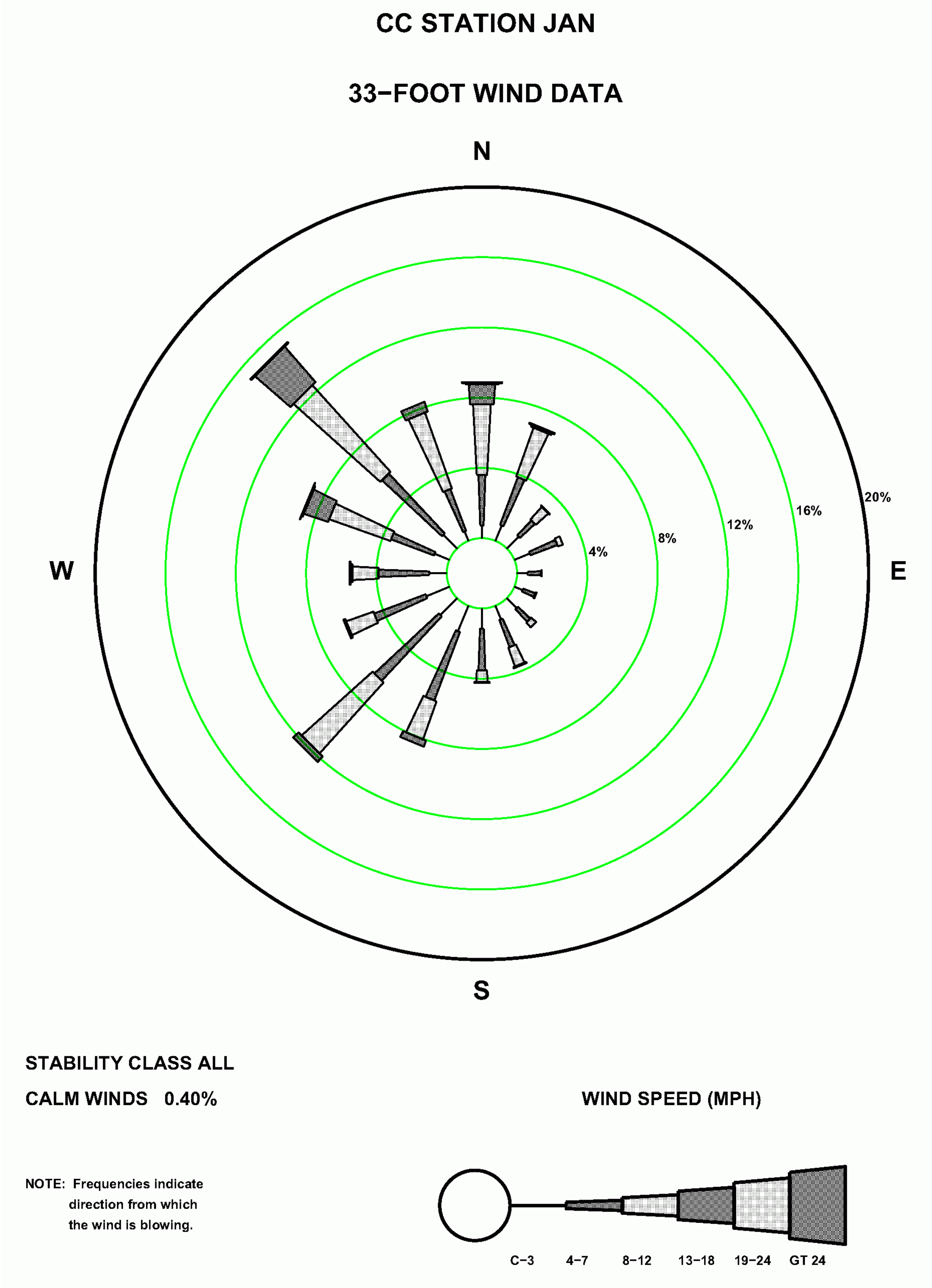


Figure 2.7-33— CCNPP 33 ft February Wind Rose

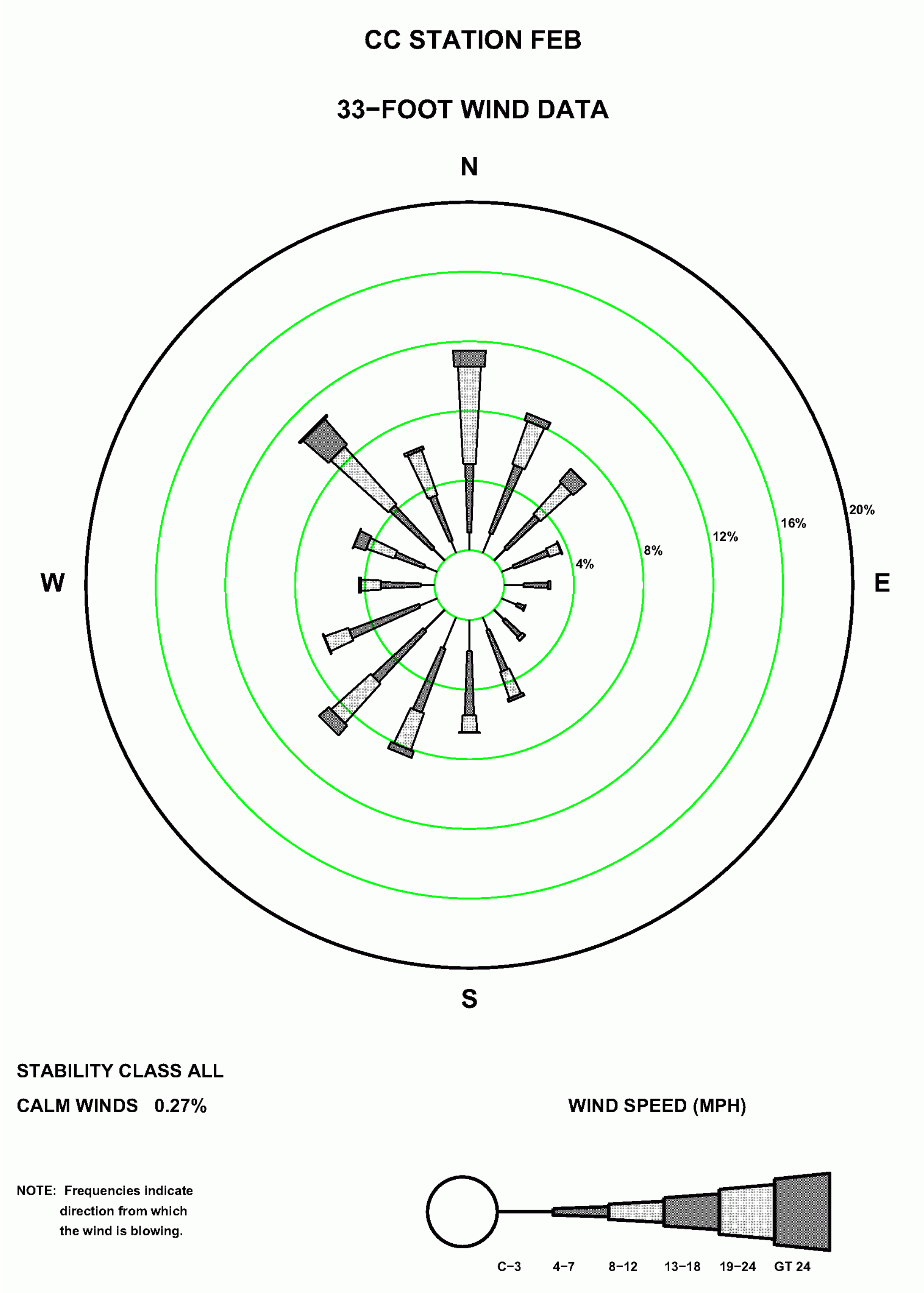


Figure 2.7-34— CCNPP 33 ft March Wind Rose

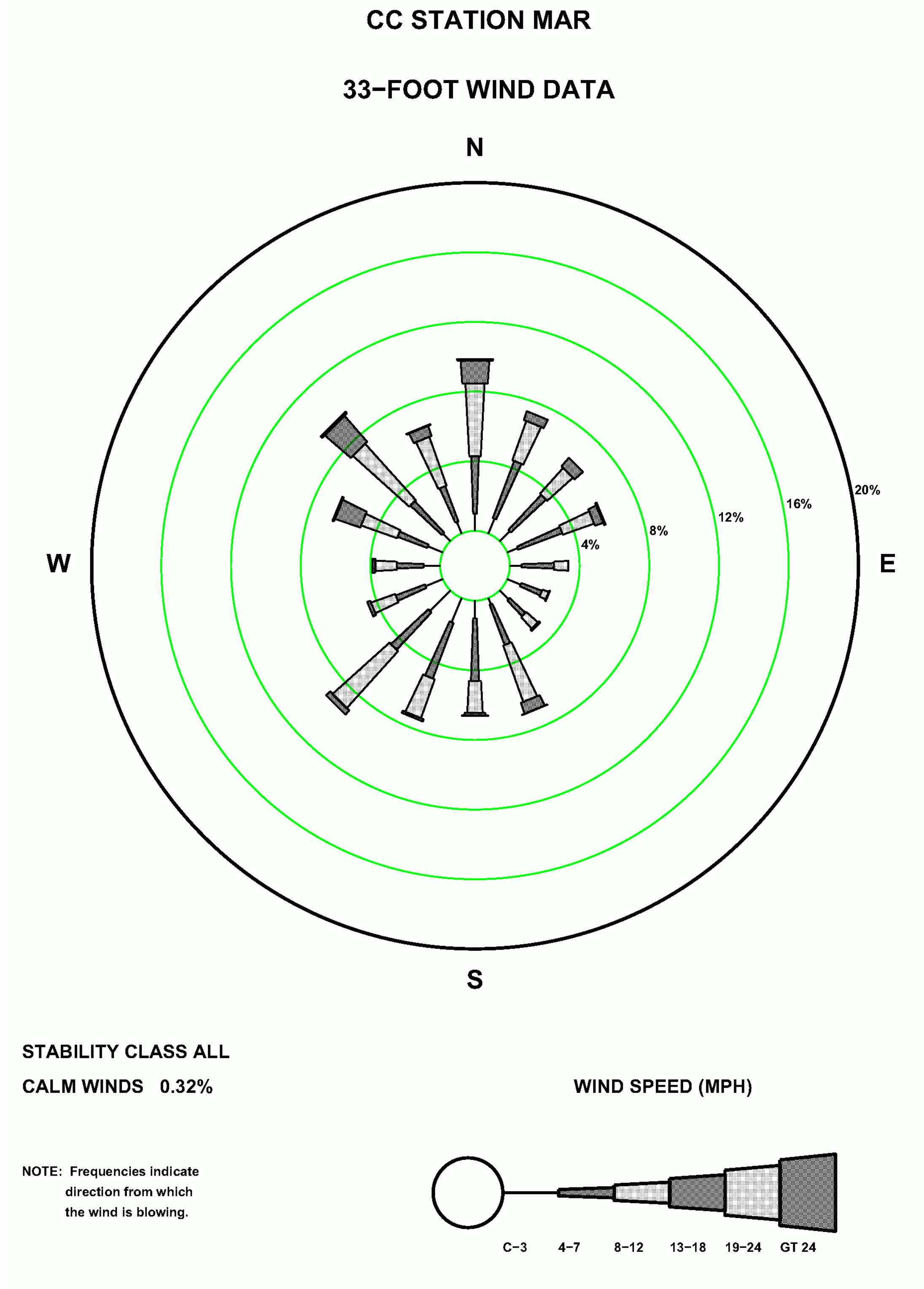


Figure 2.7-35— CCNPP 33 ft April Wind Rose

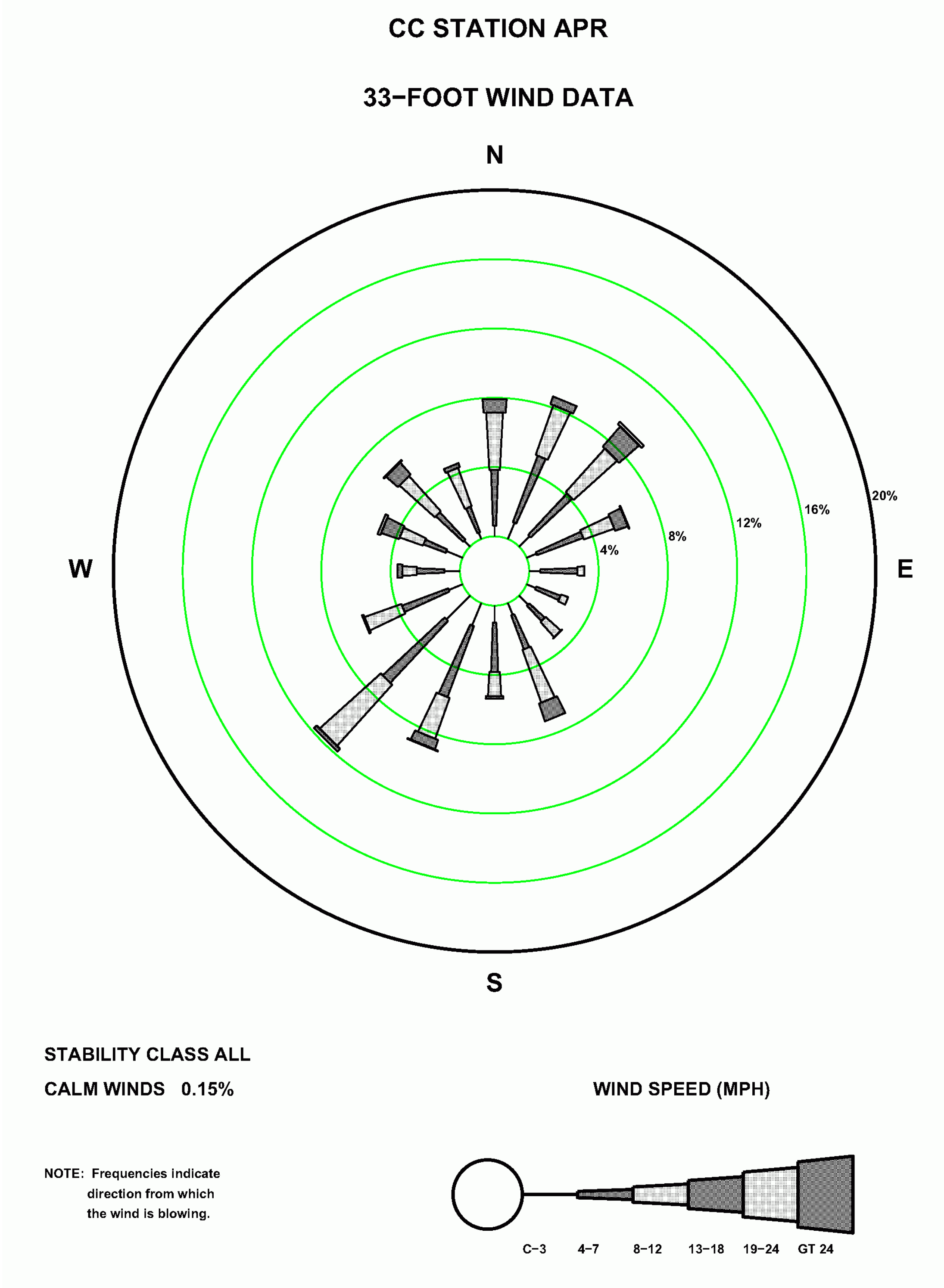


Figure 2.7-36— CCNPP 33 ft May Wind Rose

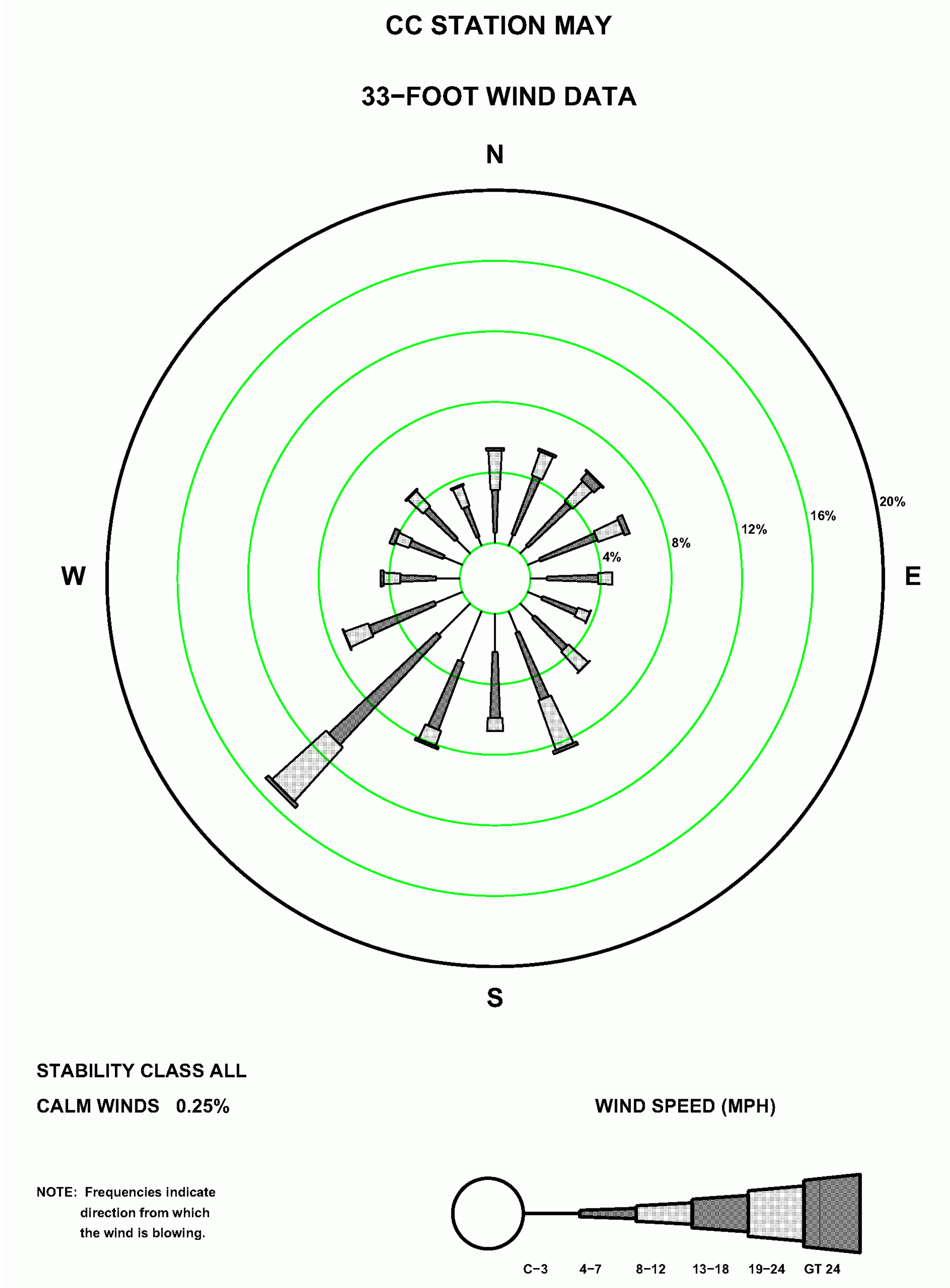


Figure 2.7-37— CCNPP 33 ft June Wind Rose

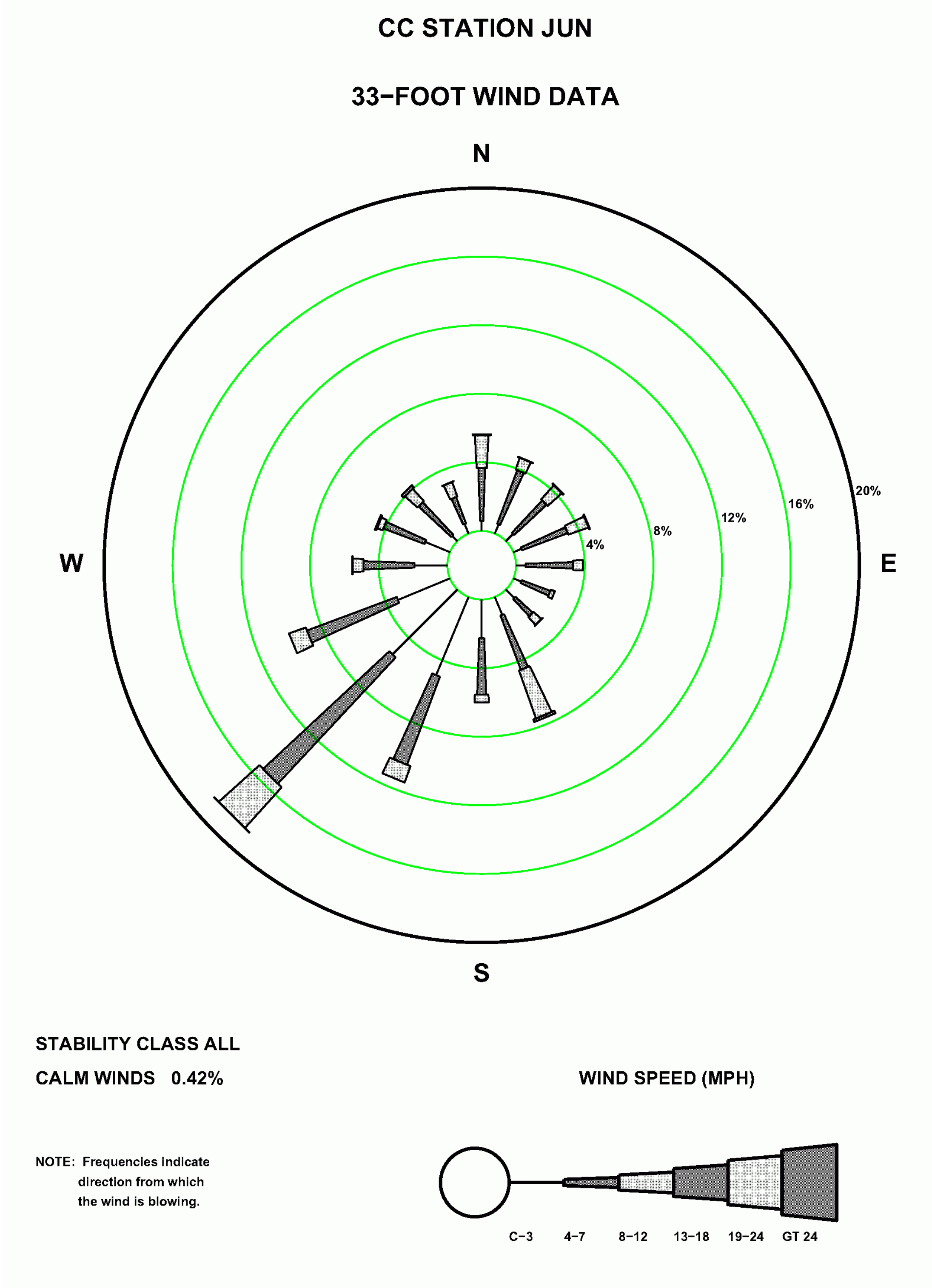


Figure 2.7-38— CCNPP 33 ft July Wind Rose

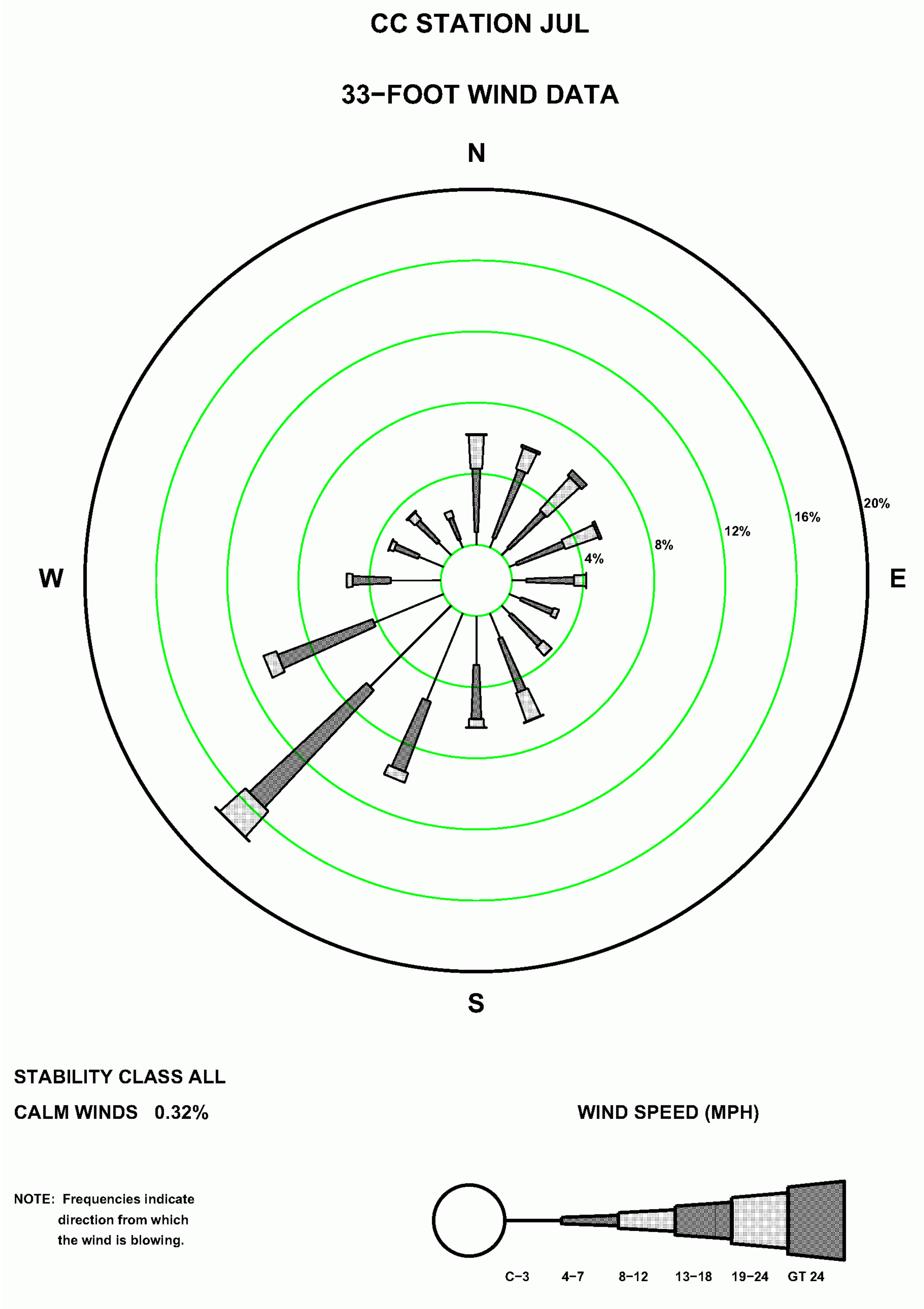


Figure 2.7-39— CCNPP 33 ft August Wind Rose

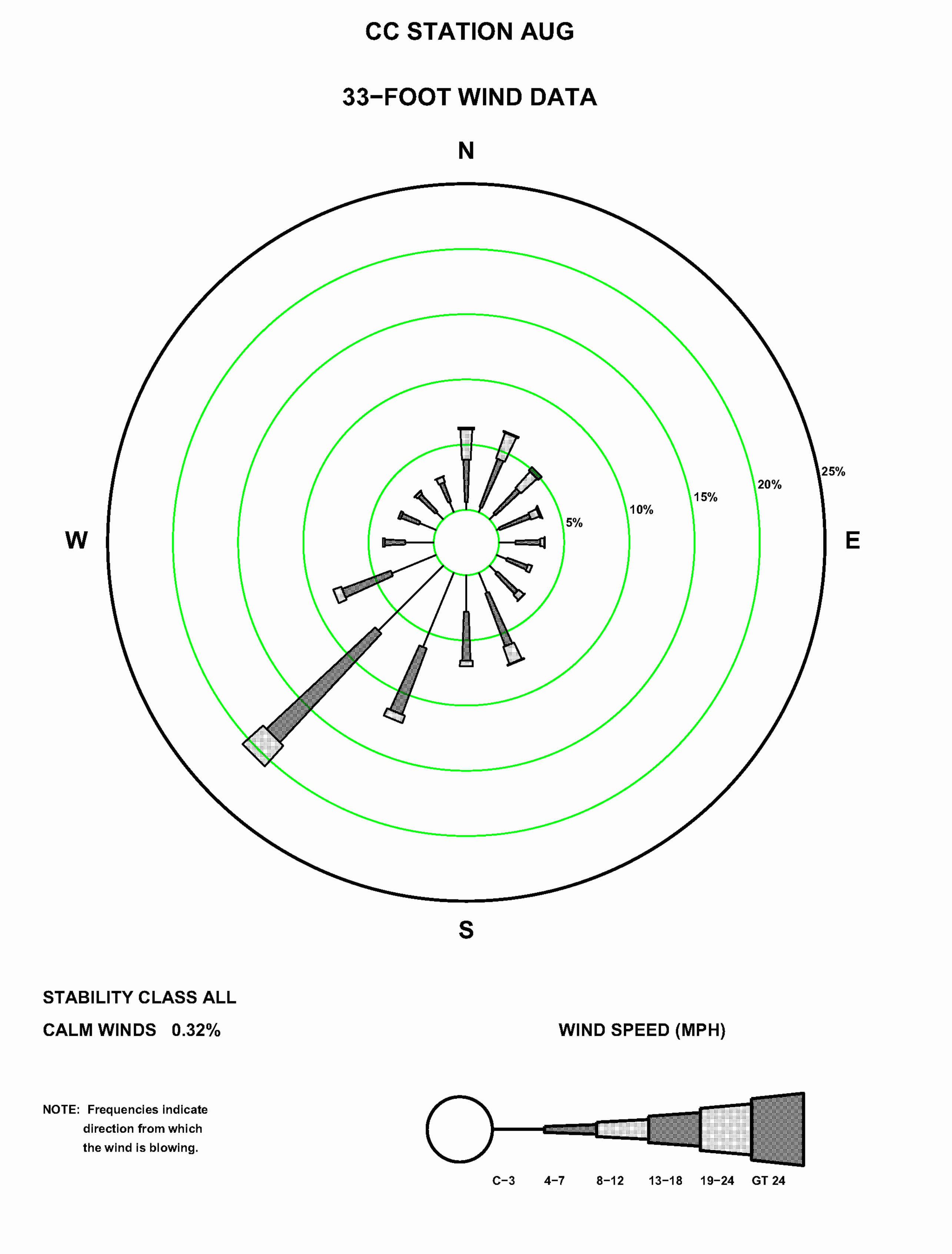


Figure 2.7-40— CCNPP 33 ft September Wind Rose

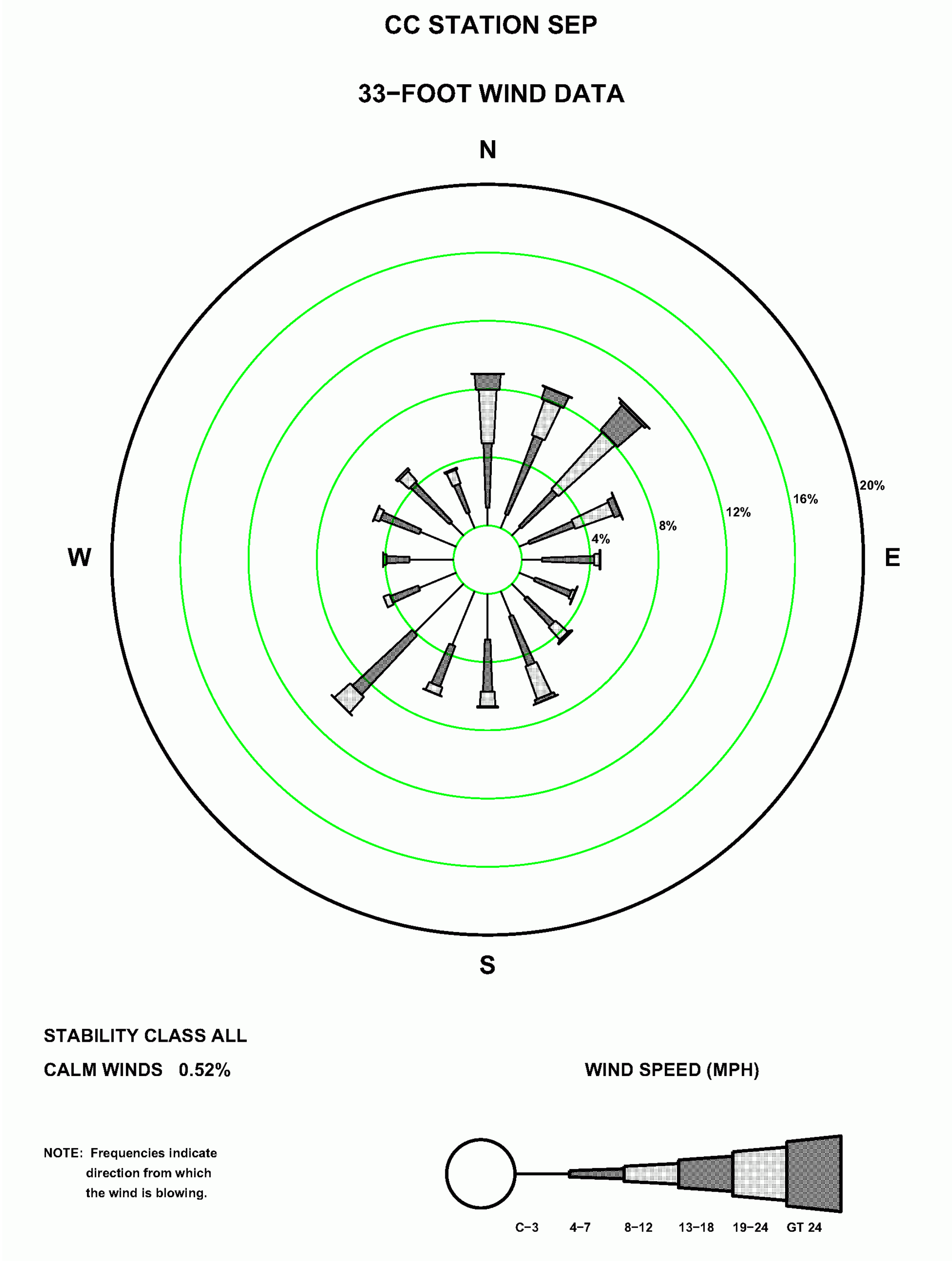


Figure 2.7-41— CCNPP 33 ft October Wind Rose

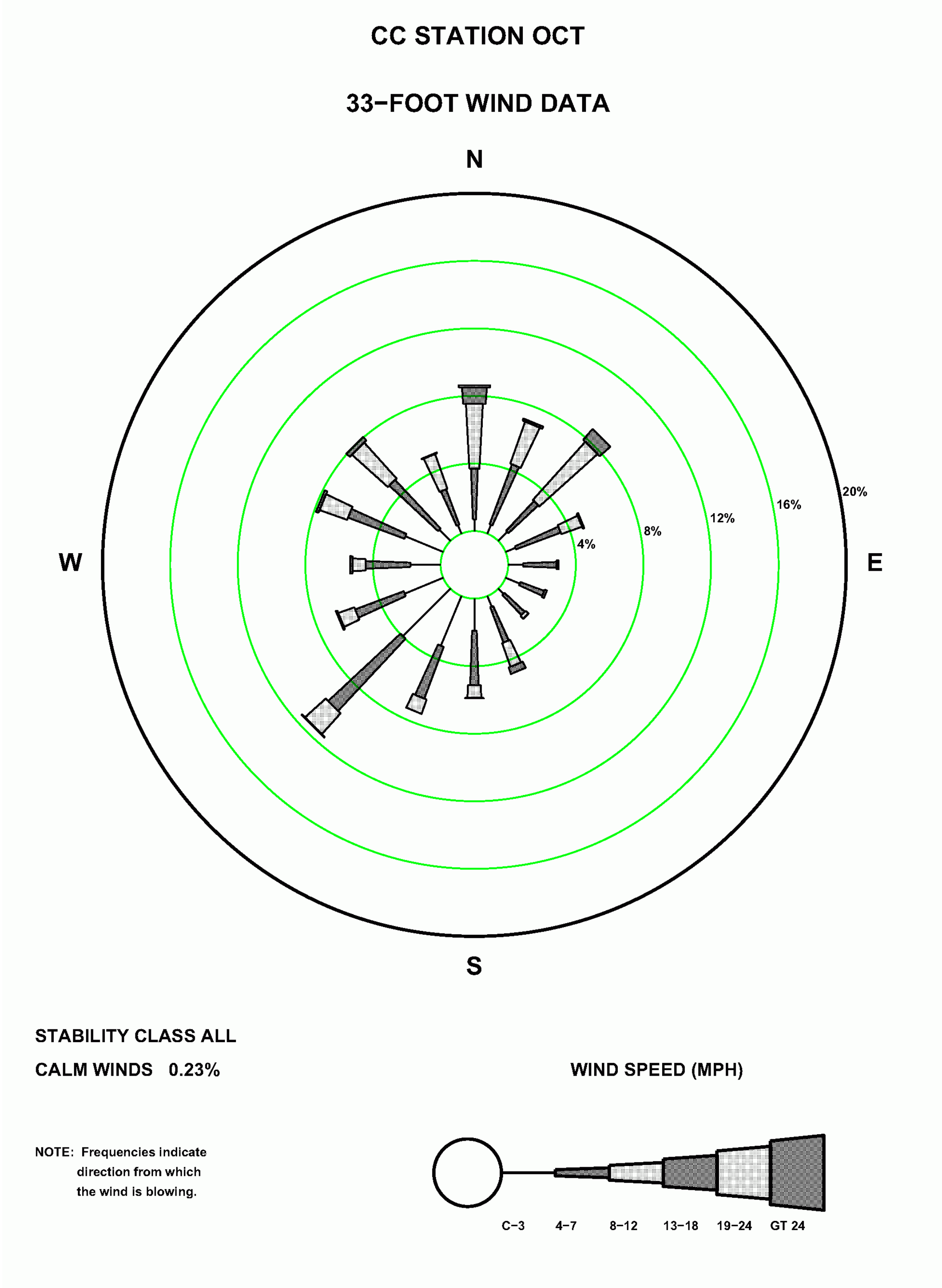


Figure 2.7-42— CCNPP 33 ft November Wind Rose

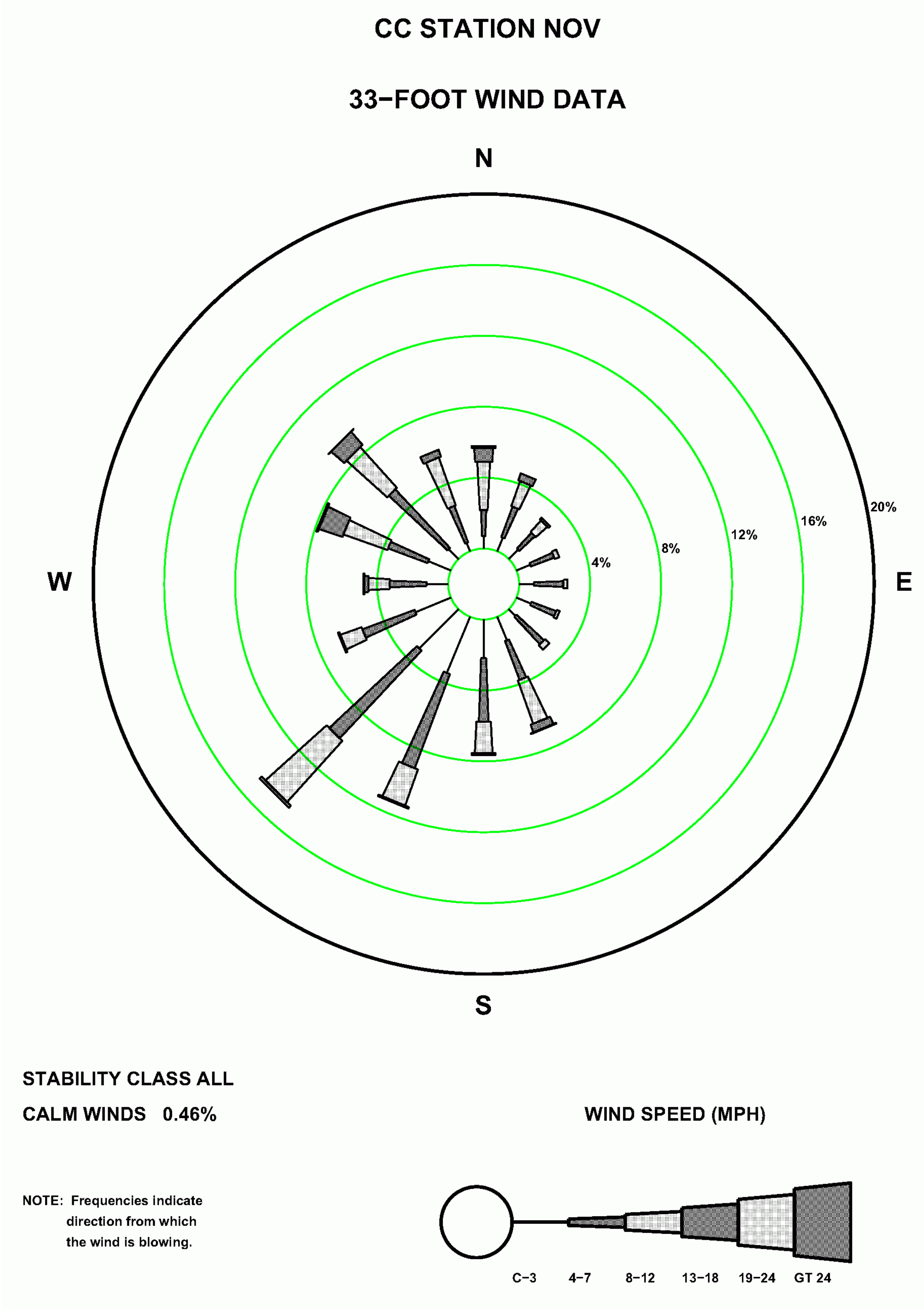


Figure 2.7-43— CCNPP 33 ft December Wind Rose

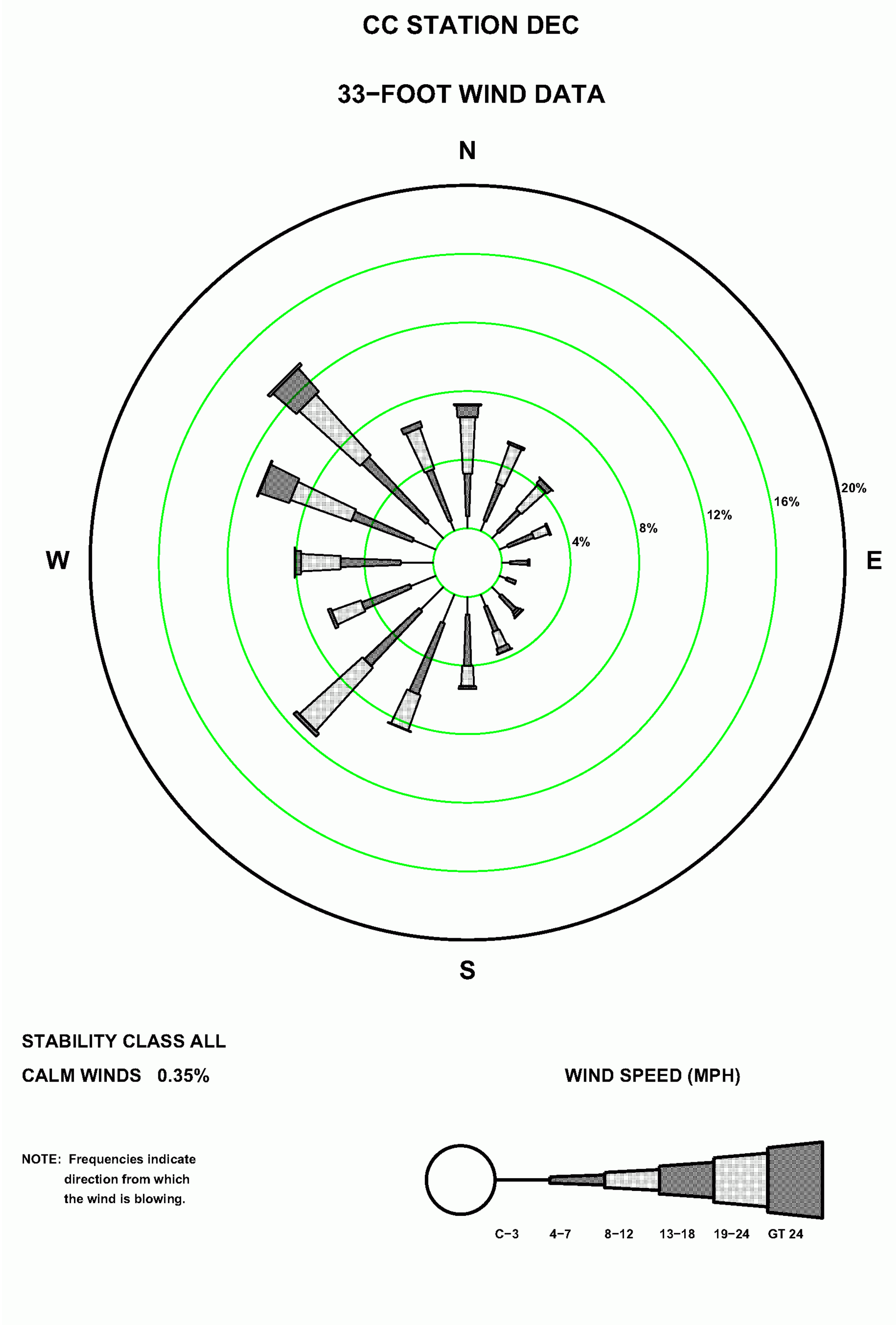


Figure 2.7-44— CCNPP 197 ft Annual Wind Rose

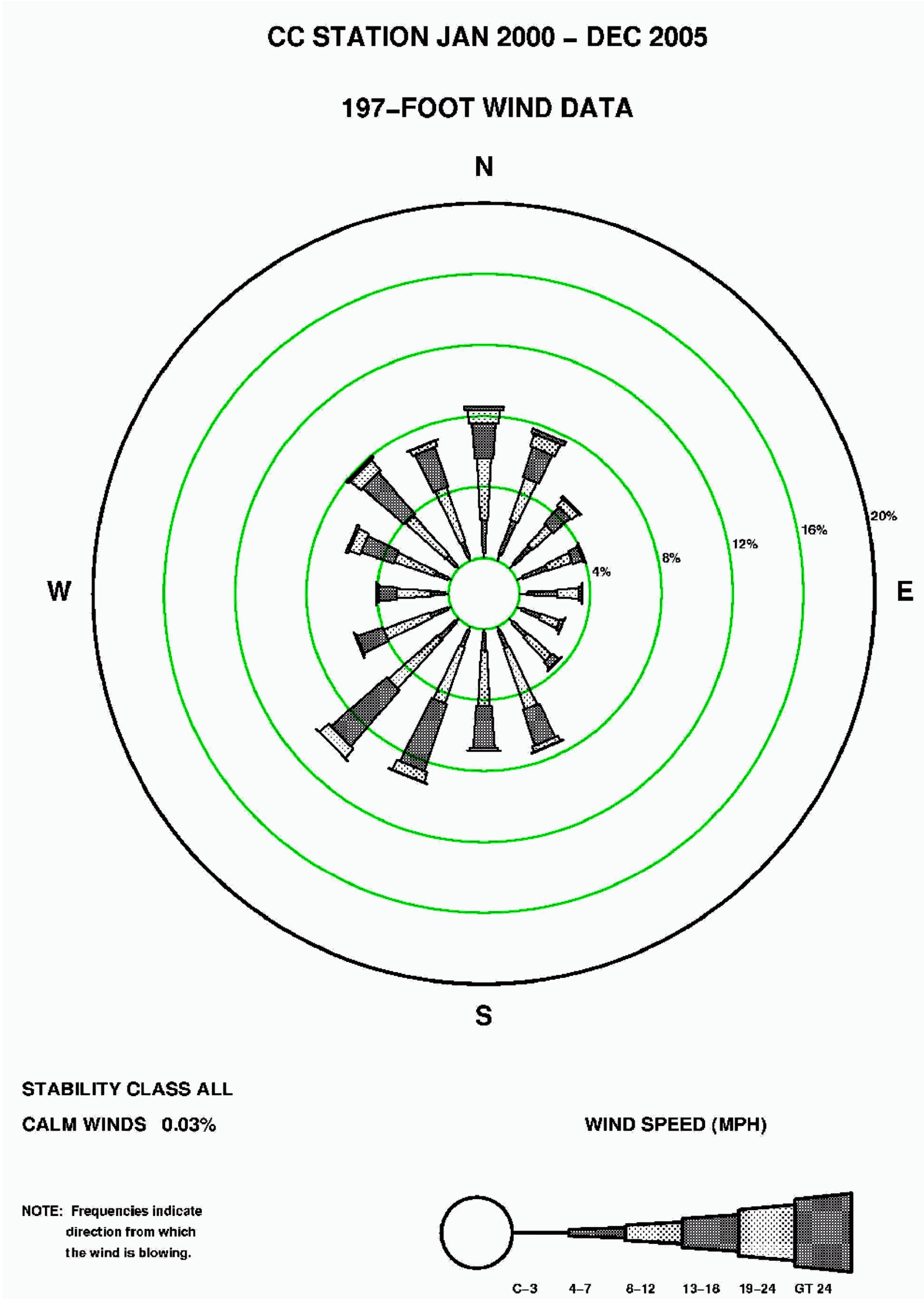


Figure 2.7-45— CCNPP 197 ft January Wind Rose

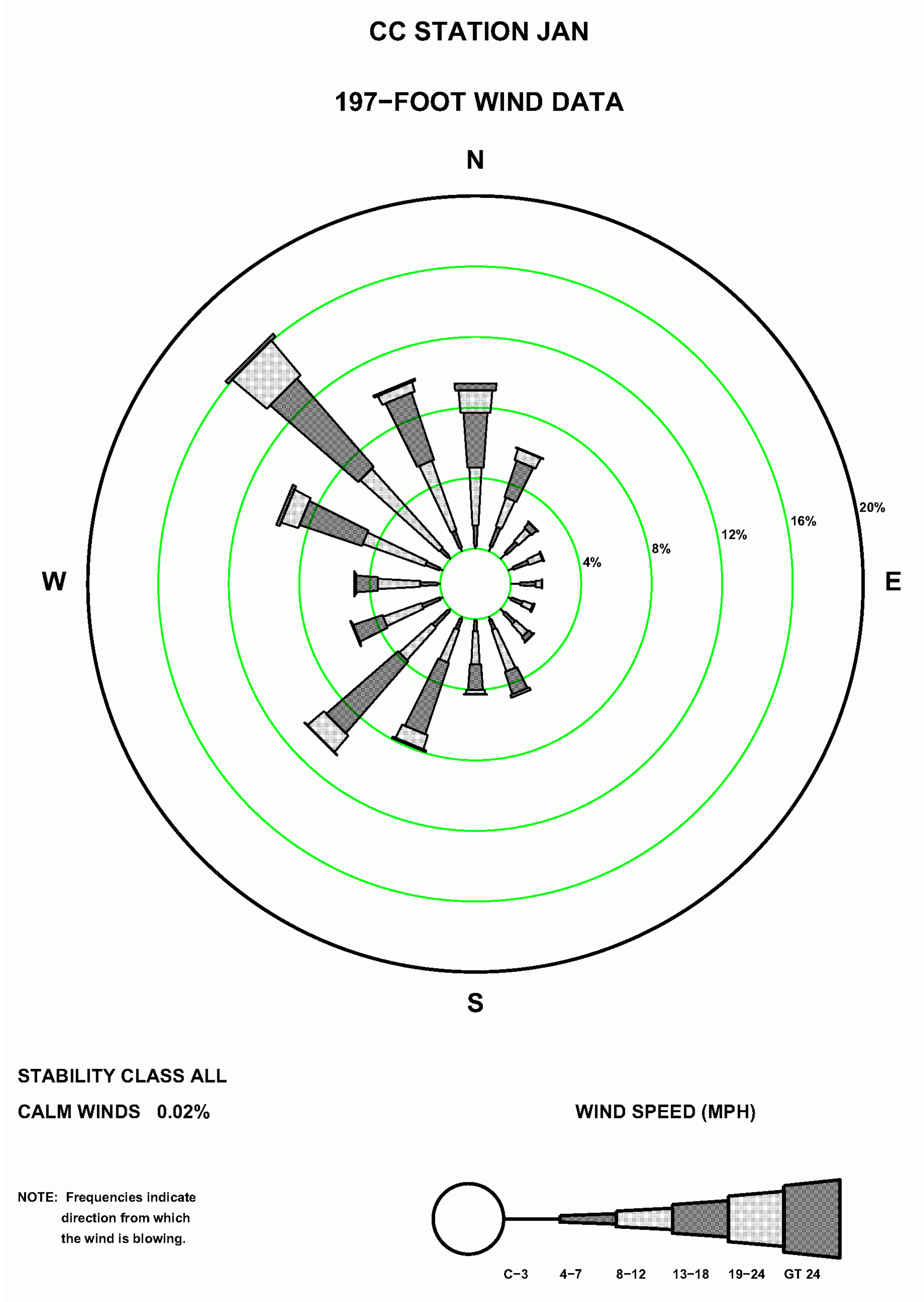


Figure 2.7-46— CCNPP 197 ft February Wind Rose

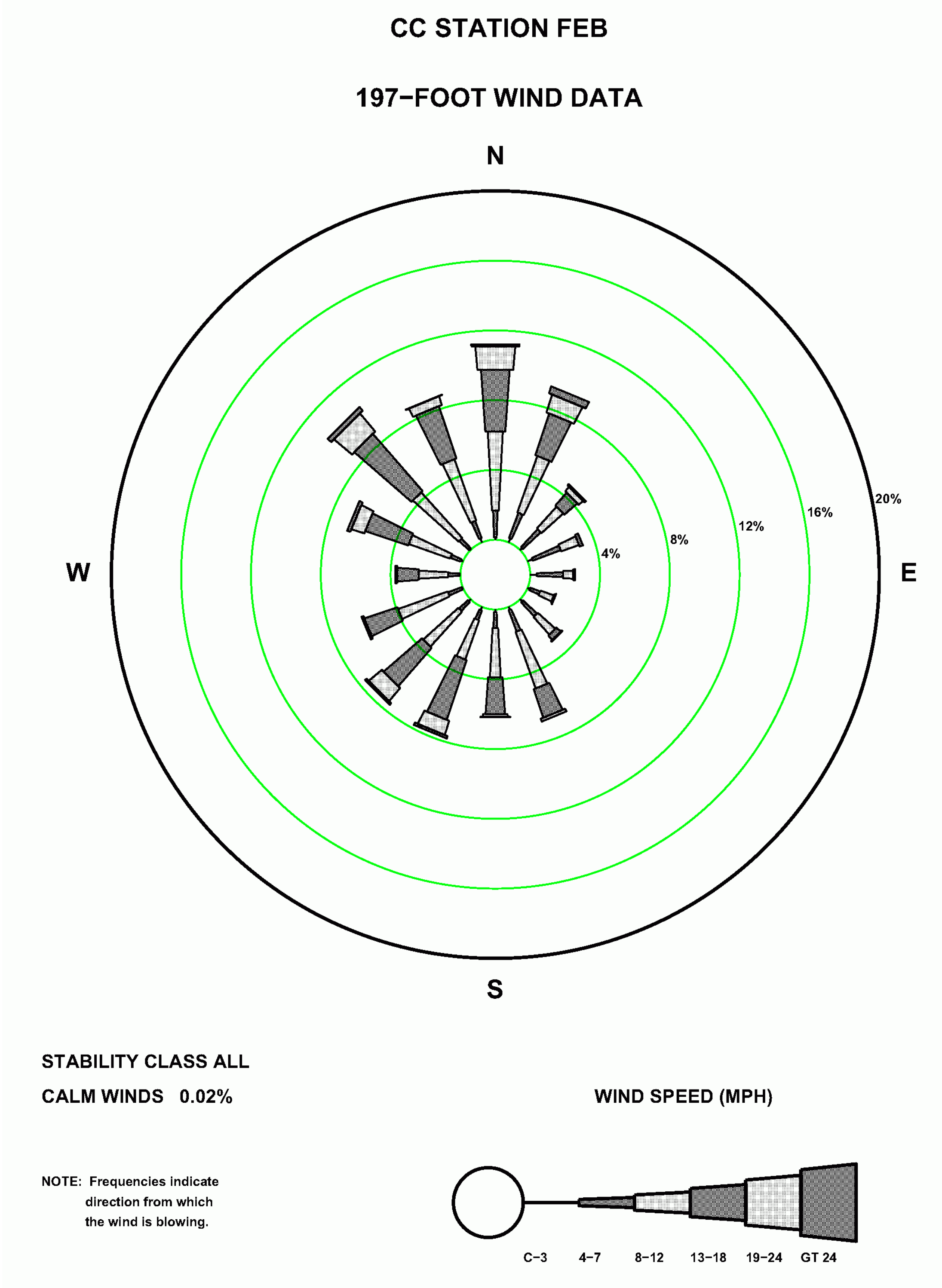


Figure 2.7-47— CCNPP 197 ft March Wind Rose

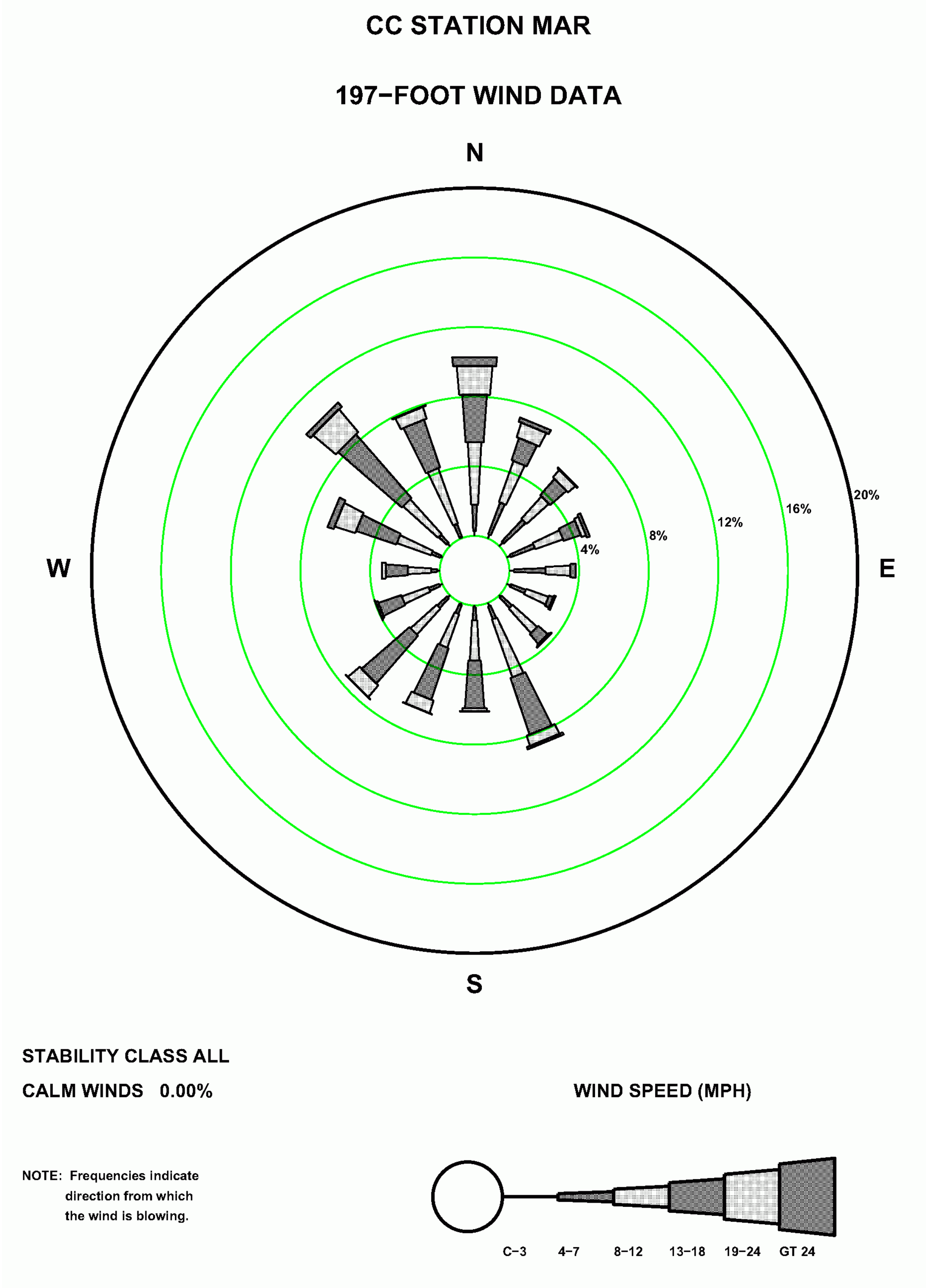


Figure 2.7-48— CCNPP 197 ft April Wind Rose

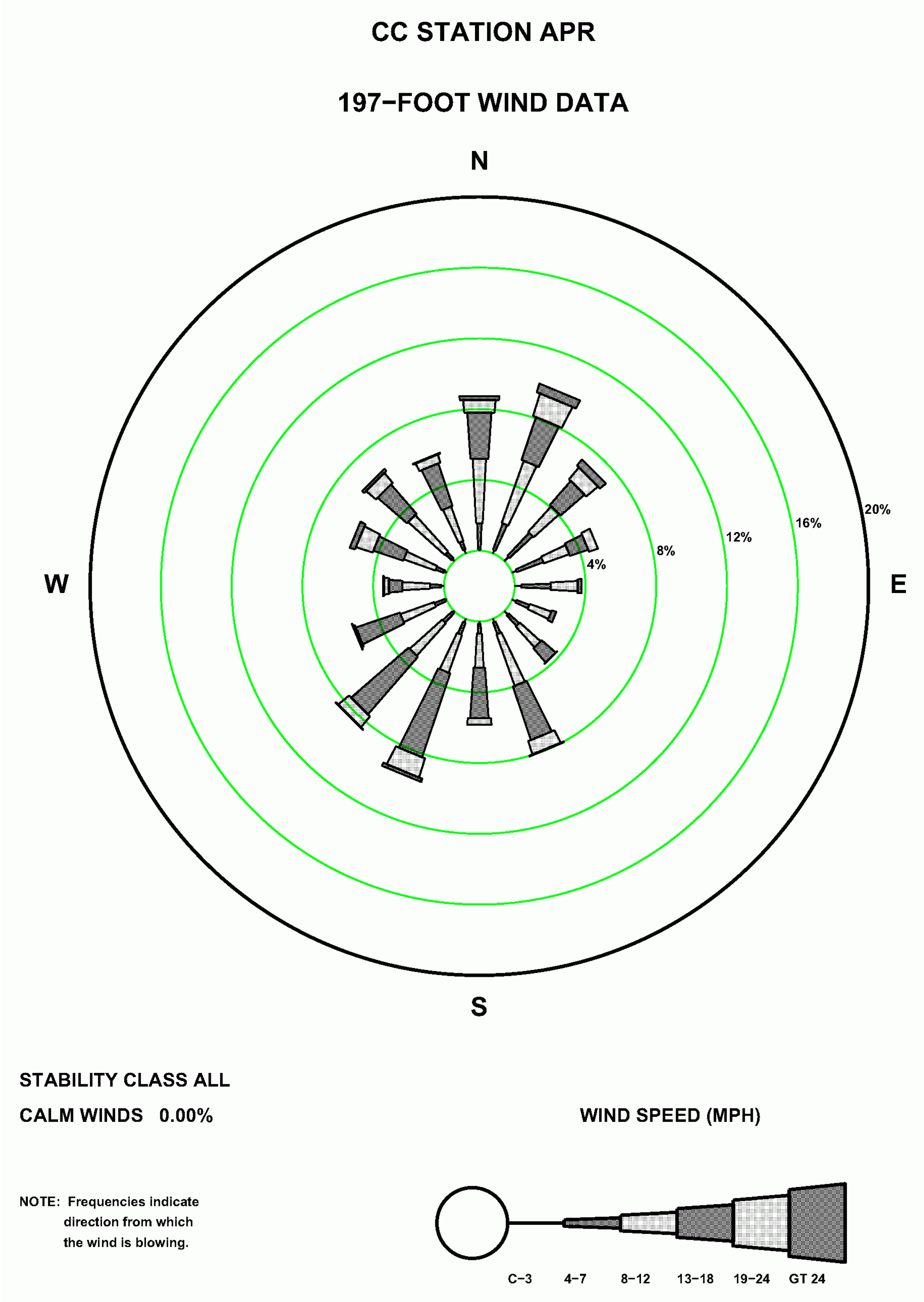


Figure 2.7-49— CCNPP 197 ft May Wind Rose

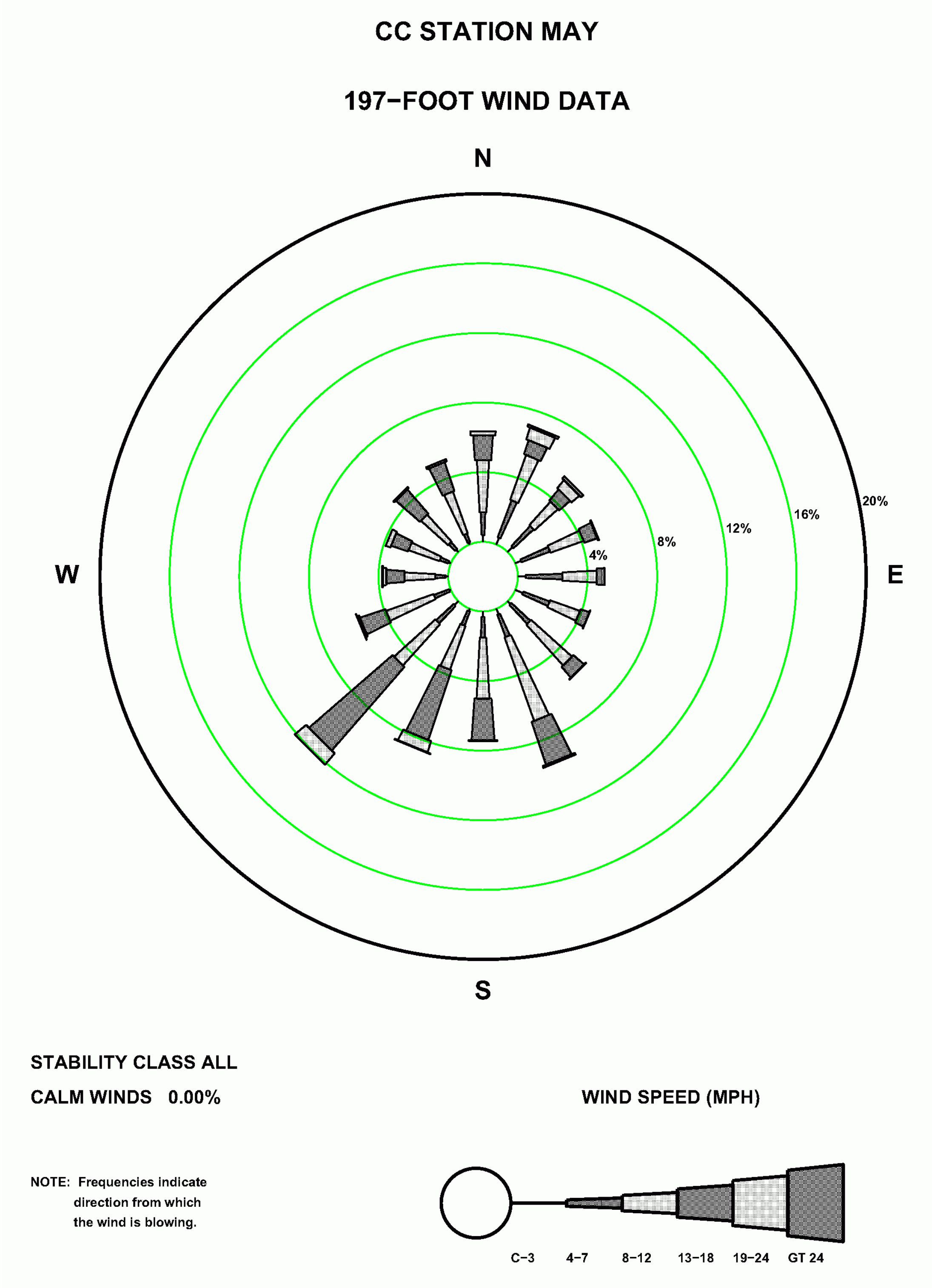


Figure 2.7-50— CCNPP 197 ft June Wind Rose

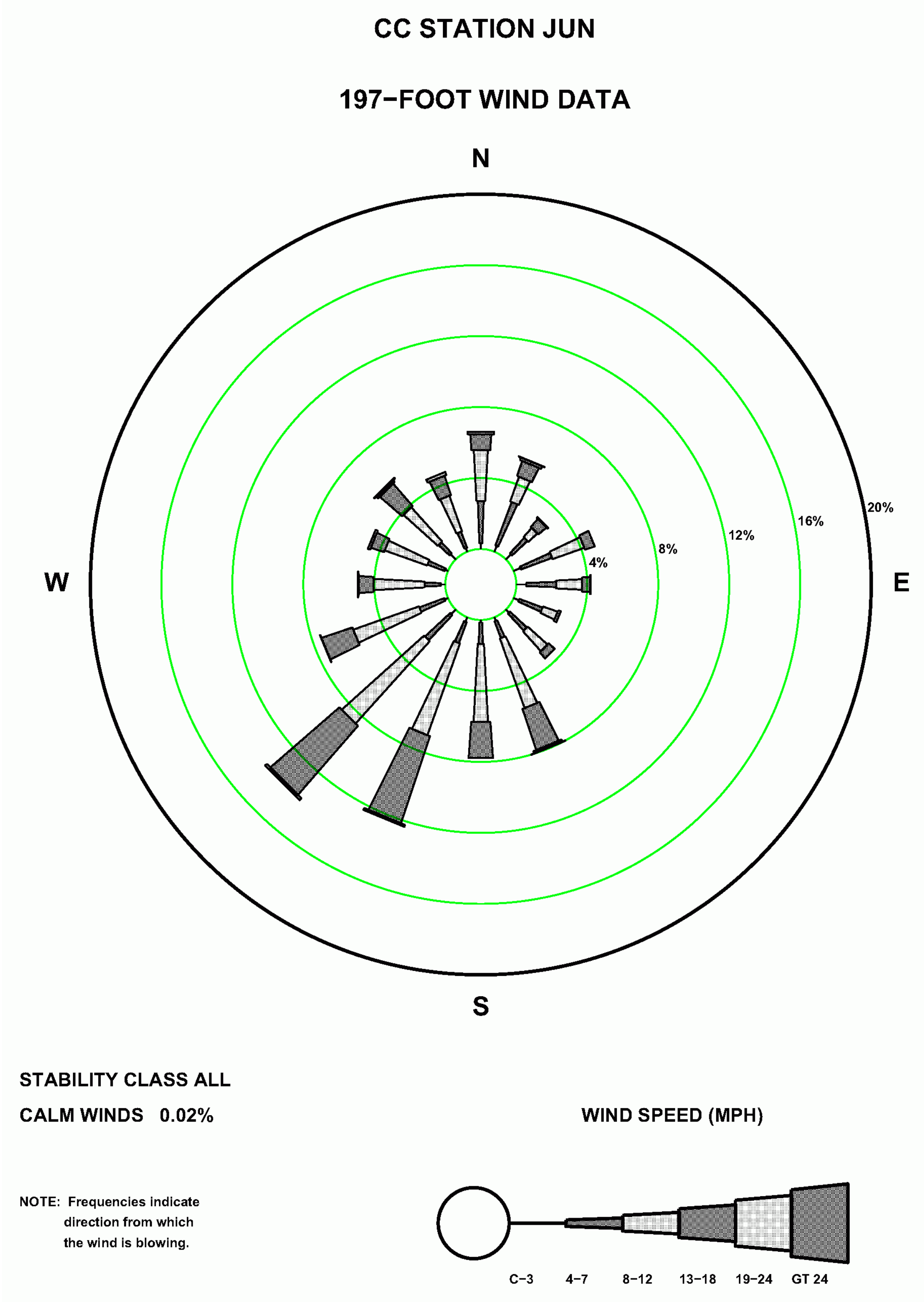


Figure 2.7-51— CCNPP 197 ft July Wind Rose

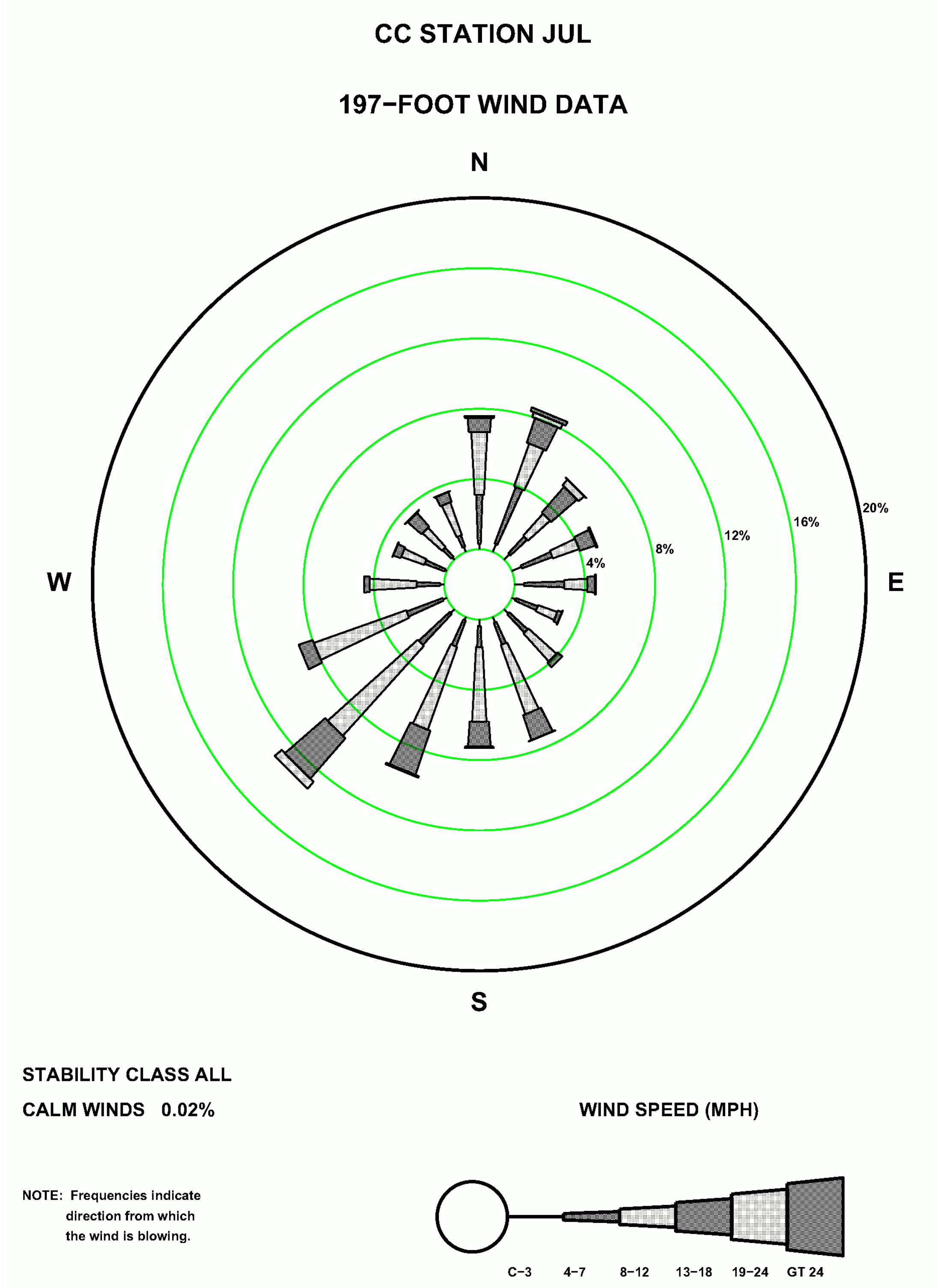


Figure 2.7-52— CCNPP 197 ft August Wind Rose

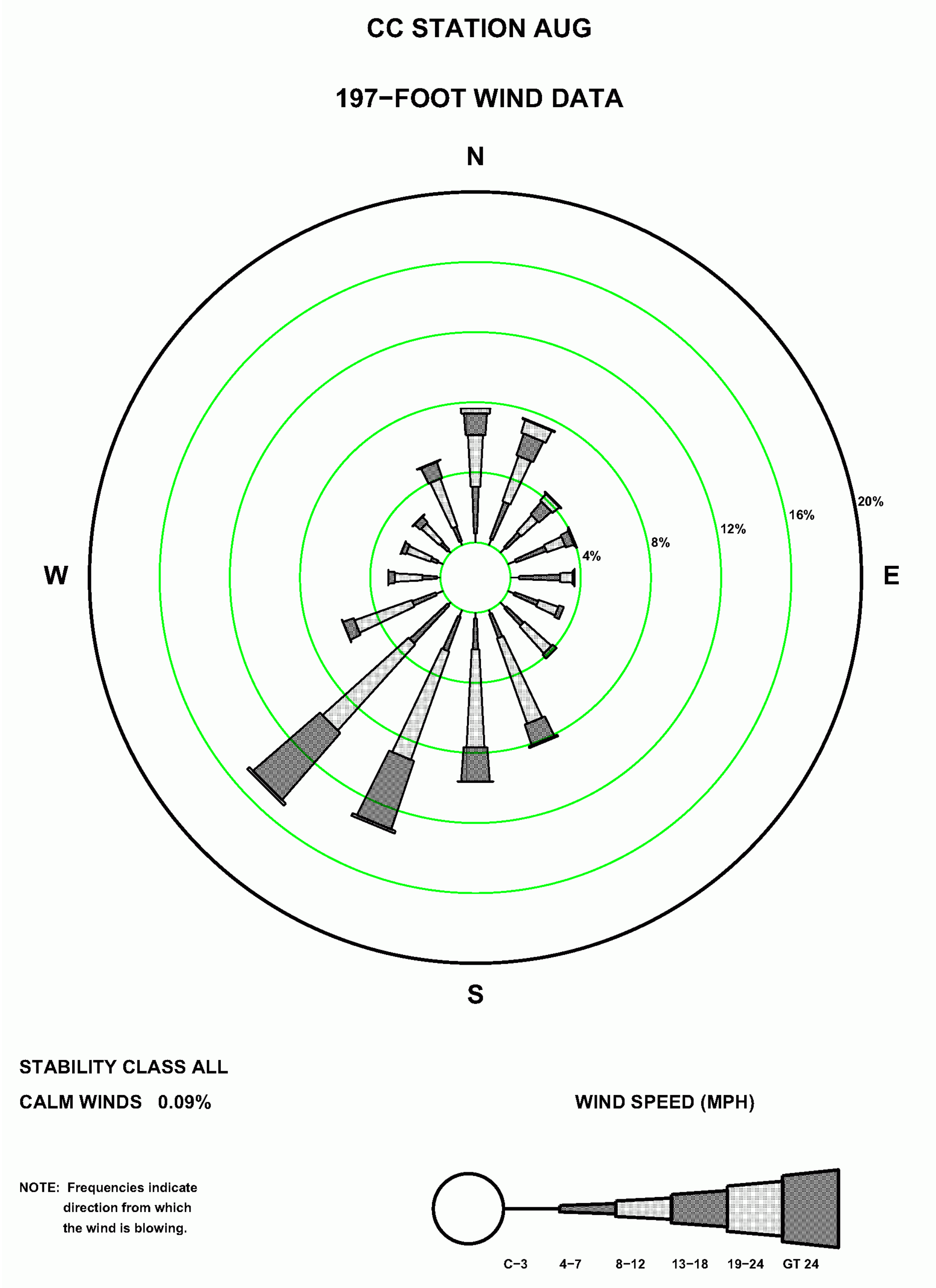


Figure 2.7-53— CCNPP 197 ft September Wind Rose

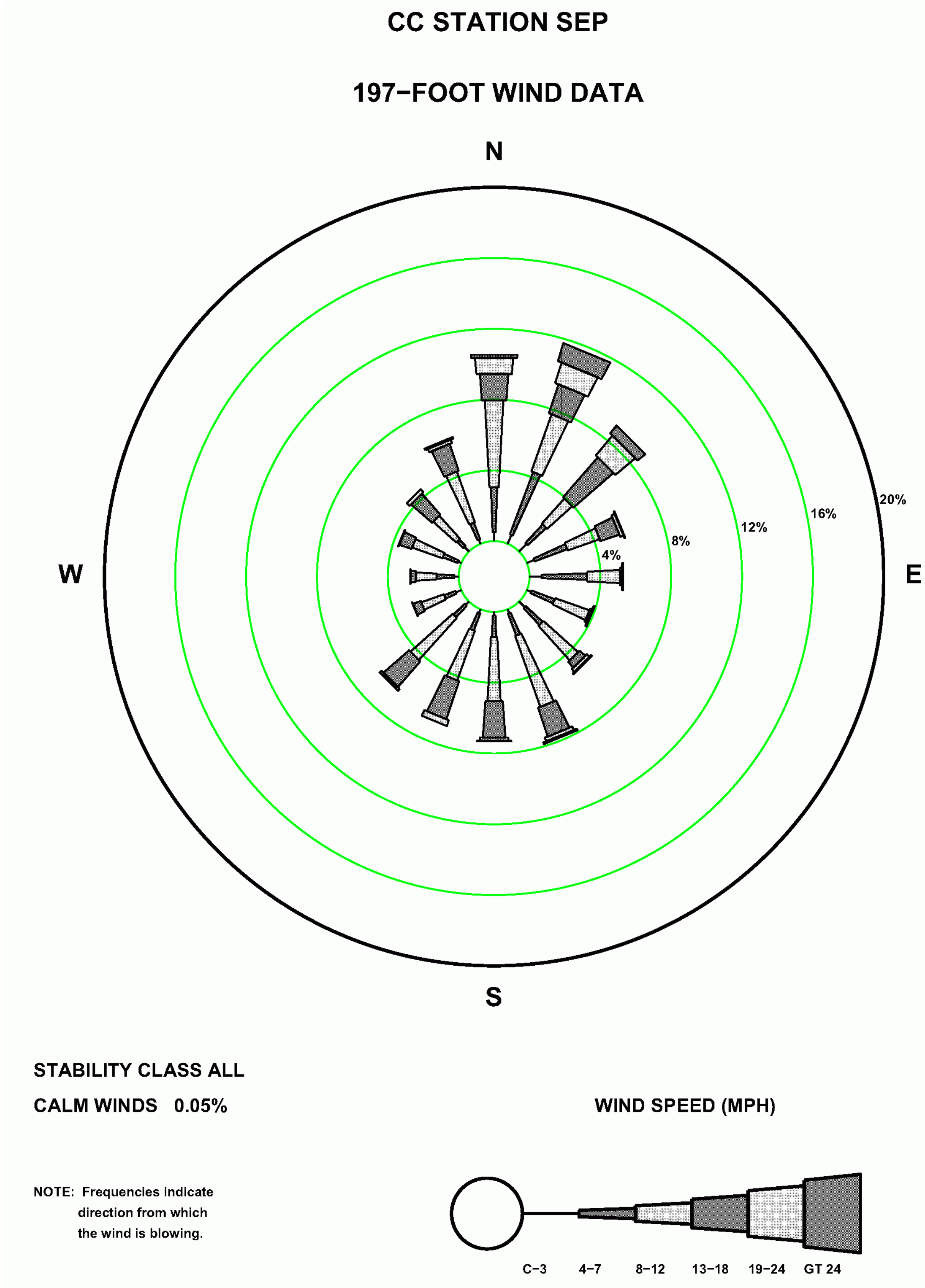


Figure 2.7-54— CCNPP 197 ft October Wind Rose

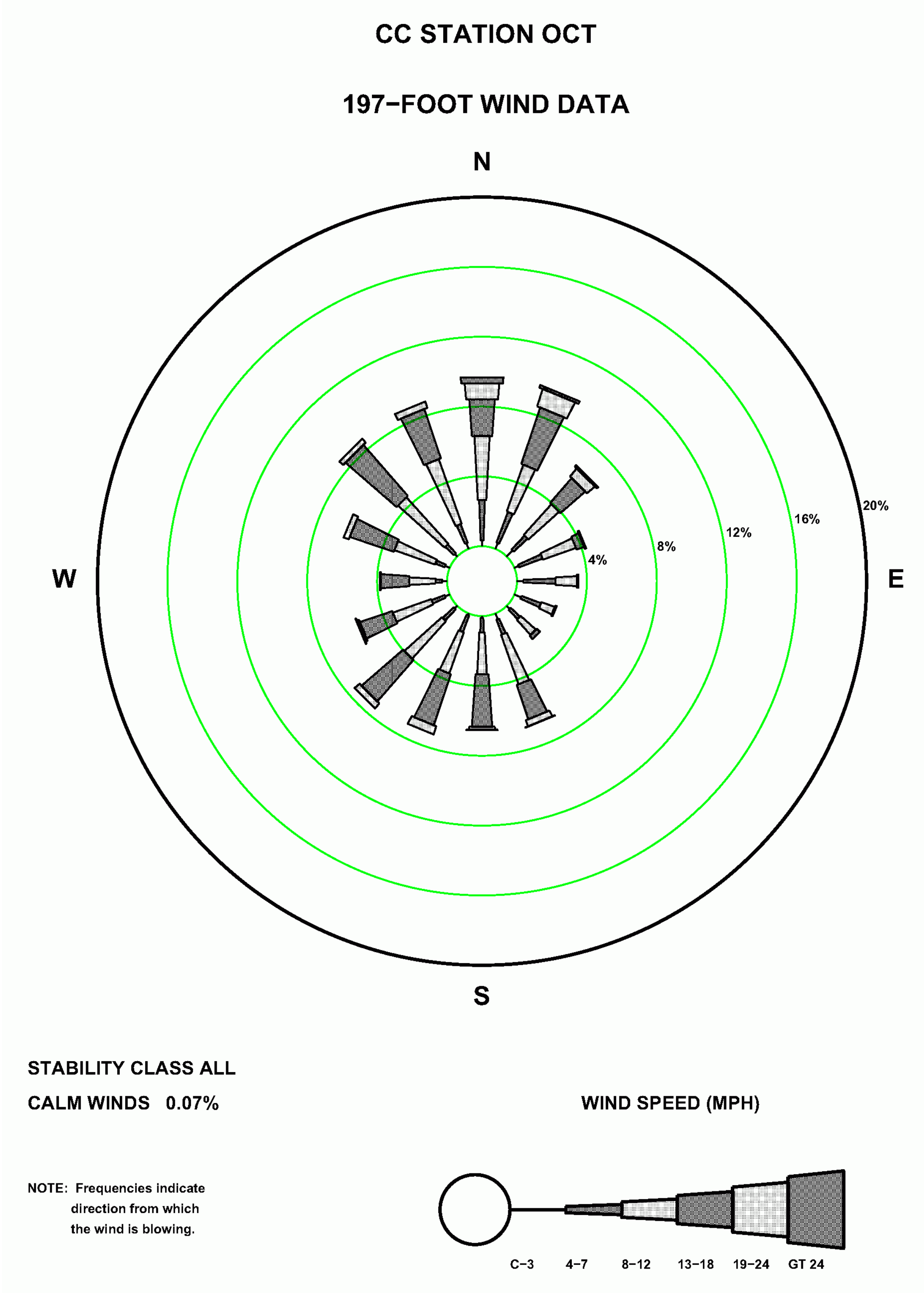


Figure 2.7-55— CCNPP 197 ft November Wind Rose

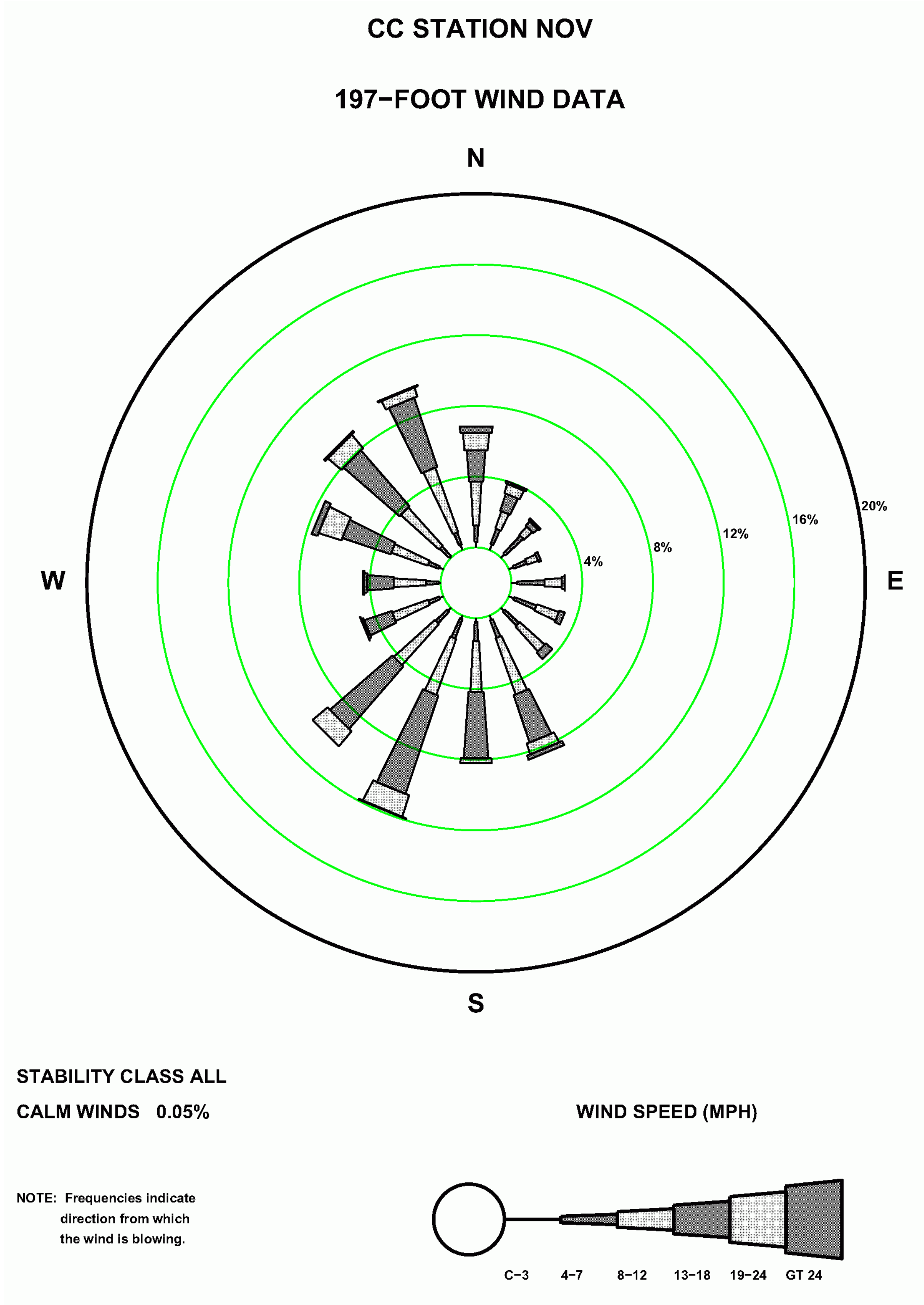


Figure 2.7-56— CCNPP 197 ft December Wind Rose

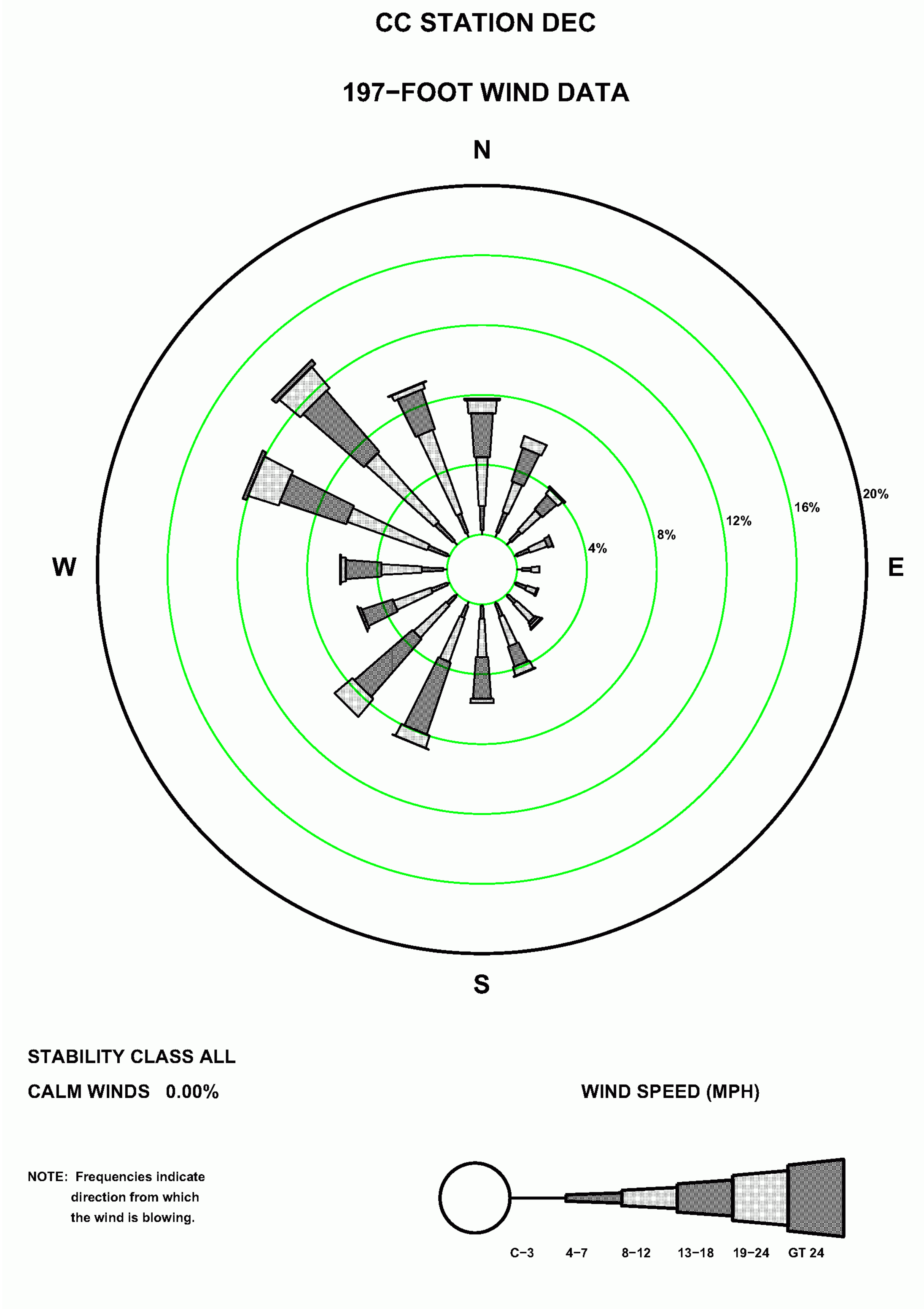
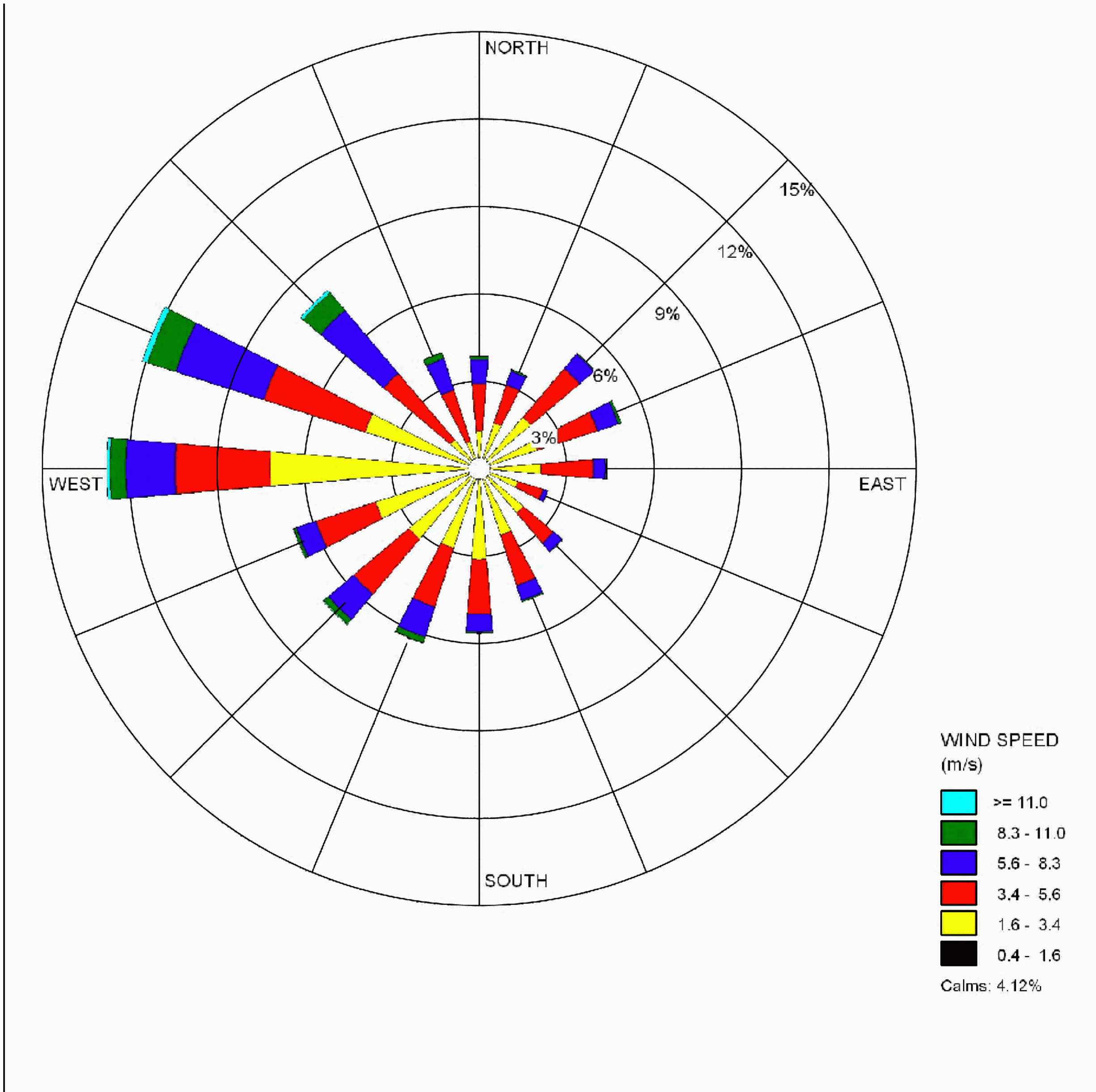
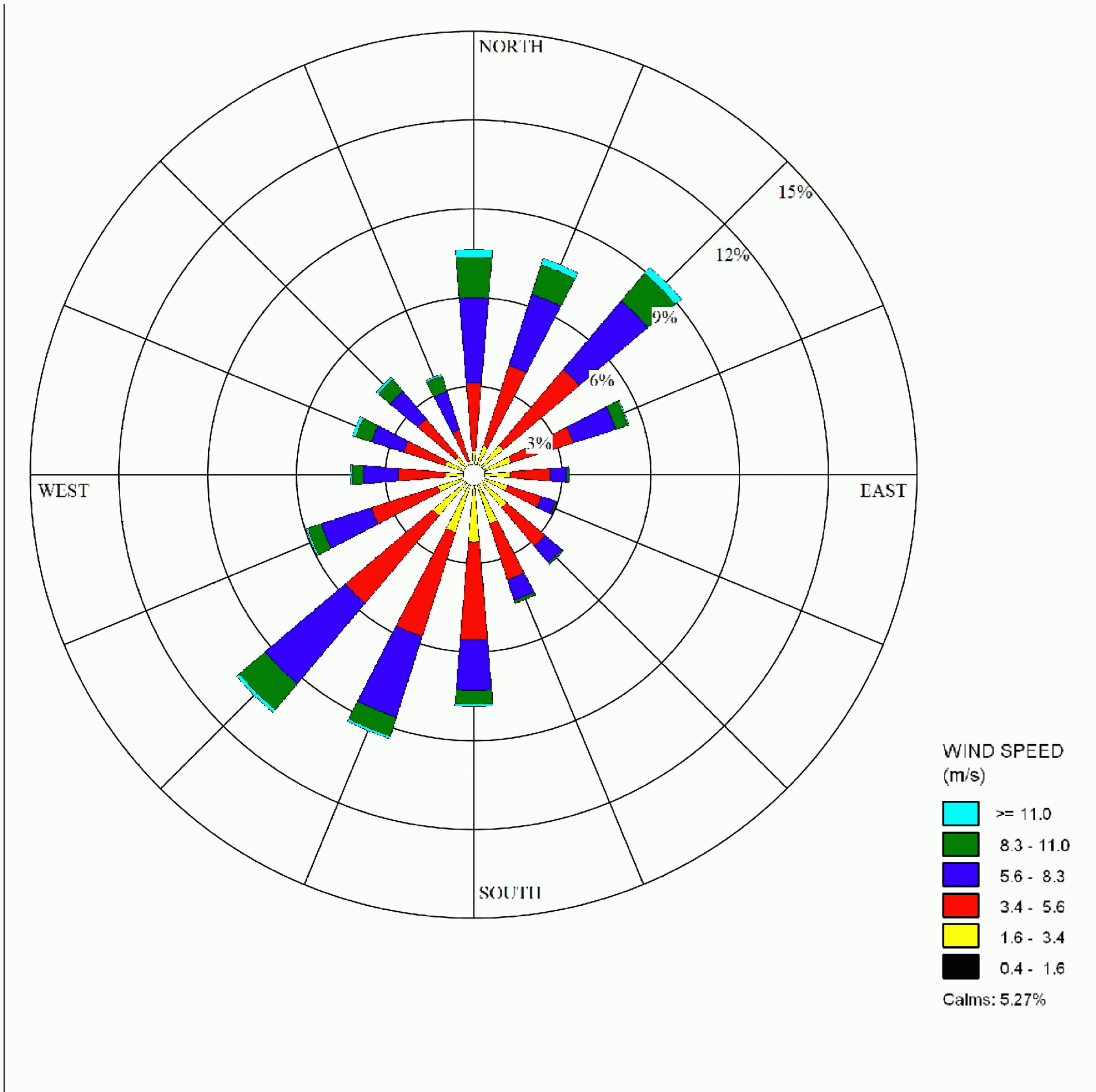


Figure 2.7-57— BWI Annual Wind Rose



DATA PERIOD: 1984,1985,1986,1987,1988,1990,1991,1992 Jan 1 - Dec 31 (00:00-23:00)	
CALM WINDS: 4.12 %	AVG. WIND SPEED: 3.92 m/s
TOTAL COUNT: 70152 hrs	DATE: 1/3/2007

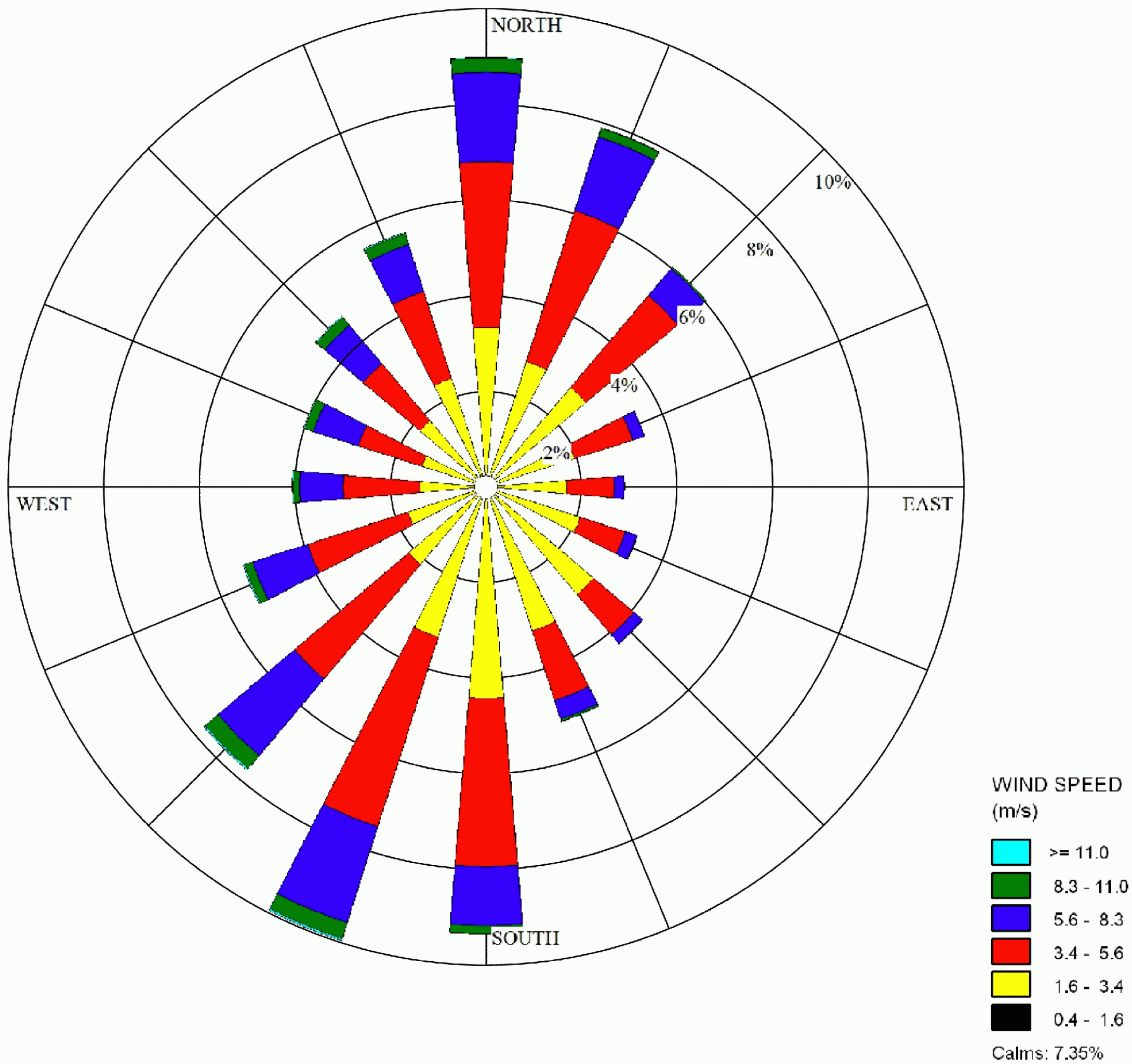
Figure 2.7-58— Norfolk Annual Wind Rose



DATA PERIOD:
1984,1985,1986,1987,1988,1989,1990,1991,1992
Jan 1 - Dec 31 (00:00-23:00)

CALM WINDS: 5.27 %	AVG. WIND SPEED: 4.92 m/s
TOTAL COUNT: 78912 hrs	DATE: 11/30/2006

Figure 2.7-59— Richmond Annual Wind Rose



DATA PERIOD: 1984,1985,1986,1987,1988,1989,1990,1991,1992 Jan 1 - Dec 31 (00:00-23:00)	
CALM WINDS: 7.35 %	AVG. WIND SPEED: 3.70 m/s
TOTAL COUNT: 78912 hrs	DATE: 11/30/2006

Figure 2.7-60— Maximum Terrain Heights 0-5 Miles Downwind of CCNPP by Compass Sector

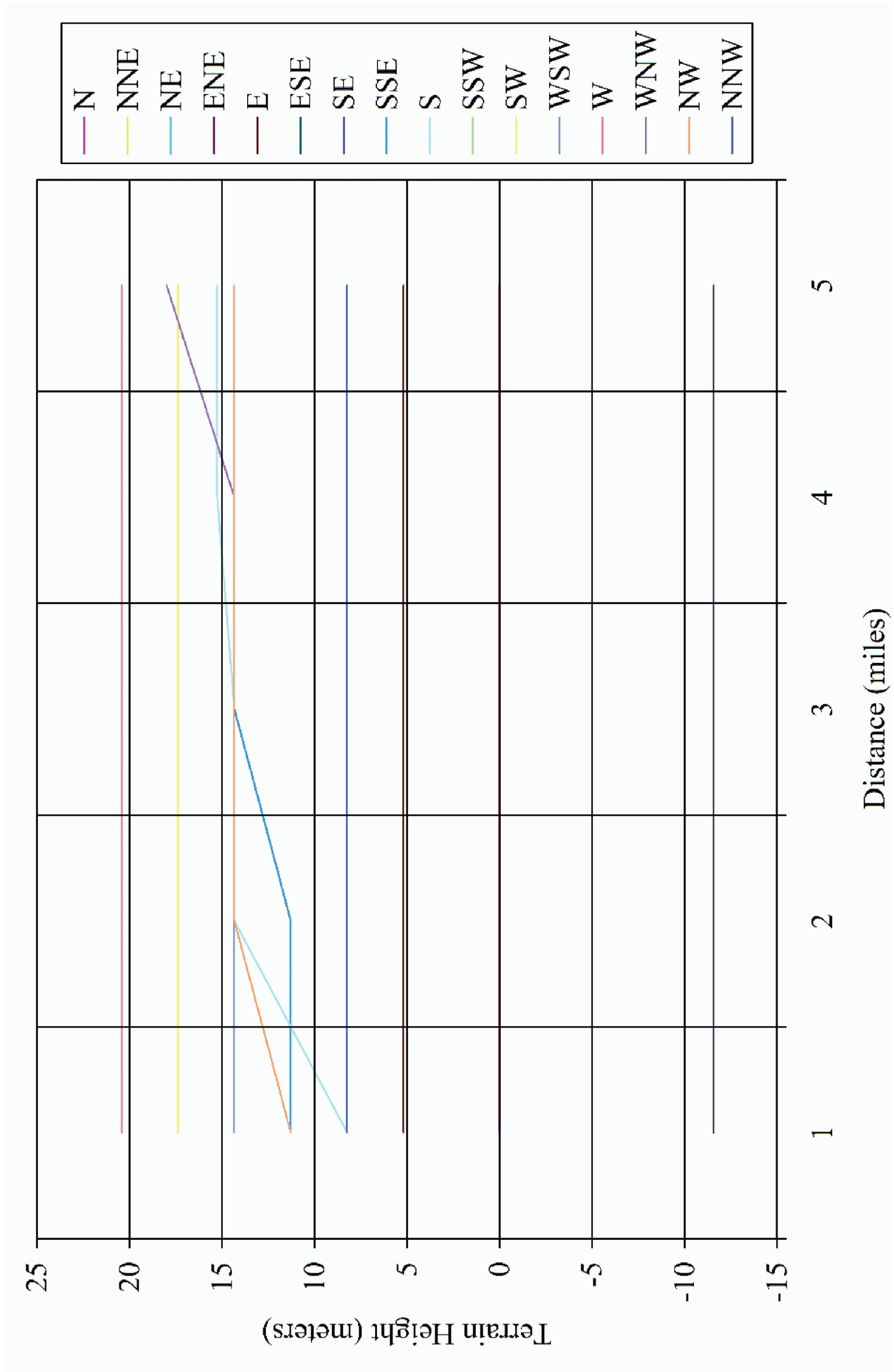


Figure 2.7-61— Maximum Terrain Heights 0-50 Miles Downwind of CCNPP by Compass Sector

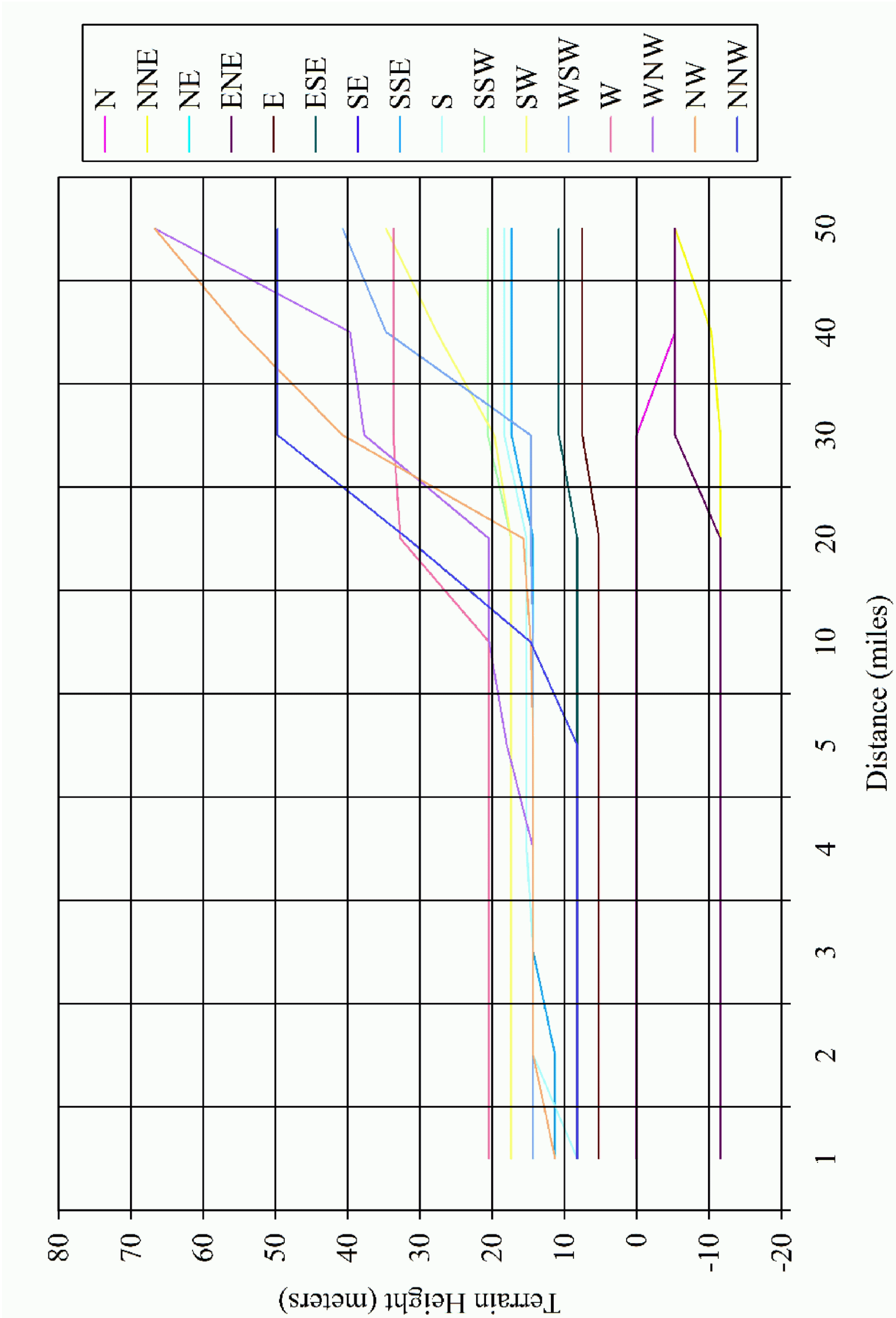
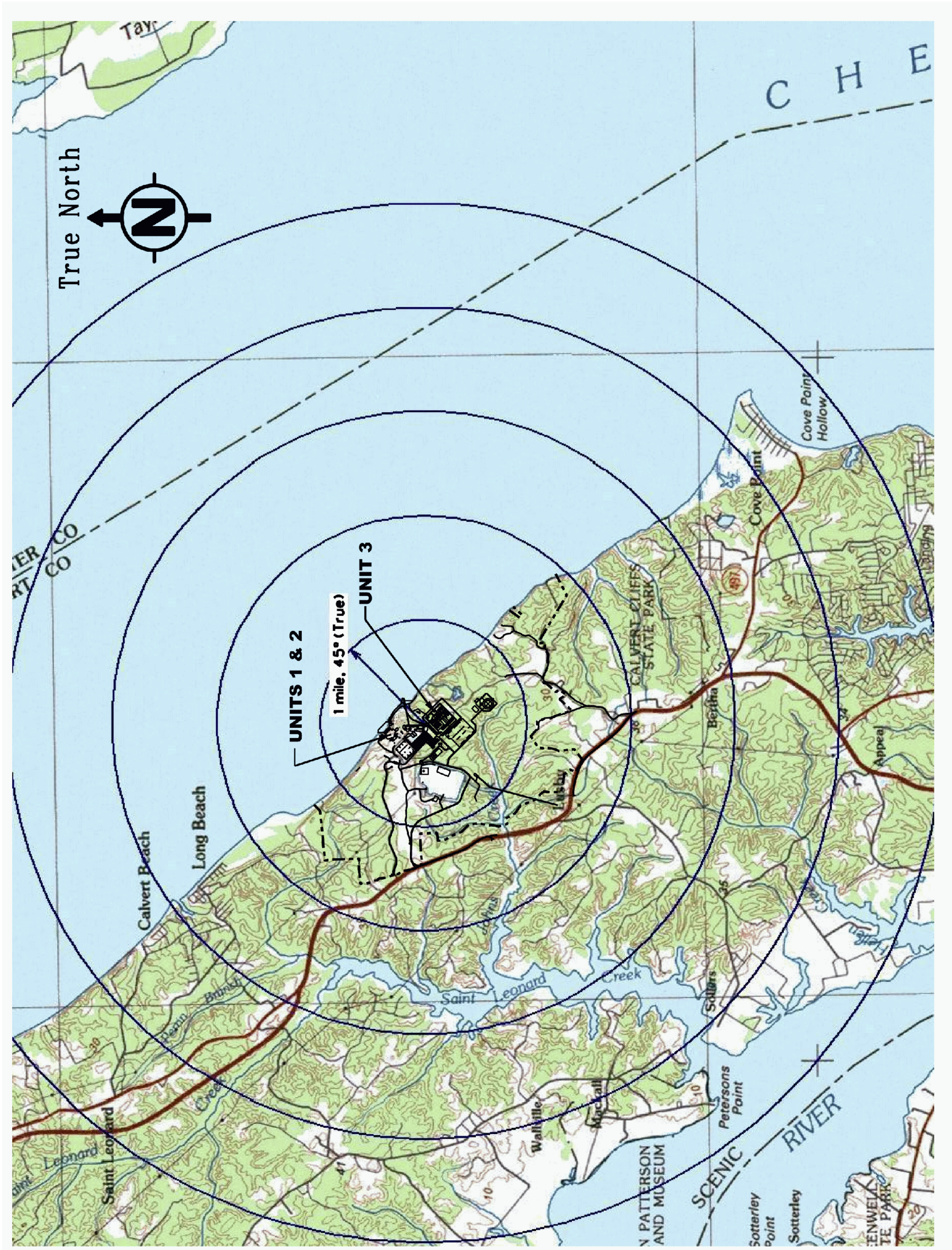


Figure 2.7-62— Detailed Topography Within 5 mi (8-km)



See Figure 2.1-1 and Figure 3.1-2 for Site and Powerblock layout

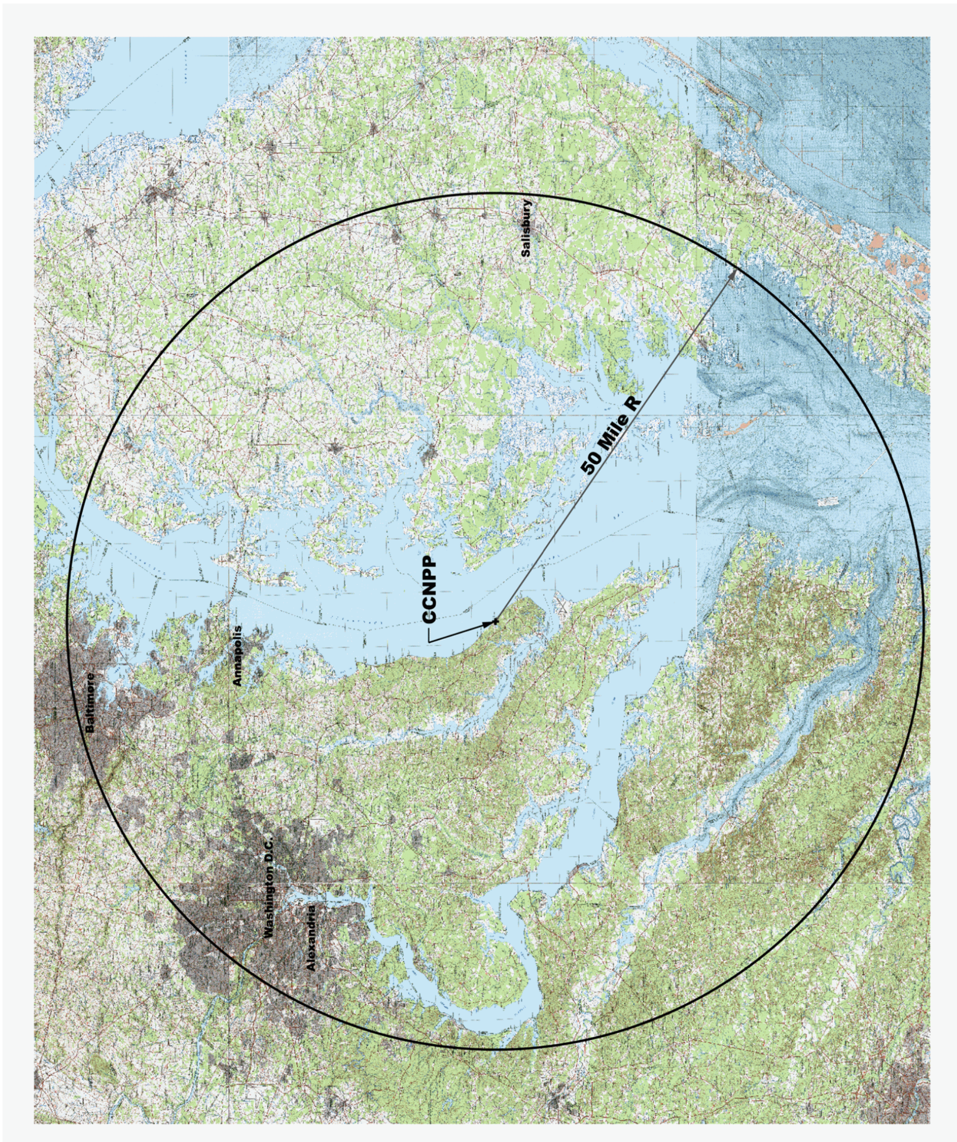
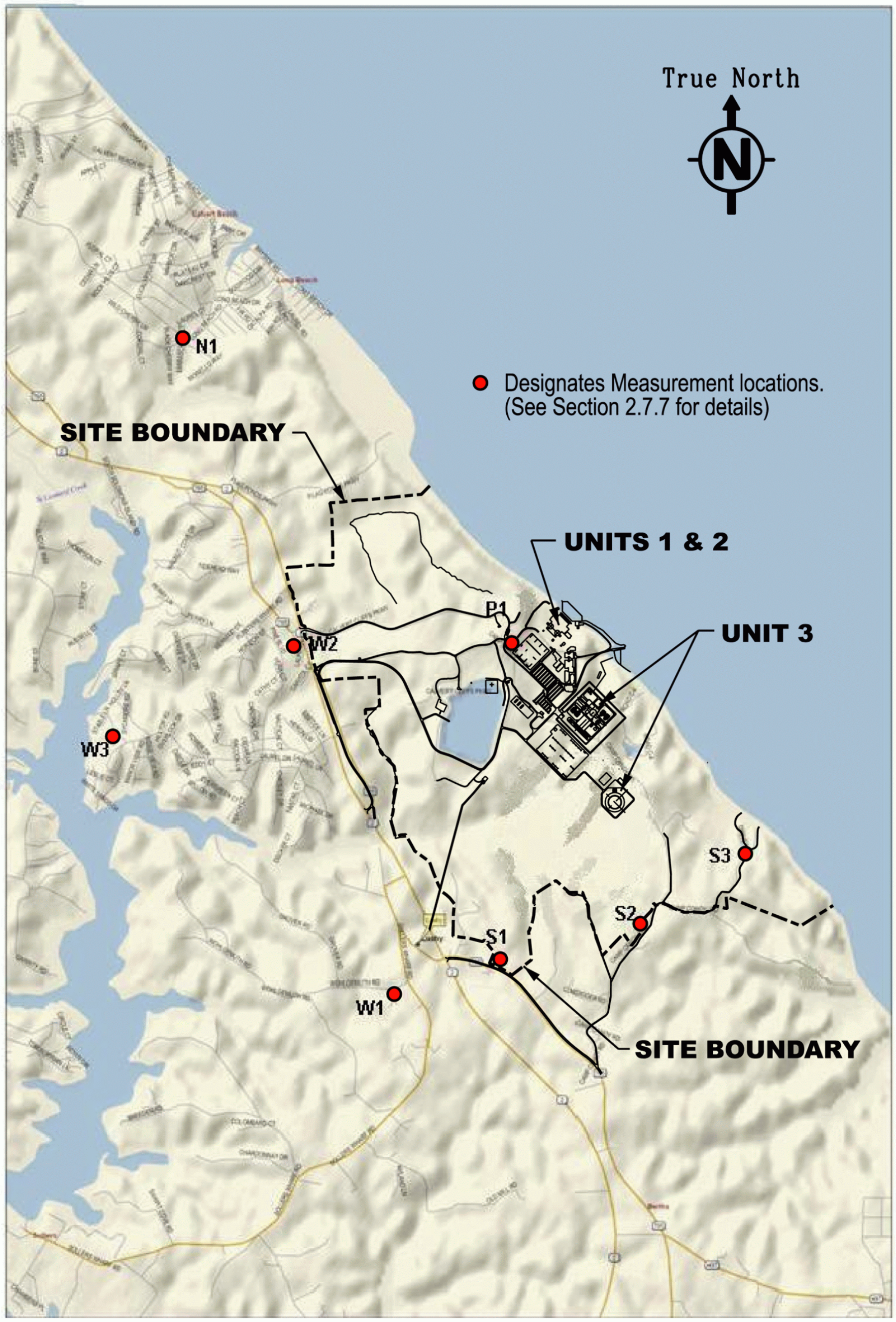


Figure 2.7-63— Topography Within 50 mi (80 km)

Figure 2.7-64— Baseline Sound Survey Measurement Locations



See Figure 2.1-1 and Figure 3.1-2 for Site and Powerblock layout

Figure 2.7-65— Measured Hourly Residual (L90) Sound Levels at Potentially Sensitive Receptors

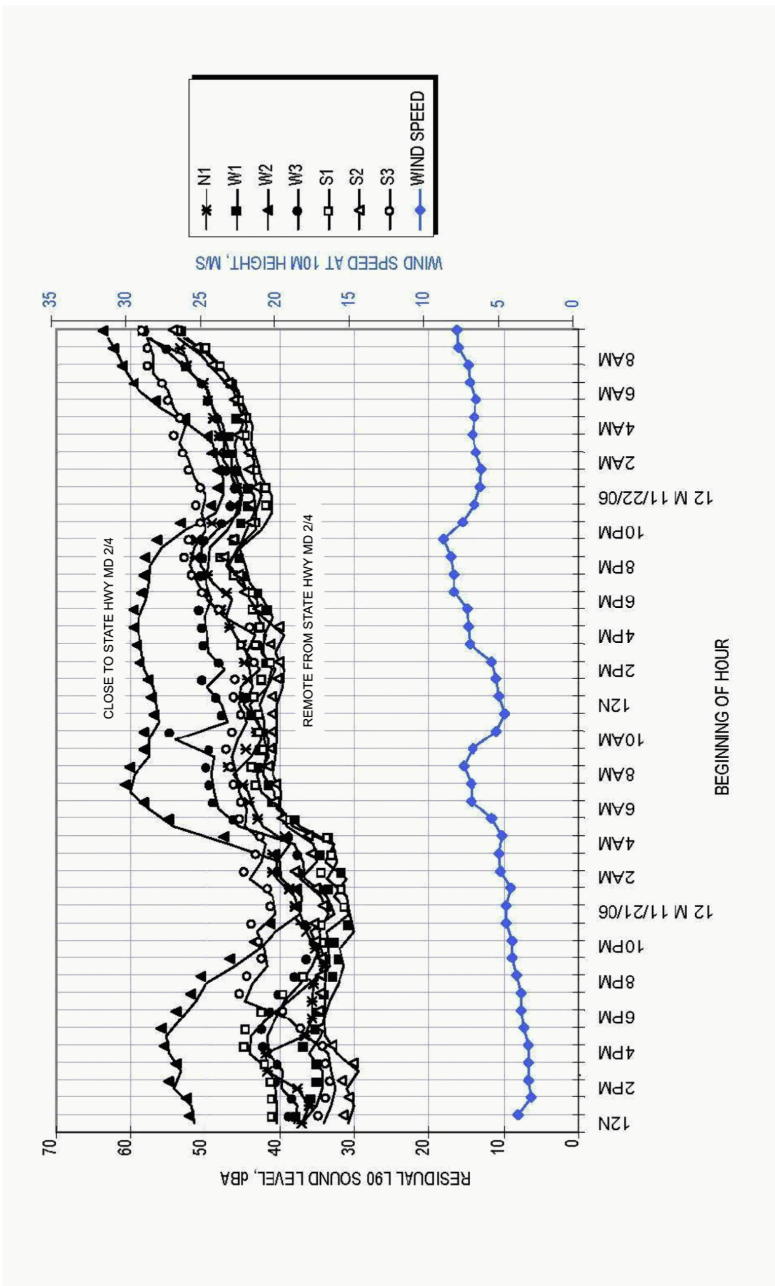
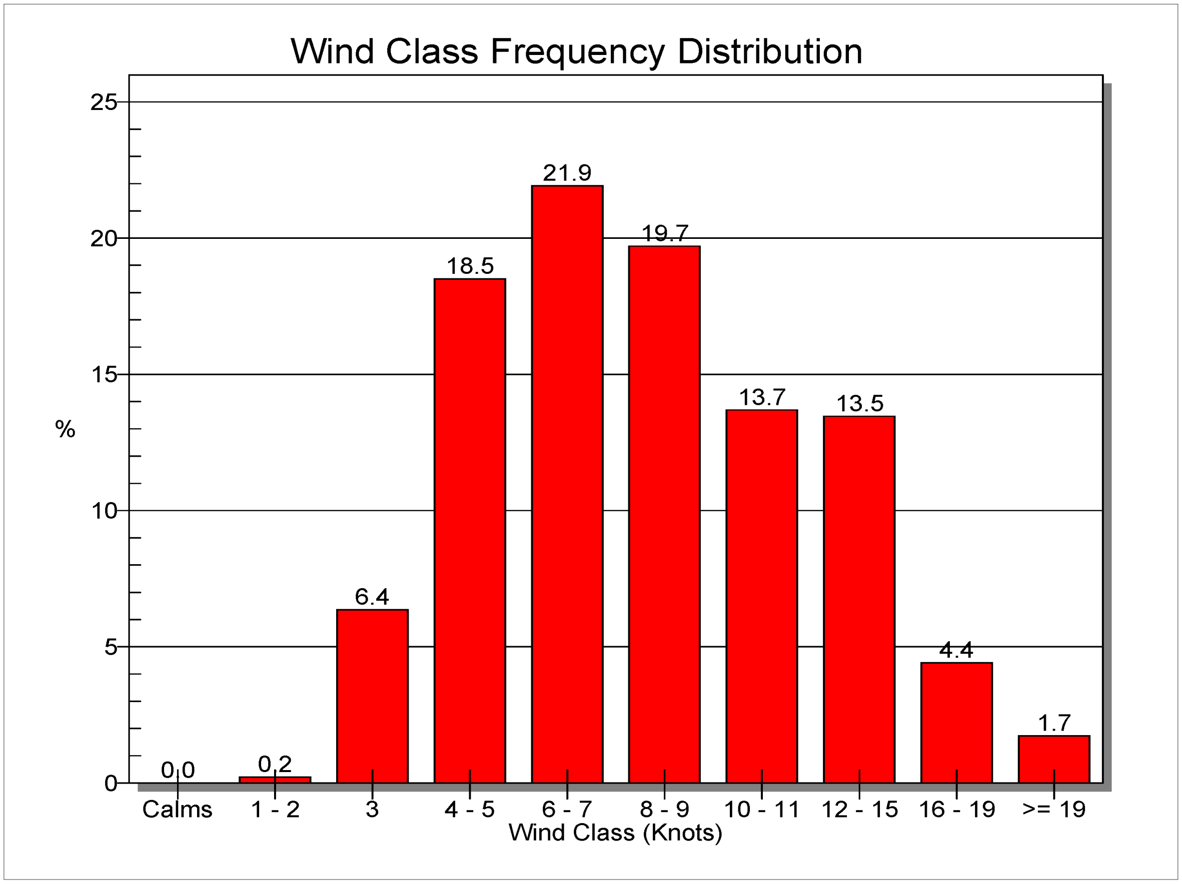


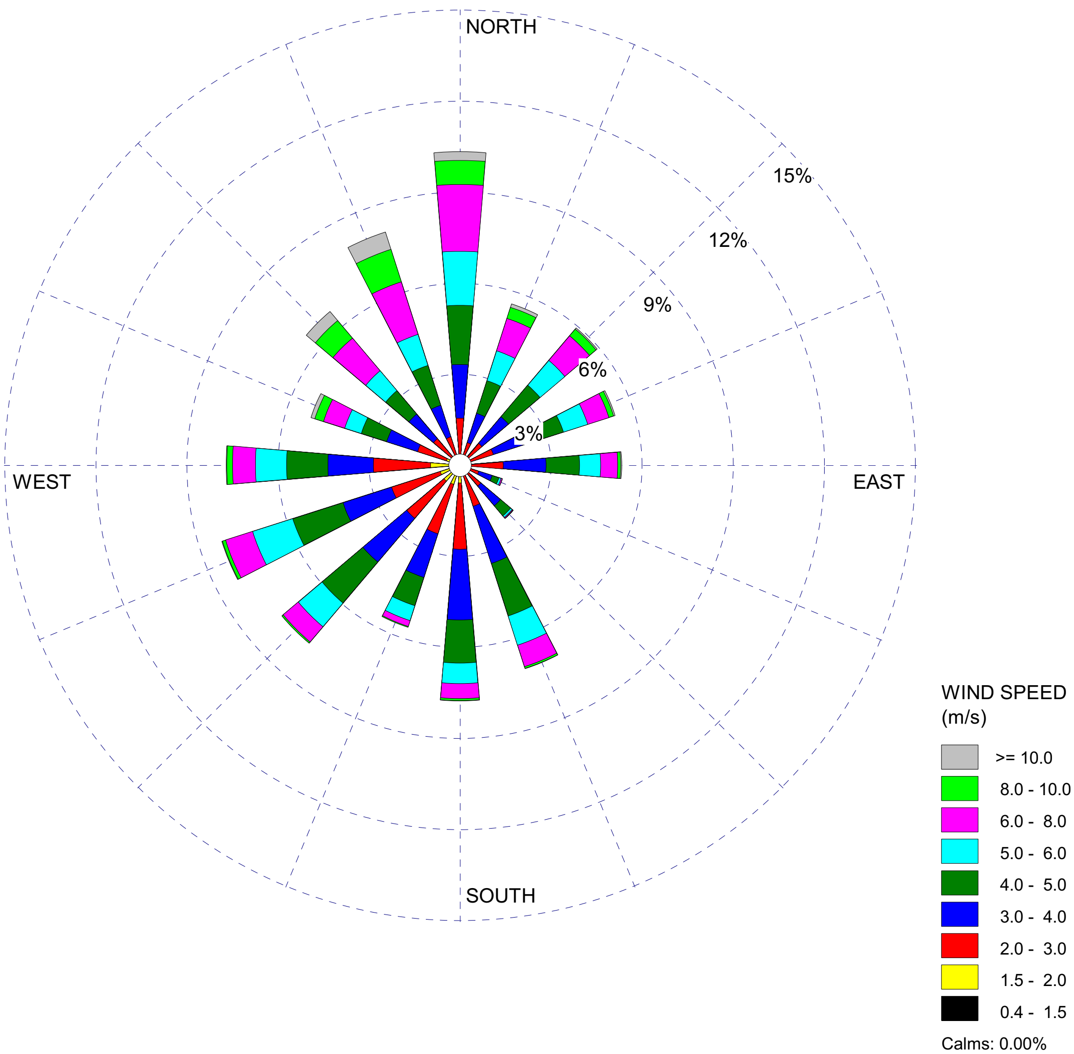
Figure 2.7-66— Patuxent River NAS Wind Speed Class Frequency Distribution



WRPLOT View - Lakes Environmental Software

Figure 2.7-67— Patuxent River NAS Annual Wind Rose

WIND ROSE PLOT:	DISPLAY:
Station #13721	**Wind Speed** **Direction (blowing from)**



DATA PERIOD:	COMPANY NAME:
2000 2001 2002 2003 2004 2005 **Jan 1 - Dec 31** **00:00 - 23:00**	**AREVA NP**
CALM WINDS: **0.00%**	TOTAL COUNT: **40292 hrs.**
AVG. WIND SPEED: **4.36 m/s**	DATE: **8/12/2008**

WRPLOT View - Lakes Environmental Software

2.8 RELATED FEDERAL PROJECT ACTIVITIES

This section discusses the Federal activities that are related to this project and identifies whether there is a need for another Federal agency to participate in the review of the environmental report. Actions related to the granting of licenses, permits, or approvals by other Federal agencies for this project are not discussed in this section.

The project consists of one new nuclear generating plant being co-located with two other currently licensed nuclear generating plants on the Calvert Cliffs Nuclear Power Plant (CCNPP) site. UniStar Nuclear Operating Services, LLC and Calvert Cliffs 3 Nuclear Project, LLC are applying for a Combined License (i.e., COL) for the proposed nuclear power plant. The owner of the plant is Calvert Cliffs 3 Nuclear Project, LLC.

2.8.1 Land Acquisition and Use of Electrical Transmission Corridors

Constellation Energy Group, through its subsidiaries, is a major generator of electic power and a leading supplier of competitive electricity, with a power generation portfolio of over 8,700 megawatts. The output of Constellation Energy Group's plants is sold by constellation Energy Group's commodities business, Constellation Energy Commodities Group, Inc., to many of the nation's leading distribution utilities, energy companies, and cooperatives.

Calvert Cliffs 3 Nuclear Project, LLC is the owner of the site on which CCNPP, Unit 3 will be constructed. This property is directly adjacent to and was formerly part of the site of CCNPP, Unit 1 and 2. Therefore, no Federal action is required to acquire the proposed site.

The net electric generation of the proposed project is to be distributed using the existing offsite transmission corridors to the Chalk Point and Waugh Chapel substations. No new transmission line corridors from the site to the existing transmission system are required. Therefore, no Federal action is required to acquire or use the existing offsite transmission corridors.

2.8.2 Cooling Water Source and Supply

The project utilizes one cooling tower with makeup cooling water drawn from Chesapeake Bay for normal operations. Water is also drawn from the Chesapeake Bay to run the desalination plant which supplies water to the plant makeup systems, the potable and sanitary water system and the fire water distribution system.

The State of Maryland is a party to the Chesapeake 2000 Agreement (MDNR, 2000) designed to restore water quality in the bay and has enacted laws and developed regulations that address Chesapeake Bay restoration. By this agreement, the State of Maryland together with the Commonwealth of Virginia, the Commonwealth of Pennsylvania, the District of Columbia, the U.S. Environmental Protection Agency and the Chesapeake Bay Commission, pledged to achieve over 100 specific actions designed to restore the health of the Chesapeake Bay and its living resources.

Cumulative impacts to the Chesapeake Bay and associated natural resources are addressed in Chapter 10.

Although the U.S. Environmental Protection Agency is involved in the Chesapeake 2000 Agreement, Federal action to ensure the availability of cooling water source and supply is not anticipated during the lifetime of the proposed project.

2.8.3 Other Federal Actions Affecting Construction or Operation

No Federal projects or activities were identified that must be completed as a condition of plant construction or operation.

2.8.4 Federal Agency Plans Used to Justify the Need for Power

The need for the power generated by the proposed project has not been justified based on plans or commitments of any Federal agency for significant new power purchases.

2.8.5 Planned Federal Projects Contingent on Plant Construction or Operation

No planned Federal projects have been identified that are contingent upon construction and operation of the proposed project.

2.8.6 Non-federal Potential Impacts

The following planned non-Federal projects and activities in the region around the proposed project that may contribute to cumulative impacts in the areas of water consumption, water quality, air quality, transportation infrastructure, or socioeconomic resources are as follows:

- Addition of two combustion turbine generating units at Power Plant No., 2, Town of Easton, Maryland (EU, 2002);
- Addition of four combustion turbine generating units at the Chalk Point Generating Station adjacent to the Chalk Point Substation near Eagle Harbor, Maryland (Mirant, 2002); and
- Expansion of storage and output capacity of the Cove Point Liquefied Natural Gas Terminal in Lusby, Maryland (DCP, 2005).

The identified non-Federal projects involve expansions to existing facilities and involve activities that are similar to those already being conducted at the respective facility locations. As such, the environmental impacts of the expansions will likely be similar to those of the existing facilities and would not be expected to contribute adversely to cumulative impacts affecting environmental resources (e.g., water consumption, water quality, radiological emissions, and transportation infrastructure) in the region.

It is reasonable to conclude that any cumulative environmental impacts involving these other non-Federal projects and the proposed CCNPP Unit 3 facility will be small. Additionally, any adverse cumulative environmental impacts that may result from these facility expansions will be identified and evaluated by the Maryland Public Service Commission under the Certificate of Public Convenience and Necessity (CPCN) process.

2.8.7 References

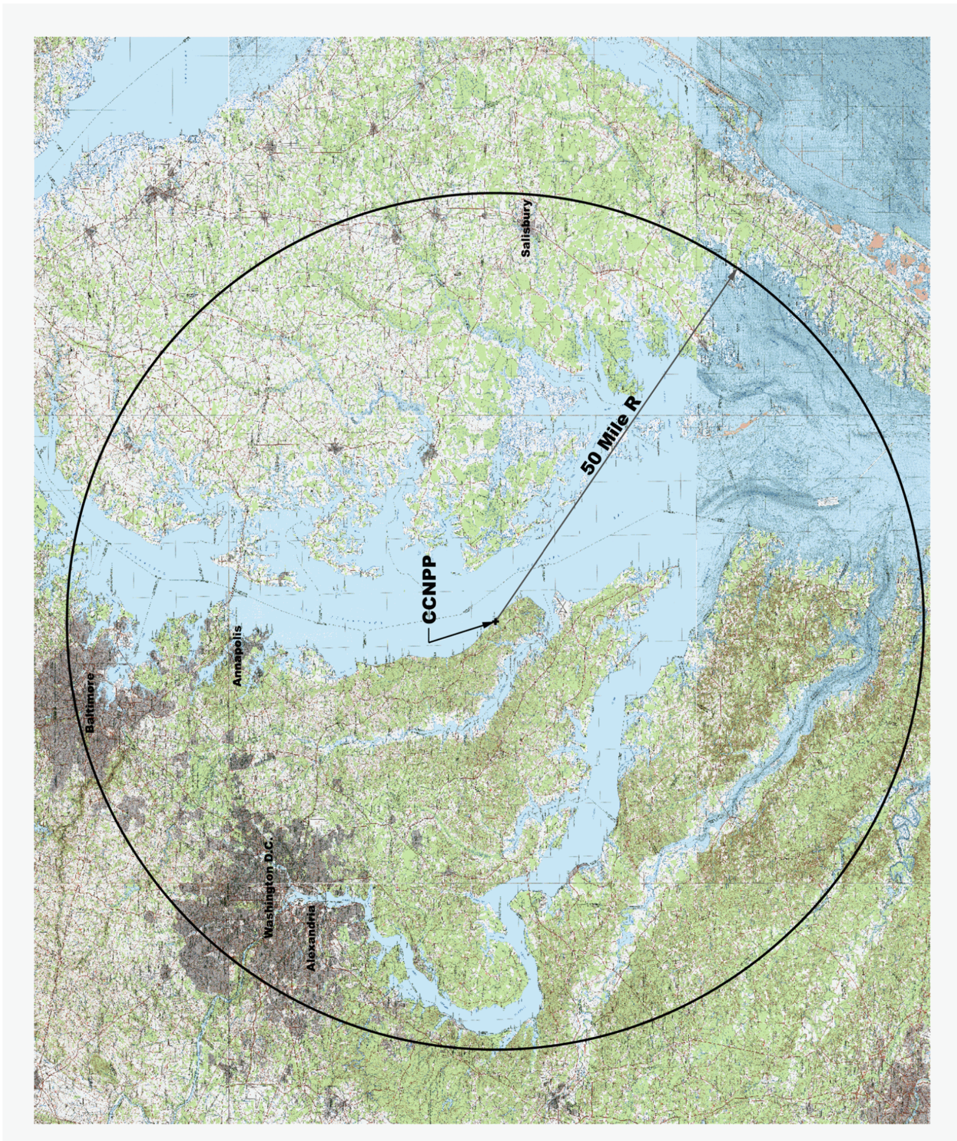
DCP, 2005. Application for a Certificate of Public Convenience and Necessity for Dominion Cove Point LNG, LP, Docket No. CP05-132-000, April 15, 2005.

EU, 2002. Application for a Certificate of Public Convenience and Necessity for the Installation of Combustion Turbine Generating Units at Power Plant No. 2 for Town of Easton, Easton Utilities Commission Electric Department, Easton, Maryland, December, 2002.

MDNR, 2000. Chesapeake Bay 2000 Agreement, Chesapeake Bay Program, June 28, 2000, Website: http://dnrweb.dnr.state.md.us/bay/res_protect/c2k/index.asp, Date accessed: June 2007.

Mirant, 2002. Application for a Certificate of Public Convenience and Necessity at Mirant Chalk Point Development, LLC's Chalk Point Generating Station, January 2002.

Figure 2.7-63— Topography Within 50 mi (80 km)



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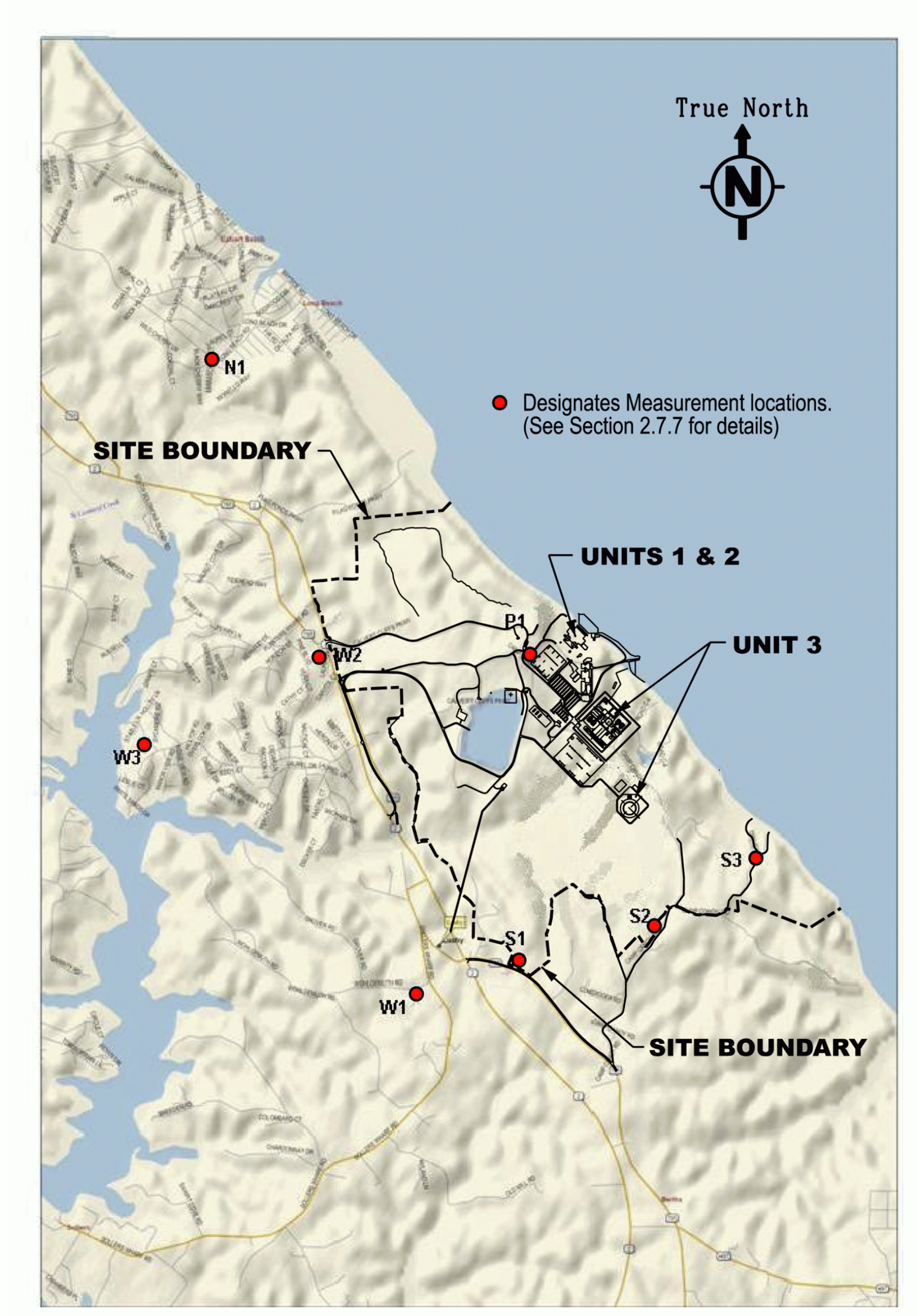

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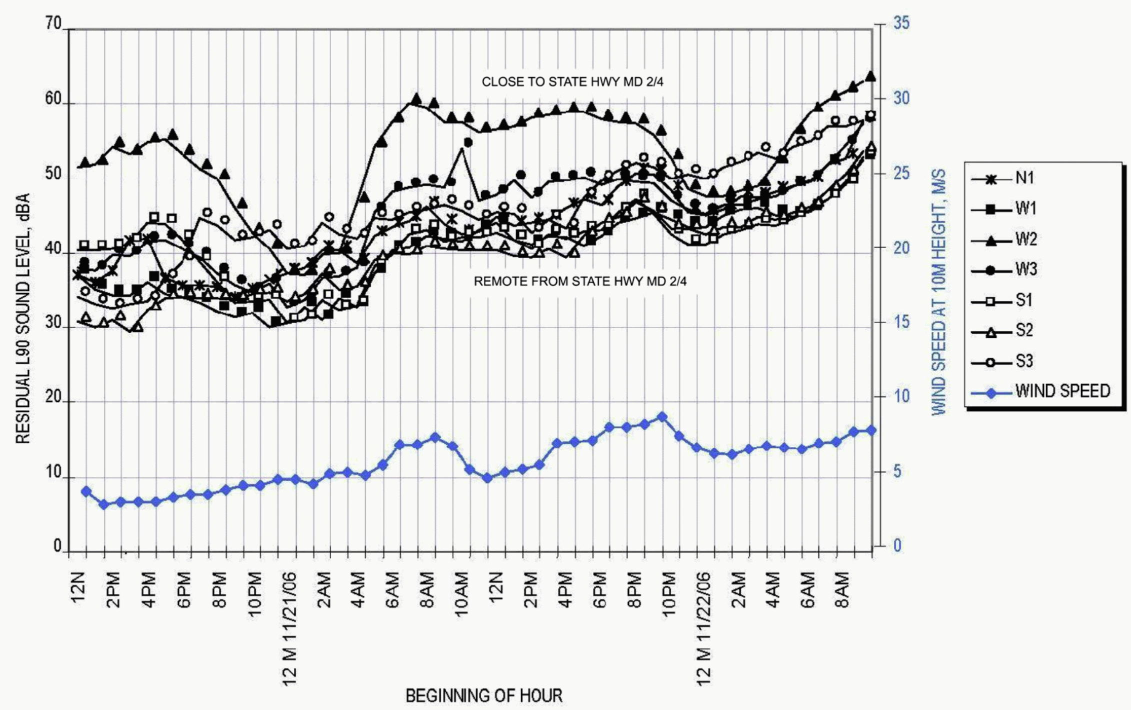

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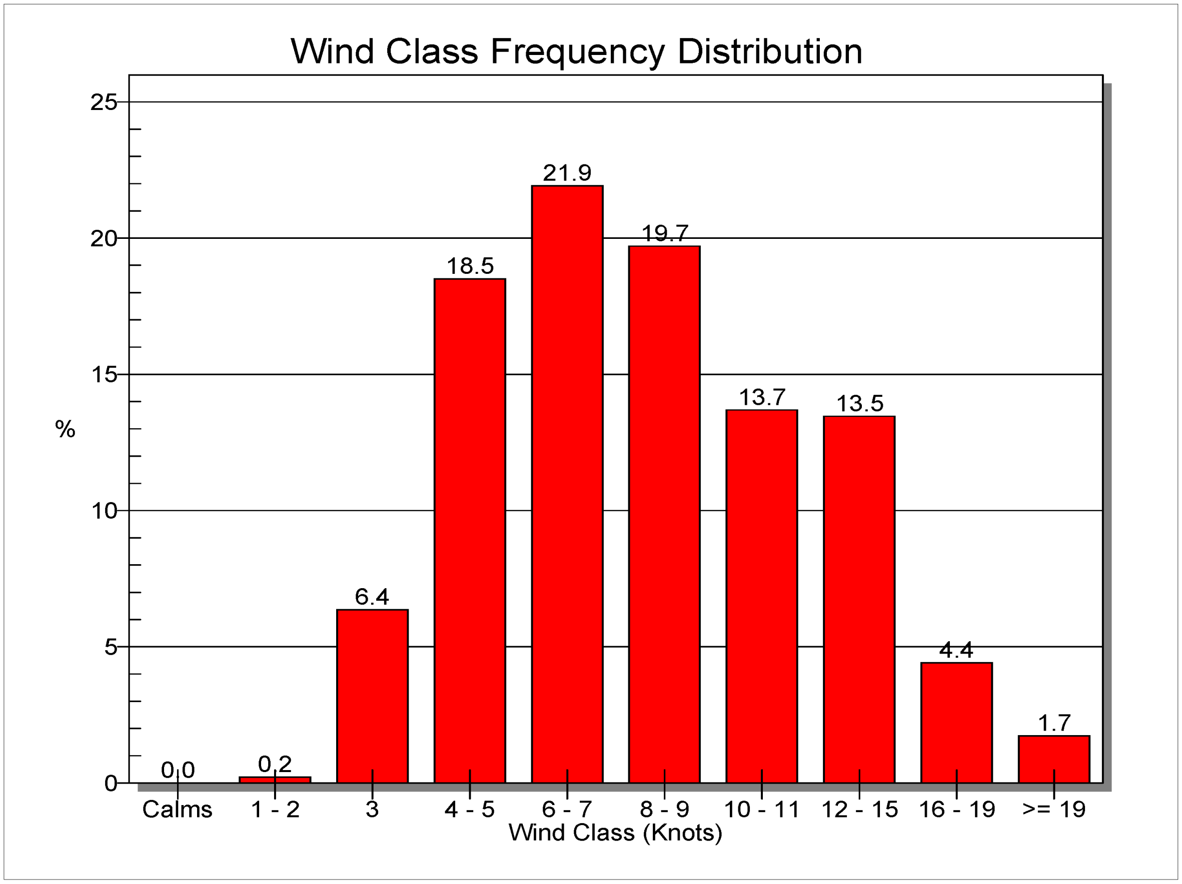
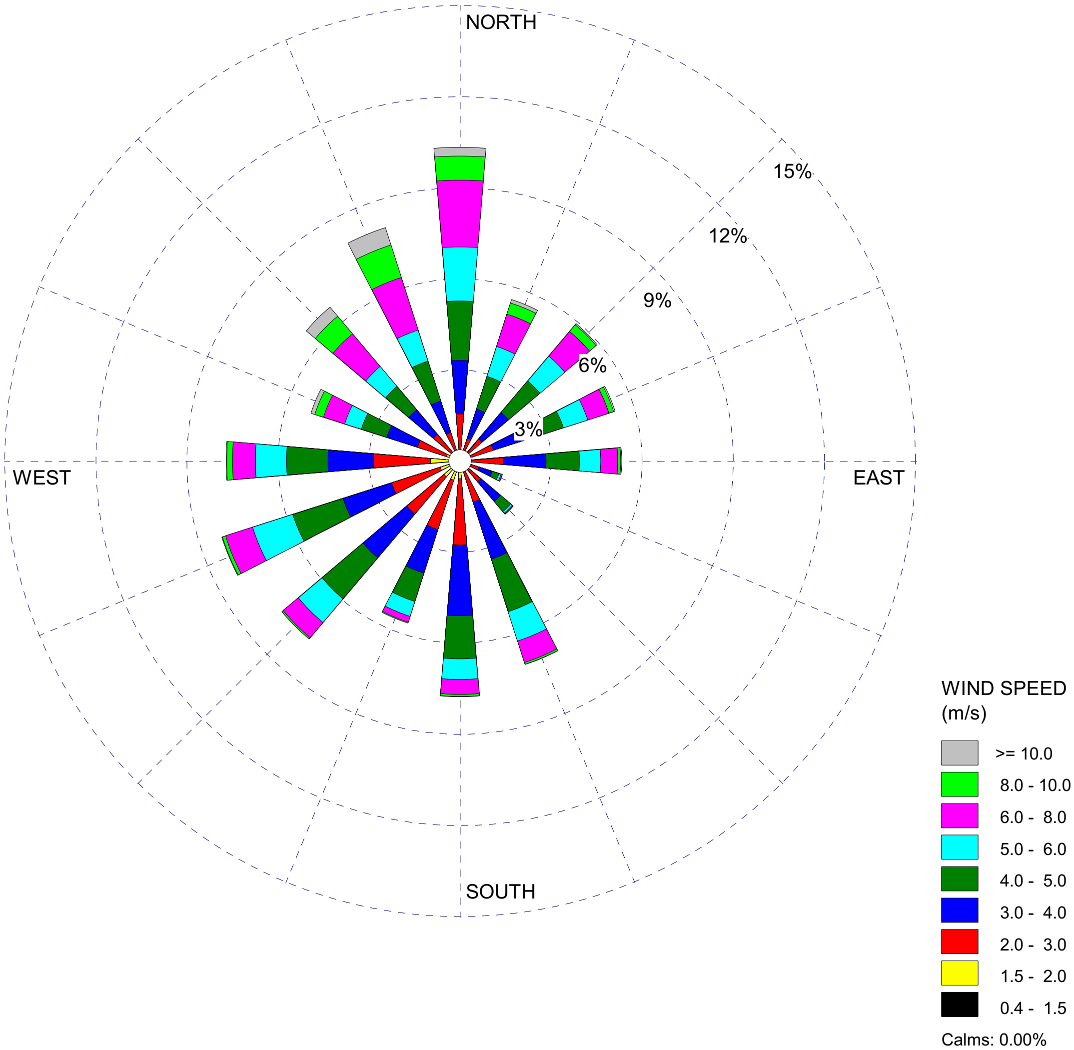


WRPLOT View - Lakes Environmental Software

Figure 2.7-67— Patuxent River NAS Annual Wind Rose

WIND ROSE PLOT:
Station #13721

DISPLAY:
Wind Speed
Direction (blowing from)



DATA PERIOD:	COMPANY NAME:
2000 2001 2002 2003 2004 2005 Jan 1 - Dec 31 00:00 - 23:00	**AREVA NP**
CALM WINDS: **0.00%**	TOTAL COUNT: **40292 hrs.**
AVG. WIND SPEED: **4.36 m/s**	DATE: **8/12/2008**

WRPLOT View - Lakes Environmental Software

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Cumulative impacts to the Chesapeake Bay and associated natural resources are addressed in Chapter 10.

Although the U.S. Environmental Protection Agency is involved in the Chesapeake 2000 Agreement, Federal action to ensure the availability of cooling water source and supply is not anticipated during the lifetime of the proposed project.

2.8.3 Other Federal Actions Affecting Construction or Operation

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- Addition of two combustion turbine generating units at Power Plant No., 2, Town of Easton, Maryland (EU, 2002);
- Addition of four combustion turbine generating units at the Chalk Point Generating Station adjacent to the Chalk Point Substation near Eagle Harbor, Maryland (Mirant, 2002); and
- Expansion of storage and output capacity of the Cove Point Liquefied Natural Gas Terminal in Lusby, Maryland (DCP, 2005).

The identified non-Federal projects involve expansions to existing facilities and involve activities that are similar to those already being conducted at the respective facility locations. As such, the environmental impacts of the expansions will likely be similar to those of the existing facilities and would not be expected to contribute adversely to cumulative impacts affecting environmental resources (e.g., water consumption, water quality, radiological emissions, and transportation infrastructure) in the region.

It is reasonable to conclude that any cumulative environmental impacts involving these other non-Federal projects and the proposed CCNPP Unit 3 facility will be small. Additionally, any adverse cumulative environmental impacts that may result from these facility expansions will be identified and evaluated by the Maryland Public Service Commission under the Certificate of Public Convenience and Necessity (CPCN) process.

2.8.7 References

DCP, 2005. Application for a Certificate of Public Convenience and Necessity for Dominion Cove Point LNG, LP, Docket No. CP05-132-000, April 15, 2005.

EU, 2002. Application for a Certificate of Public Convenience and Necessity for the Installation of Combustion Turbine Generating Units at Power Plant No. 2 for Town of Easton, Easton Utilities Commission Electric Department, Easton, Maryland, December, 2002.

MDNR, 2000. Chesapeake Bay 2000 Agreement, Chesapeake Bay Program, June 28, 2000, Website: http://dnrweb.dnr.state.md.us/bay/res_protect/c2k/index.asp, Date accessed: June 2007.

Mirant, 2002. Application for a Certificate of Public Convenience and Necessity at Mirant Chalk Point Development, LLC's Chalk Point Generating Station, January 2002.