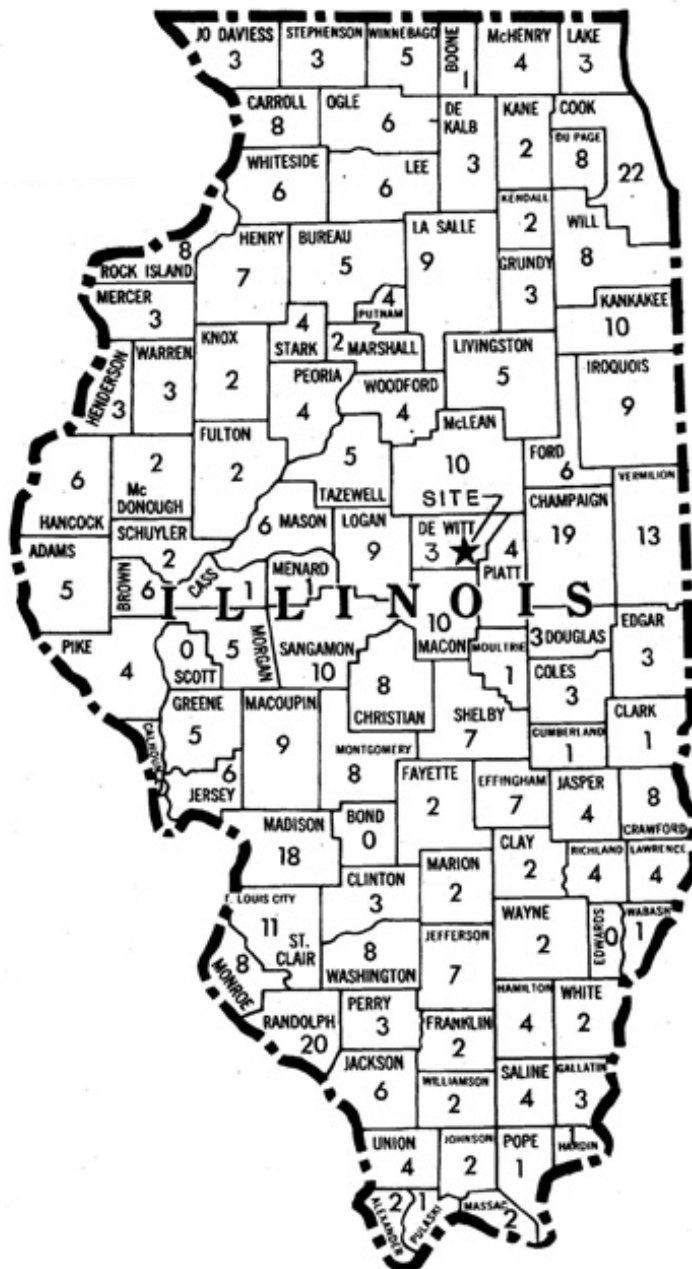


Site Safety Analysis Report for  
the EGC Early Site Permit

**Figure 2.3-1**  
**Number of Tornadoes**  
**per County**  
**(1916-1969) 54 Year Period**



**Legend**



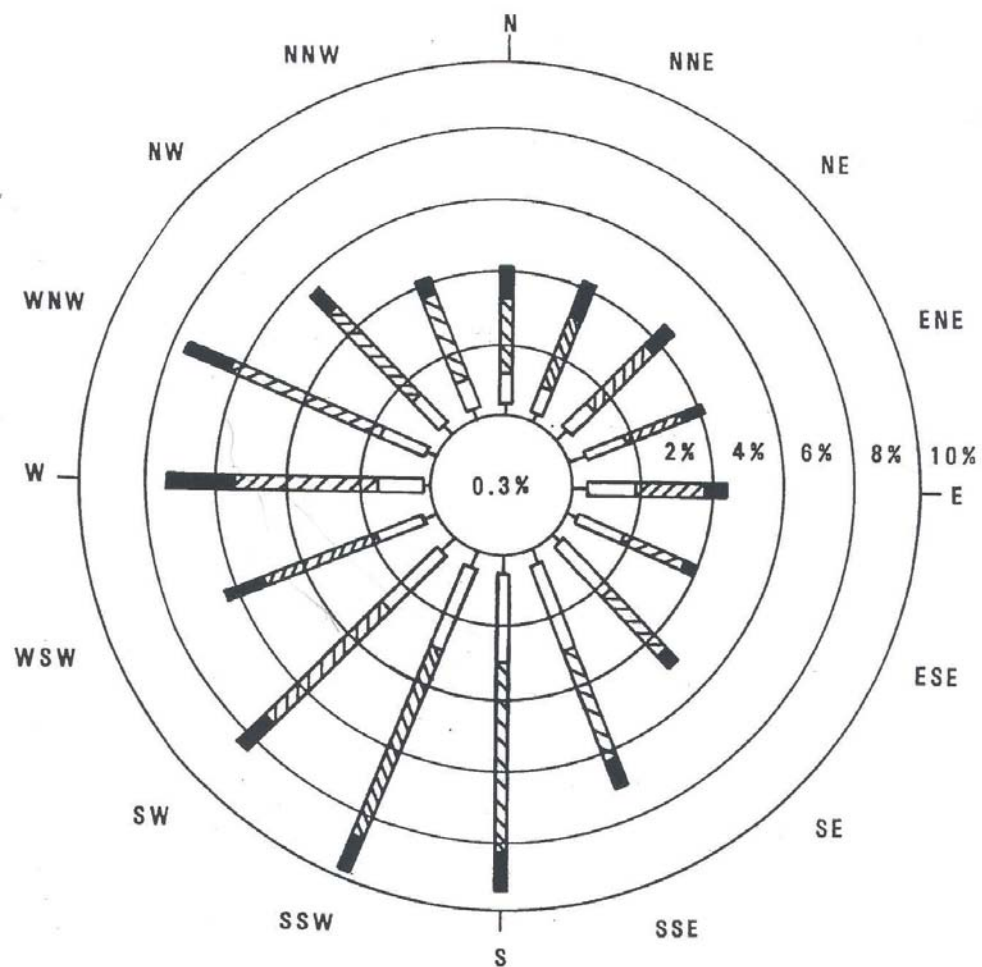
9 denotes the number of tornadoes reported in Iroquois County during the period 1916-1969

Data Source:  
CPS, 2002

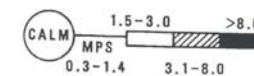


Not to Scale

**Figure 2.3-2**  
**Wind Rose, 10-Meter Level,**  
**Clinton Power Station Site,**  
**Period of Record:**  
**4/14/72-4/30/77**



**Legend**



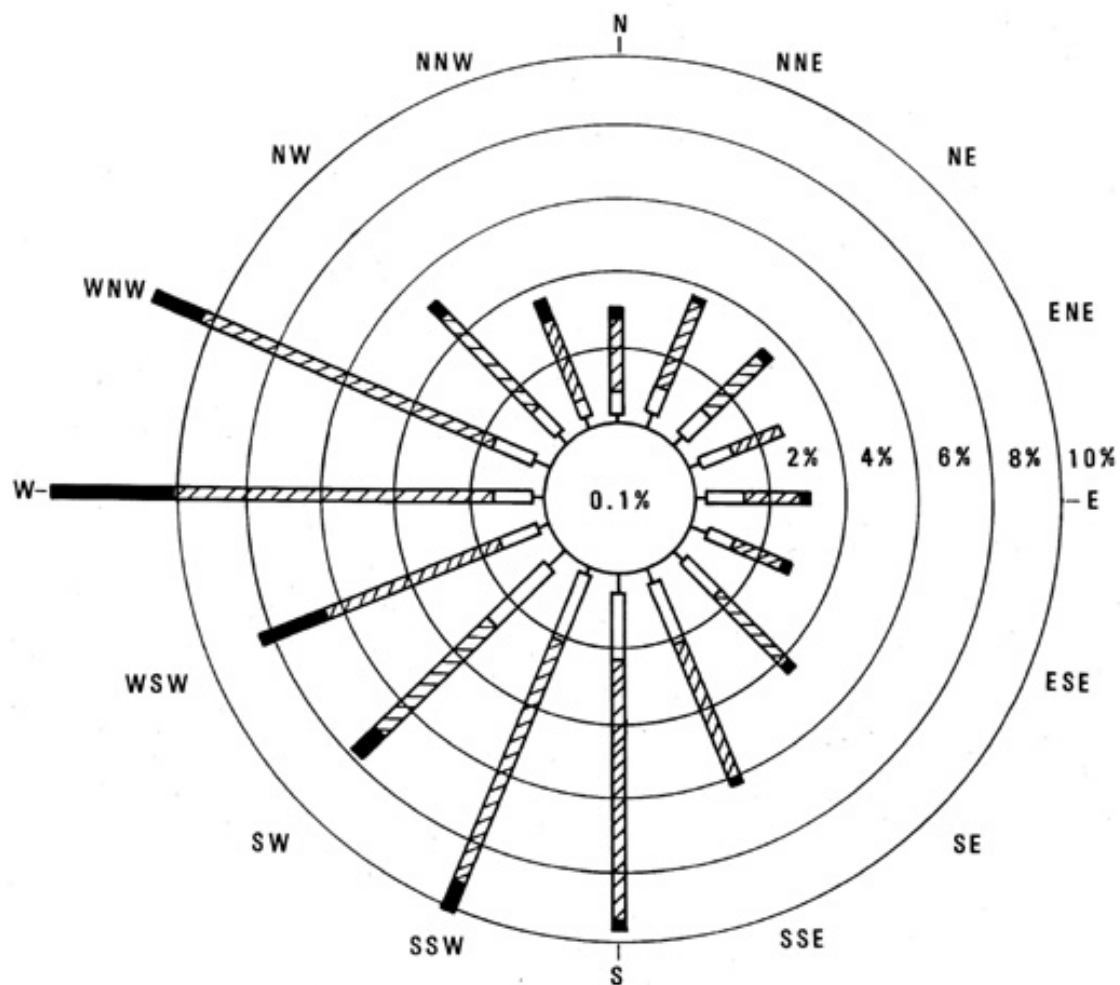
Data Source:  
CPS, 2002

Not to Scale

**Figure 2.3-3**

**Wind Rose, 10-Meter Level,  
Clinton Power Station Site,  
Composite January**

**Period of Record: 4/14/72-4/30/77**

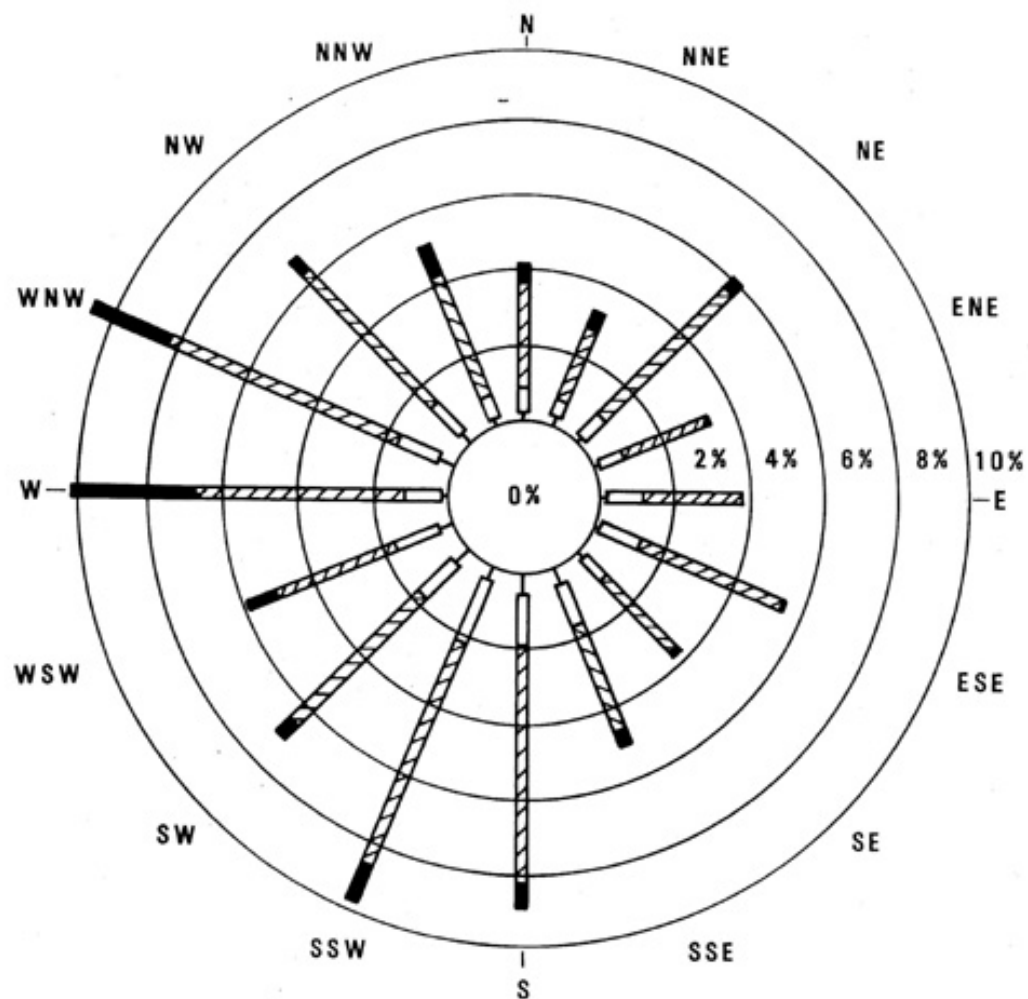


Not to Scale

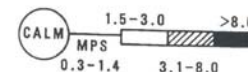
**Figure 2.3-4**

**Wind Rose, 10-Meter Level,  
Clinton Power Station Site,  
Composite February**

**Period of Record: 4/14/72-4/30/77**



**Legend**



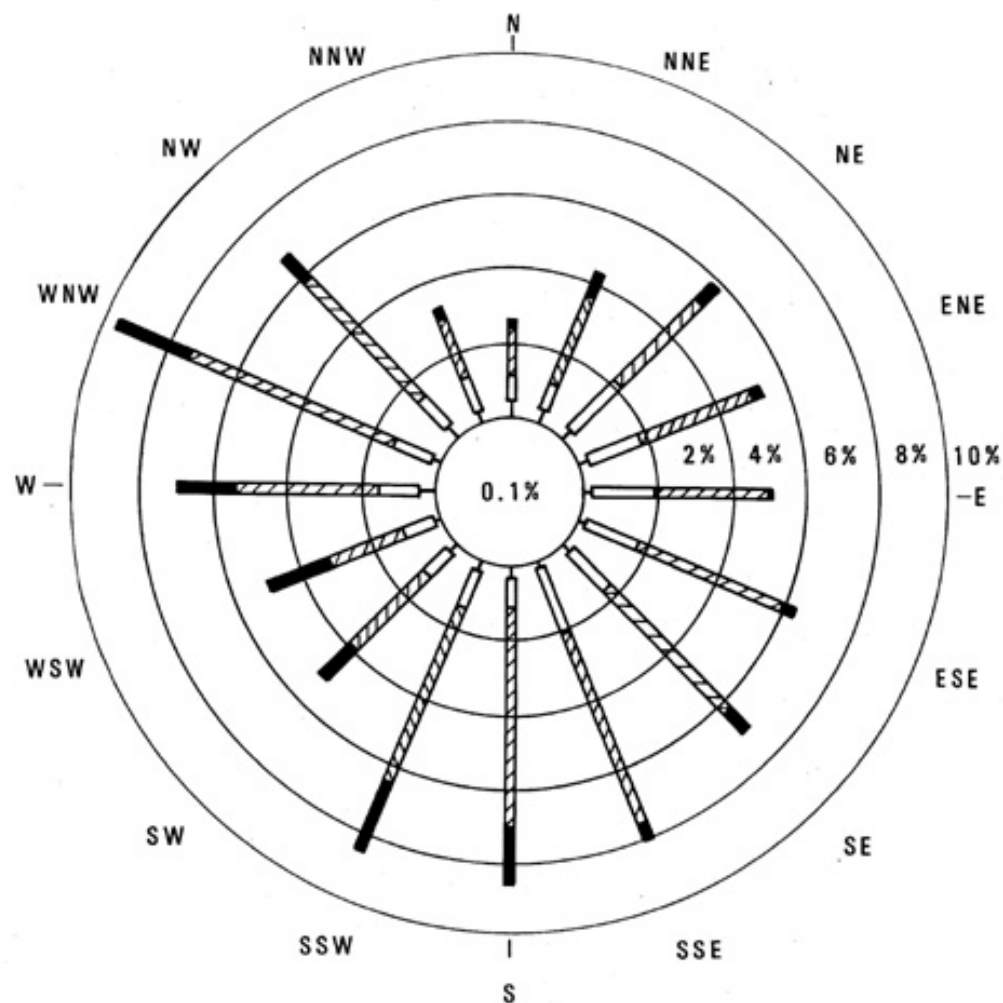
Data Source:  
CPS, 2002

Not to Scale

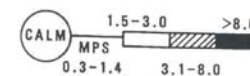
**Figure 2.3-5**

**Wind Rose, 10-Meter Level,  
Clinton Power Station Site,  
Composite March**

**Period of Record: 4/14/72-4/30/77**



**Legend**



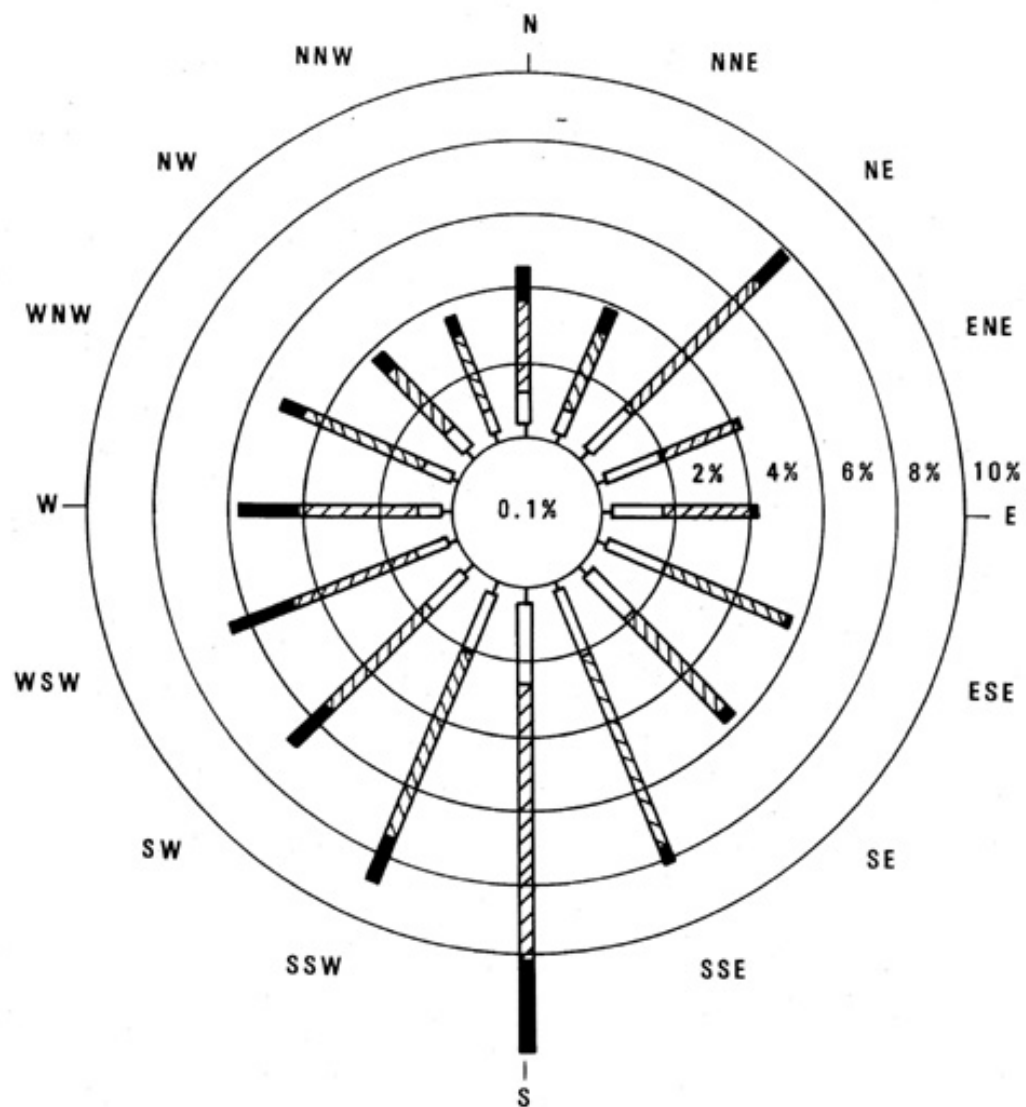
Data Source:  
CPS, 2002

Not to Scale

**Figure 2.3-6**

**Wind Rose, 10-Meter Level,  
Clinton Power Station Site,  
Composite April**

**Period of Record: 4/14/72-4/30/77**



Not to Scale

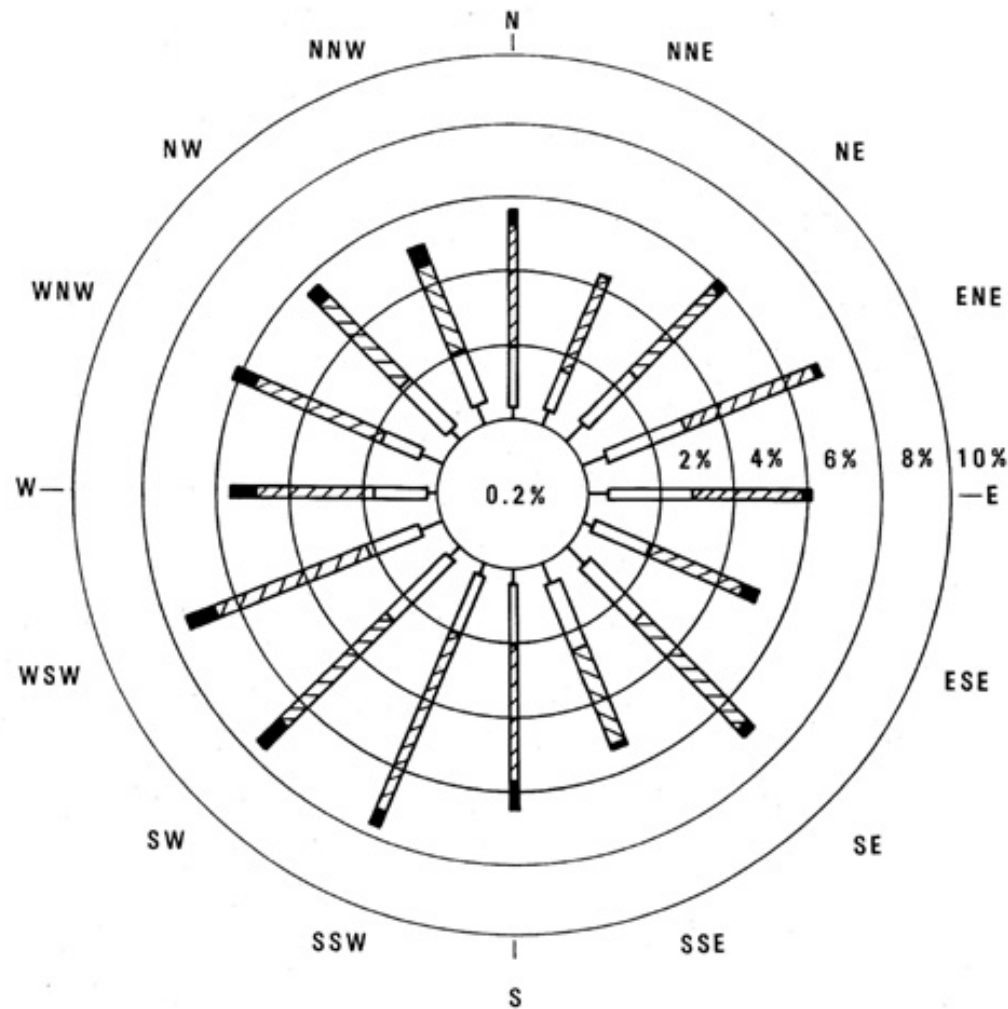


Site Safety Analysis Report for  
the EGC Early Site Permit

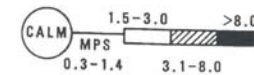
**Figure 2.3-7**

**Wind Rose, 10-Meter Level,  
Clinton Power Station Site,  
Composite May**

**Period of Record: 4/14/72-4/30/77**



Legend



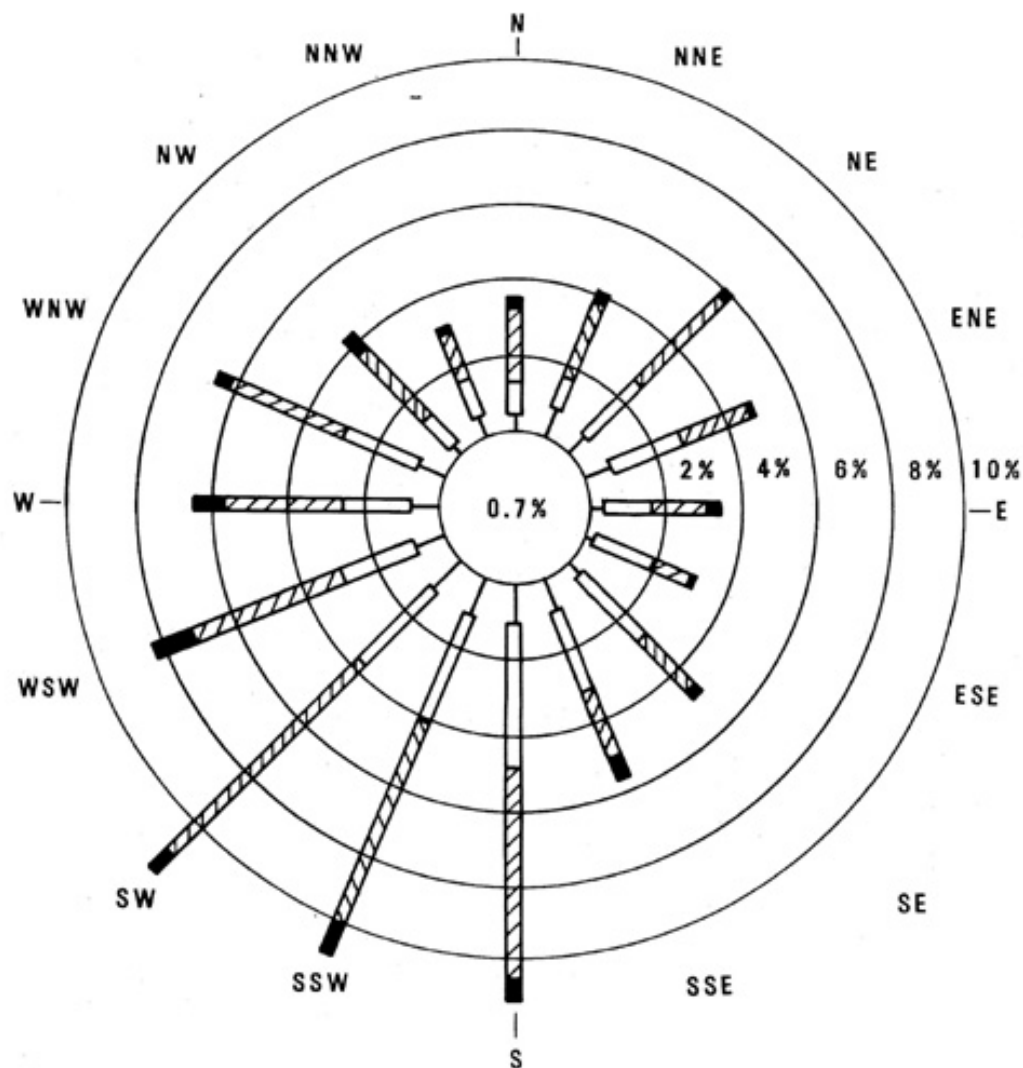
Data Source:  
CPS, 2002

Not to Scale

**Figure 2.3-8**

**Wind Rose, 10-Meter Level,  
Clinton Power Station Site,  
Composite June**

**Period of Record: 4/14/72-4/30/77**



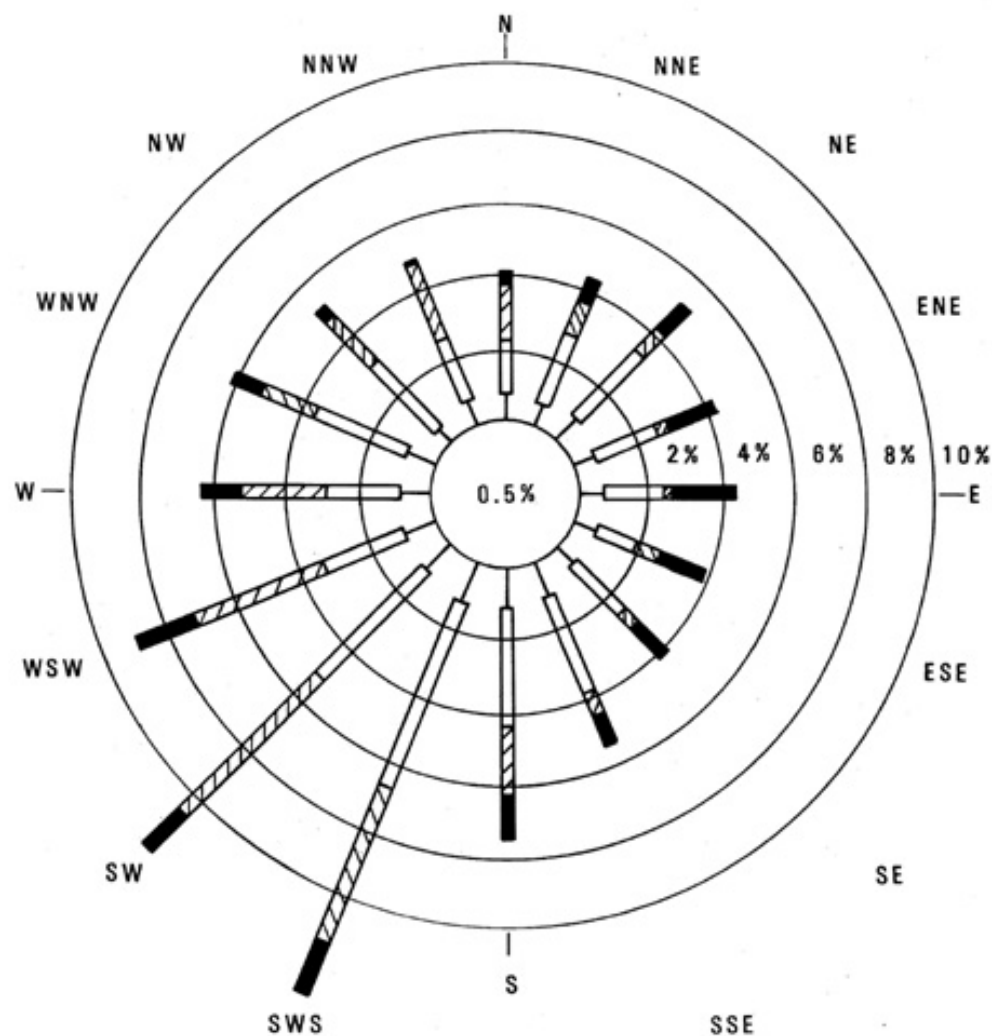
Not to Scale



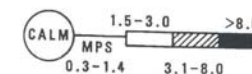
**Figure 2.3-9**

**Wind Rose, 10-Meter Level,  
Clinton Power Station Site,  
Composite July**

**Period of Record: 4/14/72-4/30/77**



**Legend**



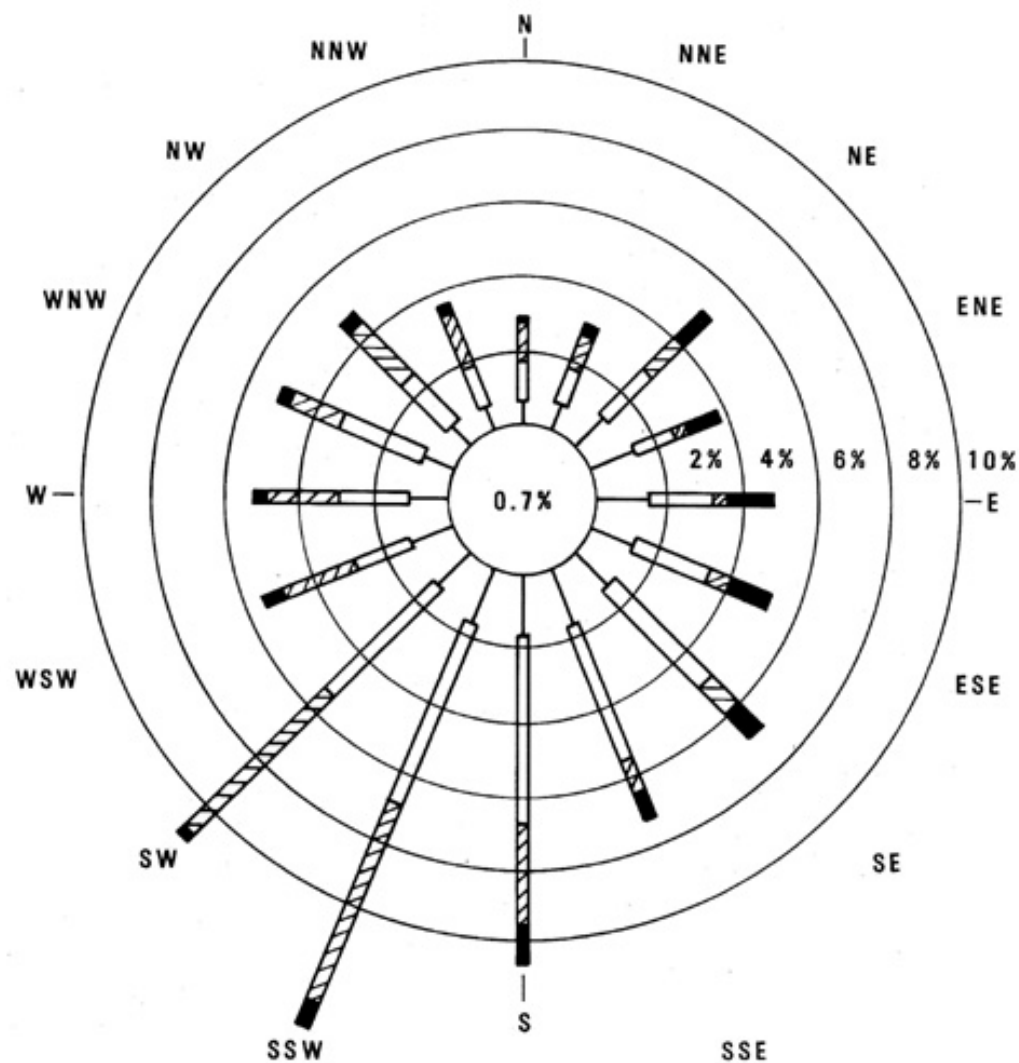
Data Source:  
CPS, 2002

Not to Scale

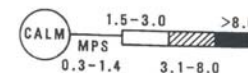
**Figure 2.3-10**

### Wind Rose, 10-Meter Level, Clinton Power Station Site, Composite August

**Period of Record: 4/14/72-4/30/77**



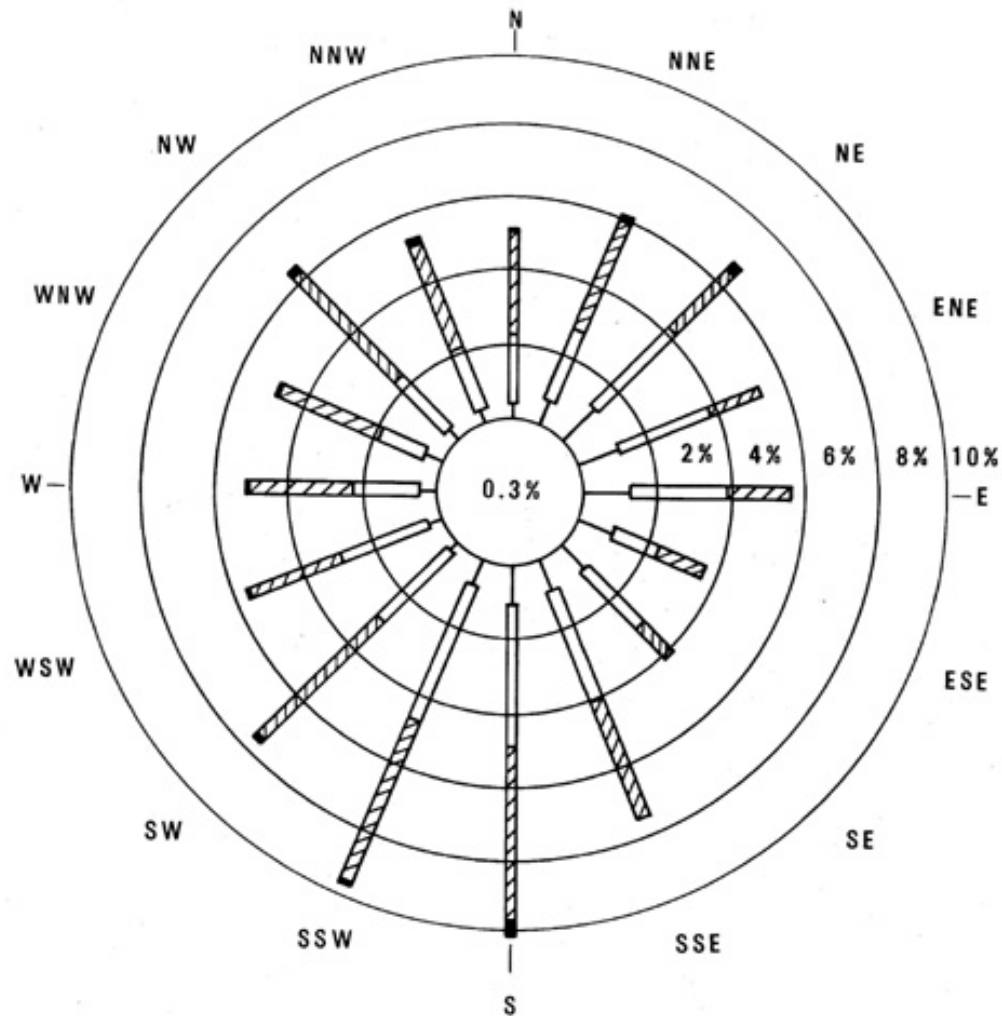
### Legend



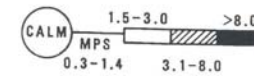
Data Source:  
CPS, 2002

Not to Scale

Site Safety Analysis Report for  
the EGC Early Site Permit  
**Figure 2.3-11**  
**Wind Rose, 10-Meter Level,**  
**Clinton Power Station Site,**  
**Composite September**  
**Period of Record: 4/14/72-4/30/77**



**Legend**



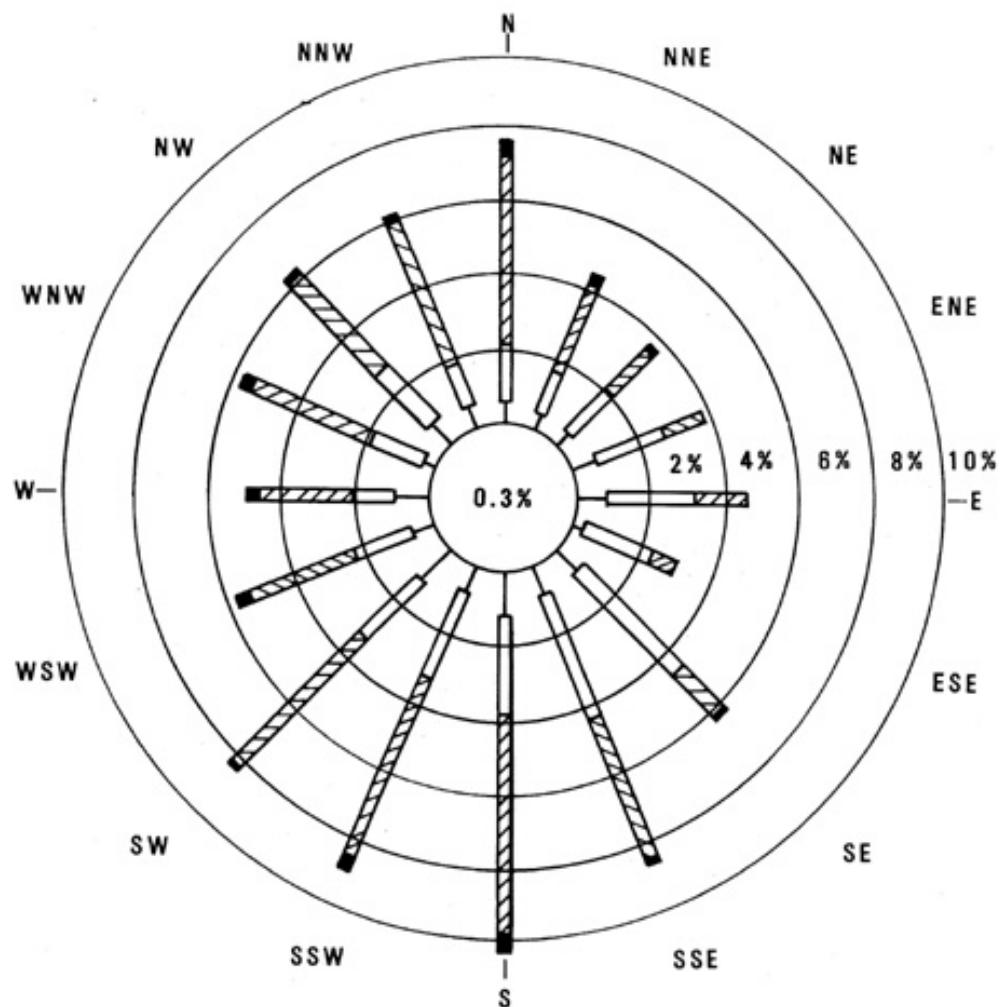
Data Source:  
CPS, 2002

Not to Scale

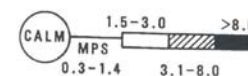
**Figure 2.3-12**

**Wind Rose, 10-Meter Level,  
Clinton Power Station Site,  
Composite October**

**Period of Record: 4/14/72-4/30/77**



**Legend**



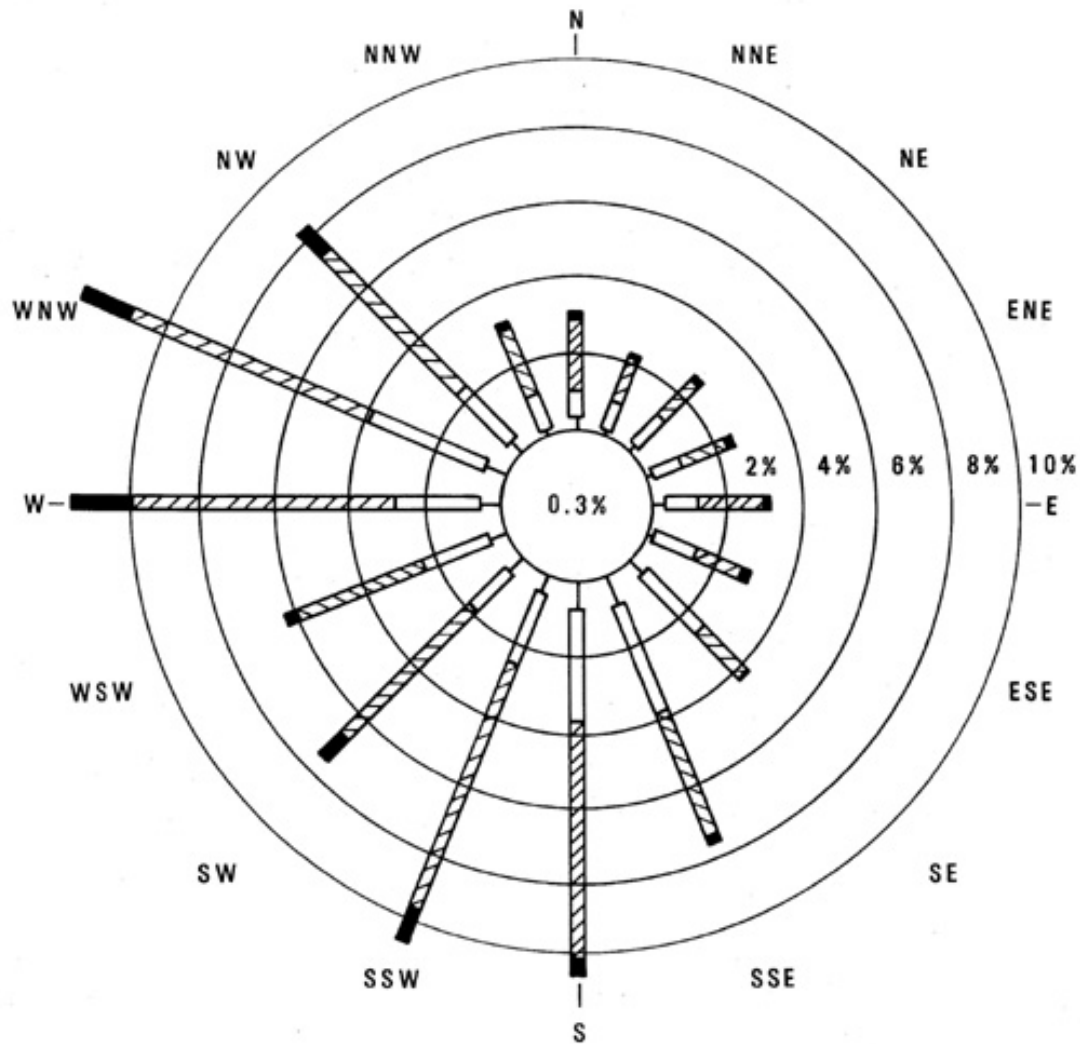
Data Source:  
CPS, 2002

Not to Scale

Site Safety Analysis Report for  
the EGC Early Site Permit

**Figure 2.3-13**

**Wind Rose, 10-Meter Level,  
Clinton Power Station Site,  
Composite November  
Period of Record: 4/14/72-4/30/77**

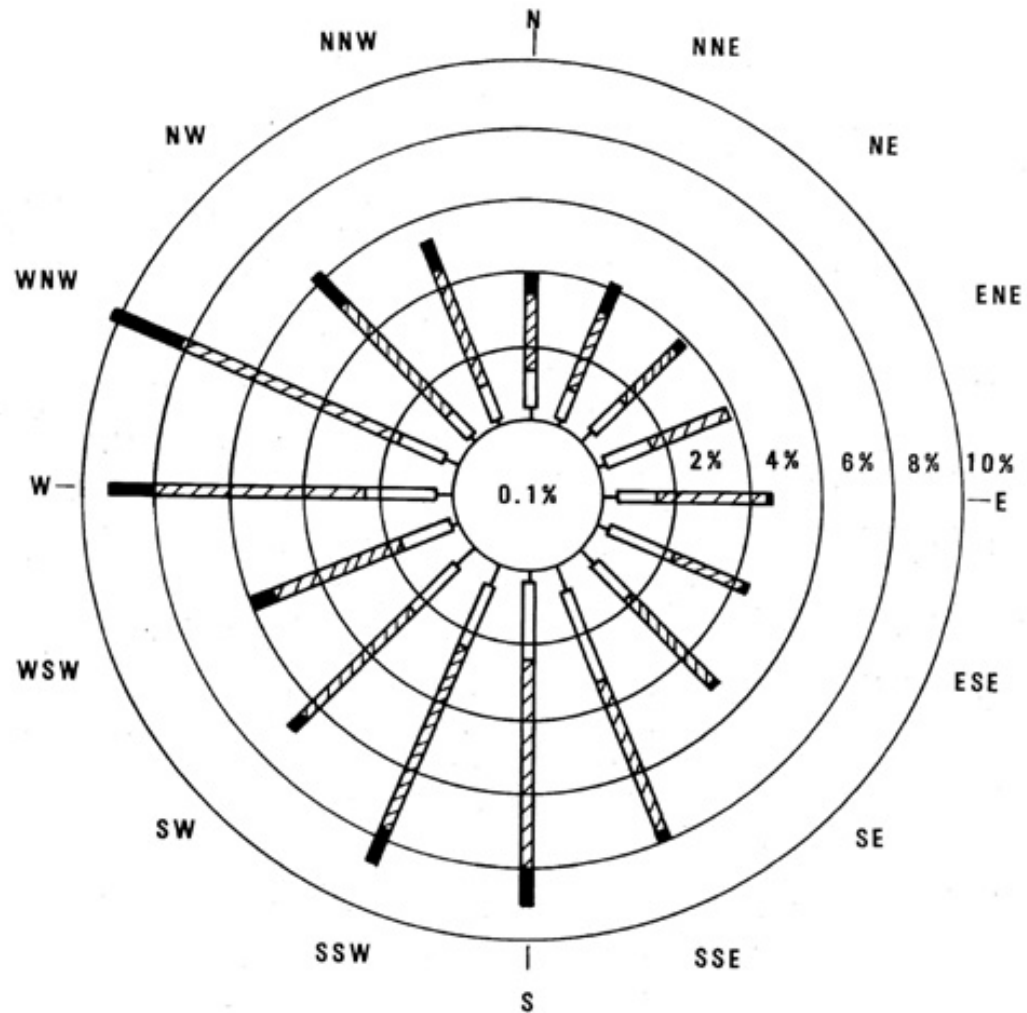


Not to Scale

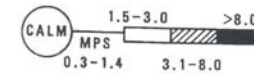
**Figure 2.3-14**

**Wind Rose, 10-Meter Level,  
Clinton Power Station Site,  
Composite December**

**Period of Record: 4/14/72-4/30/77**



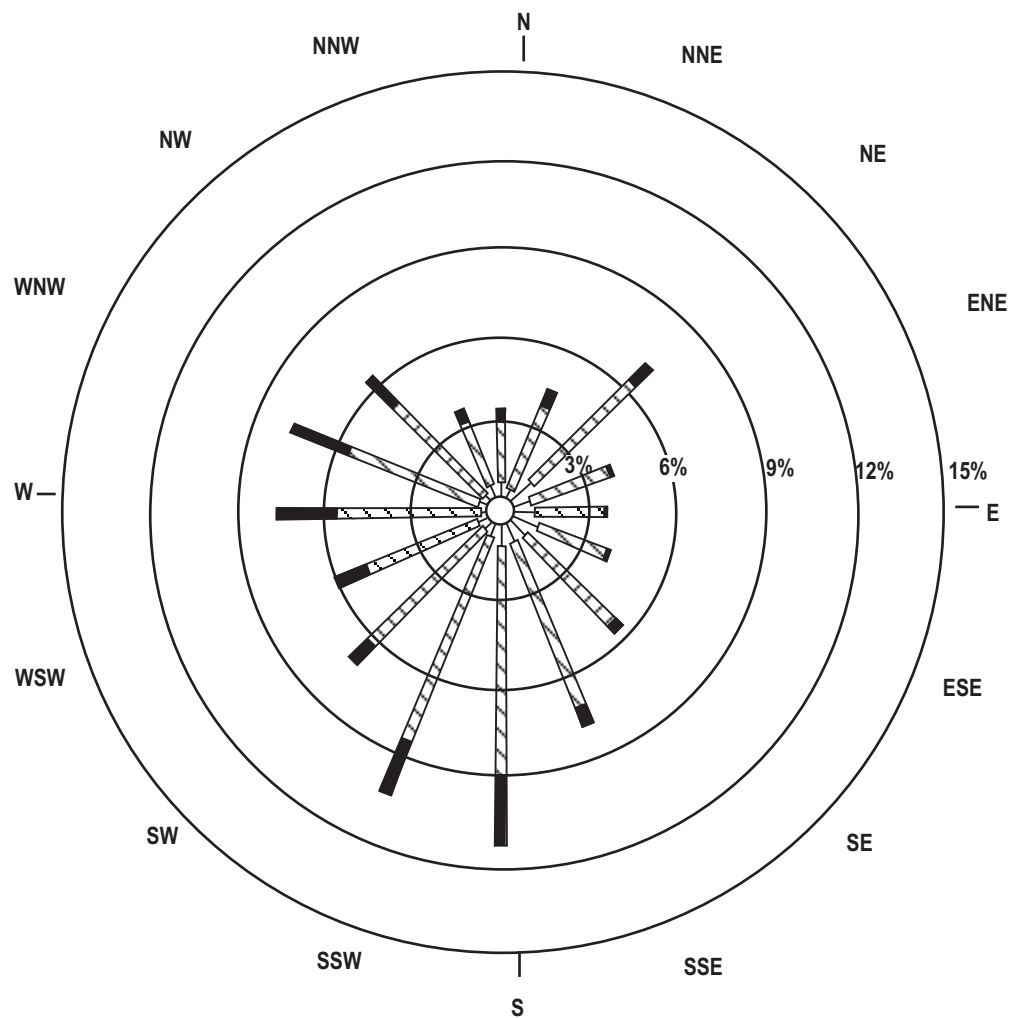
**Legend**



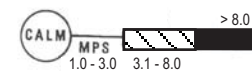
Data Source:  
CPS, 2002

Not to Scale

**Figure 2.3-15**  
**Wind Rose, 10-Meter Level,**  
**Clinton Power Station Site,**  
**Period of Record: 1/1/00-8/31/02**



**Legend**





Data Source:  
CPS, 2002

Not to Scale



**Figure 2.3-16  
Topographic Map Within  
5 mi of the EGC ESP Site**

 Proposed Areas for EGC ESP Facility Structures  
 Vicinity: 5 mi Around Project Area

A map of Illinois showing its county boundaries and names. A red star is placed in Cook County, which is the county containing Chicago. The star is located in the central-eastern part of the state, near the center of Cook County.

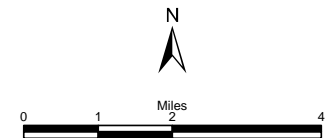


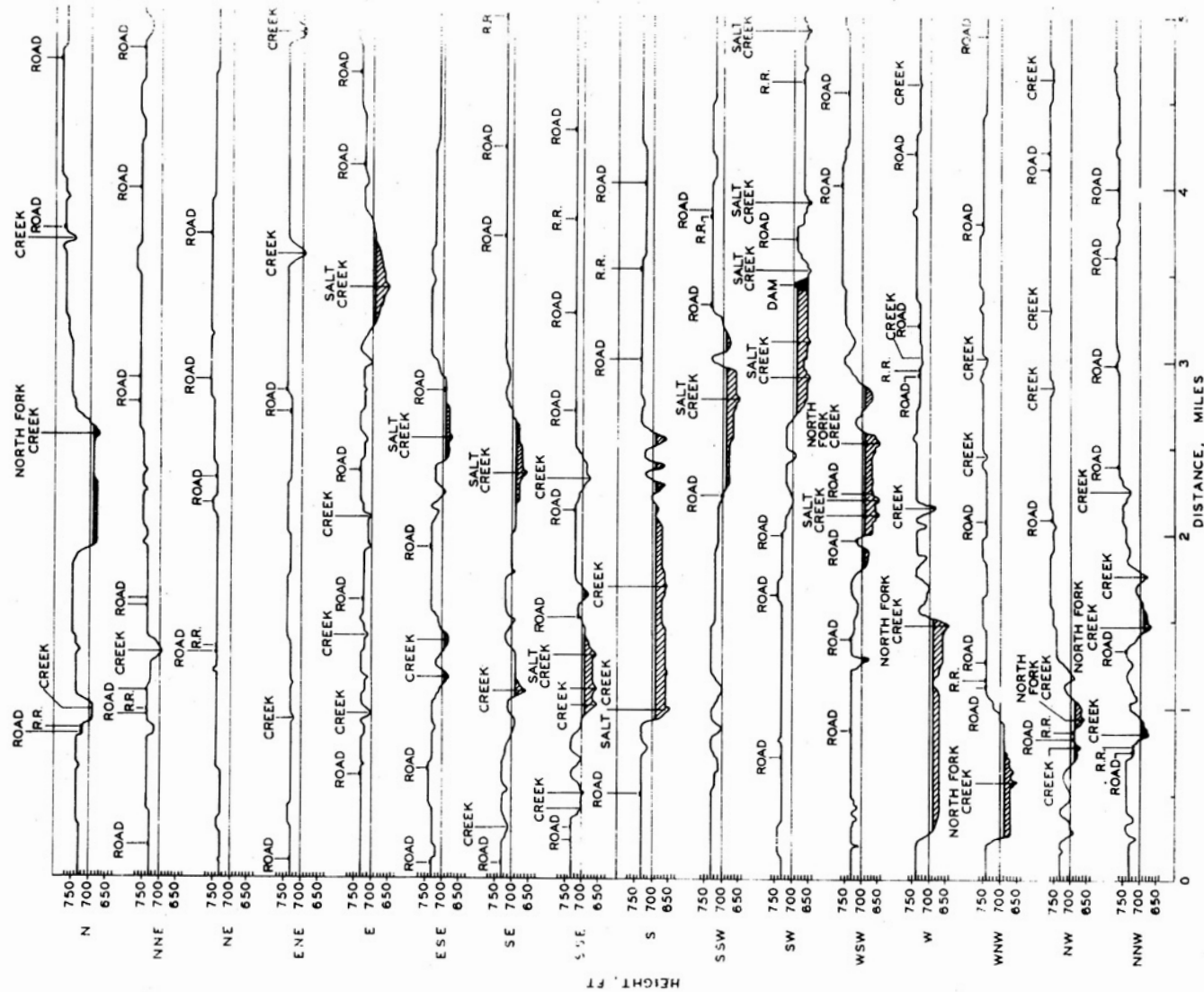
Figure 2.3-17

Topographical Cross Section as a  
Function of the Distance From the  
EGC ESP Site

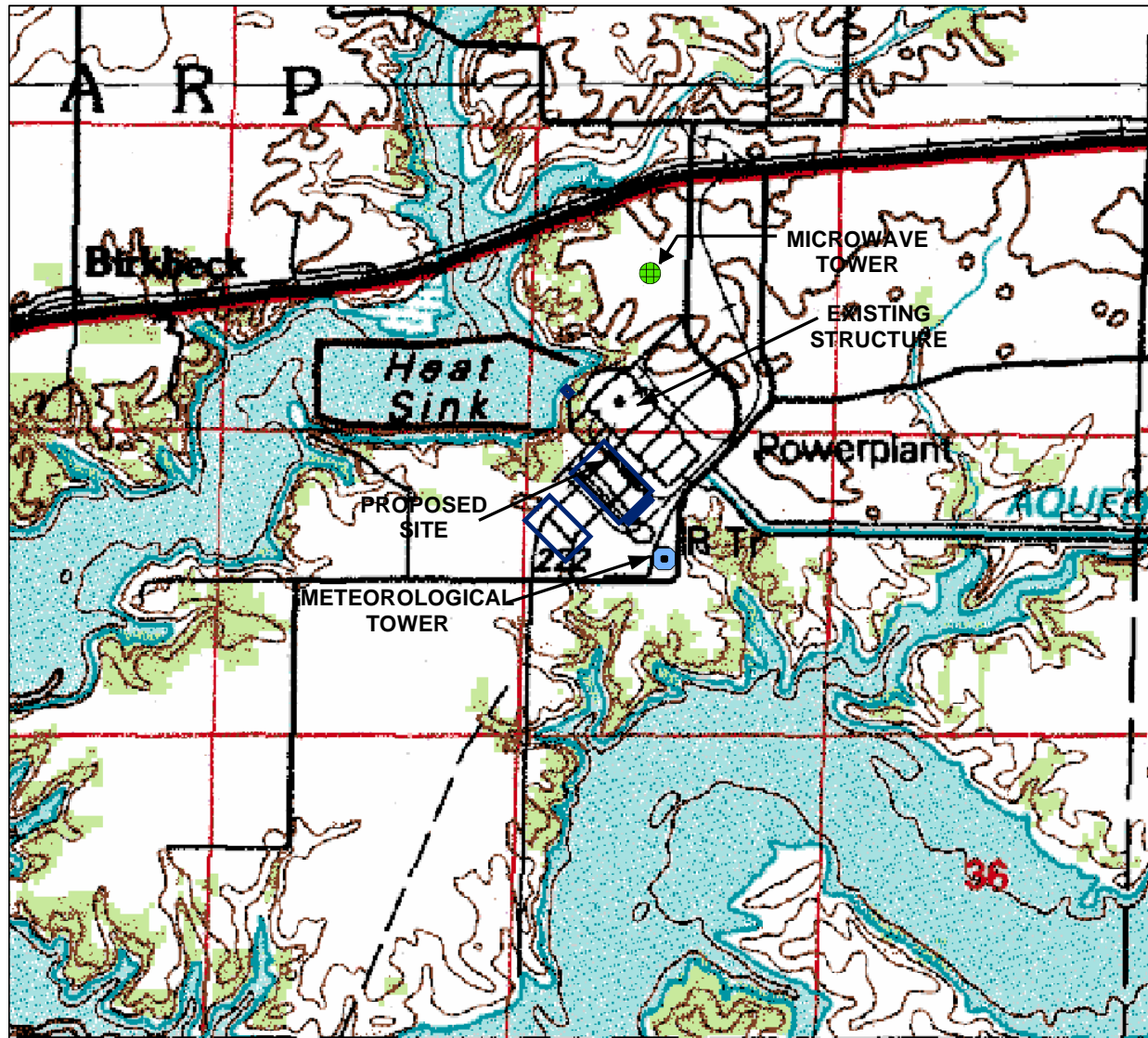
Legend

Data Source:  
CPS, 2002


Not to Scale



**Figure 2.3-18**  
**Topographical Map of the Site Area**  
**Meteorological Tower Location**



**Legend**

 Proposed Areas for EGC ESP Facility Structures

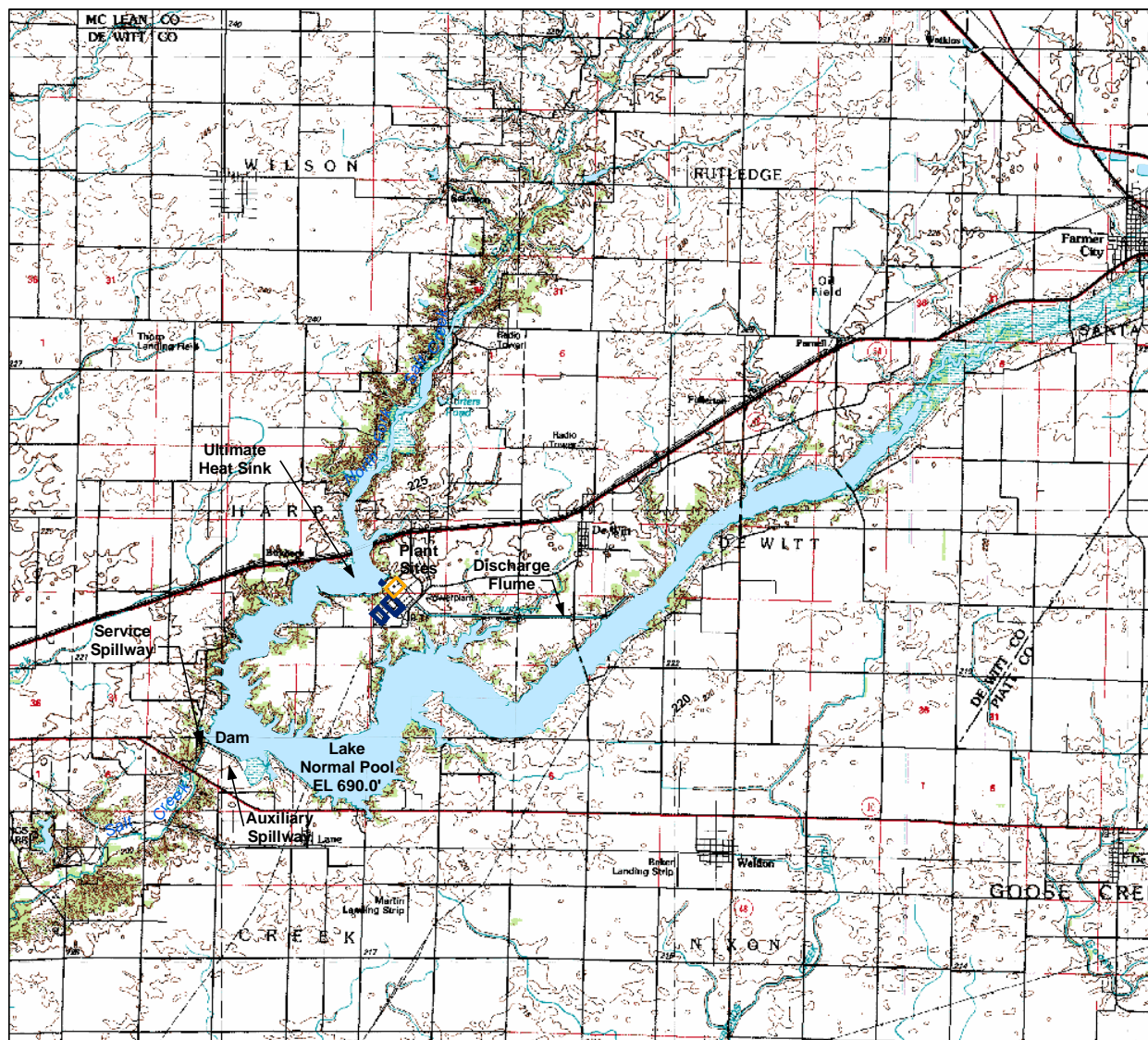
Data Sources:  
USGS, 1984 and 1989





Site Safety Analysis Report for  
the EGC Early Site Permit

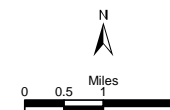
**Figure 2.4-1**  
**Plant Location**  
**and Clinton Lake Impoundment**



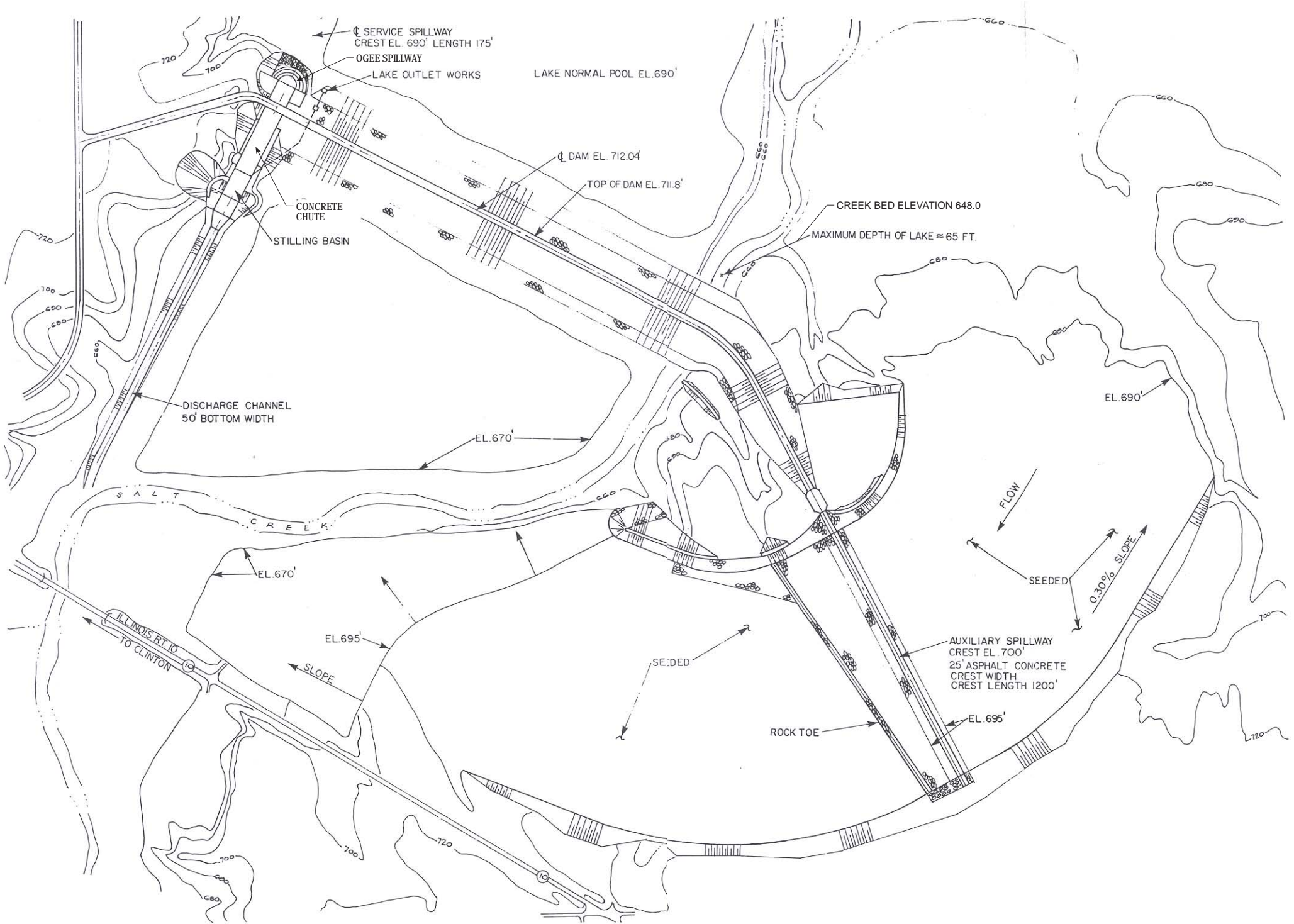
**Legend**

- CPS Facility
- Proposed Areas for EGC ESP Facility Structures
- Water: Lakes and Rivers

Data Sources:  
U.S. Census Bureau, 2000  
USGS, 1984 and 1989



**Figure 2.4-2**  
**Plan of Main Dam, Spillways,**  
**and Outlet Works**



**Legend**

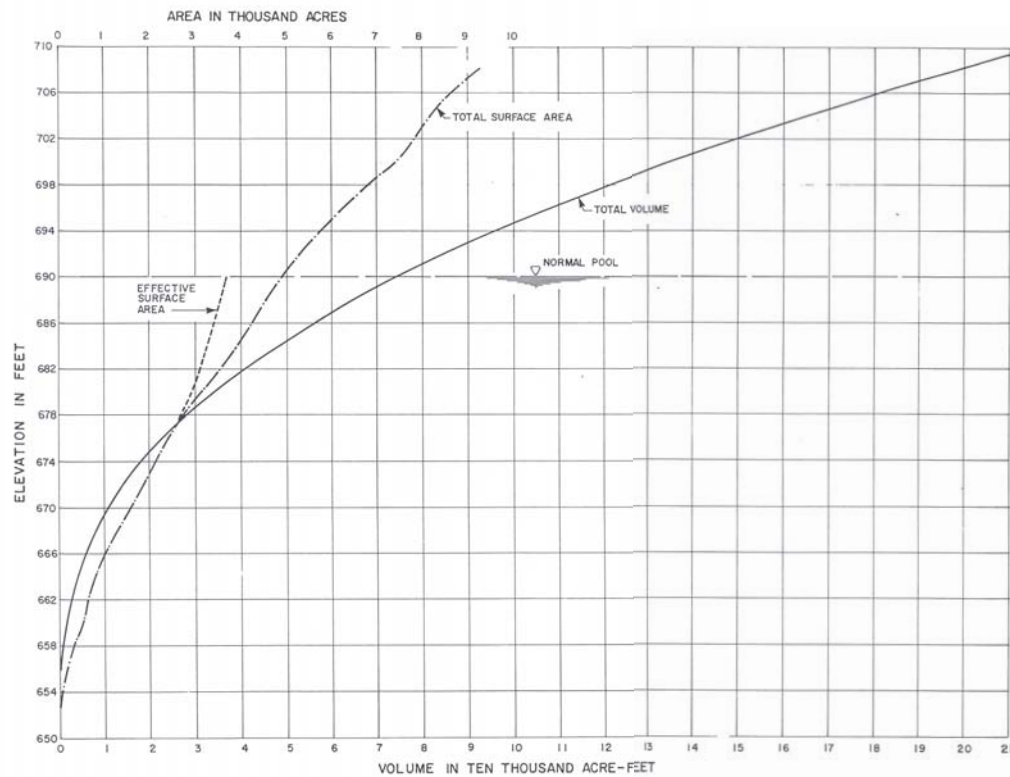
Data Source:  
CPS, 1982



Not to Scale

Site Safety Analysis Report for  
the EGC Early Site Permit

**Figure 2.4-3**  
**Lake Elevation-  
Area Capacity Curves**



ELEVATION IN FEET	AREA IN ACRES	CAPACITY IN ACRE-FEET
680	3,100	33,900
682	3,550	40,600
684	3,930	48,000
686	4,250	56,000
688	4,520	64,800
690	4,895	74,200
692	5,210	83,600
694	5,700	95,000
696	6,140	106,300
698	6,800	120,000
700	7,380	133,300
702	7,800	149,000
704	8,180	164,300
706	8,600	182,000
708	9,260	199,200

**Legend**

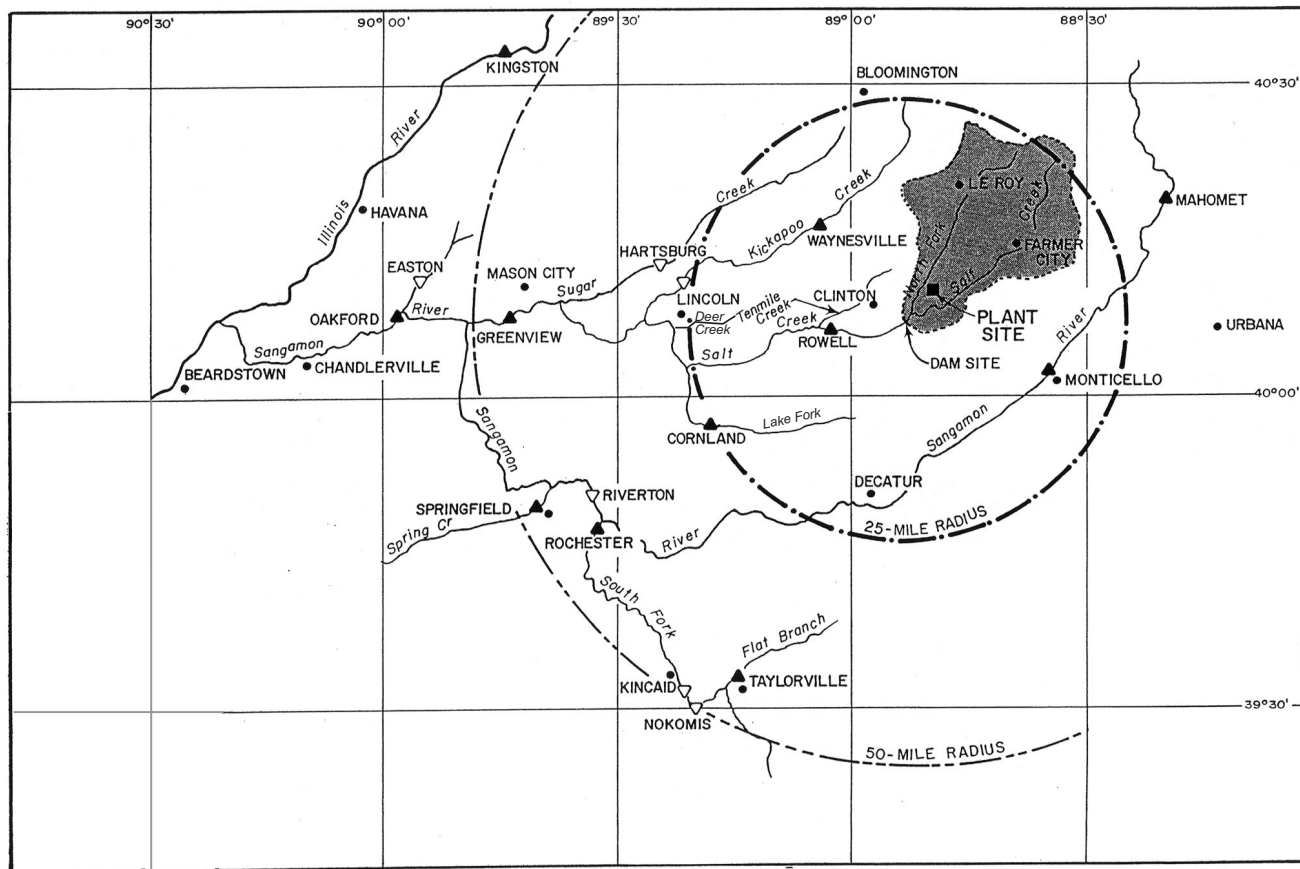
- Effective Surface Area
- · - Total Surface Area
- Total Volume

Data Source:  
CPS, 1982

Not to Scale



**Figure 2.4-4**  
**Hydrologic Network**  
**Sangamon River Basin**



**Legend**

- ▲ Recording Station
- ▽ Discontinued Station
- Cities

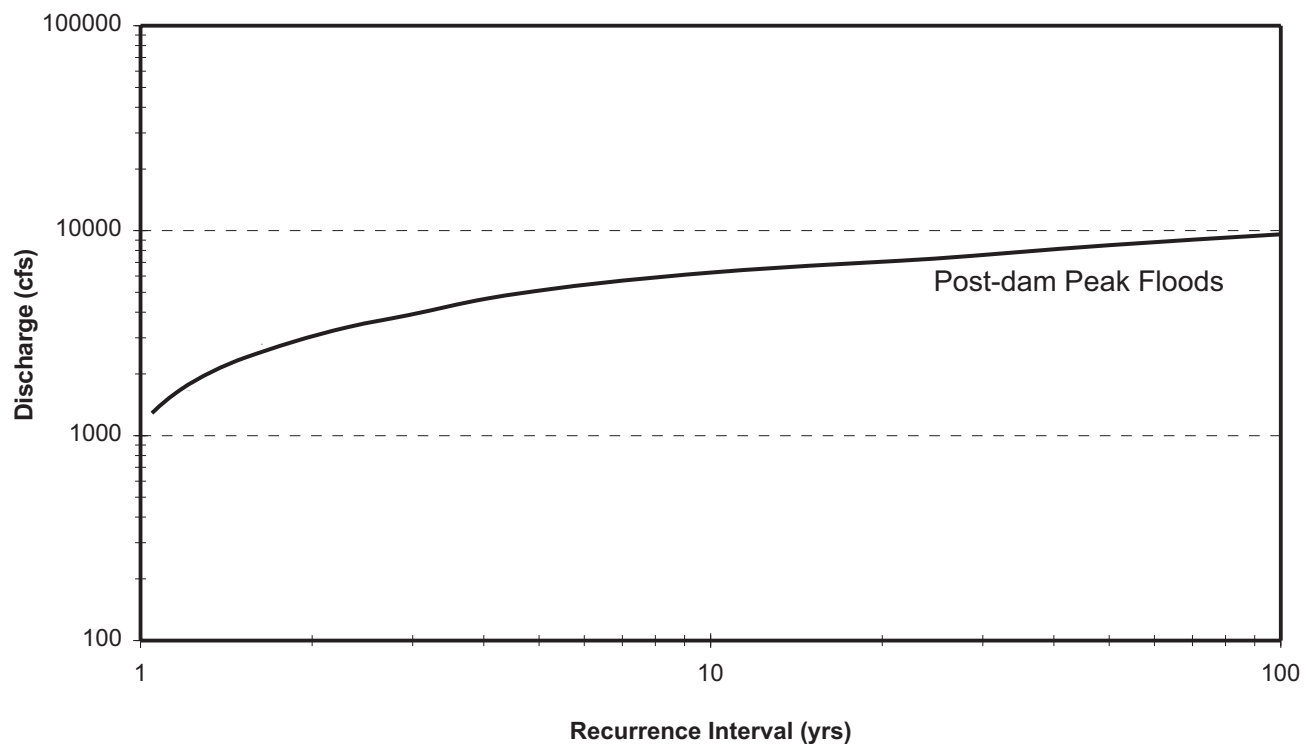
Data Source:  
CPS, 1982





Site Safety Analysis Report for  
the EGC Early Site Permit

**Figure 2.4-5**  
**Post-dam Peak Flood**  
**Magnitudes and Frequencies for**  
**Salt Creek at Rowell Gauge Station**

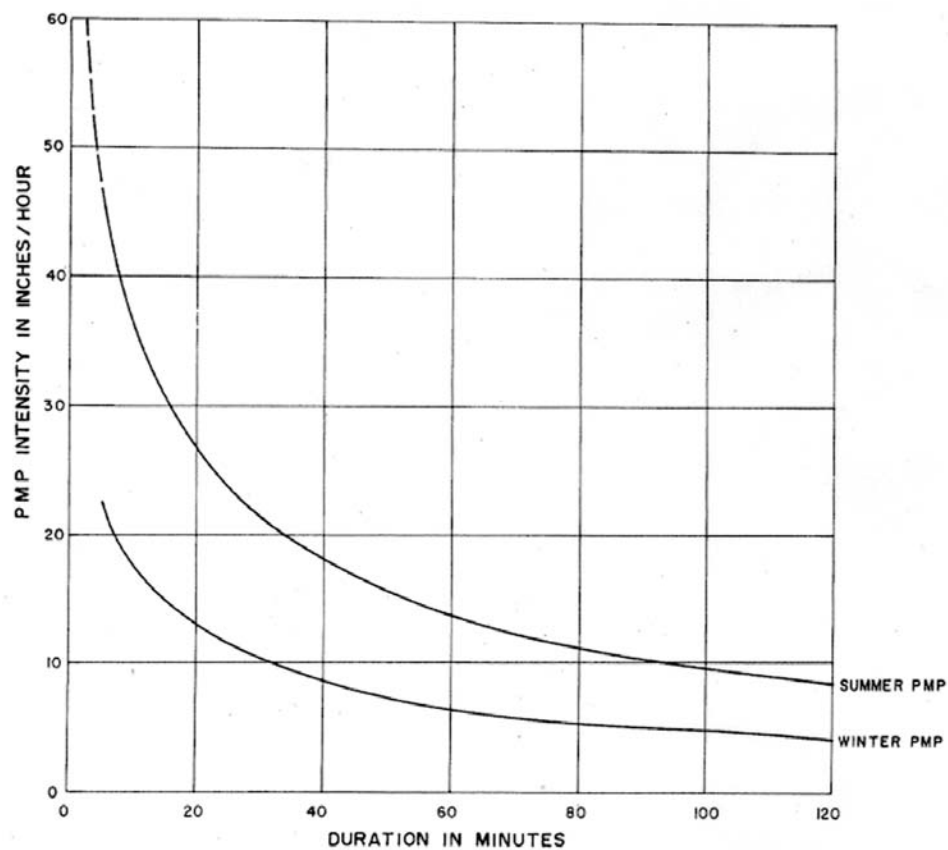


**NOTE:**  
*Based on daily mean discharge values.*

Data Source:  
USGS, 2002

Not to Scale

Site Safety Analysis Report for  
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**Figure 2.4-6**  
**Summer and Winter PMP**  
**Intensity Duration Curves**



Legend

Data Source  
CPS, 2002

Not to Scale