

DRESDEN STATION

RADIOACTIVE WASTE AND ENVIRONMENTAL MONITORING

ANNUAL REPORT 1980

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INTRODUCTION

The Dresden Station is located approximately twelve miles southwest of Joliet, Illinois, at the confluence of the Des Plaines and Kankakee Rivers where they form the Illinois River. This station uses three boiling water reactor (GE design) to generate electricity. Unit 1 began operating in 1960 and has a rated power output of 200 megawatts electrical (MWe). Units 2 and 3 began operating in 1970 and 1971, respectively, each with a rated power output of 800 MWe. The General Electric Morris Operation Plant (GEMo) is located adjacent to Dresden.

Liquid effluents from Dresden are released to the Illinois River in controlled batches after radioassay of each batch. Gaseous effluents are released to the atmosphere after delay to permit decay of short half-life gases. Releases to the atmosphere are calculated on the basis of analyses of daily grab samples of noble gases and continuously collected composite samples of iodine and particulate matter. The results of effluent analyses are summarized on a monthly basis and reported semiannually to the Nuclear Regulatory Commission as required per Technical Specifications. Airborne concentrations of noble gases, I-131 and particulate radioactivity in off-site areas are calculated using effluent and meteorological data and data on isotopic composition of effluents.

Environmental monitoring is conducted by sampling at indicator and reference (background) stations in the vicinity of the Dresden

plant to measure changes in radiation or radioactivity levels that may be attributable to plant operation. If significant changes attributable to Dresden are measured, these changes are correlated with effluent releases. External gamma radiation exposure from noble gases and I-131 in milk are the critical pathways at this site; however, a comprehensive environmental monitoring program is conducted which includes many other pathways of less importance.

SUMMARY

Gaseous and liquid effluents for the period remained below the Technical Specification limits. Calculations of environmental concentrations based on effluent, Illinois River flow, and meteorological data for the period indicate that consumption by the public of radioactive materials attributable to the plant are unlikely to exceed regulatory limits. Gamma radiation exposure from noble gases released to the atmosphere represented the critical pathway for the period with a maximum individual dose estimated to be 0.5 mrem for the year, when a shielding and occupancy factor of 0.7 is assumed. Environmental monitoring results confirm that dose via other pathways was not significant.

1.0 EFFLUENTS

1.1 GASEOUS EFFLUENTS TO THE ATMOSPHERE

Measured concentrations and isotopic composition of noble gases, radioiodine, and particulate radioactivity released to the atmosphere during the year, are listed in Table 1.1-1. A total of $7.0 \text{ E}+01$ curies of noble gases was released with a maximum release rate of $3.1 \text{ E}+02 \text{ } \mu\text{Ci/sec}$ from Dresden Unit 1 and a total of $3.3 \text{ E}+04$ curies of noble gases with a maximum release rate of $2.2 \text{ E}+04 \text{ } \mu\text{Ci/sec}$ was released from Dresden Units 2 and 3.

A total of 1.92 curies of I-131 was released during the year.

A total of 7.9 curies of beta-gamma emitters and non-detectable amounts of alpha emitters were released as airborne particulate matter.

1.2 LIQUIDS RELEASED TO ILLINOIS RIVER

A total of $5.3 \text{ E}+06$ liters of radioactive liquid wastes containing 0.36 curies (excluding tritium) were discharged from the station. These wastes were released at a maximum monthly average concentration of $3.2 \text{ E}-09 \text{ } \mu\text{Ci/ml}$ from Units 2 and 3 which is 3.2% of the Technical Specification release limits for unidentified radioactivity. There was no discharge from Unit 1. During the same period, 30.5 curies of tritium and $1.2 \text{ E}-03$ curies of alpha radioactivity were released. Monthly release estimates and principal radionuclides in liquid effluents are given in Table 1.2-1.

2.0 SOLID RADIOACTIVE WASTE

Solid radioactive wastes were shipped to Richland, Washington and Barnwell Nuclear Center, South Carolina. The record of waste shipments is summarized in Table 2.0-1.

3.0 DOSE TO MAN

3.1 GASEOUS EFFLUENT PATHWAYS

GAMMA DOSE RATES

Gamma air and whole body dose rates off-site were calculated based on measured release rates, isotopic composition of the noble gases, and meteorological data for the period (Table 3.1-1). Isodose contours of whole body dose are shown in Figure 3.1-1 for the year. Based on measured effluents and meteorological data, the maximum dose to an individual would be 0.5 mrem for the year, with an occupancy or shielding factor of 0.7 included. The maximum gamma air dose was 1.3 mrad.

BETA AIR AND SKIN RATES

The range of beta particles in air is relatively small (on the order of a few meters or less): consequently, plumes of gaseous effluents may be considered "infinite" for purpose of calculating the dose from beta radiation incident on the skin. However, the actual dose to sensitive skin tissues is difficult to calculate because this depends on the beta particle energies, thickness of inert skin, and clothing covering sensitive tissues. For purposes of this report the skin is taken to have a thickness of 7.0 mg/cm² and an occupancy factor of 1.0 is used. The skin dose from beta and gamma radiation for the year was 0.6 mrem.

The air concentrations of radioactive noble gases at the off-site receptor locations are given in Figure 3.1-2. The maximum off-site beta air dose for the year was 0.1 mrad.

RADIOACTIVE IODINE

The human thyroid exhibits a significant capacity to concentrate ingested or inhaled iodine, and the radioiodine, I-131, released during routine operation of the plant, may be made available to man thus resulting in a dose to the thyroid. The principal pathway of interest for this radionuclide is ingestion of radioiodine in milk by an infant. Calculations made in previous years indicate that contributions to doses from inhalation of I-131 and I-133, and I-133 in milk are negligible.

IODINE-131 CONCENTRATIONS IN AIR

The calculated concentration contours for I-131 in air are shown in Figure 3.1-3. Included in these calculations is an iodine cloud depletion factor which accounts for the phenomenon of elemental iodine deposition on the ground. The maximum off-site average concentration is estimated to be 3.6 E-01 pCi/m^3 for the year.

DOSE TO INFANTS THYROID

The hypothetical thyroid dose to an infant living near the plant via ingestion of milk was calculated. The radionuclide considered was I-131 and the source of milk was taken to be the nearest dairy farm with the cows pastured from May to October. The maximum infant's thyroid dose was 0.1 mrem during the year (Table 3.1-1).

CONCENTRATION OF PARTICULATES IN AIR

Concentration contours of radioactive airborne particulates are shown in Figure 3.1-4. The maximum off-site average level is estimated to be 9 E-02 pCi/m^3 .

SUMMARY OF DOSES

Table 3.1-1 summarizes the doses resulting from releases of airborne radioactivity via the different exposure pathways.

3.2 LIQUID EFFLUENT PATHWAYS

The three principal pathways through the aquatic environment for potential doses to man from liquid waste are ingestion of potable water, eating aquatic foods, and exposure while walking on the shoreline. Not all of these pathways are applicable at a given time or station but a reasonable approximation of the dose can be made by adjusting the dose formula for season of the year or type and degree of use of the aquatic environment. NRC* developed equations were used to calculate the doses to the whole body, lower GI tract, thyroid, bone and skin; specific parameters for use in the equations are given in the Commonwealth Edison Offsite Dose Calculation Manual. The maximum whole body dose for the year was ** mrem and no organ dose exceeded ** mrem.

*Nuclear Regulatory Commission, Regulatory Guide 1.109 (Rev 1).

**Data will be provided.

4.0 SITE METEOROLOGY

A summary of the site meteorological measurements taken during each calendar quarter of the year is given in Appendix II. The data are presented as cumulative joint frequency distributions of 300' level wind direction and wind speed class by atmospheric stability class determined from the temperature difference between the 300' and 35' levels. Data recovery for these measurements was nearly 100%.

5.0 ENVIRONMENTAL MONITORING

Table 5.0-1 provides an outline of the radiological environmental monitoring program as required in current Technical Specifications. This program went into effect in November 1977 and differs from previous programs in the number and types of analyses performed. Tables 5.0-2 to 5.0-5 summarize data for the year.

Except for tables of special interest, tables listing all data are no longer included in the annual report. All data tables are available for inspection at the Station or in the Corporate Offices.

Specific findings for various environmental media are discussed below.

5.1 GAMMA RADIATION

External radiation dose from on-site sources and noble gases released to the atmosphere was measured at eight indicator and nine reference (background) locations using solid lithium fluoride thermoluminescent dosimeters (TLD). A comparison of the TLD results for reference stations with on-site and off-site indicator stations is included in Table 5.1-1. An additional 52 TLDs were installed at one mile and site boundary, beginning on

June 1, 1980. Table 5.1-1 lists the results.

5.2 AIRBORNE I-131 and PARTICULATE RADIOACTIVITY

Concentrations of airborne I-131 and particulate radioactivity at monitoring locations are summarized in Tables 5.0-2 through 5.0-5. Locations of the samplers are the same as for direct radiation measurements, shown in Figure 5.0-1. Airborne I-131 remained below the LLD of 0.10 pCi/m^3 throughout the year.

Gross beta concentrations ranged from 0.01 to 0.22 for the indicator stations with an average concentration of 0.05 for the year. No radioactivity attributable to station operation was detected in any sample.

5.3 AQUATIC RADIOACTIVITY

Cooling water samples were collected daily and composited for analysis weekly for the Unit 1 Inlet canal and Units 1 and 2/3 Discharge Canals. Analytical results did not indicate any measurable radioactivity attributable to plant operation, except in two samples collected on April 4 and 11 at the discharge canal D-19-1. The gross beta concentration in these two samples was 148 and 440 pCi/l. Gamma isotopic and Strontium 89/90 analyses were performed as supplementary analyses. The results indicated the presence of cobalt-60 to account for the high activity measured which is attributable to plant operations.

Surface water samples were collected weekly from the Illinois River at the EJ and E Railroad Bridge and composited monthly to analyze for gamma emitters. The gamma emitters were below the detection limit of 10 pCi/l in all samples collected during the

year.

Well water samples were collected monthly beginning October 1980 and analyzed for tritium. The levels of tritium were generally in the range to be expected of this nuclide in this medium in the environment and were not attributable to station operation.

5.4 MILK

Milk samples were collected weekly during the grazing season and monthly during the balance of the year from four farms; the Davidson Farm located six miles northeast of Dresden Station, the Corbin Farm located about 10 miles south, the Mather Farm (background location) located about 16 miles northeast, and the Yunker Farm, five miles north-northwest, which replaced Davidson in May 1980 after Mr. Davidson sold his cows. I-131 was determined for each sample by a gamma spectrometry or chemical separation of I^- and beta counting. I-131 remained below the detection limits of 0.5 pCi/l during the grazing period (May to October) and 5.0 pCi/l during the non-grazing period (November to April).

5.5 SPECIAL COLLECTIONS

Service water contaminated by leaks in the LPCI heat exchanger was released into the cooling lake early in the year. To monitor effects on the concentrations of radioactivity in the cooling canal a program was begun in October 1978 of collecting weekly grab samples of water at the Dresden Road and County Line Road crossings of the canal. Concentrations of both gross beta and gamma activities have not indicated the presence of detectable concentrations of radioactivity due to the station. Data are listed on page 12.

6.0 ANALYTICAL PROCEDURES

A summary of the procedures used for analyzing radioactivity in environmental samples is given in Appendix III of the report for the period January through June 1975. Procedures used during the period covered by this report remain unchanged.

7.0 MILCH ANIMAL CENSUS WITHIN FIVE (5) MILES OF STATION

<u>Name of Farm or Farmer</u>	<u>Distance and Direction from Station</u>	<u>Number and Type</u>
Larry Yunker Minooka	4.8 miles NNW	45 cows

Survey conducted by Alan Lewis in October 1980. "Door-to-door" census.

DRESDEN

Radioactivity in Water Samples from Dresden Cooling Lake
(Weekly Collections)

Collection Date	Dresden Road Crossing		County Line Road Crossing		Collection Date	Dresden Road Crossing		County Line Road Crossing	
	pCi/l Gross β	pCi/l/ nuclide γ Emitters	pCi/l Gross β	pCi/l/ nuclide γ Emitters		pCi/l Gross β	pCi/l/ nuclide γ Emitters	pCi/l Gross β	pCi/l/ nuclide γ Emitters
01/05/80	6 \pm 2	<10	12 \pm 3	<10	07/05/80	<5	<10	<5	<10
01/12/80	5 \pm 2	<10	4 \pm 2	<10	07/12/80	5 \pm 3	<10	<5	<10
01/19/80	4 \pm 2	<10	.5	<10	07/19/80	5 \pm 3	<10	4 \pm 3	<10
01/26/80	5 \pm 2	<10	5 \pm 2	<10	07/26/80	4 \pm 2	<10	5 \pm 2	<10
02/02/80	<5	<10	4 \pm 2	<10	08/02/80	5 \pm 2	<10	2 \pm 2	<10
02/10/80	3 \pm 3	<10	5 \pm 3	<10	08/09/80	5 \pm 2	<10	<5	<10
02/16/80	5 \pm 2	<10	5 \pm 2	<10	08/17/80	29 \pm 4	<10	<5	<10
02/23/80	4 \pm 2	<10	5 \pm 2	<10	08/24/80	5 \pm 3	<10	6 \pm 3	<10
03/01/80	<5	<10	<5	<10	08/30/80	11 \pm 3	<10	<5	<10
03/08/80	4 \pm 2	<10	4 \pm 2	<10	09/06/80	5 \pm 3	<10	6 \pm 3	<10
03/15/80	4 \pm 3	<10	3 \pm 3	<10	09/13/80	4 \pm 3	<10	4 \pm 2	<10
03/22/80	4 \pm 2	<10	4 \pm 2	<10	09/20/80	5 \pm 3	<10	4 \pm 3	<10
03/29/80	<5	<10	7 \pm 2	<10	09/27/80	4 \pm 3	<10	5 \pm 3	<10
04/04/80	4 \pm 2	<10	<5	<10	10/05/80	4 \pm 2	<10	4 \pm 2	<10
04/12/80	7 \pm 3	<10	9 \pm 3	<10	10/12/80	5 \pm 3	<10	4 \pm 3	<10
04/29/80	<5	<10	<5	<10	10/19/80	6 \pm 3	<10	8 \pm 3	<10
04/26/80	4 \pm 3	<10	4 \pm 2	<10	10/25/80	6 \pm 2	<10	7 \pm 2	<10
05/03/80	15 \pm 3	<10	16 \pm 3	<10	11/01/80	5 \pm 3	<10	5 \pm 3	<10
05/10/80	6 \pm 2	<10	4 \pm 2	<10	11/08/80	6 \pm 3	<10	6 \pm 2	<10
05/17/80	<5	<10	7 \pm 3	<10	11/15/80	5 \pm 2	<10	4 \pm 2	<10
05/24/80	<5	<10	5 \pm 2	<10	11/23/80	4 \pm 2	<10	4 \pm 2	<10
05/31/80	7 \pm 2	<10	5 \pm 2	<10	11/29/80	5 \pm 2	<10	4 \pm 2	<10
06/07/80	7 \pm 2	<10	6 \pm 2	<10	12/06/80	8 \pm 3	<10	6 \pm 3	<10
06/14/80	<5	<10	<5	<10	12/13/80	4 \pm 2	<10	7 \pm 3	<10
06/22/80	4 \pm 2	<10	4 \pm 2	<10	12/20/80	8 \pm 3	<10	5 \pm 2	<10
06/28/80	<5	<10	<5	<10	12/27/80	5 \pm 2	<10	5 \pm 2	<10

APPENDIX I

DATA TABLES AND FIGURES

TABLE 1.1-1

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1980

DOCKET NOS.: 50-10

FACILITY: DRESDEN NUCLEAR POWER STATION - UNIT 1

I. Gaseous Effluents		UNITS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity Releases										
a) Total Release	curies	18.4	41.7	<LLD	<LLD	<LLD	<LLD	<LLD	60.1	
b) Maximum Release Rate (daily grab sample)	uCi/sec	1.3E+02	3.1E+02	---	---	---	---	---	3.1E+02	
c) Isotopes Released										
Kr-85m	curies	---	---	---	---	---	---	---	---	
Kr-87	curies	---	---	---	---	---	---	---	---	
Kr-88	curies	---	---	---	---	---	---	---	---	
Xe-133	curies	18.4	41.7	---	---	---	---	---	60.1	
Xe-135	curies	---	---	---	---	---	---	---	---	
Xe-135m	curies	---	---	---	---	---	---	---	---	
Xe-138	curies	---	---	---	---	---	---	---	---	
2. Iodine Releases										
a) Isotopes Released										
I-131	curies	4.1E-04	2.5E-04	2.7E-04	3.9E-04	3.0E-04	3.0E-04	3.0E-04	1.9E-03	
I-133	curies	---	---	---	---	---	---	---	---	
I-135	curies	---	---	---	---	---	---	---	---	
b) Percent of Chimney Limit	%	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
c) Average Release Rate	uCi/sec	6.9E00	1.7E+01	---	---	---	---	---	3.8E00	

Table 1.1-1 (continued)

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1980

DOCKET NOS.: 50-10

FACILITY: DRESDEN NUCLEAR POWER STATION - UNIT 1

I. Gaseous Effluents		UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity Releases										
a) Total Release	curies	<LLD	<LLD	<LLD	<LLD	<LLD	10.2	<LLD	10.2	
b) Maximum Release Rate (daily grab sample)	uCi/sec	---	---	---	---	---	1.2E+02	---	1.2E+02	
c) Isotopes Released										
Kr-85m	curies	---	---	---	---	---	---	---	---	
Kr-87	curies	---	---	---	---	---	---	---	---	
Kr-88	curies	---	---	---	---	---	---	---	---	
Xe-133	curies	---	---	---	---	---	10.2	---	10.2	
Xe-135	curies	---	---	---	---	---	---	---	---	
Xe-135m	curies	---	---	---	---	---	---	---	---	
Xe-138	curies	---	---	---	---	---	---	---	---	
2. Iodine Releases										
a) Isotopes Released										
I-131	curies	2.7E-04	3.1E-04	3.2E-04	2.8E-04	2.6E-04	2.7E-04	2.7E-04	1.7E-03	
I-133	curies	---	---	---	---	---	---	---	---	
I-135	curies	---	---	---	---	---	---	---	---	
b) Percent of Chimney Limit	%	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
c) Average Release Rate	uCi/sec	1.0E-04	1.2E-04	1.2E-04	1.0E-04	1.0E-04	1.0E-04	1.0E-04	1.1E-04	
d) Percent of Chimney Limit	%	---	---	---	---	---	0.01	---	0.01	
e) Average Release Rate	uCi/sec	---	---	---	---	---	3.9E00	---	6.4E-01	

Table 1.1-1 (continued)

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1980

DOCKET NOS.: 50-10

FACILITY: INECCDH NUCLEAR POWER STATION - UNIT 1

1. Gaseous Effluents (continued)		UNITS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
3. Particulate Releases		mCi/sec	1.58	1.49	1.52	1.43	0.92	0.98	7.92	
a) Gross Radioactivity (BY)										
b) Gross Alpha Radioactivity		mCi								
c) Isotopes Released		mCi								
Cr-51		mCi								
Ni-54		mCi	0.11	0.11	0.18	0.07		0.23	0.70	
Co-58		mCi								
Co-60		mCi	1.01	1.35	0.67	0.87	0.61	0.01	4.52	
Sr-89		mCi								
Sr-90		mCi				0.01	0.04	0.02	0.07	
Zr-95		mCi								
Nb-95		mCi								
Ru-103		mCi								
I-131		mCi								
Cs-134		mCi		0.03	0.03	0.11		0.23	0.40	
Cs-137		mCi	0.46		0.64	0.37	0.27	0.49	2.23	
Ba-140		mCi								
Ce-141		mCi								
Ce-144		mCi								
d) Percent of chimney limit		%	0.03	0.03	0.02	0.02	0.01	0.02	0.02	
e) Average release rate		uCi/sec	5.9E-04	6.0E-04	5.7E-04	5.5E-04	3.5E-04	3.8E-04	5.1E-04	
h. Sum of Iodines & Particulates		%	0.03	0.03	0.03	0.03	0.02	0.02	0.03	
a) Percent of Chimney Limit										
5. Gaseous Tritium		curies	<LD	<LD	<LD	<LD	<LD	<LD	<LD	
a) Total Release		uCi/sec								
b) Average Release Rate										

Table 1.1-1 (continued)

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1980

DOCKET NOS.: 50-10

FACILITY: DRESDEN NUCLEAR POWER STATION - UNIT 1

I. Gaseous Effluents (continued)		UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
3. Particulate Releases		milli-curies								
a) Gross Radioactivity (Bq)		mCi	1.13	0.50	0.35	0.29	0.37	0.37	3.04	
b) Gross Alpha Radioactivity		mCi								
c) Isotopes Released		mCi								
Cr-51		mCi								
Nr-54		mCi		0.08			0.04	0.17	0.29	
Co-58		mCi								
Co-60		mCi			0.24	0.08			0.32	
Sr-89		mCi	0.58	0.29	0.03	0.16	0.28	0.04	1.40	
Sr-90		mCi	0.44	0.03		0.03	0.05	0.01	0.58	
Zr-95		mCi								
Rb-95		mCi								
Ru-103		mCi								
I-131		mCi								
Cs-134		mCi	0.11		0.02				0.13	
Cs-137		mCi		0.08	0.09			0.15	0.32	
Ba-140		mCi								
Ce-141		mCi								
Cr-144		mCi								
d) Percent of chimney limit		%								
e) Average release rate		uCi/sec	0.02	0.01	0.01	0.01	0.01	0.01	0.01	
h. Sum of Iodines & Particulates			4.2E-04	1.9E-04	1.5E-04	1.1E-04	1.4E-04	1.4E-04	1.9E-04	
a) Percent of Chimney Limit		%	0.02	0.01	0.01	0.01	0.01	0.01	0.01	
5. Gaseous Tritium										
a) Total Release		curies	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	
b) Average Release Rate		uCi/sec								

Table 1.1-1 (continued)

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1980

DOCKET NOS.: 50-237, 50-249

FACILITY: Dresden Nuclear Power Station-Units 2/3

I. Gaseous Effluents		UNITS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity Releases ^a										
a) Total Release	2/3 chimney	curies	1021.2	227.3	12.1	133.0	1153.2	633.3	3180.1	6.60.1.f. (1)
b) Maximum Release Rate	(daily grab sample)	uCi/sec	2.0E+03	9.1E+02	1.4E+02	6.8E+02	1.7E+03	7.4E+02	2.0E+03	6.60.1.f. (2)
c) Isotopes Released										
	Kr-85m	curies	---	---	---	---	24.6	12.7	37.3	6.60.1.f. (4)
	Kr-87	curies	---	---	---	---	---	15.8	15.8	
	Kr-88	curies	210.4	---	---	---	66.8	27.9	305.1	
	Xe-133	curies	175.9	227.3	12.1	---	39.8	39.4	494.5	
	Xe-135	curies	634.9	---	---	133.0	205.8	152.9	1126.6	
	Xe-135m	curies	---	---	---	---	---	66.8	66.8	
	Xe-133	curies	---	---	---	---	816.2	317.5	1134.0	
d) Percent of Chimney Limit		%	0.04	0.01	0.01	0.01	0.05	0.03	0.02	6.60.1.f. (3)
e) Average Release Rate		uCi/sec	3.8E+02	9.1E+01	4.5E+00	5.1E+01	4.3E+02	2.4E+02	2.0E+02	
2. Chimney Iodine Releases										
a) Isotopes Released										
	I-131	curies	9.5E-02	3.5E-02	1.4E-02	1.4E-02	1.1E-01	1.5E-01	4.2E-01	
	I-133	curies	8.3E-01	8.8E-02	1.1E-01	1.2E-01	1.0E00	8.0E-01	3.0E00	
	I-135	curies	1.4E00	2.2E-01	3.1E-01	2.8E-01	2.2E00	5.2E-01	4.9E00	
b) Percent of Chimney Limit		%	0.83	0.39	0.15	0.16	1.01	1.37	0.62	6.60.1.f. (3)
c) Average Release Rate		uCi/sec	3.6E-02	1.4E-02	5.2E-03	5.4E-03	4.0E-02	5.9E-02	2.7E-02	

Table 1.1-1 (continued)

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1980

DOCKET NOS.: 50-237, 50-249

FACILITY: Dresden Nuclear Power Station-Units 2/3

I. Gaseous Effluents		UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity Releases										
a) Total Release		curies	1599.3	4484.9	12546.0	5982.0	2140.0	2821.5	29573.7	6.60.1.f. (1)
b) Maximum Release Rate (daily grab sample)		uCi/sec	3.4E+03	1.3E+04	2.2E+04	1.4E+04	2.8E+03	4.6E+03	2.2E+04	6.60.1.f. (2)
c) Isotopes Released										6.60.1.f. (4)
Kr-85m		curies	87.8	96.4	253.4	100.5	16.2	4.2	558.5	
Kr-87		curies	---	126.9	---	244.7	---	---	371.6	
Kr-88		curies	---	173.1	315.6	263.8	88.4	15.0	1055.9	
Xe-131		curies	355.0	1764.4	1656.1	440.3	246.3	2786.5	7248.6	
Xe-135		curies	1156.5	658.4	2820.4	984.0	452.2	15.8	6087.3	
Xe-135m		curies	---	308.6	1189.4	747.7	---	---	2245.7	
Xe-133		curies	---	1357.1	6111.1	3201.0	1336.9	---	12006.1	
d) Percent of Chimney Limit		%	0.07	0.19	0.56	0.26	0.09	0.13	0.21	6.60.1.f. (3)
e) Average Release Rate		uCi/sec	6.0E+02	1.7E+03	4.8E+03	2.2E+03	8.3E+02	1.1E+03	1.9E+03	
2. Chimney Iodine Releases										6.60.1.f. (1)
a) Isotopes Released										
I-131		curies	3.7E-01	3.0E-01	2.1E-01	2.4E-01	2.4E-01	1.6E-01	1.5E00	
I-133		curies	1.3E00	1.3E00	8.6E-01	1.1E00	9.1E-01	1.1E00	6.6E00	
I-135		curies	1.4E00	2.3E00	1.5E00	2.1E00	1.6E00	2.1E00	1.1E+01	
b) Percent of Chimney Limit		%	3.28	2.69	1.98	2.20	2.23	1.51	2.22	6.60.1.f. (3)
c) Average Release Rate		uCi/sec	1.4E-01	1.1E-01	8.2E-02	9.1E-02	9.3E-02	6.1E-02	9.6E-02	

Table 1.1-1 (continued)

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station - Unit 2/3

DOCKET NOS.: 50-237, 50-249

YEAR: 1980

I. Gaseous Effluents(continued)	UNITS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
3. Chimney Particulate Release	milli-								
a) Gross Radioactivity(β - γ)	curies	526.25	206.76	105.84	122.33	528.59	744.25	2234.02	6.6D.1.f.(1)
b) Gross Alpha Radioactivity	mCi								
c) Isotopes Released									6.6D.1.f.(1)
Cr-51	mCi	---	---	---	---	---	---	---	
Mn-54	mCi	---	1.65	1.11	4.37	0.21	17.94	25.28	
Co-58	mCi	---	---	---	---	---	---	---	
Co-60	mCi	---	14.08	5.39	---	2.01	154.06	191.44	
Sr-90	mCi	72.83	64.41	34.53	---	49.48	53.88	316.86	
Sr-90	mCi	0.42	0.48	0.32	---	0.37	0.45	2.36	
I-131	mCi	21.58	19.48	9.44	---	45.93	69.29	165.72	
Cs-134	mCi	---	0.16	---	---	0.53	---	0.69	
Cs-137	mCi	9.84	1.94	1.72	---	3.44	5.13	22.07	
Ba-140	mCi	391.22	79.40	49.77	57.63	423.93	436.43	1438.38	
Ce-141	mCi	5.00	11.99	2.34	2.38	2.69	7.07	31.47	
Zr-95/Nb-95	mCi	18.89/3.79	---/---	---/---	---/---	---/---	---/---	18.89/3.79	
Ru-103	mCi	2.68	13.17	1.22	---	---	---	17.07	
d) Percent of Chimney Limit	%	4.57	2.32	1.13	1.35	4.82	6.68	3.32	6.6D.1.f.(3)
e) Average Release Rate	uCi/sec	2.0E-01	8.3E-02	4.0E-02	4.7E-02	2.0E-01	2.9E-01	1.4E-01	
4. Vent Stack Iodine Release									6.6D.1.f.(1)
a) Isotopes Released									
I-131	curies	1.2E-02	8.2E-03	1.6E-03	2.0E-03	4.5E-03	7.4E-03	3.6E-02	
I-133	curies	6.4E-02	1.7E-03	5.6E-03	8.5E-03	2.2E-02	2.9E-02	1.3E-01	
I-135	curies	1.1E-01	---	---	---	1.1E-01	5.2E-02	2.7E-01	
b) Percent of Vent Stack Limit	%	3.60	2.74	0.50	0.64	1.40	2.38	1.92	6.6D.1.f.(3)
c) Average Release Rate	uCi/sec	4.3E-03	3.2E-03	6.0E-04	7.7E-04	1.7E-03	2.9E-03	2.3E-03	

Table 1.1-1 (continued)

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station - Unit 2/3

DOCKET NOS.: 50-237, 50-249

YEAR: 1980

I. Gaseous Effluents(continued)	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
3. Chimney Particulate Release									
a) Gross Radioactivity(β - γ)	milli-curies	1162.56	973.09	921.54	922.45	857.00	830.41	5668.05	6.6D.1.f.(1)
b) Gross Alpha Radioactivity	mCi								
c) Isotopes Released									6.6D.1.f.(1)
Cr-51 /Fe-59	mCi	4.53	---	4.52	---	---	---	4.53 4.52	
Mn-54	mCi	2.21	5.25	7.65	9.79	---	.08	24.98	
Co-58 /Nb-95	mCi	---	1.07	---	4.62	---	1.58	5.69 1.58	
Co-60	mCi	4.65	37.07	21.56	137.59	2.74	---	203.61	
Sr-90	mCi	191.59	203.57	269.27	86.53	215.19	132.87	1099.02	
Sr-90	mCi	1.05	1.65	.74	1.66	1.37	.83	7.30	
I-131	mCi	463.98	189.07	98.70	147.38	140.38	98.15	1137.66	
Cs-134	mCi	---	1.56	2.58	4.25	---	.17	8.56	
Cs-137	mCi	2.32	8.76	4.97	25.58	4.12	1.74	47.49	
Ba-140	mCi	443.87	487.23	484.64	481.49	477.26	577.63	2952.12	
Ce-141	mCi	23.13	15.28	22.39	24.56	15.94	12.12	113.42	
Ce-144 /Ru-103	mCi	25.23	22.58	---	---	---	2.08	47.81 2.08	
Zn-65 /Zr-95		---	---	4.52	---	---	3.16	4.52 3.16	
d) Percent of Chimney Limit	%	10.32	8.48	8.50	8.27	7.79	7.68	8.29	6.6D.1.f.(3)
e) Average Release Rate	uCi/sec	4.3E-01	3.6E-01	3.6E-01	3.4E-01	3.3E-01	3.1E-01	3.6E-01	
4. Vent Stack Iodine Release									6.6D.1.f.(1)
a) Isotopes Released									
I-131	curies	6.5E-03	1.6E-02	9.3E-03	1.7E-02	2.6E-02	1.9E-02	9.4E-02	
I-133	curies	1.6E-02	6.3E-01	2.5E-02	3.0E-02	2.4E-01	2.5E-01	1.2E00	
I-135	curies	2.3E-02	8.1E-01	2.0E-02	1.7E-01	4.7E-01	5.3E-01	2.0E00	
b) Percent of Vent Stack Limit	%	2.03	4.99	2.98	5.29	8.41	5.93	4.92	6.6D.1.f.(3)
c) Average Release Rate	uCi/sec	2.4E-03	6.0E-03	3.6E-03	6.4E-03	1.0E-02	7.1E-03	5.9E-03	

Table 1.1-1 (continued)

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station - Unit 2/3

DOCKET NOS.: 50-237, 50-249

YEAR: 1980

I. Gaseous Effluents (Continued)	UNITS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
5. Vent Stack Particulate Release	mili-								
(a) Gross Radioactivity (B-Y)	curies	59.86	46.86	51.89	82.95	81.37	55.68	378.61	
(b) Gross Alpha Radioactivity	mCi								6.6D.1.f.(1)
(c) Isotopes Released									
Cr-51	mCi	2.11	1.26	2.19	---	2.18	6.28	14.02	6.6D.1.f.(1)
Mn-54	mCi	3.55	4.43	5.80	9.19	5.73	1.81	30.51	
Co-58	mCi	1.04	1.01	1.21	1.23	1.22	0.39	6.10	
Fe-59	mCi	1.49	1.65	1.07	2.12	1.12	0.40	7.25	
Co-60	mCi	21.17	23.25	21.38	52.78	30.80	9.11	158.49	
Zn-65	mCi	---	0.18	0.52	---	1.15	0.05	1.90	
Sr-89	mCi	0.09	1.05	1.34	0.59	0.98	0.42	4.47	
Sr-90	mCi	0.02	0.05	0.08	0.13	0.11	0.05	0.44	
Zr-95	mCi	1.81	0.76	1.11	2.12	0.23	0.11	6.14	
Nb-95	mCi	2.59	1.40	2.16	3.50	1.85	0.21	11.71	
Ru-103	mCi	1.90	1.80	1.65	1.34	0.58	0.17	7.44	
(continued on next page)									
(d) Percent Vent Stack Limit	%	18.62	15.59	16.14	26.67	25.32	17.90	20.18	6.6D.1.f.(2)
(e) Average Release Rate	uCi/sec	2.2E-02	1.9E-02	1.9E-02	3.2E-02	3.0E-02	2.1E-02	2.4E-02	
6. Sum of Iodine and Particulate									
a) Percent of Chimney Limit	%	5.40	2.71	1.28	1.50	5.83	8.05	3.95	6.6D.1.f.(3)
b) Percent of Vent Stack Limit	%	22.22	18.33	16.64	27.31	26.71	20.28	22.10	
7. Gaseous Tritium									
a) Release	curies	5.8E+01	1.3E+01	7.2E+02	2.3E+01	3.2E+01	1.3E+01	8.6E+02	
b) Average Release Rate	uCi/sec	2.2E+01	5.1E00	2.7E+02	8.4E00	1.2E+01	5.0E00	5.5E+01	
c) Percent Tech Spec Limit	%	NA	NA	NA	NA	NA	NA	NA	

Table 1.1-1 (continued)

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1980

DOCKET NOS.: 50-27, 50-249

FACILITY: Dresden Nuclear Power Station - Unit 2/3

I. Gaseous Effluents (Continued)		UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
5. Vent Stack Particulate Release		mili-curies	56.58	111.55	89.32	106.00	142.90	111.05	617.60	
(a) Gross Radioactivity (B-Y)										6.60, l.f. (1)
(b) Gross Alpha Radioactivity		μCi								
(c) Isotopes Released										
Cr-51		mCi	4.01	25.73	6.40	28.34	18.09	13.71	96.28	6.60, l.f. (1)
Mn-54		mCi	3.28	0.91	2.09	3.63	0.43	4.81	15.32	
Cr-58		mCi	0.35	1.75	1.77	2.71	2.01	1.89	10.48	
Fe-59		mCi	0.74	0.44	0.79	1.64	0.50	1.64	5.75	
Co-60		mCi	22.72	8.32	13.74	14.54	7.63	19.00	85.95	
Zn-65		mCi	---	0.32	0.54	---	0.59	1.28	2.73	
Sr-89		mCi	3.81	4.41	3.36	1.17	5.96	5.64	24.35	
Sr-90		mCi	0.18	0.08	0.06	0.51	0.13	0.16	1.12	
Zr-95		mCi	---	0.43	0.41	0.74	0.29	0.82	2.69	
Nb-95		mCi	0.52	0.45	0.93	1.01	0.34	1.18	4.43	
Ru-103		mCi	0.27	0.62	0.66	1.62	0.68	0.50	4.35	
(continued on next page)										
(d) Percent Vent Stack Limit		%	17.60	34.71	28.78	32.98	46.00	34.55	32.37	6.60, l.f. (3)
(e) Average Release Rate		mCi/sec	2.1E-02	4.2E-02	3.5E-02	4.0E-02	5.5E-02	4.1E-02	3.9E-02	
6. Sum of Iodine and Particulate										
a) Percent of Chimney Limit		%	13.60	11.17	10.47	10.47	10.02	9.18	10.51	6.60, l.f. (3)
b) Percent of Vent Stack Limit		%	19.53	39.69	31.76	38.27	54.41	40.48	37.29	
7. Gaseous Tritium										
a) Release		curies	6.3E+01	7.9E00	8.3E+01	5.8E+01	6.1E+01	4.8E+01	3.2E+02	
b) Average Release Rate		μCi/sec	2.3E+01	3.0E00	3.2E+01	2.2E+01	2.3E+01	1.8E+01	2.0E+01	
c) Percent Tech Spec Limit		%	NA	NA	NA	NA	NA	NA	NA	

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PRESDEN NUCLEAR POWER STATION-UNITS 2/3

1. Gaseous Effluents (continued)	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
5. Vent Stack Particulate									
(c) -Isotopes released									
Ag-110m	mCi	---	0.03	---	0.13	0.03	0.25	0.44	
Sb-124	mCi	---	0.08	---	0.31	0.16	0.09	0.62	
I-131	mCi	6.14	13.79	45.89	17.32	28.02	18.23	129.39	
Ca-134	mCi	0.35	0.21	---	0.23	0.07	---	0.86	
Ca-136	mCi	---	1.13	0.68	0.67	1.58	0.81	4.87	
Ca-137	mCi	1.24	0.78	0.85	0.38	0.38	0.18	3.81	
Ba-140	mCi	11.94	50.26	10.58	29.78	73.75	39.64	215.95	
La-140	mCi	---	---	---	---	---	---	---	
Ce-141	mCi	0.40	1.81	0.77	1.10	2.28	1.22	7.58	
Ce-144	mCi	0.63	---	---	---	---	---	0.63	

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station-Units 2/3

I. Gaseous Effluents (continued)		UNITS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
8. Gross Radioactivity Release	Units 2/3 Vent Stack									
a) Total Release		curies	205.1	143.4	14.2	13.9	273.7	542.1	1192.4	6.60.1.f.(1)
b) Maximum Release Rate (daily grab sample)		uci/sec	9.4E+01	1.5E+02	7.2E00	6.8E00	2.1E+02	2.5E+02	12.5E+02	6.60.1.f.(2)
c) Isotopes Released										6.60.1.f.(4)
Kr-85m		curies	---	---	0.7	---	9.2	4.7	14.6	
Kr-87		curies	---	---	---	---	---	---	---	
Kr-88		curies	---	---	---	---	---	---	---	
Xe-133		curies	30.2	133.8	3.8	---	18.4	22.3	210.5	
Xe-135		curies	78.5	9.6	7.7	13.9	246.1	203.9	559.7	
Xe-135m		curies	96.4	---	---	---	---	311.2	407.6	
Xe-130		curies	---	---	---	---	---	---	---	
d) Percent of Vent Stack Limit		%	0.09	0.06	0.01	0.01	0.11	0.23	0.08	6.60.1.f.(3)
e) Average Release Rate		uci/sec	7.7E+01	5.7E+01	5.3E00	5.4E00	1.0E+02	2.1E+02	7.6E+01	

TABLE 1.2-1

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1960

DOCKET NOS.: 50-10

FACILITY: INDEPENDENT NUCLEAR POWER STATION - UNIT 1

II. Liquid Effluents	UNITS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity (μCi)	Curies	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE		
a) Total Release	uci/ml								6.6D.1.e.(1)
b) Average Concentration Released	uci/ml								6.6D.1.e.(h)
c) Maximum Concentration Released	%								6.6D.1.e.(5)
d) Percent of Tech Spec Limit based on average conc. released									6.6D.1.e.(6)
2. Tritium	Curies								6.6D.1.e.(8)
a) Total Release	uci/ml								
b) Average Concentration Released	%								
c) Percent of Tech Spec Limit									
3. Dissolved Noble Gases	Curies								
a) Total Release	uci/ml								
b) Average Concentration Released	%								
c) Percent of Tech Spec Limit									
4. Gross Alpha Radioactivity	Curies								
a) Total Release	uci/ml								
b) Average Concentration Released									
5. Volume of Liquid Waste to Discharge Canal	Liters								6.6D.1.e.(2)
6. Volume of Dilution Water	Liters								6.6D.1.e.(3)

Table 1.2-1 (continued)

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1960

DOCKET NOS.: 50-10

FACILITY: INESDIN NUCLEAR POWER STATION - UNIT 1

II. Liquid Effluents		UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity ($\beta\gamma$)		Curies	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	
a) Total Release		uci/ml								6.6D.1.e.(1)
b) Average Concentration Released		uci/ml								6.6D.1.e.(4)
c) Maximum Concentration Released		%								6.6D.1.e.(5)
d) Percent of Tech Spec Limit										6.6D.1.e.(6)
based on average conc. released										
2. Tritium										
a) Total Release		Curies								6.6D.1.e.(8)
b) Average Concentration Released		uci/ml								
c) Percent of Tech Spec Limit		%								
3. Dissolved Noble Gases										
a) Total Release		Curies								
b) Average Concentration Released		uci/ml								
c) Percent of Tech Spec Limit		%								
4. Gross Alpha Radioactivity										
a) Total Release		Curies								
b) Average Concentration Released		uci/ml								
5. Volume of Liquid Waste to Discharge Canal		Liters								6.6D.1.e.(2)
6. Volume of Dilution Water		Liters								6.6D.1.e.(3)

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station - Unit 1

II. Liquid Effluents (continued)		UNITS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
7. Isotopes Released		milli-curies	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE		
	Pb-54	mCi								
	Co-58	mCi								
	Fe-59	mCi								
	Co-60	mCi								
	Zn-65	mCi								
	Sr-89	mCi								
	Sr-90	mCi								
	Zr-95	mCi								
	Nb-95	mCi								
	Ru-103	mCi								
	I-131	mCi								
	Cs-134	mCi								
	Cs-137	mCi								
	Ba-140	mCi								
	La-140	mCi								
	Ce-141	mCi								
	Ce-144	mCi								

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station - Unit 1

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Table 1.2-1 (continued)

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: DRESDEN NUCLEAR POWER STATION - UNIT 2/3

DOCKET NOS.: 50-237, 50-249

YEAR: 1980

II. Liquid Effluents	UNITS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity ($\beta\gamma$)									
a) Total Release ($^{235}\text{Radwaste}$)	Milli-Curies	8.81	139.88	57.72	NO DISCHARGE	45.67	45.42	297.50	
b) Average Concentration Released	uci/ml	9.8E-10	4.7E-09	3.9E-09		3.9E-09	1.6E-09	3.2E-09	
c) Maximum Concentration Released	uci/ml	4.1E-08	4.8E-08	4.2E-08		4.4E-08	4.3E-08	4.8E-08	
d) Percent of Tech Spec Limit based on average conc released	%	0.98	4.67	3.90		3.90	1.60	3.16	
2. Tritium									
a) Total Release	Curies	8.8E-01	1.1E+01	9.3E00		3.3E00	3.8E00	2.8E+01	
b) Average Concentration Released	uci/ml	9.8E-08	3.6E-07	6.2E-07		2.8E-07	1.4E-07	3.0E-07	
c) Percent of Tech Spec Limit	%	NA	NA	NA		NA	NA	NA	
3. Dissolved Noble Gases									
a) Total Release	Curies	NONE	NONE	NONE		NONE	NONE	NONE	
b) Average Concentration Released	uci/ml	---	---	---		---	---	---	
c) Percent of Tech Spec Limit	%	---	---	---		---	---	---	
4. Gross Alpha Radioactivity									
a) Total Release	Curies	3.3E-05	5.5E-04	4.2E-04		6.9E-05	8.0E-05	1.2E-03	
b) Average Concentration Released	uci/ml	3.7E-12	1.8E-11	2.8E-11		5.9E-12	2.8E-12	1.2E-11	
5. Volume of Liquid Waste to Discharge Canal	Liters	1.0E+05	1.8E+06	1.5E+06		6.5E+05	7.5E+05	4.8E+06	
6. Volume of Dilution Water	Liters	9.0E+09	3.0E+10	1.5E+10		1.2E+10	2.8E+10	9.4E+10	

Table 1.2-1 (continued)

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1980

DOCKET NOS.: 50-237, 50-249

FACILITY: BRUNSWICK NUCLEAR POWER STATION - UNIT 2/3

II. Liquid Effluents		UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity ($\beta\beta'$)		Milli-Curies								
a) Total Release (2/3 Radwaste)			67.40	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	67.40	
b) Average Concentration Released		uci/ml	8.0E-10						8.0E-10	
c) Maximum Concentration Released		uci/ml	4.1E-08						4.1E-08	
d) Percent of Tech Spec Limit		%	0.80						0.80	
based on average conc. released										
2. Tritium										
a) Total Release		Curies	2.5E00						2.5E00	
b) Average Concentration Released		uci/ml	3.0E-08						3.0E-08	
c) Percent of Tech Spec Limit		%	NA						NA	
3. Dissolved Noble Gases										
a) Total Release		Curies	NONE						NONE	
b) Average Concentration Released		uci/ml	---						---	
c) Percent of Tech Spec Limit		%	---						---	
4. Gross Alpha Radioactivity										
a) Total Release		Curies	6.3E-05						6.3E-05	
b) Average Concentration Released		uci/ml	7.5E-13						7.5E-13	
5. Volume of Liquid Waste to Discharge Canal		Liters	4.5E+05						4.5E+05	
6. Volume of Dilution Water		Liters	8.4E+10						8.4E+10	

Table 1.2-1 (continued)

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1980

DOCKET NOS.: 50-237, 50-242

FACILITY: Dresden Nuclear Power Station - Unit 2/3

II. Liquid Effluents (continued)		UNITS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
7. Isotopes Released		mCi/cu ft				NO DISCHARGE				
Cr-51		mCi	8.81	139.88	57.72		45.67	65.42	297.50	
Hn-54		mCi	0.97	9.13	6.78		4.12	2.46	23.46	
Co-58		mCi	0.14	3.01	1.44		2.50	---	7.09	
Fe-59		mCi	0.31	4.76	1.90		---	---	6.97	
Co-60		mCi	3.57	36.54	19.88		21.21	10.79	91.99	
Zn-65		mCi	---	---	---		---	---	---	
Sr-89		mCi	---	0.28	0.04		2.87	1.37	4.56	
Sr-90		mCi	---	0.13	0.02		0.37	0.18	0.70	
Zr-95		mCi	0.56	9.13	5.15		---	---	14.84	
Nb-95		mCi	1.26	12.39	7.32		3.62	1.26	25.85	
Ru-103		mCi	0.44	7.18	3.70		---	---	11.32	
I-131		mCi	---	5.48	---		6.61	---	12.09	
Cs-134		mCi	---	---	---		---	8.39	8.39	
Cs-137		mCi	---	0.71	0.24		4.37	20.97	26.29	
Ba-140		mCi	---	1.89	---		---	---	1.89	
La-140		mCi	---	2.15	---		---	---	2.15	
Ce-141		mCi	0.46	15.65	4.97		---	---	21.08	
Ce-144		mCi	1.10	13.70	6.15		---	---	20.95	
Ag-110m		mCi	---	1.44	---		---	---	1.44	
Sb-124		mCi	---	---	0.13		---	---	0.13	

REPORT OF RADIOACTIVE EFFLUENTS

DOCKET NOS.: 50-237, 50-219

YEAR: 1980

II. Liquid Effluents (continued)									
7. Isotopes Released									
ISOTOPES RELEASED	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
Cr-51	mCi	67.40						67.40	
Mn-54	mCi	2.82						2.82	
Co-58	mCi								
Fe-59	mCi								
Co-60	mCi	11.86						11.86	
Zn-65	mCi								
Sr-89	mCi	.59						.59	
Sr-90	mCi	1.15						1.15	
Zr-95	mCi								
Nb-95	mCi								
Ru-103	mCi								
I-131	mCi	23.67						23.67	
Cs-134	mCi								
Cs-137	mCi	5.92						5.92	
Ba-140	mCi								
La-140	mCi								
Ce-141	mCi	21.41						21.41	
Ce-144	mCi								

Table 1.2-1 (continued)

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station - Unit 2/3

DOCKET NOS.: 50-237, 50-249

YEAR: 1980

II. Liquid Effluents (continued)	UNITS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
8. Gross Radioactivity (A)									
LPCI Service H ₂ O Heat Exchanger									
a) Total Release	Milli-Curies	30.29	18.67	12.24	0.85	16.51	11.35	89.91	
b) Average Concentration Released ^a	uci/ml	2.2E-10	2.2E-10	1.8E-10	9.0E-12	1.1E-10	1.2E-10	1.3E-10	
c) Maximum Concentration Released ^a	uci/ml	1.7E-06	2.4E-06	3.9E-06	1.5E-07	2.5E-06	5.3E-07	3.9E-06	
d) Percent of Tech Spec Limit	%	0.22	0.22	0.18	0.01	0.11	0.12	0.13	
based on average conc released									
9. Tritium									
a) Total Release	Curies	1.0E00	1.8E-01	1.2E-01	1.1E00	1.4E00	2.5E00	6.3E00	
b) Average Concentration Released	uci/ml	7.2E-09	1.9E-09	1.7E-09	1.2E-08	9.3E-09	2.5E-08	9.0E-09	
c) Percent of Tech Spec Limit	%	NA	NA	NA	NA	NA	NA	NA	
10. Dissolved Noble Gases									
a) Total Release	Curies	NONE	NONE	NONE	NONE	NONE	NONE	NONE	
b) Average Concentration Released	uci/ml	---	---	---	---	---	---	---	
c) Percent of Tech Spec Limit	%	---	---	---	---	---	---	---	
11. Gross Alpha Radioactivity									
a) Total Release	Curies	1.1E-05	3.4E-05	3.2E-06	1.5E-06	1.0E-05	1.2E-05	7.2E-05	
b) Average Concentration Released	uci/ml	7.8E-14	4.0E-13	4.7E-14	1.6E-14	6.7E-14	7.5E-14	1.0E-13	
12. Volume of Liquid Waste to Discharge Canal	Liters	5.6E+05	5.6E+05	9.9E+04	1.8E+05	2.1E+05	3.8E+05	2.0E+06	
13. Volume of Dilution Water	Liters	1.4E+11	8.6E+10	6.8E+10	9.4E+10	1.5E+11	1.6E+11	7.0E+11	

^aPrior to dilution by 1275 acre cooling lake and subsequent discharge to Illinois River.

Table 1.2-1 (continued)

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station - Unit 2/3 DOCKET NOS.: 50-237, 50-242 YEAR: 1980

		UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
II. Liquid Effluents (continued)										
8. Gross Radioactivity ($\beta\beta$) LPCT Service H ₂ O Heat Exchanger	a) Total Release	Milli-Curies	4.59	11.07	1.29	2.22	0.48	6.54	26.19	
	b) Average Concentration Released	ucI/ml	3.0E-11	6.5E-11	8.7E-12	1.4E-11	3.2E-12	4.3E-11	2.8E-11	
	c) Maximum Concentration Released	ucI/ml	5.4E-07	9.0E-07	1.3E-07	1.1E-07	1.0E-07	3.8E-07	9.0E-07	
	d) Percent of Tech Spec Limit	%	0.03	0.07	0.01	0.01	0.01	0.04	0.03	
	based on average conc released									
9. Tritium	a) Total Release	Curies	8.5E-01	2.2E+01	6.5E-02	3.2E-01	2.0E-01	1.5E00	2.5E+01	
	b) Average Concentration Released	ucI/ml	5.7E-09	1.3E-07	4.3E-10	2.1E-09	1.4E-09	9.8E-09	2.7E-08	
	c) Percent of Tech Spec Limit	%	NA	NA	NA	NA	NA	NA	NA	
10. Dissolved Noble Gases	a) Total Release	Curies	NONE	NONE	NONE	NONE	NONE	NONE	NONE	
	b) Average Concentration Released	ucI/ml								
	c) Percent of Tech Spec Limit	%								
11. Gross Alpha Radioactivity	a) Total Release	Curies	2.7E-06	2.5E-06	6.2E-07	1.1E-06	2.7E-07	8.0E-06	1.3E-05	
	b) Average Concentration Released	ucI/ml	1.8E-14	1.5E-14	4.2E-15	7.1E-15	1.8E-15	5.2E-14	1.6E-14	
12. Volume of Liquid Waste to Discharge Canal			1.3E+05	3.4E+05	3.9E+04	2.1E+05	6.6E+04	4.8E+05	1.3E+06	
13. Volume of Dilution Water			1.5E+11	1.7E+11	1.5E+11	1.5E+11	1.5E+11	1.5E+11	9.2E+11	

prior to dilution by 1275 acre cooling lake and subsequent discharge to Illinois River.

YEAR: 1980

REPORT OF RADIOACTIVE EFFLUENTS

DOCKET NOS.: 50-237, 50-212

EG/CILLI: Dresden Nuclear Power Station - Unit 2/3

II. Liquid Effluents (continued)		UNITS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
14. Isotopes Released (IPCI Service H ₂ O Heat Exchanger)		Milli-Curies	30.29	18.67	12.24	0.85	16.51	11.35	89.91	
Rn-54		mCi	4.36	2.61	1.83	0.01	1.31	0.91	11.03	
Co-58		mCi	0.57	---	0.20	---	0.60	0.31	1.68	
Co-60		mCi	23.84	14.22	9.60	0.75	13.11	9.63	71.13	
Sr-89		mCi	0.07	0.03	0.04	0.02	0.01	0.04	0.21	
Sr-90		mCi	0.01	0.03	0.01	---	0.02	---	0.07	
Cs-134		mCi	0.52	0.37	0.20	0.01	0.68	0.07	1.85	
Cs-137		mCi	0.92	1.41	0.36	0.08	0.75	0.39	3.91	
Ce-144		mCi	---	---	---	---	0.03	---	0.03	

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1980

[illegible]

TABLE 2.0-1

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1980

DOCKET NOS.: 50-10, 50-237, 50-549

FACILITY: Dresden Nuclear Power Station

UNITS		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
I. Solid Waste Shipped Offsite For Burial or Disposal									
1. Spent Resins, Filter Sludges, Evaporator Bottoms, etc.									
a) Quantity Shipped	cubic meters	31.5	56.3	40.8	57.4	58.0	59.2	303.2	6.5.D.g.(1)
b) Radioactivity	curies	271.5	466.4	671.6	145.9	368.6	301.6	2225.6	6.5.D.g.(2)
2. Dry compressible waste, contaminated equipment, etc.									
a) Quantity Shipped	cubic meters	20.5	34.2	68.4	61.3	40.1	115.3	339.8	6.5.D.g.(1)
b) Radioactivity	curies	1.2	0.6	6.8	5.6	5.9	9.1	29.2	6.5.D.g.(2)
II. Solid Waste Shipped Offsite For Burial or Disposal (Processed by contractor)									
1. Spent Resins, Filter Sludges, evaporator bottoms, etc.									
a) Quantity Shipped	cubic meters	0	0	0	0	0	0	0	6.5.D.g.(1)
b) Radioactivity	curies	0	0	0	0	0	0	0	6.5.D.g.(2)
2. Dry Compressible Waste, contaminated equipment, etc.									
a) Quantity	cubic meters	0	0	0	0	0	0	0	6.5.D.g.(1)
b) Radioactivity	curies	0	0	0	0	0	0	0	6.5.D.g.(2)

Table 2.0-1 (continued)

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station

DOCKET NOS.: 50-10, 50-237, 50-549

YEAR: 1980

I. Solid Waste Shipped Offsite For Burial or Disposal		UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	5 MO. TOTAL	TECH. SPEC. REF.
1. Spent Resins, Filter Sludges, Evaporator Bottoms, etc.										
a) Quantity Shipped		cubic meters	51.6	48.8	50.7	14.9	35.5	32.5	234.0	6.5.D.G.(1)
b) Radioactivity		curies	276.2	344.0	428.2	155.5	516.7	476.1	2194.7	6.5.D.G.(2)
2. Dry compressible waste, contaminated equipment, etc.										
a) Quantity Shipped		cubic meters	56.5	19.7	30.0	125.1	22.5	27.1	280.9	6.5.D.G.(1)
b) Radioactivity		curies	2.0	3.5	1.1	3.0	0.6	1.5	11.7	6.5.D.G.(2)
II. Solid Waste Shipped Offsite For Burial or Disposal (Processed by contractor)										
1. Spent Resins, Filter Sludges, evaporator bottoms, etc.										
a) Quantity Shipped		cubic meters	0	0	0	0	0	0	0	6.5.D.G.(1)
b) Radioactivity		curies	0	0	0	0	0	0	0	6.5.D.G.(2)
2. Dry Compressible Waste, contaminated equipment, etc.										
a) Quantity		cubic meters	0	0	0	0	0	0	0	6.5.D.G.(1)
b) Radioactivity		curies	0	0	0	0	0	0	0	6.5.D.G.(2)

Table 2.0-1 (continued)

DRESDEN NUCLEAR POWER STATION

SOLID WASTE DISPOSITION

YEAR 1980

MONTH	NUMBER OF SHIPMENTS	MODE OF TRANSPORTATION	DESTINATION
JAN	15	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
JAN	1	Motor Freight (Exclusive Use Only)	Richland, WA
FEB	22	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
FEB	2	Motor Freight (Exclusive Use Only)	Richland, WA
MAR	22	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
MAR	4	Motor Freight (Exclusive Use Only)	Richland, WA
APR	24	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
APR	3	Motor Freight (Exclusive Use Only)	Richland, WA
MAY	25	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
MAY	2	Motor Freight (Exclusive Use Only)	Richland, WA
JUN	25	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
JUN	6	Motor Freight (Exclusive Use Only)	Richland, WA

Table 2.0-1 (continued)

DRESDEN NUCLEAR POWER STATION

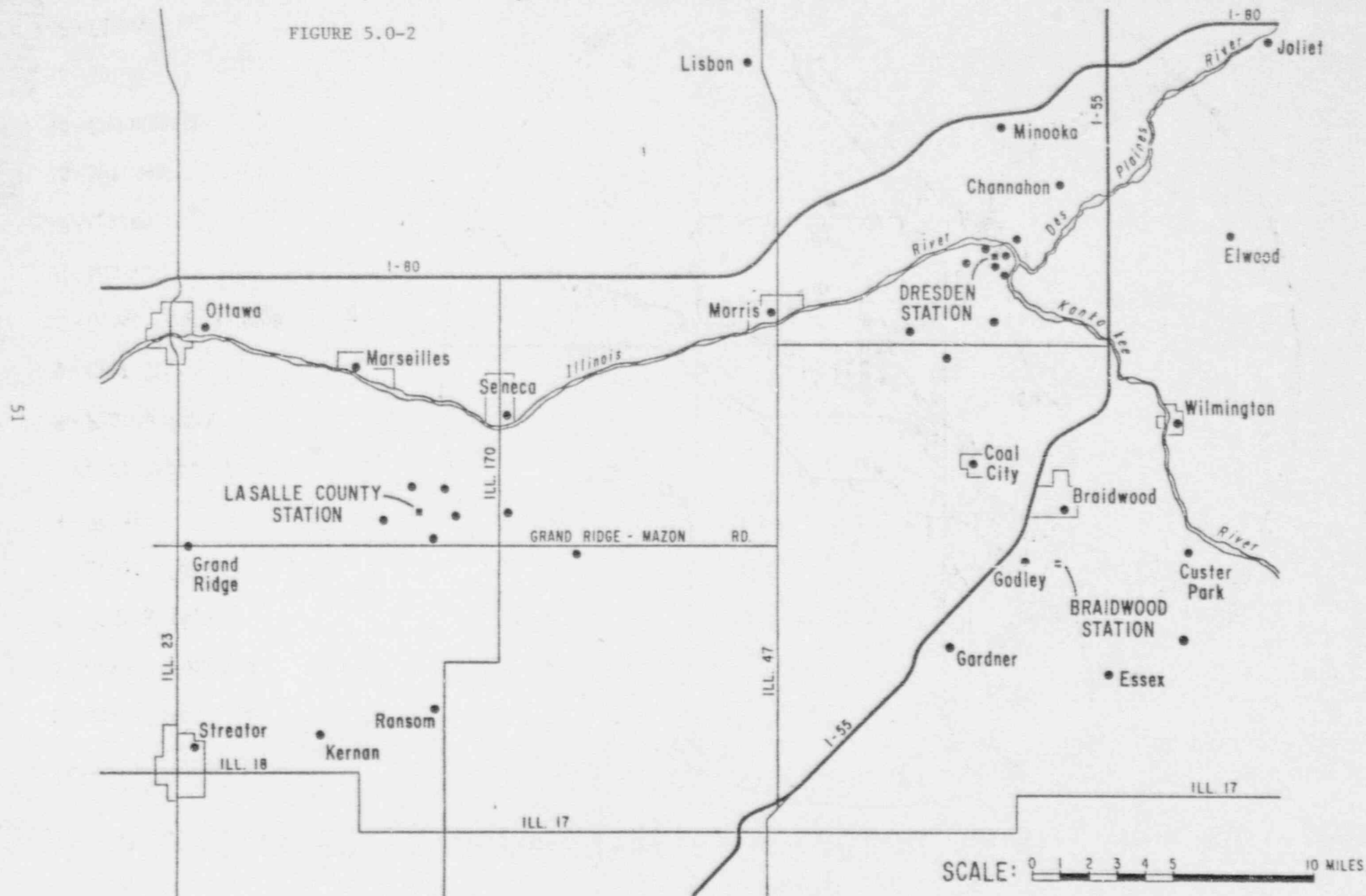
SOLID WASTE DISPOSITION

YEAR 1980

MONTH	NUMBER OF SHIPMENTS	MODE OF TRANSPORTATION	DESTINATION
JUL	22	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
JUL	2	Motor Freight (Exclusive Use Only)	Richland, WA
AUG	21	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
AUG	1	Motor Freight (Exclusive Use Only)	Richland, WA
SEP	19	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
SEP	2	Motor Freight (Exclusive Use Only)	Richland, WA
OCT	7	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
OCT	6	Motor Freight (Exclusive Use Only)	Richland, WA
NOV	17	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
NOV	1	Motor Freight (Exclusive Use Only)	Richland, WA
DEC	17	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
DEC	1	Motor Freight (Exclusive Use Only)	Richland, WA

LOCATIONS OF FIXED ENVIRONMENTAL RADIOLOGICAL MONITORING STATIONS BRAIDWOOD, DRESDEN, AND LA SALLE COUNTY NUCLEAR STATIONS

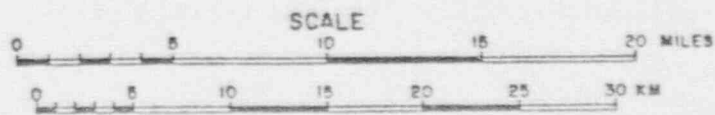
FIGURE 5.0-2



POOR ORIGINAL

50

- 1 - Onsite Station 1
- 2 - Onsite Station 2
- 3 - Onsite Station 3
- 4 - Collins Road
- 5 - Bennitt Farm
- 6 - Pheasant Trail
- 7 - Clay Products
- 8 - Prairie Park
- 9 - Coal City
- 10 - Goose Lake Villa
- 11 - Morris
- 12 - Lisbon
- 13 - Minooka
- 14 - Channahon
- 15 - Joliet
- 16 - Elwood
- 17 - Wilmington



SCALE

Table 3.1-1 (continued)

DRESDEN STATION - UNIT 2/3
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE January 1, 1980 - DECEMBER 31, 1980

DATE OF CALCULATION 02/26/81

TYPE	CURRENT PERIOD	CURRENT QUARTER	THIRD QUARTER	SECOND QUARTER	FIRST QUARTER	ANNUAL
GAMMA AIR (MRAD)	0.184E-01(SSE)	0.330E 00(SE)	0.103E 01(NNW)	0.911E-01(W)	0.536E-01(SSE)	0.126E 01(NNW)
BETA AIR (MRAD)	0.751E-02(NNW)	0.354E-01(SE)	0.575E-01(NNW)	0.120E-01(NNW)	0.447E-02(SSE)	0.851E-01(N)
WHOLE BODY (MREM)	0.766E-02(SE)	0.185E 00(SE)	0.350E 00(NNW)	0.585E-01(NW)	0.238E-01(S)	0.493E 00(NW)
SKIN (MREM)	0.167E-01(SE)	0.252E 00(SE)	0.437E 00(NNW)	0.862E-01(NW)	0.330E-01(S)	0.647E 00(NW)
ORGAN (MREM)	0.166E-01(NNW)	0.392E-01(SE)	0.565E-01(NNW)	0.734E-02(W)	0.635E-02(N)	0.102E 00(NNW)
CRITICAL ORG-PERS	TH-IN	TH-IN	TH-IN	TH-IN	TH-IN	TH-IN

COMPLIANCE STATUS

TYPE	10 CFR 50 APP. I QUARTERLY OBJECTIVE	% OF APP. I	10 CFR 50 APP. I YEARLY OBJECTIVE	% OF APP. I
GAMMA AIR (MRAD)	5.0	6.60	10.0	12.59
BETA AIR (MRAD)	10.0	0.35	20.0	0.43
WHOLE BODY (MREM)	2.5	7.40	5.0	9.87
SKIN (MREM)	7.5	3.36	15.0	4.32
ORGAN (MREM)	7.5	0.52	15.0	0.68
CRITICAL ORGAN-PERSON		(TH-IN)		(TH-IN)

CRITICAL ORGANS: BN=BONE, LV=LIVER, TH=TOTAL BODY
 TH=THYROID, KD=KIDNEY, LN=LUNG, GI=GI-LLI
 CRITICAL PERSON: AD=ADULT, IN=INFANT

TABLE 3.1-1

DEFENSE STATION - UNIT 3						
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES						
PERIOD OF RELEASE January 1, 1980 - DECEMBER 31, 1980						
DATE OF CALCULATION 02/26/81						
TYPE	CURRENT PERIOD	CURRENT QUARTER	THIRD QUARTER	SECOND QUARTER	FIRST QUARTER	ANNUAL
GAMMA AIR (VRAD)	0.000E 00(N)	0.135E-04(SSSE)	0.000F 00(N)	0.000F 00(N)	0.116F-03(ESE)	0.124E-03(ESE)
BETA AIR (VRAD)	0.000E 00(N)	0.112F-04(PE)	0.000F 00(N)	0.000F 00(N)	0.554E-04(ESE)	0.606F-04(ESE)
WHOLE BODY (MREM)	0.000E 00(N)	0.656F-05(S)	0.000F 00(N)	0.000E 00(N)	0.545F-04(ESE)	0.579F-04(ESE)
SKIN (MREM)	0.000F 00(N)	0.906F-05(SSSE)	0.000F 00(N)	0.000E 00(N)	0.844E-04(ESE)	0.908E-04(ESE)
ORGAN (MREM)	0.499F-05(N)	0.102F-04(F)	0.806E-04(SSSE)	0.190F-04(N)	0.166E-04(ESE)	0.887E-04(NNE)
CRITICAL ORG-PERS	TH-IN	TH-IN	BN-AD	TH-IN	LN-AD	BN-AD

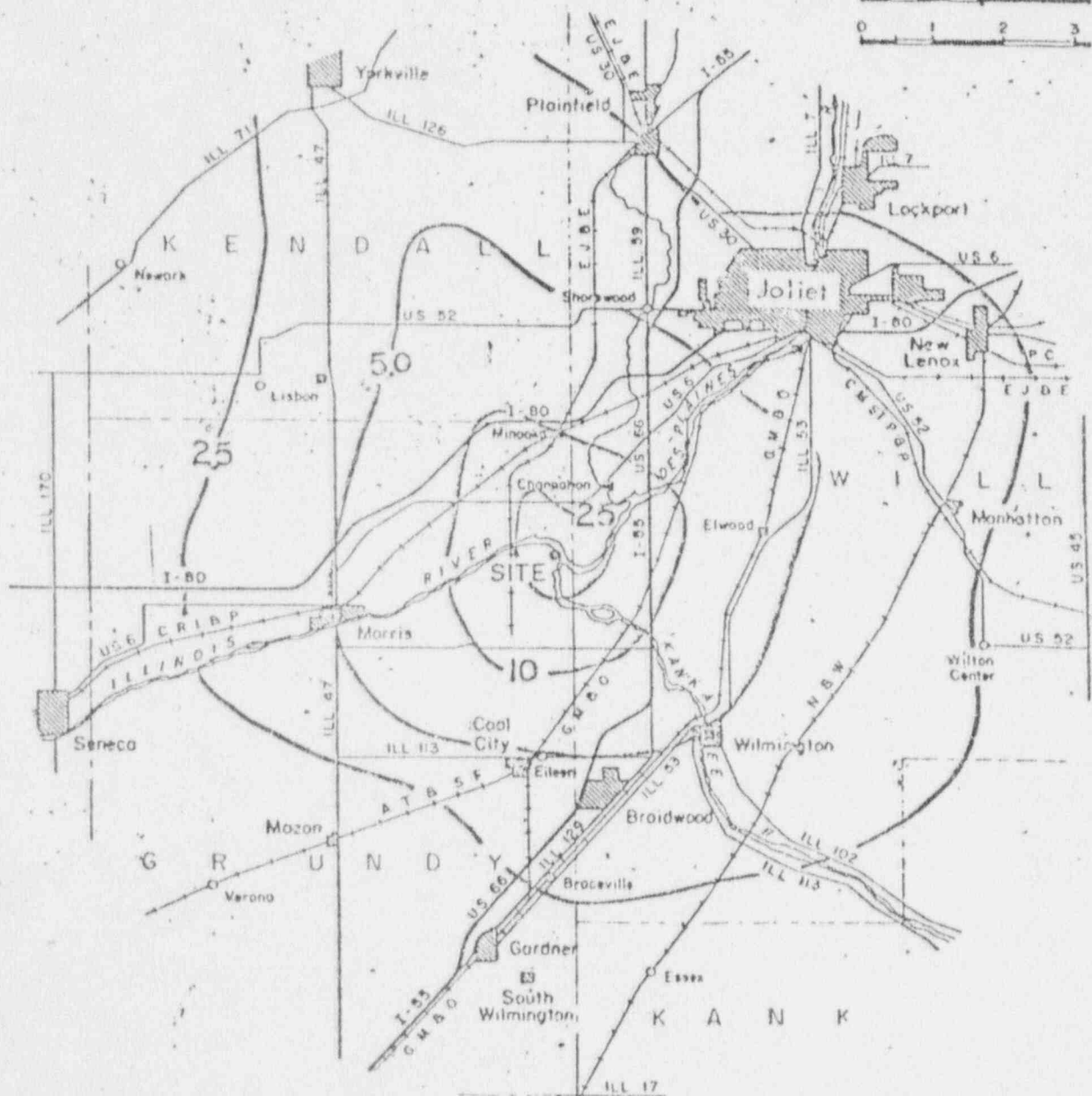
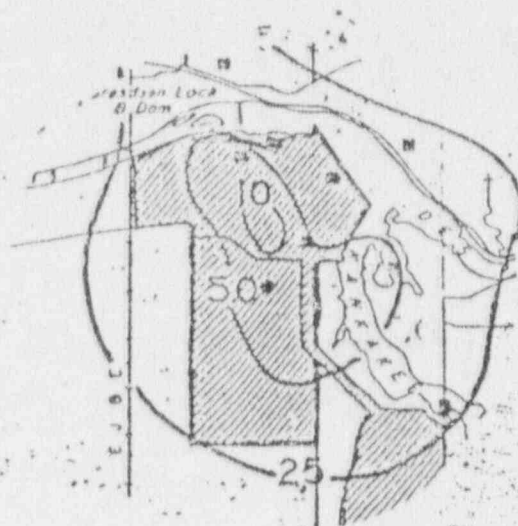
COMPLIANCE STATUS

10 CFR 50 APP. I					
QUARTERLY OBJECTIVE % OF APP. I					
10 CFR 50 APP. I					
YEARLY OBJECTIVE % OF APP. I					
TYPE					
GAMMA AIR (VRAD)	5.0	0.00	10.0	0.00	
BETA AIR (VRAD)	10.0	0.00	20.0	0.00	
WHOLE BODY (MREM)	7.5	0.00	5.0	0.00	
SKIN (MREM)	7.5	0.00	15.0	0.00	
ORGAN (MREM)	7.5	0.00	15.0	0.00	
CRITICAL ORG-PERS		(TH-IN)		(BN-AD)	

CRITICAL ORGANS: BN=BLIVER, LV=LIVER, TH=TOTAL BODY
 TH=THYROID, KO=KIDNEY, LN=LUNG, GI=GI-LLI
 CRITICAL PERSON: AD=ADULT, IN=INFANT

Estimated Cumulative Gamma Dose (mrem)
from Dresden Station for the period
January - December 1980.

Small figure - multiply by 10^{-1}
Large figure - multiply by 10^{-2}

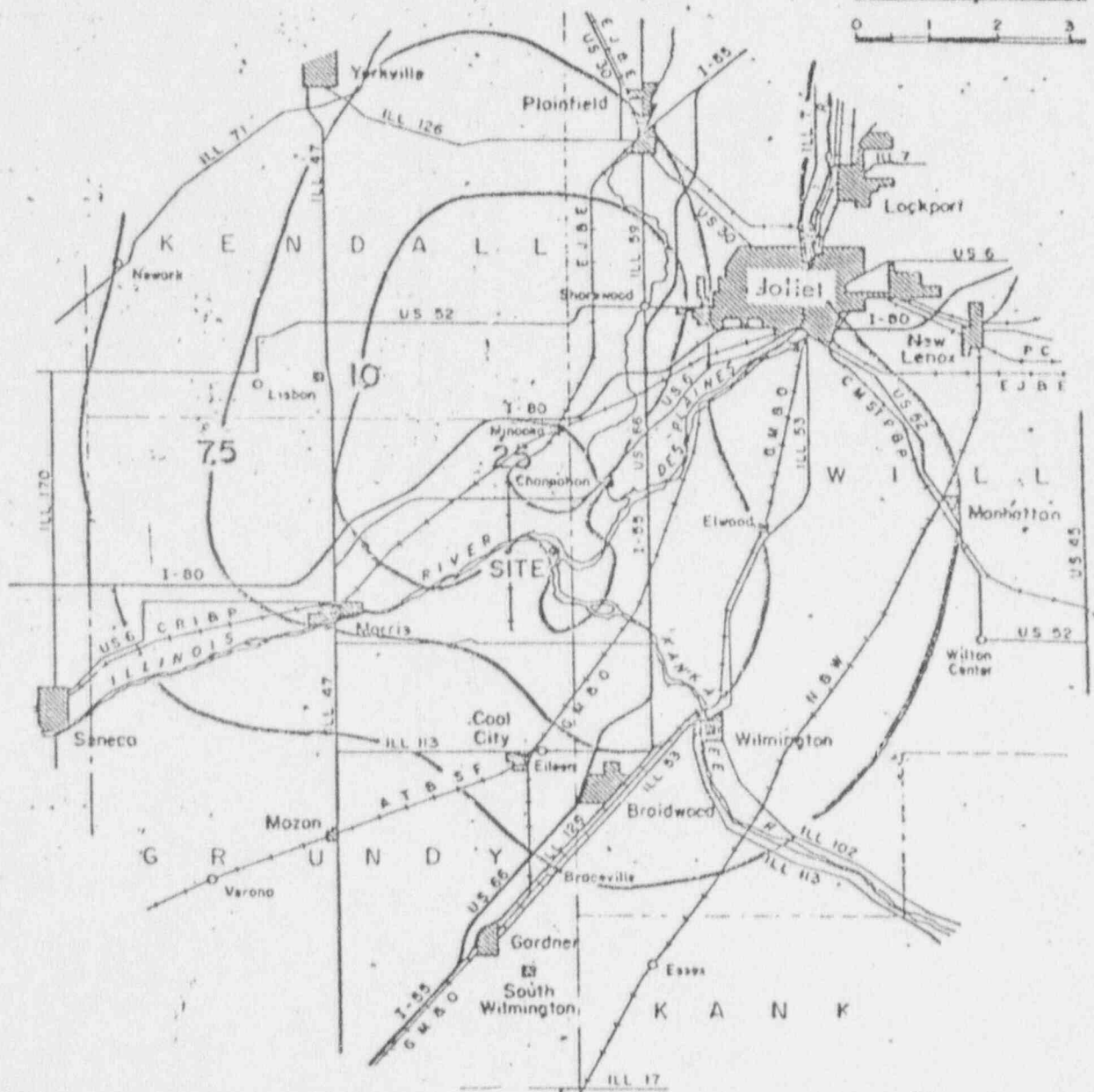


A map of the study area, showing the location of the study area (shaded area) relative to the city of Los Angeles and the Pacific Ocean. The map includes a scale bar (0 to 10 miles) and a north arrow.

Isopleth Labels

Small figure - multiply by 10^2

Large figure - multiply by 10^1 .



45

SCALE

0 5 10 15 20 MILES

0 5 10 15 20 25 30 KM

POOR ORIGINAL

TABLE 3.1-3

Estimated Total Concentration (pCi/m³) of Iodine from Dresden Station for the period January - December 1980.

Isopleth Labels

Small figure - multiply by 10⁻²

Large figure - multiply by 10⁻³

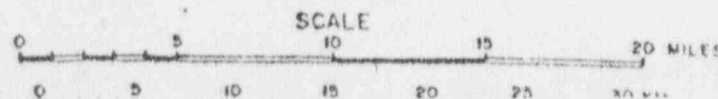
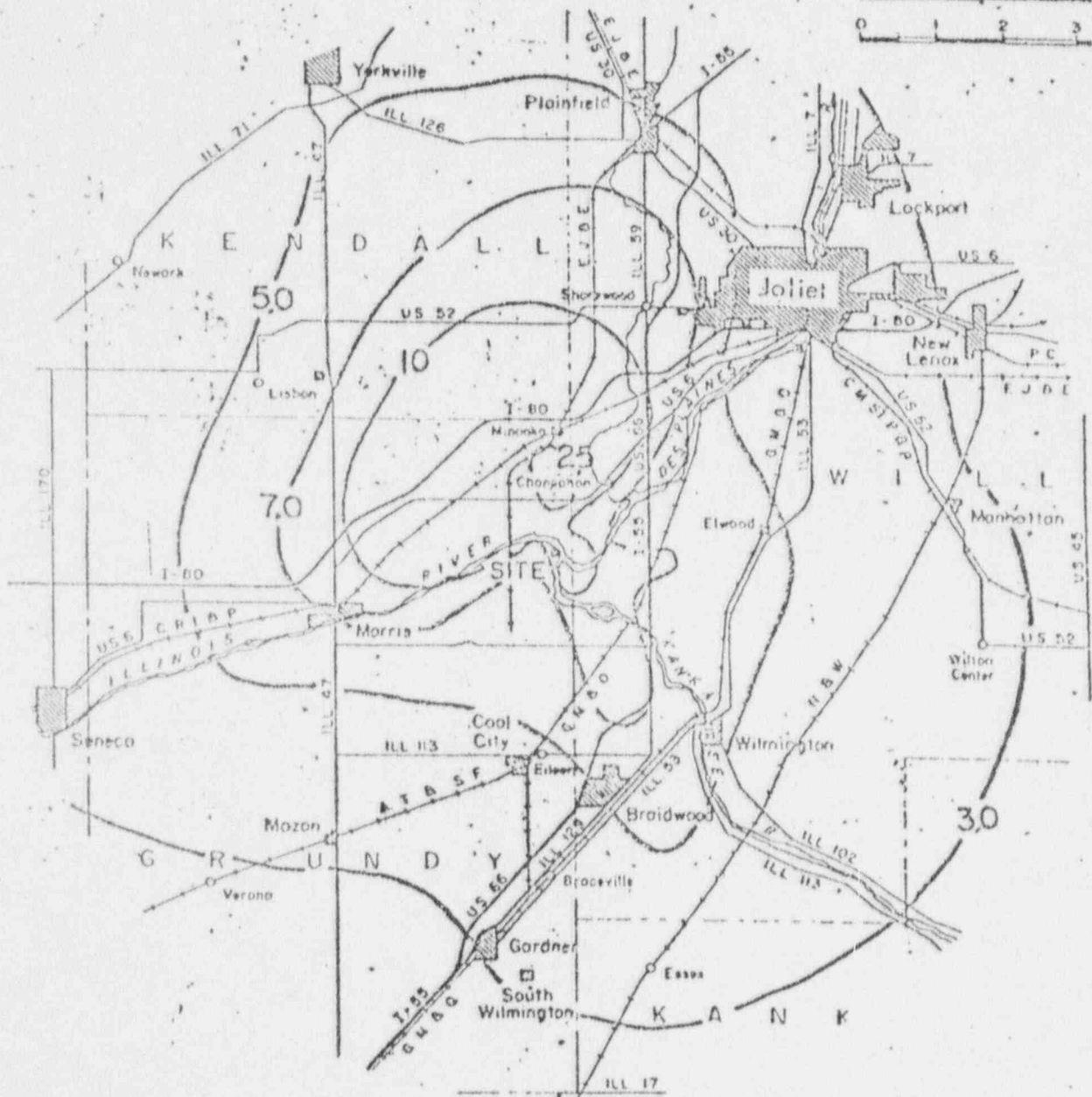
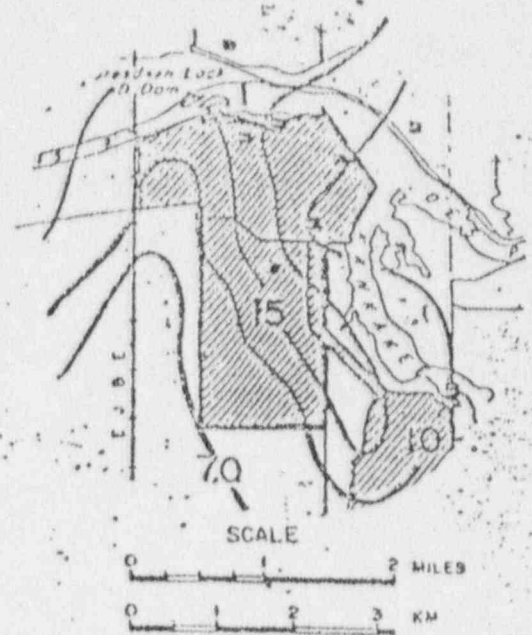


TABLE 3.1-4

Estimated Total Concentration (pCi/m³) of
Particulate Matter from Dresden Station for
the period January - December 1980.

Isopleth Labels

Small figure - multiply by 10⁻²

Large figure - multiply by 10⁻³

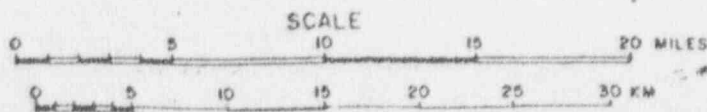
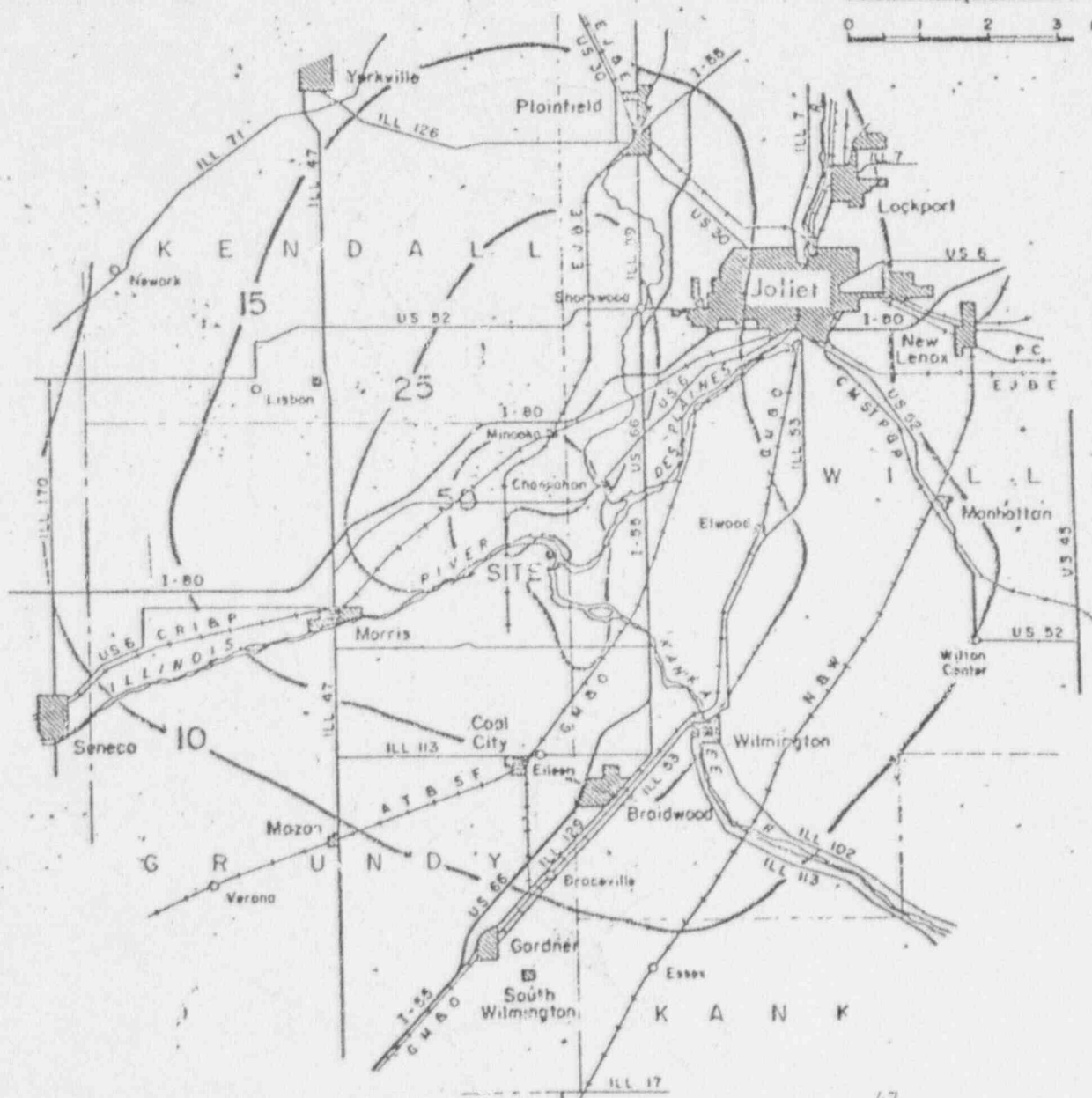
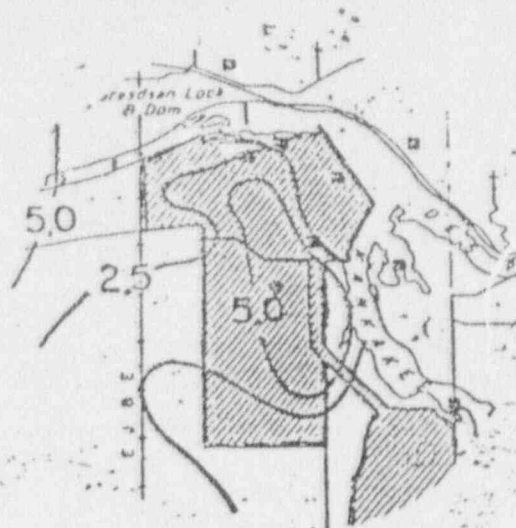


TABLE 5.0-1

DRESDEN STANDARD RADIOLOGICAL MONITORING PROGRAM

<u>Sample Media</u>	<u>Collection Site **</u>	<u>Type of Analysis</u>	<u>Frequency</u>	<u>Non-Routine Reporting Levels</u> <input :<="" th="" type="checkbox"/>
1. Air Monitoring	(a) Onsite and near field	*1. Filter - gross beta*	1. Weekly	Cs-134 10, Cs-137 20 pCi/m ³
	(1) Onsite Station #1	2. Charcoal - I-131	2. Bi-Weekly	0.9 pCi/m ³
	(2) Onsite Station #2			
	(3) Onsite Station #3	*3. Sampling Train -	3. Weekly	
	*4 Collins Road	Test and Maintenance		
	*5 Bennett Farm			
	*6 Pheasant Trail,			
	(b) Far Field			
	*1 Clay Products	*1. Filter Exchange	1. Weekly	Same as 1(a)
	*2 Prairie Park			
	3 Coal City	2. Charcoal Exchange	2. Bi-Weekly	When analyses
	*4 Goose Lake Village			
	*5 Morris	*3. Sampling Train -	3. Weekly	are made
	*6 Lisbon	Test and Maintenance		
	*7 Minooka			
	*8 Channahon			
	*9 Joliet			
	*10 Elwood			
	*11 Wilmington			
2. TLD	*Same as 1	Gamma Radiation	Quarterly	-
3. Fish	Dresden Pool of Illinois River	Gamma Isotopic	Semi-annual	Mn-54 3x10 ⁴ Fe-59 1x10 ⁴ Co-58 3x10 ⁴ Co-60 1x10 ⁴ Zn-65 2x10 ⁴ Cs-134 1x10 ³ Cs-137 2x10 ³ pCi/Kg wet weight

*Analytical costs shared with G.E.

** Additional information giving the distance and direction of individual sampling locations may be found in Appendix III of the 1973 report.

TABLE 5.0-1 (Cont.)

DRESDEN STANDARD RADIOLOGICAL MONITORING PROGRAM (CONT'D)

<u>Sample Media</u>	<u>Collection Site</u>	<u>Type of Analysis</u>	<u>Frequency</u>	<u>Non-Routine Reporting Levels</u> <input type="checkbox"/> :
4. Milk	(a) Davidson Farm	I-131	1. Weekly - Grazing Season - May to Oct	I-131 3 pCi/l
	(b) Dorin Farm		2. Monthly - Nov to Apr	Cs-134 70 pCi/l
	(c) Mather Farm			Cs-137 60 pCi/l Ba-La-140 300 pCi/l
5. Surface Water	Illinois River at EJ&E RR Bridge	Gamma Isotopic	Monthly Analysis of weekly composites	Footnote **
6. Cooling Water Sample	Δ(a) Inlet	Gross Beta	Weekly	
	(1) Unit 1			
	Δ(b) Discharge			
	(1) Unit 1			
	(2) Unit 2			
7. Sediment	(a) Dresden Lock and Dam	Gamma Isotopic	Annual	
8. Temperature Charts	E.J.&E RR Bridge	Give to Station Personnel	Monthly	

TABLE 5.0-1 (Cont.)

DRESDEN STANDARD RADIOLOGICAL MONITORING PROGRAM (CONT'D)

<u>Sample Media</u>	<u>Collection Site</u>	<u>Type of Analysis</u>	<u>Frequency</u>	<u>Non-Routine Reporting Levels</u> <input type="checkbox"/>
9. Dairy Census	a. Site boundary to 2 miles.	a. Enumeration by a door-to-door or equivalent counting technique.	Annually (during growing season)	-
	b. 2 miles to 5 miles.			
	c. At dairies listed in item 4.	b. Enumeration by using referenced information from county agricultural agents or other reliable sources.		
		c. Inquire as to feeding practices.		
		(1) pasture only		
		(2) feed and chop only		
		(3) pasture and feed; if both, ask farmer to estimate fraction of food from pasture:		
		< 25%		
		25-50%		
		50-75%		
		≥ 75%		

Note:

- * Bi-weekly shall mean that the frequency is once every other week.
- Average concentration over calendar quarter
- ** H-3 2×10^4 , Mn-54 1×10^3 , Fe-59 1×10^2 , Co-58 6×10^2 , Co-60 $\times 10^2$, Zn-65 2×10^2 , Zr-Nb-95 4×10^2 , I-131 2, Cs-134 30, Cs-137 50, Ba-La-140 1×10^2 pCi/l.
- ° A gamma isotopic analysis shall be performed whenever the gross beta concentration in a sample exceeds by five times (5x) the average concentration of the preceding calendar quarter for the sample location.
- Δ Provided by station personnel.

Table 5.0-2

Environmental Radiological Monitoring Program Quarter SummaryName of Facility: Dresden Nuclear Power StationDocket Number: 50-10, 50-237, 50-549Location of Facility: Grundy Illinois
County StateReporting Period: 1st Quarter 1980

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean ¹ (Range)	Location with Highest Mean		Control Locations Mean ¹ (Range)	Number of Non-routine Reported Measurements
				Name, Distance and Direction	Mean (Range)		
Air Particulates (pCi/L ³)	Gross β 76	0.01	0.04 (76/76) 0.01-0.16	ONS 2	0.05(12/12) 0.03-0.16	Not Measured	0
Airborne Iodine (pCi/m ³)	I-131 36	0.10	All LLD	Not Applicable		Not Measured	0
Gamma Background (mR/Qtr)	γ Dose 17	3	15.6 (8/8) 11.7-18.2	Bennitt Farm 0.9m@140°	18.2(1/1) 18.2	15.4 (9/9) 13.0-15.6	0
Milk (pCi/l)	I-131 9	5	All LLD	Not Applicable		All LLD	0
Cooling Water (pCi/l)	Gross β 35	5	5.2 (15/22) 4-10	Unit 1 Disch.	5.6 (8/13) 4-10	5.3 (8/13) 4-7	0
Surface Water (pCi/l)	γ Spec. 3	10	All LLD	Not Applicable		Not Measured	0

¹ Mean and range based on detectable measurements only. Fractions indicated in parentheses.

Table 5.0-3

Environmental Radiological Monitoring Program Quarter Summary

Name of Facility: Dresden Nuclear Power StationDocket Number: 50-10, 50-237, 50-549Location of Facility: Grundy Illinois
County StateReporting Period: 2nd Quarter 1980

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean ¹ (Range)	Location with Highest Mean		Control Locations Mean ¹ (Range)	Number of Non-routine Reported Measurements
				Name, Distance and Direction	Mean (Range)		
Air Particulates (pCi/m ³)	Gross β 78	0.01	0.03 (78/78) 0.01-0.05	ONS 2	0.04 (13/13) 0.02-0.05	Not Measured	0
Airborne Iodine (pCi/m ³)	I-131 42	0.10	All LLD	Not Applicable		Not Measured	0
Gamma Background (mR/Qtr)	γ Dose 17	3	14.7 (8/8) 11.7-15.6	5 stations equal	15.6 15.6	11.8 (9/9) 9.1-13.0	0
Milk (pCi/l)	I-131 29	5/0.5*	All LLD	Not Applicable		All LLD	0
Cooling Water (pCi/l)	Gross β 39	5	40 (17/26) 3-440	Unit 1 Discharge	69 (9/13)	6 (7/13) 4-9	0
	Co-60 2	10	230 (2/2) 220-240	Unit 1 Discharge	230 (2/2) 220-240	Not Measured	0
	Other γ 2	10	All LLD	Not Applicable		Not Measured	0
	Sr-89 2	10	All LLD	Not Applicable		Not Measured	0
	Sr-90 2	2	2 (1/1) 2	Unit 1 Discharge	2 (1/1) 2	Not Measured	0
Surface Water (pCi/l)	γ Spec. 3	10	All LLD	Not Applicable		Not Measured	0
Fish (pCi/g)	γ Spec. 2	0.1	All LLD	Not Applicable		All LLD	0

¹ Mean and range based on detectable measurements only. Fractions indicated in parentheses.

*November-April LLD = 5; May-September LLD = 0.5

Table 5.0-4

Environmental Radiological Monitoring Program Quarter SummaryName of Facility: Dresden Nuclear Power StationDocket Number: 50-10, 50-237, 50-549Location of Facility: Grundy Illinois
County StateReporting Period: 3rd Quarter 1980

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean ¹ (Range)	Location with Highest Mean		Control Locations Mean ¹ (Range)	Number of Non-routine Reported Measurements
				Name, Distance and Direction	Mean (Range)		
Air Particulates (pCi/m ³)	Gross B 78	0.01	0.04 (77/78) 0.01-0.07	Onsite 2 0.3 mi @ 50°	0.04 (13/13) 0.02-0.07	Not Measured	0
Airborne Iodine (pCi/m ³)	I-131 36	0.10	All LLD	Not Applicable		Not Measured	0
Gamma Background (mR/Qtr)	γ Dose 17 ²	3	10.2 (8/8) 9.1-10.4	7 stations equal	10.4 10.4	9.2 (9/9) 9.1-10.4	0
Milk (pCi/l)	I-131 39	0.05	All LLD	Not Applicable		All LLD	0
Cooling Water (pCi/l)	Gross B 38	5	6 (14/26) 4-10	Discharge Canal Unit 2/3	6 (7/13) 4-10	6 (9/12) 4-12	0
Surface Water (pCi/l)	γ Spec. 3	10	All LLD	Not Applicable		Not Measured	0
Fish (pCi/g wet)	γ Spec. 6	0.1	All LLD	Not Applicable		All LLD	0
Sediment (pCi/g dry)	γ Spec. 1	0.2	All LLD	Not Applicable		Not Measured	0

¹ Mean and range based on detectable measurements only. Fractions indicated in parentheses.² Special TLDs at 1 mile & site boundary were installed at beginning of 3rd quarter, but not included in figures here.

Table 5.0-5

Environmental Radiological Monitoring Program Quarter SummaryName of Facility: Dresden Nuclear Power StationDocket Number: 50-10, 50-237, 50-549Location of Facility: Grundy Illinois
County StateReporting Period: 4th Quarter 1980

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean ¹ (Range)	Location with Highest Mean		Control Locations Mean ¹ (Range)	Number of Non-routine Reported Measurements
				Name, Distance and Direction	Mean (Range)		
Air Particulates (pCi/m ³)	Gross β 78	0.01	0.07 (78/78) 0.02-0.22	Onsite 2 0.3 mi @ 50°	0.09 (13/13) 0.04-0.17	Not Measured	0
Airborne Iodine (pCi/m ³)	I-131 42	0.10	All LLD	Not Applicable		Not Measured	0
Gamma Background (mR/Qtr)	γ Dose 17 ²	3	14.7 (8/8) 10.4-16.9	2 stations equal	16.9 16.9	14.6 (9/9) 11.7-16.9	0
Milk (pCi/l)	I-131 18	0.5/5 ³	All LLD	Not Applicable		All LLD	0
Cooling Water (pCi/l)	Gross β 39	5	7 (22/26) 3-40	Discharge Canal Unit 2/3	9 (11/13) 3-40	5 (11/13) 4-9	0
Surface Water (pCi/l)	γ Spec. 3	10	All LLD	Not Applicable		Not Measured	0

¹ Mean and range based on detectable measurements only. Fractions indicated in parentheses.² Special TLDs at 1 mile and site boundary were installed at beginning of 3rd quarter, but not included in figures here.³ May through October LLD=0.5; November through April LLD=5.

TABLE 5.1-1

DRESDEN

GAMMA RADIATION

Average mR/Qtr. Using Thermoluminescent Dosimeters

Date Annealed:	12/13/79	03/21/80	06/24/80	10/07/80
Date Read:	03/31/80	08/01/80	10/24/80	01/21/81
<u>Location</u>	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
On-Site Indicator Stations				
D-01 On-Site 1	16.9±3.9	15.6±2.6	10.4±1.3	16.9±3.9
D-02 On-Site 2	15.6±2.6	15.6±1.3	10.4±1.3	10.4±5.2
D-03 On-Site 3	16.9±2.6	15.6±1.3	10.4±1.3	15.6±1.3
*D-04 Collins Road	15.6±2.6	15.6±1.3	10.4±2.6	15.6±1.3
Average	16.3±2.9	15.6±1.6	10.4±1.6	14.6±2.9
Off-Site Indicator Stations				
*D-05 Bennitt Farm	18.2±2.6	15.6±1.3	10.4±1.3	14.3±6.5
*D-06 Pheasant Trail	11.7±3.9	11.7±3.9	9.1±1.3	13.0±2.6
*D-07 Clay Products	14.3±1.3	14.3±1.3	10.4±2.6	16.9±1.3
*D-08 Prairie Park	15.6±3.9	13.0±1.3	10.4±1.3	15.6±2.6
Average	15.0±2.9	13.7±2.0	10.1±1.6	15.0±3.3
Background Stations				
*D-09 Coal City	13.0±2.6	9.1±3.9	9.1±1.3	11.7±1.3
*D-10 Goose Lake Village	15.6±2.6	9.1±2.6	10.4±1.3	15.6±2.6
*D-11 Morris	13.0±1.3	11.7±2.6	9.1±1.3	14.3±3.9
D-12 Lisbon	13.0±2.6	13.0±1.3	9.1±1.3	14.3±2.6
*D-13 Minooka	13.0±1.3	13.0±2.6	9.1±1.3	13.0±1.3
*D-14 Channahon	14.3±1.3	11.7±5.2	9.1±1.3	16.9±2.6
*D-15 Joliet Brandon Rd.	15.6±3.9	13.0±5.2	9.1±1.3	15.6±1.3
D-16 Elwood	13.0±1.3	13.0±1.3	9.1±1.3	15.6±2.6
D-17 Wilmington	14.3±2.6	13.0±1.3	9.1±1.3	14.3±2.6
Average	13.9±2.2	11.8±2.9	9.2±1.3	14.6±3.1

* Stations shared by Dresden and G.E.

DRESDEN
GAMMA RADIATION

Average mR/Qtr. Using Thermoluminescent Dosimeters

Table 5.1-1 (continued)

Date Annealed:	05/29/80	10/27/80
Date Read:	11/07/80	*01/20/81, 01/21/81

<u>Location</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
D-101-1	10.4±1.3	16.9±2.6*
D-101-2	9.1±1.3	22.1±3.9*
D-102-1	11.7±1.3	23.4±2.6*
D-102-2	11.7±1.3	22.1±2.6*
D-105-1	9.1±1.3	16.9±3.9*
D-105-2	9.1±1.3	14.3±3.9*
D-109-1	10.4±1.3	missing
D-109-2	10.4±2.6	20.8±2.6*
D-110-1	9.1±1.3	23.4±2.6*
D-110-2	10.4±1.3	19.5±5.2*
D-111-1	9.1±1.3	18.2±3.9*
D-111-2	10.4±1.3	13.0±5.2*
D-112-1	7.8±1.3	14.3±3.9*
D-112-2	7.8±1.3	14.3±5.2*
D-113-1	9.1±1.3	16.9±2.6*
D-113-2	9.1±1.3	16.9±2.6*
D-114-1	10.4±1.3	16.9±3.9*
D-114-2	9.1±1.3	18.2±3.9*
D-115-1	11.7±2.6	15.6±6.5*
D-115-2	11.7±1.3	20.8±6.5*
D-201-1	11.7±1.3	18.2±2.6*
D-201-2	11.7±1.3	23.4±3.9*
D-202-1	7.8±1.3	16.9±2.6*
D-202-2	7.8±1.3	18.2±2.6*
D-203-1	7.8±1.3	18.2±1.3*
D-203-2	9.1±1.3	15.6±5.2
D-204-1	7.8±2.6	15.6±5.2
D-204-2	9.1±1.3	19.5±6.5
D-205-1	10.4±1.3	14.3±3.9
D-205-2	9.1±1.3	18.2±3.9
D-206-1	9.1±2.6	18.2±6.5
D-206-2	9.1±1.3	16.9±2.6
D-207-1	7.8±1.3	15.6±5.2
D-207-2	7.8±1.3	14.3±5.2
D-208-1	7.8±1.3	13.0±2.6
D-208-2	7.8±1.3	18.2±3.9
D-209-1	7.8±1.3	14.3±2.6
D-209-2	6.5±1.3	14.3±2.6
D-210-1	9.1±1.3	18.2±2.6
D-210-2	9.1±1.3	16.9±5.2
D-211-1	10.4±1.3	16.9±2.6
D-211-2	9.1±1.3	18.2±1.3
D-212-1	9.1±1.3	16.9±3.9
D-212-2	9.1±1.3	18.2±2.6
D-213-1	7.8±1.3	14.3±3.9
D-213-2	7.8±1.3	16.9±2.6
D-214-1	10.4±1.3	26.0±3.9
D-214-2	10.4±1.3	19.5±1.3
D-215-1	11.7±2.6	22.1±2.6
D-215-2	10.4±1.3	20.8±3.9
D-216-1	10.4±1.3	16.9±5.2
D-216-2	10.4±1.3	22.1±2.6

APPENDIX II

METEOROLOGICAL DATA

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD = JANUARY - MARCH 1980
 STABILITY CLASS - EXTREMELY UNSTABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	0-3	4-7	8-12	13-18	19-24		
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NF	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0

HOURS OF CALM IN THIS STABILITY CLASS = 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS = 0
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES = 1

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - JANUARY - MARCH 1980
 STABILITY CLASS - MODERATELY UNSTABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	0-3	4-7	8-12	13-18	19-24	GT 24	
N	0	1	2	1	0	0	4
NNE	0	0	0	0	0	0	0
NE	0	0	0	1	0	0	1
ENE	0	0	0	0	0	0	0
E	0	0	0	0	1	0	1
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	1	1	0	0	2
W	0	0	1	1	0	2	4
NNW	0	0	1	0	0	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	1	5	4	1	2	13

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0

HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 1

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - JANUARY - MARCH 1980
 STABILITY CLASS - SLIGHTLY UNSTABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	.9-3	4- 7	8-12	13-18	19-24		
N	0	1	4	0	0	0	5
NNE	1	2	0	0	0	0	3
NE	1	0	0	3	0	0	4
ENE	0	0	0	0	0	0	0
E	0	0	0	0	2	0	2
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	2	2
WNW	0	1	2	10	2	0	15
NW	0	1	3	3	0	3	10
NNW	0	1	1	1	0	0	3
VARIABLE	0	0	0	0	0	0	0
TOTAL	2	6	10	17	4	5	44

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 4
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 1

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - JANUARY - MARCH 1980
 STABILITY CLASS - NEUTRAL (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	0-3	4-17	18-24	25-31	32-47	GT 47	TOTAL
N	3	12	51	24	11	7	108
NNE	1	10	34	29	12	6	92
NE	0	15	21	25	6	4	71
ENE	1	7	10	31	13	1	63
E	1	6	8	12	17	5	49
ESE	0	1	6	8	3	1	19
SE	0	6	11	16	11	1	45
SSE	0	2	8	19	19	7	55
S	2	1	9	10	12	13	47
SSW	0	5	10	11	20	15	61
SW	0	4	7	12	15	3	41
WSW	1	5	6	6	8	3	29
W	2	19	22	16	13	24	96
WNW	0	15	50	35	36	24	160
NW	1	14	26	36	23	13	113
NNW	3	23	20	19	19	10	94
VARIABLE	0	0	0	0	0	0	0
TOTAL	15	145	299	309	238	137	1143

HOURS OF CALM IN THIS STABILITY CLASS - 200
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 95
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 1

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - JANUARY - MARCH 1980
 STABILITY CLASS - SLIGHTLY STABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
-----	.9-3	4- 7	8-12	13-18	19-24	-----	-----
N	2	4	11	9	3	2	31
NNE	0	6	9	7	1	0	23
NE	0	6	5	6	5	2	24
ENE	1	1	4	13	2	0	21
E	1	6	9	14	6	0	36
ESE	1	1	6	5	2	0	15
SE	0	2	8	13	10	1	34
SSE	0	7	8	7	7	10	39
S	0	6	6	14	28	42	96
SSW	0	4	5	21	19	11	60
SW	2	2	4	14	6	4	32
WSW	1	3	10	11	1	0	26
W	1	2	10	17	2	0	32
NNW	0	4	15	32	27	1	79
NW	0	4	17	27	5	2	55
NNW	0	4	15	22	18	1	60
VARIABLE	8	0	0	0	0	0	8
TOTAL	17	62	142	232	142	76	671

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 47
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 1

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - JANUARY - MARCH 1980
 STABILITY CLASS - MODERATELY STABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	9-3	4- 7	8-12	13-18	19-24		
N	0	0	1	4	7	0	12
NNE	0	0	2	3	0	0	5
NE	0	0	1	1	1	0	3
ENE	1	0	0	0	0	0	1
E	0	2	1	0	0	0	3
ESE	2	1	1	0	0	0	4
SE	0	0	1	5	0	0	6
SSE	0	1	0	8	1	0	10
S	0	0	1	1	1	1	4
SSW	0	0	1		2	1	5
SW	0	0	4	3	6	0	13
WSW	1	0	2	6	3	0	12
W	0	0	4	2	0	0	6
WNW	0	1	1	4	2	0	8
NW	0	4	4	4	1	0	13
NNW	0	2	3	2	4	1	12
VARIABLE	3	0	0	0	0	0	3
TOTAL	7	11	27	44	28	3	120

HOURS OF CALM IN THIS STABILITY CLASS - 0

HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 6

HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 1

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - JANUARY - MARCH 1980
 STABILITY CLASS - EXTREMELY STABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	.9-3	4- 7	8-12	13-18	19-24	GT 24	
N	0	0	0	0	0	2	2
NNE	3	1	0	2	0	0	6
NE	1	0	0	1	0	0	2
ENE	2	0	0	0	0	0	2
E	0	2	0	0	0	0	2
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	1	0	1
SW	0	0	0	0	6	1	7
WSW	0	0	1	0	4	0	5
W	0	1	3	0	0	0	4
WNW	0	2	2	0	0	0	4
NW	0	0	0	2	0	0	2
NNW	0	0	1	1	0	0	2
VARIABLE	1	0	0	0	0	0	1
TOTAL	7	6	7	6	11	3	40

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 1

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - APRIL - JUNE 1980
 STABILITY CLASS - EXTREMELY UNSTABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	0-3	4-7	8-12	13-18	19-24		
N	0	0	0	0	0	0	0
NNE	0	0	2	0	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	3	1	0	4
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	2	3	1	0	6

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 5

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - APRIL - JUNE 1980
 STABILITY CLASS - MODERATELY UNSTABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	.9-3	4- 7	8-12	13-18	19-24	GT 24	
N	0	0	2	0	0	2	4
NNE	0	1	6	1	2	0	10
NE	0	0	2	0	2	0	4
ENE	0	0	0	0	0	0	0
E	0	1	0	0	0	0	1
ESE	0	0	2	0	0	0	2
SE	0	0	0	0	0	0	0
SSE	0	0	0	1	0	0	1
S	0	0	0	0	0	0	0
SSW	0	1	0	0	0	0	1
SW	0	0	0	0	0	0	0
WSW	0	1	2	1	0	0	4
W	0	0	0	0	0	0	0
WNW	0	1	0	0	1	0	2
NW	0	1	0	1	0	0	2
NNW	0	1	2	2	2	0	7
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	7	16	6	7	2	38

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 1
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 5

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - APRIL - JUNE 1980
 STABILITY CLASS - SLIGHTLY UNSTABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	0-3	4-7	8-12	13-18	19-24		
N	0	0	2	2	1	2	7
NNE	0	0	1	0	1	1	3
NE	0	2	3	2	0	0	7
ENE	0	0	2	0	0	0	2
E	0	2	0	0	0	0	2
ESE	0	1	2	0	0	0	3
SE	0	1	1	0	0	0	2
SSE	0	0	0	4	0	0	4
S	0	0	0	0	0	0	0
SSW	0	3	2	2	0	0	7
SW	0	6	8	1	0	0	15
WSW	0	2	6	0	0	0	8
W	0	3	1	2	0	0	6
WNW	0	1	0	2	5	1	9
NW	0	1	1	2	0	0	4
NNW	0	1	2	6	4	0	13
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	23	31	23	11	4	92

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 2
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 5

DRESDEN NUCLEAR POWER STATION
PERIOD OF RECORD - APRIL - JUNE 1980
STABILITY CLASS - NEUTRAL (DELTA T 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	0-3	4-7	8-12	13-18	19-24	GT 24	
N	3	11	9	16	4	1	44
NNE	0	20	9	19	8	2	58
NE	1	13	28	22	10	7	81
ENE	3	16	28	5	1	2	55
E	3	19	30	18	2	0	72
ESE	1	16	15	15	4	0	51
SE	2	8	15	6	6	0	37
SSE	1	8	10	10	4	1	34
S	0	6	17	20	14	11	68
SSW	0	3	17	7	6	3	36
SW	0	11	11	11	5	0	38
WSW	0	16	27	17	4	21	85
W	1	17	12	14	18	8	70
WNW	3	11	9	18	16	5	62
NW	1	8	12	6	21	3	51
NNW	1	7	12	14	7	0	41
VARIABLE	0	0	0	0	0	0	0
TOTAL	20	190	261	218	130	64	883

HOURS OF CALM IN THIS STABILITY CLASS - 0
HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 60
HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 5

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - APRIL - JUNE 1980
 STABILITY CLASS - SLIGHTLY STABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	0-3	4-7	8-12	13-18	19-24	GT 24	
N	1	4	10	8	5	0	28
NNE	1	4	13	11	3	1	33
NE	1	7	13	15	7	9	52
ENE	1	20	47	23	1	0	92
E	1	12	38	17	12	0	80
ESE	1	6	7	19	19	2	54
SE	1	6	11	16	3	0	37
SSE	0	3	19	27	11	6	66
S	1	4	8	17	28	7	65
SSW	1	4	11	16	11	5	48
SW	0	9	11	10	2	1	33
WSW	1	3	10	5	3	7	29
W	0	8	7	8	14	7	44
WNW	1	2	6	5	5	5	24
NW	0	3	8	17	13	1	42
NNW	1	6	11	11	4	0	33
VARIABLE	0	0	0	0	0	0	0
TOTAL	12	101	230	225	141	51	760

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 15
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 5

DRESDEN NUCLEAR POWER STATION
PERIOD OF RECORD - APRIL - JUNE 1980
STABILITY CLASS - MODERATELY STABLE (DELTA T 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	.9-3	4-7	8-12	13-18	19-24		
N	0	1	5	1	0	0	7
NNE	0	3	3	2	1	0	9
NE	1	3	7	1	0	0	12
ENE	1	4	3	2	0	0	10
E	1	4	1	3	0	0	9
ESE	0	3	2	6	0	0	11
SE	1	7	5	3	0	0	16
SSE	0	6	4	6	2	0	18
S	0	5	5	10	5	0	25
SSW	0	2	5	6	9	0	22
SW	0	3	5	13	6	0	27
WSW	0	3	10	10	1	1	25
W	0	4	11	6	0	0	21
WNW	0	0	5	1	6	0	12
NW	0	0	5	2	2	0	9
NNW	0	3	3	4	0	0	10
VARIABLE	1	0	0	0	0	0	1
TOTAL	5	51	79	76	32	1	244

HOURS OF CALM IN THIS STABILITY CLASS - 0
HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 5

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - APRIL - JUNE 1980
 STABILITY CLASS - EXTREMELY STABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	9-3	4-7	8-12	13-18	19-24		
N	0	2	2	1	0	0	5
NNE	0	3	3	0	0	0	6
NE	0	3	1	0	0	0	4
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	2	0	0	0	2
SE	1	1	3	1	0	0	6
SSE	0	0	0	2	0	0	2
S	0	1	0	0	0	0	1
SSW	0	1	2	0	1	0	4
SW	0	0	4	7	2	0	13
WSW	0	1	7	1	0	0	9
W	0	2	6	6	7	0	21
WNW	0	0	0	1	1	0	2
NW	0	2	0	0	0	0	2
NNW	0	0	0	1	0	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	16	30	20	11	0	78

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 5

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - JULY - SEPTEMBER 1980
 STABILITY CLASS - EXTREMELY UNSTABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION -----	WIND SPEED (IN MPH)						TOTAL -----
	.9-3 -----	4- 7 -----	8-12 -----	13-18 -----	19-24 -----	GT 24 -----	
N	0	0	1	2	0	0	3
NNE	0	1	3	0	0	0	4
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	1	0	1
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	1	0	0	0	1
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	2	1	0	0	0	3
NNW	0	0	11	3	0	0	14
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	3	17	5	1	0	26

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 3

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - JULY - SEPTEMBER 1980
 STABILITY CLASS - MODERATELY UNSTABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	0-3	4-7	8-12	13-18	19-24	GT 24	
N	0	5	7	0	0	0	12
NNE	0	2	1	1	0	0	4
NE	0	2	2	1	1	0	6
ENE	0	0	2	1	0	0	3
E	0	0	0	0	0	0	0
ESE	0	2	2	1	0	0	5
SE	0	1	0	0	0	0	1
SSE	0	2	0	1	1	0	4
S	0	1	0	2	0	0	3
SSW	0	1	2	0	0	0	3
SW	0	0	2	1	1	0	4
WSW	0	0	4	0	0	0	4
W	0	0	1	2	0	0	3
WNW	0	1	1	2	0	0	4
NW	0	0	4	0	0	0	4
NNW	0	5	12	0	0	0	17
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	22	40	12	3	0	77

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 3

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - JULY - SEPTEMBER 1980
 STABILITY CLASS - SLIGHTLY UNSTABLE (DELTA T 300-35 FT
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						
	.9-3	4- 7	8-12	13-18	19-24	GT 24	TOTAL
-----	-----	-----	-----	-----	-----	-----	-----
N	0	6	5	0	0	0	11
NNE	0	4	3	1	0	0	8
NE	0	1	2	2	0	0	5
ENE	0	2	4	1	0	0	7
E	0	1	2	0	0	0	3
ESE	0	3	1	0	0	0	4
SE	0	4	1	1	1	0	7
SSE	0	4	0	4	4	0	12
S	0	1	0	1	0	0	2
SSW	0	2	5	7	0	0	14
SW	0	2	4	2	6	0	14
WSW	0	3	8	0	3	0	14
W	0	3	4	1	3	0	11
WNW	0	3	2	6	3	0	14
NW	0	1	5	1	0	0	7
NNW	0	5	5	1	0	0	11
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	45	51	28	20	0	144

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0

HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 3

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - JULY - SEPTEMBER 1980
 STABILITY CLASS - NEUTRAL (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	.9-3	4-7	8-12	13-18	19-24	GT 24	
N	2	8	7	16	4	3	40
NNE	0	7	14	22	1	1	45
NE	0	12	19	20	1	0	52
ENE	3	8	31	9	0	0	51
E	3	19	17	10	3	0	52
ESE	2	14	5	11	9	2	43
SE	1	17	5	6	1	0	30
SSE	0	17	29	32	4	0	82
S	0	18	33	23	4	1	79
SSW	2	10	20	33	5	0	70
SW	1	9	12	12	10	0	44
WSW	1	9	11	9	9	0	39
W	1	3	23	22	1	1	51
WNW	0	5	16	8	2	4	35
NW	0	5	10	12	1	1	29
NNW	2	6	12	16	5	0	41
VARIABLE	0	0	0	0	0	0	0
TOTAL	18	167	264	261	60	13	783

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 6
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 3

DRESDEN NUCLEAR POWER STATION
PERIOD OF RECORD - JULY - SEPTEMBER 1980
STABILITY CLASS - SLIGHTLY STABLE (DELTA T 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	.9-3	4-7	8-12	13-18	19-24	GT 24	
N	1	5	4	7	3	0	20
NNE	1	2	7	2	0	1	13
NE	1	10	25	7	0	0	43
ENE	3	17	23	2	0	0	45
E	0	10	20	17	4	0	51
ESE	2	7	10	20	0	0	39
SE	1	5	27	24	0	0	57
SSE	0	6	27	49	12	3	97
S	0	5	13	62	25	4	109
SSW	0	10	21	35	18	7	91
SW	1	6	22	27	16	2	74
WSW	0	8	6	17	5	1	40
W	0	3	8	6	3	0	20
WNW	2	5	12	6	3	1	29
NW	0	-	11	12	8	1	37
NNW	0	3	8	15	2	0	28
VARIABLE	0	0	0	0	0	0	0
TOTAL	12	107	247	308	99	20	793

HOURS OF CALM IN THIS STABILITY CLASS - 0
HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 8
HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 3

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - JULY - SEPTEMBER 1980
 STABILITY CLASS - MODERATELY STABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
-----	.9-3	4- 7	8-12	13-18	19-24	-----	-----
N	2	1	3	1	2	0	9
NNE	0	0	3	0	0	0	3
NE	0	6	0	0	0	0	6
ENE	0	2	3	0	0	0	5
E	1	1	4	1	1	0	8
ESE	2	0	9	7	0	0	18
SE	2	3	11	13	2	0	31
SSE	2	4	12	13	1	0	32
S	0	3	4	16	15	0	38
SSW	0	1	4	19	3	0	27
SW	0	2	11	24	0	1	38
WSW	1	5	8	12	0	1	27
W	0	3	11	2	0	0	16
WNW	0	7	6	8	3	0	24
NW	0	2	2	2	4	0	10
NNW	0	0	4	9	4	0	17
VARIABLE	0	0	0	0	0	0	0
TOTAL	10	40	95	127	35	2	309

HOURS OF CALM IN THIS STABILITY CLASS - 0

HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 2

HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 3

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - JULY - SEPTEMBER 1980
 STABILITY CLASS - EXTREMELY STABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	.9-3	4- 7	8-12	13-18	19-24		
N	0	1	0	0	1	0	2
NNE	0	0	0	0	0	0	0
NE	0	4	0	0	0	0	4
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	1	0	1
SE	0	0	2	0	0	0	2
SSE	0	1	5	4	0	0	10
S	0	1	1	0	2	0	4
SSW	0	0	0	0	3	0	3
SW	0	4	4	6	2	1	17
WSW	0	0	0	2	0	0	2
W	0	0	0	0	0	0	0
WNW	0	0	0	1	2	0	3
NW	0	0	0	1	0	0	1
NNW	0	0	0	1	4	0	5
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	11	12	15	15	1	54

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 3
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 3

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - OCTOBER - DECEMBER 1980
 STABILITY CLASS - EXTREMELY UNSTABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	.9-3	4- 7	8-12	13-18	19-24	GT 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	1	0	0	0	1
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	1	0	0	1
NW	0	0	0	0	1	0	1
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	1	1	1	0	3

HOURS OF CALM IN THIS STABILITY CLASS - 0

HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0

HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 0

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - OCTOBER - DECEMBER 1980
 STABILITY CLASS - MODERATELY UNSTABLE (DELTA T 300-35 FT
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
-----	.9-3	4- 7	8-12	13-18	19-24	GT 24	-----
N	0	0	2	2	0	0	4
NNE	0	0	0	2	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	1	0	1
W	0	0	0	3	1	0	4
WNW	0	0	3	4	2	0	9
NW	0	0	11	0	0	0	11
NNW	0	0	3	5	1	0	9
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	19	16	5	0	40

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 0

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - OCTOBER - DECEMBER 1980
 STABILITY CLASS - SLIGHTLY UNSTABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	GT 24	TOTAL
-----	-----	-----	-----	-----	-----	-----	-----
N	0	0	5	2	0	0	7
NNE	0	0	3	0	0	0	3
NE	0	0	3	0	0	0	3
ENE	0	0	1	0	0	0	1
E	0	0	0	4	0	0	4
ESE	0	0	0	2	0	0	2
SE	0	0	0	0	0	0	0
SSE	0	0	0	3	1	0	4
S	0	0	0	2	0	0	2
SSW	0	0	0	0	2	1	3
SW	0	0	0	0	2	0	2
WSW	0	0	0	1	2	0	3
W	0	0	0	5	3	0	8
WNW	0	1	2	6	4	0	13
W	0	2	9	3	0	0	14
NNW	0	0	8	7	0	0	15
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	3	31	35	14	1	84

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 0

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - OCTOBER - DECEMBER 1980
 STABILITY CLASS - NEUTRAL (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	.9-3	4- 7	8-12	13-18	19-24		
N	2	5	33	42	19	2	103
NNE	1	13	31	26	5	0	76
NE	2	19	18	4	6	0	49
ENE	1	13	26	12	0	0	52
E	0	6	25	18	1	0	50
ESE	2	5	10	8	4	1	30
SE	0	5	13	4	1	0	23
SSE	0	5	22	17	11	2	57
S	0	8	16	29	7	4	64
SSW	0	1	6	20	15	12	54
SW	0	2	5	27	14	15	63
WSW	0	3	23	7	11	0	44
W	1	7	12	34	30	5	89
WNW	3	2	6	29	23	2	65
NW	1	8	25	39	25	15	113
NNW	3	8	20	60	38	17	146
VARIABLE	0	0	0	0	0	0	0
TOTAL	16	110	291	376	210	75	1078

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 34
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 0

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - OCTOBER - DECEMBER 1980
 STABILITY CLASS - SLIGHTLY STABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	.9-3	4- 7	8-12	13-18	19-24		
N	0	3	6	11	8	0	28
NNE	0	10	10	7	3	2	32
NE	0	4	7	5	2	0	18
ENE	1	8	11	6	1	0	27
E	1	4	10	1	6	0	22
ESE	0	5	0	10	13	1	29
SE	0	4	19	24	9	1	57
SSE	0	2	12	13	7	3	37
S	1	2	14	21	22	7	67
SSW	0	1	9	22	17	8	57
SW	1	1	3	21	11	4	41
WSW	0	1	7	17	15	2	42
W	0	1	8	26	33	1	69
WNW	0	6	10	24	21	2	63
NW	1	4	13	32	7	1	58
NNW	1	4	16	16	6	1	44
VARIABLE	0	0	0	0	0	0	0
TOTAL	6	60	155	256	181	33	691

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 26
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 0

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - OCTOBER - DECEMBER 1980
 STABILITY CLASS - MODERATELY STABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	.9-3	4- 7	8-12	13-18	19-24		
N	0	1	5	5	2	0	13
NNE	0	1	6	6	0	0	13
NE	0	0	3	2	0	0	5
ENE	0	1	2	0	0	0	3
E	1	0	0	0	0	0	1
ESE	1	1	2	2	0	0	6
SE	0	1	9	4	0	0	14
SSE	1	1	0	1	0	0	3
S	1	0	0	1	0	0	2
SSW	1	0	0	6	6	0	13
SW	0	2	1	18	14	0	35
WSW	0	3	5	21	8	0	37
W	0	6	5	10	7	0	28
WNW	0	0	5	3	1	0	9
NW	0	1	6	6	3	0	16
NNW	0	0	4	5	2	0	11
VARIABLE	0	0	0	0	0	0	0
TOTAL	5	18	53	90	43	0	209

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 0

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - OCTOBER - DECEMBER 1980
 STABILITY CLASS - EXTREMELY STABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	.9-3	4-7	8-12	13-18	19-24		
N	0	1	1	0	0	0	2
NNE	0	0	1	2	0	0	3
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	1	0	0	1
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	1	0	0	0	1	1	3
SW	0	1	1	4	11	1	18
WSW	0	2	2	3	0	0	7
W	0	2	1	0	0	0	3
WNW	0	3	0	0	0	0	3
NW	1	1	0	0	0	0	2
NNW	0	0	0	0	1	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	2	10	6	10	13	2	43

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 0

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - JULY - SEPTEMBER 1980
 STABILITY CLASS - EXTREMELY UNSTABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	.9-3	4- 7	8-12	13-18	19-24	GT 24	
N	0	0	1	2	0	0	3
NNE	0	1	3	0	0	0	4
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	1	0	1
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	1	0	0	0	1
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	2	1	0	0	0	3
NNW	0	0	11	3	0	0	14
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	3	17	5	1	0	26

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 3

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD = JULY - SEPTEMBER 1980
 STABILITY CLASS = MODERATELY UNSTABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	.9-3	4-7	8-12	13-18	19-24	GT 24	
N	0	5	7	0	0	0	12
NNE	0	2	1	1	0	0	4
NE	0	2	2	1	1	0	6
ENE	0	0	2	1	0	0	3
E	0	0	0	0	0	0	0
ESE	0	2	2	1	0	0	5
SE	0	1	0	0	0	0	1
SSE	0	2	0	1	1	0	4
S	0	1	0	2	0	0	3
SSW	0	1	2	0	0	0	3
SW	0	0	2	1	1	0	4
WSW	0	0	4	0	0	0	4
W	0	0	1	2	0	0	3
WNW	0	1	1	2	0	0	4
NW	0	0	4	0	0	0	4
NNW	0	5	12	0	0	0	17
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	22	40	12	3	0	77

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 3

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - JULY - SEPTEMBER 1980
 STABILITY CLASS - SLIGHTLY UNSTABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	1-3	4-7	8-12	13-18	19-24		
N	0	6	5	0	0	0	11
NNE	0	4	3	1	0	0	8
NE	0	1	2	2	0	0	5
ENE	0	2	4	1	0	0	7
E	0	1	2	0	0	0	3
ESE	0	3	1	0	0	0	4
SE	0	4	1	1	1	0	7
SSE	0	4	0	4	4	0	12
S	0	1	0	1	0	0	2
SSW	0	2	5	7	0	0	14
SW	0	2	4	2	6	0	14
WSW	0	3	8	0	3	0	14
W	0	3	4	1	3	0	11
WNW	0	3	2	6	3	0	14
NW	0	1	5	1	0	0	7
NNW	0	5	5	1	0	0	11
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	45	51	28	20	0	144

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 3

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - JULY - SEPTEMBER 1980
 STABILITY CLASS - NEUTRAL (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	.9-3	4- 7	8-12	13-18	19-24	GT 24	
N	2	8	7	16	4	3	40
NNE	0	7	14	22	1	1	45
NE	0	12	19	20	1	0	52
ENE	3	8	31	9	0	0	51
E	3	19	17	10	3	0	52
ESE	2	14	5	11	9	2	43
SE	1	17	5	6	1	0	30
SSE	0	17	29	22	4	0	82
S	0	18	33	23	4	1	79
SSW	2	10	20	33	5	0	70
SW	1	9	12	12	10	0	44
WSW	1	9	11	9	9	0	39
W	1	3	23	22	1	1	51
WNW	0	5	16	8	2	4	35
NW	0	5	10	12	1	1	29
NNW	2	6	12	16	5	0	41
VARIABLE	0	0	0	0	0	0	0
TOTAL	18	167	264	261	60	13	783

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 6
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 3

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD - JULY - SEPTEMBER 1980

STABILITY CLASS - SLIGHTLY STABLE

(DELTA T 300-35 FT)

WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	.9-3	4-7	8-12	13-18	19-24		
N	1	5	4	7	3	0	20
NNE	1	2	7	2	0	1	13
NE	1	10	25	7	0	0	43
ENE	3	17	23	2	0	0	45
E	0	10	20	17	4	0	51
ESE	2	7	10	20	0	0	39
SE	1	5	27	24	0	0	57
SSE	0	6	27	49	12	3	97
S	0	5	13	62	25	4	109
SSW	0	10	21	35	18	7	91
SW	1	6	22	27	16	2	74
WSW	0	8	9	17	5	1	40
W	0	3	8	6	3	0	20
WNW	2	5	12	6	3	1	29
NW	0	5	11	12	8	1	37
NNW	0	3	8	15	2	0	28
VARIABLE	0	0	0	0	0	0	0
TOTAL	12	107	247	308	99	20	793

HOURS OF CALM IN THIS STABILITY CLASS - 0

HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 8

HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 3

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - JULY - SEPTEMBER 1980
 STABILITY CLASS - MODERATELY STABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	.9-3	4- 7	8-12	13-18	19-24		
N	2	1	3	1	2	0	9
NNE	0	0	3	0	0	0	3
NE	0	6	0	0	0	0	6
NNE	0	2	3	0	0	0	5
E	1	1	4	1	1	0	8
ESE	2	0	9	7	0	0	18
SE	2	3	11	13	2	0	31
SSF	2	4	12	13	1	0	32
S	0	3	4	16	15	0	38
SSW	0	1	4	19	3	0	27
SW	0	2	11	24	0	1	38
WSW	1	5	8	12	0	1	27
W	0	3	11	2	0	0	16
WNW	0	7	6	8	3	0	24
NW	0	2	2	2	4	0	10
NNW	0	0	4	9	4	0	17
VARIABLE	0	0	0	0	0	0	0
TOTAL	10	40	95	127	35	2	309

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 2
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 3

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD - JULY - SEPTEMBER 1980

STABILITY CLASS - EXTREMELY STABLE

(DELTA T 300-35 FT)

WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	.9-3	4- 7	8-12	13-18	19-24	GT 24	
N	0	1	0	0	1	0	2
NNE	0	0	0	0	0	0	0
NE	0	4	0	0	0	0	4
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	1	0	1
SE	0	0	2	0	0	0	2
SSE	0	1	5	4	0	0	10
S	0	1	1	0	2	0	4
SSW	0	0	0	0	3	0	3
SW	0	4	4	6	2	1	17
WSW	0	0	0	2	0	0	2
W	0	0	0	0	0	0	0
WNW	0	0	0	1	2	0	3
NW	0	0	0	1	0	0	1
NNW	0	0	0	1	4	0	5
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	11	12	15	15	1	54

HOURS OF CALM IN THIS STABILITY CLASS - 0

HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 3

HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 3

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - OCTOBER - DECEMBER 1980
 STABILITY CLASS - EXTREMELY UNSTABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	.9-3	4- 7	8-12	13-18	19-24	GT 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	1	0	0	0	1
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	1	0	0	1
NW	0	0	0	0	1	0	1
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	1	1	1	0	3

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 0

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - OCTOBER - DECEMBER 1980
 STABILITY CLASS - MODERATELY UNSTABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	.9-3	4- 7	8-12	13-18	19-24	GT 24	
N	0	0	2	2	0	0	4
NNE	0	0	0	2	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	1	0	1
W	0	0	0	3	1	0	4
WNW	0	0	3	4	2	0	9
NW	0	0	11	0	0	0	11
NNW	0	0	3	5	1	0	9
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	19	16	5	0	40

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 0

DRESDEN NUCLEAR POWER STATION
PERIOD OF RECORD - OCTOBER - DECEMBER 1980
STABILITY CLASS - SLIGHTLY UNSTABLE (DELTA T 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND DIRECTION -----	WIND SPEED (IN MPH)					GT 24 -----	TOTAL -----
	.9-3 -----	4- 7 -----	8-12 -----	13-18 -----	19-24 -----		
N	0	0	5	2	0	0	7
NNE	0	0	3	0	0	0	3
NE	0	0	3	0	0	0	3
NNE	0	0	1	0	0	0	1
E	0	0	0	4	0	0	4
ESE	0	0	0	2	0	0	2
SE	0	0	0	0	0	0	0
SSE	0	0	0	3	1	0	4
S	0	0	0	2	0	0	2
SSW	0	0	0	0	2	1	3
SW	0	0	0	0	2	0	2
WSW	0	0	0	1	2	0	3
W	0	0	0	5	3	0	8
WNW	0	1	2	6	4	0	13
NW	0	2	9	3	0	0	14
NNW	0	0	8	7	0	0	15
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	3	31	35	14	1	84

HOURS OF CALM IN THIS STABILITY CLASS - 0
HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 0

DRESDEN NUCLEAR POWER STATION
PERIOD OF RECORD - OCTOBER - DECEMBER 1980
STABILITY CLASS - NEUTRAL (DELTA T 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	.9-3	4- 7	8-12	13-18	19-24		
N	2	5	33	42	19	2	103
NNE	1	13	31	26	5	0	76
NE	2	19	18	4	6	0	49
ENE	1	13	26	12	0	0	52
E	0	6	25	18	1	0	50
ESE	2	5	10	8	4	1	30
SE	0	5	13	4	1	0	23
SSE	0	5	22	17	11	2	57
S	0	8	16	29	7	4	64
SSW	0	1	6	20	15	12	54
SW	0	2	5	27	14	15	63
WSW	0	3	23	7	11	0	44
W	1	7	12	34	30	5	89
WNW	3	2	6	29	23	2	65
NW	1	8	25	39	25	15	113
NNW	3	8	20	60	38	17	146
VARIABLE	0	0	0	0	0	0	0
TOTAL	16	110	291	376	210	75	1078

HOURS OF CALM IN THIS STABILITY CLASS - 0
HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 34
HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 0

DRESDEN NUCLEAR POWER STATION
PERIOD OF RECORD - OCTOBER - DECEMBER 1980
STABILITY CLASS - SLIGHTLY STABLE (DELTA T 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	.9-3	4- 7	8-12	13-18	19-24	GT 24	
N	0	3	6	11	8	0	28
NNE	0	10	10	7	3	2	32
NE	0	4	7	5	2	0	18
ENE	1	8	11	6	1	0	27
E	1	4	10	1	6	0	22
ESE	0	5	0	10	13	1	29
SE	0	4	19	24	9	1	57
SSE	0	2	12	13	7	3	37
S	1	2	14	21	22	7	67
SSW	0	1	9	22	17	8	57
SW	1	1	3	21	11	4	41
WSW	0	1	7	17	15	2	42
W	0	1	8	26	33	1	69
WNW	0	6	10	24	21	2	63
NW	1	4	13	32	7	1	58
NNW	1	4	16	16	6	1	44
VARIABLE	0	0	0	0	0	0	0
TOTAL	6	60	155	256	181	33	691

HOURS OF CALM IN THIS STABILITY CLASS - 0
HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 26
HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 0

DRESDEN NUCLEAR POWER STATION
PERIOD OF RECORD - OCTOBER - DECEMBER 1980
STABILITY CLASS - MODERATELY STABLE (DELTA T 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)					GT 24	TOTAL
	.9-3	4- 7	8-12	13-18	19-24		
N	0	1	5	5	2	0	13
NNE	0	1	6	6	0	0	13
NE	0	0	3	2	0	0	5
ENE	0	1	2	0	0	0	3
E	1	0	0	0	0	0	1
ESE	1	1	2	2	0	0	6
SE	0	1	9	4	0	0	14
SSE	1	1	0	1	0	0	3
S	1	0	0	1	0	0	2
SSW	1	0	0	6	6	0	13
SW	0	2	1	18	14	0	35
WSW	0	3	5	21	8	0	37
W	0	6	5	10	7	0	28
WNW	0	0	5	3	1	0	9
NW	0	1	6	6	3	0	16
NNW	0	0	4	5	2	0	11
VARIABLE	0	0	0	0	0	0	0
TOTAL	5	18	53	90	43	0	209

HOURS OF CALM IN THIS STABILITY CLASS - 0
HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 0

DRESDEN NUCLEAR POWER STATION
 PERIOD OF RECORD - OCTOBER - DECEMBER 1980
 STABILITY CLASS - EXTREMELY STABLE (DELTA T 300-35 FT)
 WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (IN MPH)						TOTAL
	.9-3	4-7	8-12	13-18	19-24	GT 24	
N	0	1	1	0	0	0	2
NNE	0	0	1	2	0	0	3
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	1	0	0	1
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	1	0	0	0	1	1	3
SW	0	1	1	4	11	1	18
WSW	0	2	2	3	0	0	7
W	0	2	1	0	0	0	3
WNW	0	3	0	0	0	0	3
NW	1	1	0	0	0	0	2
NNW	0	0	0	0	1	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	2	10	6	10	13	2	43

HOURS OF CALM IN THIS STABILITY CLASS - 0
 HOURS OF MISSING WIND MEASUREMENTS IN THIS STABILITY CLASS - 0
 HOURS OF MISSING STABILITY MEASUREMENTS IN ALL STABILITY CLASSES - 0