

DNPS 2008 Annual Radioactive Effluent Release Report

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
DOCKET NUMBERS: 50-010/50-237/50-249

EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT, SUPPLEMENTAL INFORMATION

Facility: Dresden Nuclear Power Station Units 1,2,3

Licensee: Exelon Nuclear

1. Regulatory Limits

a. Fission and activation gases:

Dose Rate

- 1) Less than 500 mrem/year to the whole body.
- 2) Less than 3000 mrem/year to the skin.

Dose Gamma Radiation (each unit)

- 1) Less than or equal to 5 mrad/quarter.
- 2) Less than or equal to 10 mrad/year.

Beta Radiation (each unit)

- 1) Less than or equal to 10 mrad/quarter.
- 2) Less than or equal to 20 mrad/year.

b.,c. Iodine-131, Iodine-133, and all radionuclides in particulate form with half-lives greater than 8 days:

Dose Rate

- 1) Less than 1500 mrem/year.

Dose (each unit)

- 1) Less than or equal to 7.5 mrem/quarter to any organ.
- 2) Less than or equal to 15 mrem/year to any organ.

d. Liquid effluents (each unit):

- 1) Less than or equal to 1.5 mrem to the whole body during any calendar quarter.
- 2) Less than or equal to 5 mrem to any organ during any calendar quarter.
- 3) Less than or equal to 3 mrem to the whole body during any calendar year.
- 4) Less than or equal to 10 mrem to any organ during any calendar year.

2. Maximum Permissible Concentration

a., b., c. For fission and activation gases, iodines, and particulates with half-lives greater than 8 days, allowable dose rates are calculated by solving equations 2-3 and 2-4 of the Offsite Dose Calculation Manual (ODCM).

d. For liquid effluents, allowable release limits are calculated by solving equations 2-1 and 2-2 of the ODCM.

3. Average Energy

Average energy is not used to determine dose to the public. The ODCM limits the dose equivalent rates due to the release of noble gases to less than or equal to 500 mrem per year to the total body and less than or equal to 3,000 mrem per year to the skin. Compliance with these limits is demonstrated based on dose calculations using measured isotopic concentrations of effluent streams and not based on gross count rate measuring systems. Therefore, the average beta and gamma energies (\bar{E}) for gaseous effluents as described in Regulatory Guide 1.21, "Measuring, Evaluating, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants," are not applicable.

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4. Measurement and Approximations of Total Radioactivity

- a. Fission and Activation Gases:
- b. Iodines:
- c. Particulates:

The Units 2/3 and Unit 1 Chimneys, Units 2/3 Reactor Building Vent, and Chemical Cleaning Building effluents are continually sampled for iodines and particulates. These samples are changed weekly and analyzed by gamma spectroscopy. The particulate filters are composited and sent to a vendor for gross alpha, Sr-89, Sr-90, and Fe-55 analysis. Noble gas grab samples of the Chimneys and Vent are obtained weekly and analyzed by gamma spectroscopy. Contributing streams of the Units 2/3 Chimney and 2/3 Reactor Building Vent are also sampled and analyzed by gamma spectroscopy. Tritium samples of the Chimneys and Vent are obtained monthly and analyzed by liquid scintillation.

For the Units 2/3 Chimney and Units 2/3 Reactor Building Vent effluents, the measured flow at the release points is used to calculate the curies released. For the Unit 1 Chimney and Chemical Cleaning Building effluents, the design basis flows are used to calculate curies released.

- d. Liquid Effluents:

The river discharge tank is analyzed for gamma-emitting nuclides by gamma spectroscopy and for tritium by liquid scintillation prior to discharge. A representative portion of this sample is saved and composited with other discharges that occur during the calendar month. The composite is sent to a vendor for analyses of gross alpha, Sr-89, Sr-90, and Fe-55. The tank volumes and activities are used to calculate the diluted activity released at the discharge point from batch discharges.

Containment Cooling Service Water (CCSW) is sampled from the Low Pressure Coolant Injection (LPCI) heat exchangers monthly and analyzed for gamma-emitting nuclides by gamma spectroscopy. These samples are composited quarterly and analyzed for tritium, gross alpha, Sr-89, Sr-90, and Fe-55. Release volume is based on LPCI heat exchanger shell side volume.

- e. Estimated Total Errors

The estimated total errors were calculated as the square root of the sum of the squares of significant errors present in the sampling and analysis process.

- f. Less than the Lower Limit of Detection (<LLD)

Samples are analyzed such that the ODCM LLD requirements are met. When a nuclide is not detected, then <LLD is reported.

- g. Estimation of Data/Corrections:

In May 2008, the 2/3 Main Chimney system flow rate meter was found to be indicating lower than actual flow rate due to plugging of the sensor probe. Review of historical 2/3 Main Chimney flow data indicates this condition began in April 2004. Per the ODCM, if 2/3 Main Chimney actual system flow rate is not available, the design flow rate of 1.25E+10 cc/min can be used. This flow rate is conservative because it is higher than the actual value. This flow rate was applied to 2/3 Main Chimney noble gas, particulate, iodine, and tritium measurements for the entirety of 2008. Units 2 and 3 gland seal and offgas effluent activity release calculations were not affected because they do not use the 2/3 Main Chimney flow rate meter.

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5. Batch Releases (does not include Abnormal / Unmonitored Releases, described below)

a. Liquid - Radwaste Liquid Effluents

1. Number of batch releases: 0
2. Total time period for batch releases: 0.00E+00 minutes
3. Maximum time period for a batch release: 0.00E+00 minutes
4. Average time period for a batch release: 0.00E+00 minutes
5. Minimum time period for a batch release: 0.00E+00 minutes
6. Average stream flow during periods of release of effluent into a flowing stream: 1.24E+06 lpm

b. Liquid - Containment Cooling Service Water (LPCI)

1. Number of batch releases: 176
2. Total time period for batch releases: 2.18E+02 minutes
3. Maximum time period for a batch release: 1.24E+00 minutes
4. Average time period for a batch release: 1.24E+00 minutes
5. Minimum time period for a batch release: 1.24E+00 minutes
6. Average stream flow during periods of release of effluent into a flowing stream: 1.24E+06 lpm

c. Gaseous - None

6. Abnormal Releases*

a. Liquid

1. Number of releases: 0
2. Total activity released: 0.00E+00 Ci

b. Gaseous

1. Number of releases: 1
2. Total activity released: 6.10E-02 Ci

- b.1 An access door on a 2/3 Chimney duct was found ajar on September 26, 2008. Investigation concluded the door was ajar for a maximum of 154 days and the maximum flow was 2000 scfm, and these maximum values were used for calculating the sample volume. Measurements of activity released from the 2/3 Chimney surrounding the event, consisting of tritium, Mn-54, Co-60, Sr-89, I-131, I-133, Xe-135, Cs-137, and Ba-140 were used to estimate the concentration of activity released. For this event, an estimated 6.10E-02 Ci of total activity was released to the environment as a ground-level gaseous release.

*These releases are included in the Effluents Summation of all Releases Tables and in the Radiological Impact on Man.

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7. Unmonitored Releases*
- a. Liquid
 - 1. Number of releases: 1
 - 2. Total activity released: 8.17E-02 Ci
 - b. Gaseous
 - 1. Number of releases: 8
 - 2. Total activity released: 5.30E-04 Ci
 - a.1 Water in on-site storm sewers is routinely sampled and analyzed for tritium content. The highest storm drain concentrations measured during each calendar quarter of 2008 was used to calculate the released activity for each quarter. The total activity released is based on an estimated typical discharge flow of 10 gallons per minute. An estimated 8.17E-02 Ci of tritium was released to the environment during 2008.
 - b.1 The Unit 1 Main Turbine Floor is used as an area to work on contaminated equipment. The ventilation system is no longer operational and the floor is at ambient pressure with the outside environment. With radiological work activities being performed on the Unit 1 Main Turbine Floor, the potential exists for airborne activity to be released to the environment through various potential release points. Based on the work normally performed in this area, an estimated 3.60E-05 Ci of Cs-137 was released from this area during 2008.
 - b.2 The Unit 2/3 Heating Steam system has low-level contamination present. During operation of the system, some steam is vented directly into the environment. Based on the activities detected in the system and the makeup volume used during the year, an estimated 1.11E-06 Ci of Co-60 was released to the environment from this system during 2008.
 - b.3 The Chemistry Laboratory Ventilation system exhausts directly into the environment and is not monitored. Based on an evaluation of activities performed in the area, the estimated activity released to the environment from the laboratory in 2008 is 1.22E-04 Ci of noble gases and 3.21E-06 Ci of iodines and particulates.
 - b.4 Past radiological surveys have identified low-level contamination in the East Turbine Building Ventilation ductwork. This system vents directly to the environment and is not monitored. Based on the highest activities detected during a survey of the system and the estimated area of the system surface, an estimated 2.00E-06 Ci Co-60 and 1.49E-06 Ci Cs-137 were released for a total estimated 3.49E-06 Ci of activity that was released to the environment from this system during 2008.
 - b.5 Four unmonitored releases occurred when the Unit 2 Isolation Condenser was actuated as part of planned surveillances on September 7, 10, 12, and 13, 2008. In the past, activity was detected on the shell side of the condenser / heat exchanger, which vents directly to the atmosphere. As a result, actuation of this system prompts analysis of the shell side contents and the downspouts from roofs under the exhaust. The highest concentrations of activity detected before, during, and after each actuation were used for release calculations, and release volume was calculated from changes in the shell-side level. An estimated 1.07E-06 Ci Co-60 and 3.63E-04 Ci tritium were released during these planned system actuations for a total estimated 3.65E-04 Ci of activity that was released to the environment from this system during 2008.

*These releases are included in the Effluents Summation of all Releases Tables and in the Radiological Impact on Man.

8. Summary of Offsite Dose Calculation Manual (ODCM) Changes by Dresden Nuclear Power Station (DNPS) in 2008

Revision 7 of the ODCM was issued on October 15, 2008. The revision implements an existing contingency (i.e., expansion of the Restricted Area to accommodate the Steam Dryer Storage Building), clarifies existing guidance and data, makes typographical corrections, and makes editorial enhancements. Further description of the changes is provided in a separate attachment to this report.

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2008
GASEOUS EFFLUENTS – SUMMATION OF ALL RELEASES

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Units	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Est. Total Error, %
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A. Fission & activation gases

1. Total release	Ci	9.57E+01	2.54E+01	2.26E+01	2.05E+01	1.31E+01
2. Average release rate for period	μCi/sec	1.22E+01	3.23E+00	2.84E+00	2.58E+00	
3. Percent of Technical specification limit	%	*	*	*	*	

B. Iodines

1. Total iodine-131	Ci	3.91E-04	3.73E-04	3.00E-04	3.94E-04	2.60E+01
2. Average release rate for period (I-131)	μCi/sec	4.98E-05	4.74E-05	3.77E-05	4.96E-05	
3. Percent of technical specification limit	%	*	*	*	*	

C. Particulates

1. Particulates with half-lives > 8 days	Ci	6.01E-04	6.13E-04	5.92E-04	5.62E-04	2.94E+01
2. Average release rate for period	μCi/sec	7.64E-05	7.80E-05	7.45E-05	7.06E-05	
3. Percent of technical specification limit	%	*	*	*	*	
4. Gross alpha radioactivity	Ci	<LLD	<LLD	<LLD	<LLD	

D. Tritium

1. Total release	Ci	6.19E+00	6.63E+00	2.64E+00	4.93E+00	7.56E+00
2. Average release rate for period	μCi/sec	7.87E-01	8.43E-01	3.32E-01	6.21E-01	
3. Percent of technical specification Limit	%	*	*	*	*	

* Applicable limits have been removed from the Technical Specifications. The comparison to ODCM limits is contained in the Radiological Impact on Man section of this report. Total airborne release data are provided which include fission and activation gases, iodines, particulates, and tritium.

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2008
 GASEOUS EFFLUENTS – SUMMATION OF ALL RELEASES

DOCKET NUMBERS: 50-010/50-237/50-249

TABLE OF LOWER LIMITS OF DETECTABILITY
 FOR GASEOUS EFFLUENTS

1.	FISSION / ACTIVATION GASES	μCi/cc
	Kr-87	1.00E-04
	Kr-88	1.00E-04
	Xe-133	1.00E-04
	Xe-133m	1.00E-04
	Xe-135	1.00E-04
	Xe-138	1.00E-04
2.	IODINES	μCi/cc
	I-131	1.00E-12
	I-133	1.00E-10
3.	PARTICULATES	μCi/cc
	Sr-89	1.00E-11
	Sr-90	1.00E-11
	Mn-54	1.00E-11
	Co-58	1.00E-11
	Fe-59	1.00E-11
	Co-60	1.00E-11
	Zn-65	1.00E-11
	Mo-99	1.00E-11
	Cs-134	1.00E-11
	Cs-137	1.00E-11
	Ce-141	1.00E-11
	Ce-144	1.00E-11
4.	OTHER	μCi/cc
	H-3	1.00E-06
	Gross Alpha	1.00E-11

The above values are the ODCM-required LLDs. The actual analyses always met the required LLDs.

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2008

UNIT 1 MAIN CHIMNEY

GASEOUS EFFLUENTS

DOCKET NUMBER: 50-010

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GROUND LEVEL RELEASES
SEMI-ELEVATED RELEASES
ELEVATED RELEASES

CONTINUOUS MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	TOTAL
1. Fission and Activation Gases						
Ar-41	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
2. Iodines						
I-131	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
3. Particulates						
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cr-51	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mn-54	Ci	3.52E-07	3.87E-07	2.31E-07	9.40E-07	1.91E-06
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	1.76E-07	1.04E-06	<LLD	5.25E-07	1.74E-06
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	2.06E-06	6.01E-07	4.56E-07	3.12E-06
Ba-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	5.28E-07	3.49E-06	8.32E-07	1.92E-06	6.77E-06
4. Tritium						
Total for period	Ci	6.93E-04	2.18E-03	1.41E-03	7.73E-04	5.06E-03

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2008

UNIT 1 MAIN CHIMNEY

GASEOUS EFFLUENTS

DOCKET NUMBER: 50-010

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GROUND LEVEL RELEASES
SEMI-ELEVATED RELEASES
ELEVATED RELEASES

BATCH MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	TOTAL
1. Fission and Activation Gases						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-133	Ci					
Xe-133m	Ci					
Xe-135	Ci					
Xe-135m	Ci					
Xe-138	Ci					
Total for period	Ci	None	None	None	None	None
2. Iodines						
I-131	Ci					
I-133	Ci					
I-135	Ci					
Total for period	Ci	None	None	None	None	None
3. Particulates						
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Mo-99	Ci					
Ag-110m	Ci					
Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Total for period	Ci	None	None	None	None	None
4. Tritium						
Total for period	Ci	None	None	None	None	None

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2008

UNITS 2/3 REACTOR BUILDING VENT

GASEOUS EFFLUENTS

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XX	GROUND LEVEL RELEASES
	SEMI-ELEVATED RELEASES
	ELEVATED RELEASES

CONTINUOUS MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	TOTAL
1. Fission and Activation Gases						
Ar-41	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci	<LLD	3.27E-05	<LLD	<LLD	3.27E-05
Xe-135m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	<LLD	3.27E-05	<LLD	<LLD	3.27E-05
2. Iodines						
I-131	Ci	<LLD	<LLD	<LLD	5.06E-05	5.06E-05
I-133	Ci	<LLD	<LLD	<LLD	3.60E-05	3.60E-05
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	<LLD	<LLD	<LLD	8.66E-05	8.66E-05
3. Particulates						
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cr-51	Ci	1.04E-05	<LLD	<LLD	3.31E-06	1.37E-05
Mn-54	Ci	3.68E-05	2.96E-06	4.25E-06	3.95E-05	8.35E-05
Co-58	Ci	<LLD	<LLD	<LLD	1.95E-06	1.95E-06
Fe-59	Ci	7.07E-06	<LLD	<LLD	3.26E-06	1.03E-05
Co-60	Ci	1.48E-05	6.35E-06	4.85E-06	3.87E-05	6.47E-05
Zn-65	Ci	<LLD	<LLD	<LLD	1.55E-05	1.55E-05
Mo-99	Ci	<LLD	<LLD	<LLD	1.16E-06	1.16E-06
Ag-110m	Ci	<LLD	<LLD	<LLD	1.41E-06	1.41E-06
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	6.91E-05	9.31E-06	9.09E-06	1.05E-04	1.92E-04
4. Tritium						
Total for period	Ci	1.06E+00	8.74E-01	8.01E-01	3.29E+00	6.03E+00

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2008

UNITS 2/3 REACTOR BUILDING VENT

GASEOUS EFFLUENTS

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GROUND LEVEL RELEASES
SEMI-ELEVATED RELEASES
ELEVATED RELEASES

BATCH MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	TOTAL
1. Fission and Activation Gases						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-133	Ci					
Xe-133m	Ci					
Xe-135	Ci					
Xe-135m	Ci					
Xe-138	Ci					
Total for period	Ci	None	None	None	None	None
2. Iodines						
I-131	Ci					
I-133	Ci					
I-135	Ci					
Total for period	Ci	None	None	None	None	None
3. Particulates						
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Mo-99	Ci					
Ag-110m	Ci					
Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Total for period	Ci	None	None	None	None	None
4. Tritium						
Total for period	Ci	None	None	None	None	None

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UNITS 2/3 MAIN CHIMNEY

GASEOUS EFFLUENTS

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GROUND LEVEL RELEASES
SEMI-ELEVATED RELEASES
ELEVATED RELEASES

CONTINUOUS MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	TOTAL
1. Fission and Activation Gases						
Ar-41	Ci	7.62E-01	3.91E-01	3.05E+00	3.18E+00	7.39E+00
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	1.64E+00	4.00E-01	6.25E-01	1.05E+00	3.71E+00
Kr-87	Ci	7.08E+00	3.91E-01	4.81E-01	7.31E-01	8.68E+00
Kr-88	Ci	3.51E+00	2.91E-01	6.67E-01	1.49E+00	5.96E+00
Xe-133	Ci	1.98E+00	1.14E+00	1.69E+00	1.06E+00	5.87E+00
Xe-133m	Ci	<LLD	<LLD	1.20E-02	4.54E-02	5.74E-02
Xe-135	Ci	1.73E+01	9.25E+00	4.46E+00	4.43E+00	3.54E+01
Xe-135m	Ci	1.70E+01	2.75E+00	2.34E+00	1.70E+00	2.38E+01
Xe-138	Ci	4.64E+01	1.08E+01	9.22E+00	6.78E+00	7.32E+01
Total for period	Ci	9.57E+01	2.54E+01	2.25E+01	2.05E+01	1.64E+02
2. Iodines						
I-131	Ci	3.91E-04	3.73E-04	2.97E-04	3.43E-04	1.40E-03
I-133	Ci	7.65E-04	9.62E-04	1.32E-03	6.87E-04	3.73E-03
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	1.16E-03	1.34E-03	1.62E-03	1.03E-03	5.14E-03
3. Particulates						
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	1.38E-04	1.48E-04	1.31E-04	7.33E-05	4.90E-04
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cr-51	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mn-54	Ci	3.59E-05	<LLD	3.73E-05	5.28E-05	1.26E-04
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	1.45E-05	5.21E-05	6.89E-05	8.56E-05	2.21E-04
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	7.93E-06	5.81E-06	1.37E-05
Ba-140	Ci	3.41E-04	4.00E-04	3.31E-04	1.93E-04	1.27E-03
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	5.30E-04	5.99E-04	5.76E-04	4.11E-04	2.12E-03
4. Tritium						
Total for period	Ci	5.13E+00	5.75E+00	1.81E+00	1.64E+00	1.43E+01

DRESDEN NUCLEAR POWER STATION
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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2008

UNITS 2/3 MAIN CHIMNEY

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

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GROUND LEVEL RELEASES
 SEMI-ELEVATED RELEASES
 ELEVATED RELEASES

BATCH MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	TOTAL
1. Fission and Activation Gases						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-133	Ci					
Xe-133m	Ci					
Xe-135	Ci					
Xe-135m	Ci					
Xe-138	Ci					
Total for period	Ci	None	None	None	None	None
2. Iodines						
I-131	Ci					
I-133	Ci					
I-135	Ci					
Total for period	Ci	None	None	None	None	None
3. Particulates						
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Mo-99	Ci					
Ag-110m	Ci					
Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Total for period	Ci	None	None	None	None	None
4. Tritium						
Total for period	Ci	None	None	None	None	None

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CHEMICAL CLEANING BUILDING

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-010/50-237/50-249

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GROUND LEVEL RELEASES
SEMI-ELEVATED RELEASES
ELEVATED RELEASES

CONTINUOUS MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	TOTAL
1. Fission and Activation Gases						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-133	Ci					
Xe-133m	Ci					
Xe-135	Ci					
Xe-135m	Ci					
Xe-138	Ci					
Total for period	Ci	None	None	None	None	None
2. Iodines						
I-131	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
3. Particulates						
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cr-51	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mn-54	Ci	2.34E-07	1.89E-07	3.06E-07	<LLD	7.29E-07
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	6.97E-07	6.72E-07	<LLD	2.87E-07	1.66E-06
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	9.31E-07	8.61E-07	3.06E-07	2.87E-07	2.38E-06
4. Tritium						
Total for period	Ci	None	None	None	None	None

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CHEMICAL CLEANING BUILDING

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-010/50-237/50-249

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GROUND LEVEL RELEASES
SEMI-ELEVATED RELEASES
ELEVATED RELEASES

BATCH MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	TOTAL
1. Fission and Activation Gases						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-133	Ci					
Xe-133m	Ci					
Xe-135	Ci					
Xe-135m	Ci					
Xe-138	Ci					
Total for period	Ci	None	None	None	None	None
2. Iodines						
I-131	Ci					
I-133	Ci					
I-135	Ci					
Total for period	Ci	None	None	None	None	None
3. Particulates						
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Mo-99	Ci					
Ag-110m	Ci					
Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Total for period	Ci	None	None	None	None	None
4. Tritium						
Total for period	Ci	None	None	None	None	None

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2008
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

DOCKET NUMBERS: 50-010/50-237/50-249

Units	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Est. Total Error, %
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A. Fission and activation products						
1. Total release (not including H-3, gases, alpha)	Ci	3.24E-05	4.13E-05	1.20E-05	8.39E-05	1.95E+01
2. Average diluted concentration during period	μCi/ml	1.30E-12	4.03E-13	2.39E-14	3.34E-12	
3. Percent of applicable limit	%	*	*	*	*	

B. Tritium						
1. Total release	Ci	<LLD	<LLD	<LLD	8.17E-02	2.37E+00
2. Average diluted concentration during period	μCi/ml	<LLD	<LLD	<LLD	3.25E-09	
3. Percent of applicable limit	%	*	*	*	*	

C. Dissolved and entrained gases						
1. Total release	Ci	<LLD	<LLD	<LLD	<LLD	2.03E+01
2. Average diluted concentration during period	μCi/ml	<LLD	<LLD	<LLD	<LLD	
3. Percent of applicable limit	%	*	*	*	*	

D. Gross alpha activity						
1. Total release	Ci	<LLD	<LLD	<LLD	<LLD	2.00E+01

E. Volume of waste released (prior to dilution)						
	Liters	4.93E+05	8.38E+05	5.42E+05	2.10E+07	1.00E+00

F. Volume of dilution water used during period						
	Liters	2.48E+10	1.02E+11	5.01E+11	2.51E+10	5.00E+00

* Applicable limits have been removed from the Technical Specifications. The comparison to ODCM limits is contained in the Radiological Impact on Man section of this report. Total liquid release data are provided which include fission and activation products, tritium, and dissolved and entrained gases.

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2008
 LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

DOCKET NUMBERS: 50-010/50-237/50-249

TABLE OF LOWER LIMITS OF DETECTABILITY
 FOR LIQUID EFFLUENTS

1.	FISSION/ACTIVATION GASES	μCi/ml
	Kr-87	1.00E-05
	Kr-88	1.00E-05
	Xe-133	1.00E-05
	Xe-133m	1.00E-05
	Xe-135	1.00E-05
	Xe-138	1.00E-05
2.	IODINES	μCi/ml
	I-131	1.00E-06
3.	PARTICULATES	μCi/ml
	Fe-55	1.00E-06
	Sr-89	5.00E-08
	Sr-90	5.00E-08
	Mn-54	5.00E-07
	Co-58	5.00E-07
	Fe-59	5.00E-07
	Co-60	5.00E-07
	Zn-65	5.00E-07
	Mo-99	5.00E-07
	Cs-134	5.00E-07
	Cs-137	5.00E-07
	Ce-141	5.00E-07
	Ce-144	5.00E-06
4.	OTHER	μCi/ml
	H-3	1.00E-05
	Gross Alpha	1.00E-07

The above values are the ODCM-required LLDs. The actual analyses always met the required LLDs.

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2008

UNITS 2/3 RADWASTE LIQUID EFFLUENTS

DOCKET NUMBERS: 50-010/50-237/50-249

BATCH MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Total
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
I-131	Ci					
I-132	Ci					
I-133	Ci					
I-134	Ci					
I-135	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
As-76	Ci					
Zr-95	Ci					
Sr-91	Ci					
Mo-99	Ci					
Tc-99m	Ci					
Ru-103	Ci					
Ag-110m	Ci					
Sb-125	Ci					
Cs-134	Ci					
Cs-136	Ci					
Cs-137	Ci					
Ba-139	Ci					
Ba-140	Ci					
La-140	Ci					
Ce-141	Ci					
(above) Total	Ci	None	None	None	None	None
H-3	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-133	Ci					
Xe-133m	Ci					
Xe-135	Ci					
Xe-138	Ci					

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UNITS 2/3 RADWASTE LIQUID EFFLUENTS

DOCKET NUMBERS: 50-010/50-237/50-249

CONTINUOUS MODE

Unit		1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Total
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
I-131	Ci					
I-132	Ci					
I-133	Ci					
I-134	Ci					
I-135	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
As-76	Ci					
Zr-95	Ci					
Sr-91	Ci					
Mo-99	Ci					
Tc-99m	Ci					
Ru-103	Ci					
Ag-110m	Ci					
Sb-124	Ci					
Cs-134	Ci					
Cs-136	Ci					
Cs-137	Ci					
Cs-138	Ci					
Ba-140	Ci					
La-140	Ci					
Ce-141	Ci					
(above) Total	Ci	None	None	None	None	None
H-3	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-133	Ci					
Xe-133m	Ci					
Xe-135	Ci					
Xe-138	Ci					

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UNITS 2/3 CONTAINMENT COOLING SERVICE WATER

DOCKET NUMBERS: 50-237/50-249

		BATCH MODE					
	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Total	
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
I-131	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
I-132	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
I-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
I-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Cr-51	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Mn-54	Ci	2.08E-05	1.38E-05	1.01E-05	2.59E-05	7.06E-05	
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Co-60	Ci	5.23E-06	9.57E-06	1.82E-06	5.03E-05	6.69E-05	
Zn-65	Ci	6.33E-06	1.79E-05	<LLD	3.88E-06	2.82E-05	
As-76	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Sr-91	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Tc-99m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Ru-103	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Sb-124	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Cs-136	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Cs-137	Ci	<LLD	<LLD	<LLD	3.81E-06	3.81E-06	
Ba-139	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Ba-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
La-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
(above) Total	Ci	3.24E-05	4.13E-05	1.20E-05	8.39E-05	1.70E-04	
H-3	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Xe-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Xe-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	

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UNITS 2/3 CONTAINMENT COOLING SERVICE WATER

DOCKET NUMBERS: 50-237/50-249

CONTINUOUS MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Total
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
I-131	Ci					
I-132	Ci					
I-133	Ci					
I-134	Ci					
I-135	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
As-76	Ci					
Zr-95	Ci					
Sr-91	Ci					
Mo-99	Ci					
Tc-99m	Ci					
Ru-103	Ci					
Ag-110m	Ci					
Sb-124	Ci					
Cs-134	Ci					
Cs-136	Ci					
Cs-137	Ci					
Cs-138	Ci					
Ba-140	Ci					
La-140	Ci					
Ce-141	Ci					
(above) Total	Ci	None	None	None	None	None
H-3	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-133	Ci					
Xe-135	Ci					
Xe-138	Ci					

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2008
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (Not irradiated fuel)

1. Type of Waste	Unit	12-month Period	Est. Total Error, %
a. Spent resins, filter sludges / filters, evaporator bottoms, etc.	m ³	7.77E+01	2.50E+01
	Ci	3.51E+02	
b. Dry compressible waste, contaminated equipment, etc. (includes some contaminated liquids)	m ³	1.43E+03	2.50E+01
	Ci	2.88E+00	
c. Irradiated components, control rods, etc.	m ³	1.66E-01	2.50E+01
	Ci	1.20E+04	
d. Other (describe) - Contaminated Oil, Fuel Pool Filters, Combined Packages	m ³	1.09E+02	2.50E+01
	Ci	1.46E+02	

2. Estimate of Major (i.e., ≥1%) Nuclide Composition (by type of waste)

a. Spent resins, filters / filter sludges, evaporator bottoms, etc.

	Percent %	Curies
Fe-55	6.26E+01	2.20E+02
Co-60	2.19E+01	7.70E+01
Mn-54	8.28E+00	2.91E+01
Zn-65	3.80E+00	1.33E+01
Cs-137	2.46E+00	8.62E+00

Shipment type: LSA, Type B
Solidification agent or absorbent: None

b. Dry compressible waste, contaminated equipment, etc.

	Percent %	Curies
Mn-54	5.42E+01	1.56E+00
Co-60	2.70E+01	7.79E-01
Fe-55	8.18E+00	2.36E-01
Fe-59	5.36E+00	1.55E-01
Cr-51	1.20E+00	3.45E-02
Zn-65	1.01E+00	2.93E-02

Shipment type: LSA
Solidification agent or absorbent: None

c. Irradiated components, control rods, etc.

	Percent %	Curies
Co-60	5.75E+01	6.92E+03
Fe-55	3.81E+01	4.58E+03
Ni-63	2.96E+00	3.56E+02
Mn-54	1.42E+00	1.71E+02

Shipment type: Type B
Solidification agent or absorbent: None

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2008
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

2. Estimate of Major (i.e., ≥1%) Nuclide Composition (by type of waste) - Continued

d. Other - Contaminated Oil, Fuel Pool Filters, Combined Packages

	<u>Percent %</u>	<u>Curies</u>
Fe-55	5.06E+01	7.37E+01
Co-60	2.98E+01	4.34E+01
Mn-54	1.34E+01	1.95E+01
Ni-63	2.03E+00	2.95E+00
Fe-59	1.85E+00	2.69E+00

Shipment type: Limited Quantity, LSA
Solidification agent or absorbent: None

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
37	Motor freight (exclusive use only)	Energy Solutions - Bear Creek Road, Oak Ridge, TN
11	Motor freight (exclusive use only)	Energy Solutions - Envirocare, Clive, UT
4	Motor freight (exclusive use only)	Energy Solutions - Gallaher Road, Kingston, TN
3	Motor freight (exclusive use only)	Energy Solutions - Barnwell, SC
1	Motor freight (exclusive use only)	Studsvik Processing Facility - Erwin, TN
1	Motor freight (exclusive use only)	Energy Solutions - Memphis, TN

B. IRRADIATED FUEL SHIPMENTS (Disposition)

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
None	(NA)	(NA)

C. CHANGES TO THE PROCESS CONTROL PROGRAM (PCP)

- Revision 6 of RW-AA-100, "Process Control Program for Radioactive Wastes" was issued on May 14, 2008. This revision clarified the definition of a High Integrity Container and clarified documentation requirements for High Integrity Container shipment to specific locations. These changes do not constitute a significant change to the PCP.
- Revision 7 of RW-AA-100, "Process Control Program for Radioactive Wastes" was issued on December 15, 2008. This revision did not constitute a significant change to the PCP because it implemented administrative enhancements only. The enhancements implemented include the clarification of which section of 49CFR is applicable to burial site requirements, the addition of references, and corrected the use of "should," "shall," "may," and "will."

No major changes were made to the DNPS radioactive liquid, gaseous, or solid waste treatment systems in 2008.

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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RADIOLOGICAL IMPACT ON MAN*

A. UNIT 1

Docket Number: 50-010

1. Airborne Releases

	Quarterly Limit	Maximum Doses from Airborne Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Gamma Air (mrad)	5.0 mrad	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	10.0 mrad	0.00E+00 (e)
Beta Air (mrad)	10.0 mrad	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	20.0 mrad	0.00E+00 (e)
Total Body (mrem)	2.5 mrem	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	5.0 mrem	0.00E+00 (e)
Skin (mrem)	7.5 mrem	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	15.0 mrem	0.00E+00 (e)
Organ (mrem)	7.5 mrem	3.58E-06(t)	9.03E-06(c)	2.37E-06(c)	7.86E-04(i)	15.0 mrem	7.95E-04 (c)
Critical Organ		Lung	Liver	Liver	Liver		Liver

	Quarterly Limit	Percentage of Quarterly Limit (%)				Yearly Limit	Percentage of Annual Limit
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Gamma Air	5.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00	10.0 mrad	0.00E+00
Beta Air	10.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00	20.0 mrad	0.00E+00
Total Body	2.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.0 mrem	0.00E+00
Skin	7.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00	15.0 mrem	0.00E+00
Organ	7.5 mrem	4.77E-05	1.20E-04	3.16E-05	1.05E-02	15.0 mrem	5.30E-03

2. Liquid Releases

	Quarterly Limit	Maximum Doses from Liquid Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Total Body (mrem)	1.5 mrem	None	None	None	None	3.0 mrem	None
Organ (mrem)	5.0 mrem	None	None	None	None	10.0 mrem	None
Critical Organ		None	None	None	None		None

	Quarterly Limit	Percentage of Quarterly Limit (%)				Yearly Limit	Percentage of Annual Limit
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Total Body	1.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.0 mrem	0.00E+00
Organ	5.0 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00	10.0 mrem	0.00E+00

3. Direct Radiation

The maximum calculated direct radiation exposure to a member of the public due to Unit 1 turbine building skyshine was 0.00E+00 mrem during 2008 (Unit 1 is permanently shutdown). Total Deep Dose Equivalent from Unit 1 was 7.77E-04 mrem in 2008.

4. Total Dose Assessment

The maximum calculated Total Effective Dose Equivalent exposure to a member of the public as the result of Unit 1 activities during 2008 is 7.87E-04 mrem. The maximum calculated Committed Effective Dose Equivalent exposure to a member of the public as the result of Unit 1 activities during 2008 is 1.02E-05 mrem.

*The doses reported include abnormal and unmonitored releases. These doses are the highest among the four analyzed receptors as described in parentheses [(i)=infant, (c)=child, (t)=teenager, (a)=adult, (e)=every receptor has the same value].

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RADIOLOGICAL IMPACT ON MAN*

B. UNIT 2

Docket Number: 50-237

1. Airborne Releases

	Quarterly Limit	Maximum Doses from Airborne Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Gamma Air (mrad)	5.0 mrad	2.22E-04 (e)	5.65E-05 (e)	1.66E-04 (e)	2.09E-04 (e)	10.0 mrad	6.53E-04 (e)
Beta Air (mrad)	10.0 mrad	1.56E-05 (e)	4.14E-06 (e)	9.58E-06 (e)	1.31E-05 (e)	20.0 mrad	4.23E-05 (e)
Total Body (mrem)	2.5 mrem	1.68E-04 (e)	4.26E-05 (e)	1.25E-04 (e)	2.45E-04 (e)	5.0 mrem	4.97E-04 (e)
Skin (mrem)	7.5 mrem	1.85E-04 (e)	4.71E-05 (e)	1.36E-04 (e)	1.72E-04 (e)	15.0 mrem	5.41E-04 (e)
Organ (mrem)	7.5 mrem	1.42E-04 (c)	9.48E-04 (c)	4.54E-04 (c)	7.90E-04 (c)	15.0 mrem	2.33E-03 (c)
Critical Organ		Lung	Thyroid	Thyroid	Thyroid		Thyroid

	Quarterly Limit	Percentage of Quarterly Limit (%)				Yearly Limit	Percentage of Annual Limit
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Gamma Air	5.0 mrad	4.44E-03	1.13E-03	3.32E-03	4.18E-03	10.0 mrad	6.53E-03
Beta Air	10.0 mrad	1.56E-04	4.14E-05	9.58E-05	1.31E-04	20.0 mrad	2.12E-04
Total Body	2.5 mrem	6.72E-03	1.70E-03	5.00E-03	9.80E-03	5.0 mrem	9.94E-03
Skin	7.5 mrem	2.47E-03	6.28E-04	1.81E-03	2.29E-03	15.0 mrem	3.61E-03
Organ	7.5 mrem	1.89E-03	1.26E-02	6.05E-03	1.05E-02	15.0 mrem	1.55E-02

2. Liquid Releases

	Quarterly Limit	Maximum Doses from Liquid Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Total Body (mrem)	1.5 mrem	2.39E-07 (c)	6.28E-07 (c)	1.12E-08 (c)	1.39E-06 (a)	3.0 mrem	2.20E-06 (a)
Organ (mrem)	5.0 mrem	5.78E-07 (a)	1.30E-06 (a)	1.43E-07 (a)	2.27E-06 (t)	10.0 mrem	4.11E-06 (a)
Critical Organ		GI LLI	Liver	GI LLI	Liver		Liver

	Quarterly Limit	Percentage of Quarterly Limit (%)				Yearly Limit	Percentage of Annual Limit
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Total Body	1.5 mrem	1.59E-05	4.19E-05	7.47E-07	9.27E-05	3.0 mrem	7.33E-05
Organ	5.0 mrem	1.16E-05	2.60E-05	2.86E-06	4.54E-05	10.0 mrem	4.11E-05

3. Direct Radiation

The calculated direct radiation exposure to a member of the public due to Unit 2 turbine building skyshine was 4.25E+00 mrem during 2008. Total Deep Dose Equivalent from the operation of Unit 2 was 4.25E+00 mrem in 2008.

4. Total Dose Assessment

The maximum calculated Total Effective Dose Equivalent exposure to a member of the public as the result of Unit 2 operations during 2008 is 4.25E+00 mrem. The maximum calculated Committed Effective Dose Equivalent exposure to a member of the public as the result of Unit 2 operations during 2008 is 8.47E-04 mrem.

*The doses reported include abnormal and unmonitored releases. These doses are the highest among the four analyzed receptors as described in parentheses [(i)=infant, (c)=child, (t)=teenager, (a)=adult, (e)=every receptor has the same value].

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RADIOLOGICAL IMPACT ON MAN*

C. UNIT 3

DOCKET NUMBER: 50-249

1. Airborne Releases

	Quarterly Limit	Maximum Doses from Airborne Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Gamma Air (mrad)	5.0 mrad	1.71E-03 (e)	3.62E-04 (e)	2.91E-04 (e)	2.30E-04 (e)	10.0 mrad	2.59E-03 (e)
Beta Air (mrad)	10.0 mrad	1.20E-04 (e)	2.73E-05 (e)	2.75E-05 (e)	1.45E-05 (e)	20.0 mrad	1.87E-04 (e)
Total Body (mrem)	2.5 mrem	1.29E-03 (e)	2.73E-04 (e)	2.19E-04 (e)	1.73E-04 (e)	5.0 mrem	1.95E-03 (e)
Skin (mrem)	7.5 mrem	1.42E-03 (e)	3.02E-04 (e)	2.48E-04 (e)	1.90E-04 (e)	15.0 mrem	2.16E-03 (e)
Organ (mrem)	7.5 mrem	5.29E-04 (a)	3.46E-03 (c)	3.79E-03 (c)	2.40E-03 (c)	15.0 mrem	1.01E-02 (c)
Critical Organ		Thyroid	Thyroid	Thyroid	Thyroid		Thyroid

	Quarterly Limit	Percentage of Quarterly Limit (%)				Yearly Limit	Percentage of Annual Limit
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Gamma Air	5.0 mrad	3.42E-02	7.24E-03	5.82E-03	4.60E-03	10.0 mrad	2.59E-02
Beta Air	10.0 mrad	1.20E-03	2.73E-04	2.75E-04	1.45E-04	20.0 mrad	9.35E-04
Total Body	2.5 mrem	5.16E-02	1.09E-02	8.76E-03	6.92E-03	5.0 mrem	3.90E-02
Skin	7.5 mrem	1.89E-02	4.03E-03	3.31E-03	2.53E-03	15.0 mrem	1.44E-02
Organ	7.5 mrem	7.05E-03	4.61E-02	5.05E-02	3.20E-02	15.0 mrem	6.73E-02

2. Liquid Releases

	Quarterly Limit	Maximum Doses from Liquid Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Total Body (mrem)	1.5 mrem	None	None	None	5.22E-07 (c)	3.0 mrem	5.22E-07 (c)
Organ (mrem)	5.0 mrem	None	None	None	5.35E-07 (c)	10.0 mrem	5.35E-07 (c)
Critical Organ		None	None	None	GI LLI		GI LLI

	Quarterly Limit	Percentage of Quarterly Limit (%)				Yearly Limit	Percentage of Annual Limit
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Total Body	1.5 mrem	0.00E+00	0.00E+00	0.00E+00	3.48E-05	3.0 mrem	1.74E-05
Organ	5.0 mrem	0.00E+00	0.00E+00	0.00E+00	1.07E-05	10.0 mrem	5.35E-06

3. Direct Radiation

The maximum calculated direct radiation exposure to a member of the public due to Unit 3 turbine building skyshine was 3.93E+00 mrem during 2008. Total Deep Dose Equivalent from the operation of Unit 3 was 3.94E+00 mrem in 2008.

4. Total Dose Assessment

The maximum calculated Total Effective Dose Equivalent exposure to a member of the public as the result of Unit 3 operations during 2008 is 3.94E+00 mrem. The maximum calculated Committed Effective Dose Equivalent exposure to a member of the public as the result of Unit 3 operations during 2008 is 3.74E-03 mrem.

*The doses reported include abnormal and unmonitored releases. These doses are the highest among the four analyzed receptors as described in parentheses [(i)=infant, (c)=child, (t)=teenager, (a)=adult, (e)=every receptor has the same value].

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DOCKET NUMBERS: 50-010/50-237/50-249

D. 40CFR190 Compliance

The General Electric Hitachi Nuclear Energy Morris Operation (GE-Hitachi Morris Operation) facility is physically located near Dresden Station and, in addition to evolutions performed at Dresden station, is considered in the evaluation of the uranium fuel cycle on members of the public in the general environment for 40CFR190 compliance.

Dresden decommissioning activities (Unit 1) and operations (Units 2 and 3) resulted in a maximum $1.32\text{E}-02$ mrem organ dose and $9.19\text{E}+00$ mrem Deep Dose Equivalent. Radiological Environmental Monitoring Program (REMP) direct radiation monitoring at or near the site boundary demonstrates that Deep Dose Equivalent calculations are conservative.

No effluents were released from the Dresden Independent Spent Fuel Storage Installations (ISFSIs) during 2008. REMP direct radiation monitoring at or near the site boundary demonstrates that the ISFSIs do not result in measurable dose to the public.

Steam Dryers from Units 2 and 3 reactors were relocated from their respective reactor buildings to a storage location on site north of the units during August 2008. Dose at the Restricted Area Boundary (RAB) due to the dryer moves was measured with thermoluminescent dosimeters (TLDs) along the travel path at the RAB or inside the RAB. No measurable dose to the public due to the dryer moves was detected. TLDs placed in the vicinity of the Steam Dryer Storage Building inside the RAB measured $1.00\text{E}+00$ mrem greater than background (background as measured at the REMP control location) during the period of August and September 2008. No dose greater than background was measured using the same methodology during the period of October through December 2008. No effluents were released during the dryer moves and the Steam Dryer Storage Building is sealed to prevent airborne effluents. In summary, dryer moves and storage resulted in $1.00\text{E}+00$ mrem Deep Dose Equivalent and no organ dose in 2008.

Per the 2008 GE-Hitachi Morris Operation 10CFR72.44(d)(3) report, maximum dose at their site boundary from direct radiation exposure was $7.10\text{E}-01$ mrem and maximum organ dose was $1.40\text{E}-02$ mrem for 2008.

Maximum Deep Dose Equivalent from Dresden and GE-Hitachi Morris Operation activities is $9.90\text{E}+00$ mrem during 2008, which is $3.96\text{E}+01\%$ of the 40CFR190 limit of $2.50\text{E}+01$ mrem.

Maximum organ dose from Dresden and GE-Hitachi Morris Operation activities is $2.72\text{E}-02$ mrem during 2008, which is $<1.00\text{E}+00\%$ of the 40CFR190 limits of $7.50\text{E}+01$ mrem to the thyroid and $2.50\text{E}+00$ mrem to any other organ.

E. Equipment Out of Service

The Units 2/3 Main Chimney High-Range Noble Gas Instrument was out of service from January 24, 2008 to May 12, 2008. Repair of the channel was delayed by unsuccessful troubleshooting attempts, difficulty in finding replacement parts, and the time needed to refurbish existing components. This was also reported to the NRC on March 14, 2008 as required when the channel was out of service for greater than 21 days.

In May 2008, the 2/3 Main Chimney system flow rate meter was found to be indicating lower than actual flow rate due to plugging of the sensor probe. Review of historical 2/3 Main Chimney flow data indicates this condition affected the entirety of 2008. Restoration of the channel was delayed by issues associated with identifying the cause of the plugging, developing a method to clear the plugging, and appropriate weather conditions that would allow reduction in duct flow to facilitate access to the probe for cleaning. The channel was returned to service on April 7, 2009.

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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

1. The following table represents the percentage of valid hours of recoverable meteorological data for 2008:

Parameter	Percentage of valid parameter hours in 2008				
	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Year
35 ft. Wind Speed	99.0%	99.8%	99.9%	98.2%	99.2%
150 ft. Wind Speed	99.9%	99.8%	99.9%	98.7%	99.6%
300 ft. Wind Speed	99.4%	99.8%	99.9%	91.0%	97.5%
35 ft. Wind Direction	99.9%	99.8%	99.7%	99.9%	99.8%
150 ft. Wind Direction	99.9%	99.8%	99.8%	97.8%	99.3%
300 ft. Wind Direction	99.9%	99.8%	99.8%	97.6%	99.3%
35 ft. Temperature	99.9%	99.8%	99.9%	99.9%	99.9%
150-35 ft. delta T	99.9%	99.8%	99.9%	99.9%	99.9%
300-35 ft. delta T	99.9%	99.8%	99.9%	99.9%	99.9%

2. Dresden station was able to achieve an average of 99.4% meteorological data recovery for the year. This exceeds the minimum criterion of 90% delineated in Regulatory Guide 1.23.
3. The remaining pages of this report contain the Dresden Station meteorological site quarterly joint-frequency wind rose tables for 2008.

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

All Stabilities

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	9	8	9	28	31	13	6	0	0	0	104
NNE	0	4	10	12	27	32	23	14	0	0	0	122
NE	0	6	5	9	20	10	16	15	3	0	0	84
ENE	0	0	2	8	20	15	11	3	0	0	0	59
E	0	2	1	3	19	47	20	16	7	0	0	115
ESE	0	2	1	3	14	19	37	21	8	0	0	105
SE	0	4	2	3	12	10	10	13	6	0	0	60
SSE	0	9	9	7	16	31	23	23	21	6	0	145
S	0	4	8	8	18	29	39	36	72	33	4	251
SSW	0	7	10	11	12	15	13	10	21	8	3	110
SW	0	2	9	9	18	22	12	5	12	6	3	98
WSW	0	4	3	12	34	18	10	8	1	5	0	95
W	0	7	16	19	24	37	31	59	33	9	0	235
WNW	0	3	23	23	41	33	49	60	34	17	3	286
NW	0	4	8	13	35	58	23	13	0	0	0	154
NNW	0	4	10	11	43	31	27	11	3	0	0	140
Tot	0	71	125	160	381	438	357	313	221	84	13	2163

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 2163
Hours of Missing Data 21
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class A - Extremely Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	3	2	3	0	0	0	0	8
NNE	0	0	0	0	2	11	3	6	0	0	0	22
NE	0	0	0	0	3	2	0	0	0	0	0	5
ENE	0	0	0	0	0	1	0	0	0	0	0	1
E	0	0	0	0	0	0	0	3	0	0	0	3
ESE	0	0	0	0	0	0	4	3	0	0	0	7
SE	0	0	0	0	0	0	1	0	0	0	0	1
SSE	0	0	0	0	0	1	0	0	1	0	0	2
S	0	0	0	0	0	1	0	0	0	0	0	1
SSW	0	0	0	0	1	0	0	0	2	0	0	3
SW	0	0	0	0	1	3	0	1	3	1	1	10
WSW	0	0	0	2	3	4	2	1	1	3	0	16
W	0	0	0	2	4	3	8	7	1	4	0	29
WNW	0	0	0	0	9	7	12	6	3	3	0	40
NW	0	0	0	1	0	15	6	0	0	0	0	22
NNW	0	0	0	2	2	8	9	2	0	0	0	23
Tot	0	0	0	7	28	58	48	29	11	11	1	193

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 193
Hours of Missing Data 21
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class B - Moderately Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	2	3	2	0	2	0	0	0	9
NNE	0	0	0	0	0	2	0	1	0	0	0	3
NE	0	0	0	0	1	0	1	0	0	0	0	2
ENE	0	0	1	0	0	0	1	0	0	0	0	2
E	0	0	0	0	0	0	0	1	0	0	0	1
ESE	0	0	0	0	0	2	4	1	0	0	0	7
SE	0	0	0	0	0	0	0	2	0	0	0	2
SSE	0	0	0	0	1	1	0	0	3	0	0	5
S	0	0	0	0	1	2	1	0	2	1	0	7
SSW	0	0	0	0	1	1	0	1	0	0	0	3
SW	0	0	0	0	2	2	1	0	2	0	1	8
WSW	0	0	0	2	5	2	2	1	0	0	0	12
W	0	0	0	0	4	1	2	2	2	1	0	12
WNW	0	0	0	1	0	1	4	1	1	1	0	9
NW	0	0	0	1	0	0	1	0	0	0	0	2
NNW	0	0	0	1	7	1	2	0	0	0	0	11
Tot	0	0	1	7	25	17	19	12	10	3	1	95

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 95
Hours of Missing Data 21
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class C - Slightly Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	1	1	0	0	0	0	0	3
NNE	0	0	0	1	2	3	0	1	0	0	0	7
NE	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	2	0	0	2
ESE	0	0	0	0	1	0	3	2	0	0	0	6
SE	0	0	0	0	0	0	1	1	0	0	0	2
SSE	0	0	0	0	1	0	1	0	2	0	0	4
S	0	0	0	0	0	2	0	2	1	1	0	6
SSW	0	0	0	1	0	0	3	0	1	0	0	5
SW	0	0	0	1	0	1	0	0	0	0	0	2
WSW	0	0	1	2	2	1	2	1	0	0	0	9
W	0	0	0	1	0	1	2	1	3	0	0	8
WNW	0	0	0	0	2	0	1	0	1	1	0	5
NW	0	0	1	1	1	1	1	0	0	0	0	5
NNW	0	0	0	0	1	2	3	1	1	0	0	8
Tot	0	0	2	8	11	12	17	9	11	2	0	72

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 72
Hours of Missing Data 21
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class D - Neutral

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	2	3	1	10	12	8	4	0	0	0	40
NNE	0	0	5	6	11	10	16	5	0	0	0	53
NE	0	3	3	7	10	6	13	13	3	0	0	58
ENE	0	0	0	5	15	14	9	3	0	0	0	46
E	0	0	0	0	16	42	19	11	5	0	0	93
ESE	0	0	0	0	3	7	16	12	8	0	0	46
SE	0	0	0	0	4	5	3	4	3	0	0	19
SSE	0	1	0	2	5	13	12	15	12	1	0	61
S	0	0	0	2	7	11	21	6	30	7	0	84
SSW	0	1	4	0	4	9	4	5	13	3	3	46
SW	0	0	3	0	3	7	10	4	6	0	1	34
WSW	0	0	1	3	10	6	2	5	0	1	0	28
W	0	0	2	2	6	14	15	42	18	4	0	103
WNW	0	0	3	5	12	6	24	46	27	12	3	138
NW	0	0	2	2	9	18	12	13	0	0	0	56
NNW	0	0	2	1	10	7	7	8	2	0	0	37
Tot	0	7	28	36	135	187	191	196	127	28	7	942

Hours of Calm	0
Hours of Variable Direction	0
Hours of Valid Data	942
Hours of Missing Data	21
Hours in Period	2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class E - Slightly Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	4	5	5	11	14	2	0	0	0	0	41
NNE	0	3	4	5	12	6	4	1	0	0	0	35
NE	0	2	2	2	6	2	2	2	0	0	0	18
ENE	0	0	1	3	5	0	1	0	0	0	0	10
E	0	0	1	3	3	5	1	1	0	0	0	14
ESE	0	1	0	2	7	10	10	3	0	0	0	33
SE	0	2	1	3	4	5	5	6	3	0	0	29
SSE	0	2	7	4	9	15	10	8	3	5	0	63
S	0	0	5	3	9	11	17	28	39	24	4	140
SSW	0	3	2	4	6	5	6	4	5	5	0	40
SW	0	1	1	2	4	6	1	0	1	5	0	21
WSW	0	3	1	2	7	4	2	0	0	1	0	20
W	0	0	8	11	10	18	4	7	9	0	0	67
WNW	0	2	14	13	17	19	8	7	2	0	0	82
NW	0	1	5	8	25	24	3	0	0	0	0	66
NNW	0	3	7	7	23	13	6	0	0	0	0	59
Tot	0	27	64	77	158	157	82	67	62	40	4	738

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 738
Hours of Missing Data 21
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class F - Moderately Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	0	0	0	0	0	0	0	0	0	1
NNE	0	1	1	0	0	0	0	0	0	0	0	2
NE	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	2	0	0	0	0	0	0	0	0	0	2
ESE	0	1	1	1	2	0	0	0	0	0	0	5
SE	0	1	1	0	4	0	0	0	0	0	0	6
SSE	0	2	0	1	0	1	0	0	0	0	0	4
S	0	2	3	3	1	2	0	0	0	0	0	11
SSW	0	1	3	6	0	0	0	0	0	0	0	10
SW	0	0	3	5	6	3	0	0	0	0	0	17
WSW	0	1	0	1	7	1	0	0	0	0	0	10
W	0	7	6	3	0	0	0	0	0	0	0	16
WNW	0	1	6	4	1	0	0	0	0	0	0	12
NW	0	3	0	0	0	0	0	0	0	0	0	3
NNW	0	1	1	0	0	0	0	0	0	0	0	2
Tot	0	24	25	24	21	7	0	0	0	0	0	101

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 101
Hours of Missing Data 21
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class G - Extremely Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	2	0	0	0	0	0	0	0	0	0	2
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	1	0	0	0	0	0	0	0	0	0	1
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	1	0	0	0	0	0	0	1
SE	0	1	0	0	0	0	0	0	0	0	0	1
SSE	0	4	2	0	0	0	0	0	0	0	0	6
S	0	2	0	0	0	0	0	0	0	0	0	2
SSW	0	2	1	0	0	0	0	0	0	0	0	3
SW	0	1	2	1	2	0	0	0	0	0	0	6
WSW	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0
Tot	0	13	5	1	3	0	0	0	0	0	0	22

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 22
Hours of Missing Data 21
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

All Stabilities

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	2	8	10	16	20	19	25	5	1	106
NNE	0	2	4	3	14	16	28	24	31	14	0	136
NE	0	1	1	2	12	16	9	7	21	8	0	77
ENE	0	0	4	3	14	18	14	8	10	0	0	71
E	0	0	1	0	1	18	29	21	21	5	1	97
ESE	0	0	0	0	5	6	22	25	44	5	0	107
SE	0	0	2	0	4	6	13	14	20	3	0	62
SSE	0	0	1	0	9	14	23	22	41	12	7	129
S	0	1	1	1	15	12	24	38	55	60	41	248
SSW	0	0	4	3	9	15	22	10	21	13	13	110
SW	0	1	3	3	21	13	22	14	13	13	8	111
WSW	0	2	6	2	22	31	13	15	18	0	6	115
W	0	1	3	4	16	27	22	30	74	32	29	238
WNW	1	0	0	4	38	26	28	37	89	29	30	282
NW	0	0	5	6	11	23	42	37	42	10	0	176
NNW	0	0	2	2	13	16	23	17	31	10	3	117
Tot	1	8	39	41	214	273	354	338	556	219	139	2182

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 2182
Hours of Missing Data 2
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class A - Extremely Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	1	1	2	2	0	0	6
NNE	0	0	0	0	0	1	9	6	5	3	0	24
NE	0	0	0	0	0	3	2	0	0	0	0	5
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	2	0	0	2
ESE	0	0	0	0	0	0	0	4	4	0	0	8
SE	0	0	0	0	0	0	0	1	0	0	0	1
SSE	0	0	0	0	0	0	1	0	0	1	0	2
S	0	0	0	0	0	0	1	0	0	0	0	1
SSW	0	0	0	0	0	0	0	0	0	2	0	2
SW	0	0	0	0	2	1	2	0	1	4	1	11
WSW	0	0	0	0	4	1	4	3	3	0	3	18
W	0	0	0	0	4	3	2	6	7	0	5	27
WNW	0	0	0	1	2	7	6	6	13	0	6	41
NW	0	0	0	1	0	1	9	8	5	0	0	24
NNW	0	0	0	0	3	1	7	0	9	1	0	21
Tot	0	0	0	2	15	19	44	36	51	11	15	193

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 193
Hours of Missing Data 2
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class B - Moderately Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)										Total	
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0		>10.00
N	0	0	0	0	1	4	1	2	1	1	0	10
NNE	0	0	0	0	1	0	0	2	0	1	0	4
NE	0	0	0	0	1	0	0	1	0	0	0	2
ENE	0	0	1	0	0	0	0	1	0	0	0	2
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	4	2	2	0	0	8
SE	0	0	0	0	0	0	0	0	2	0	0	2
SSE	0	0	0	0	0	1	1	0	2	1	0	5
S	0	0	0	0	0	3	1	0	0	3	0	7
SSW	0	0	0	0	0	0	1	0	1	0	0	2
SW	0	0	0	0	2	1	3	0	0	2	1	9
WSW	0	0	0	0	5	6	1	1	2	0	0	15
W	0	0	0	1	0	2	0	1	3	1	2	10
WNW	0	0	0	0	0	0	0	2	4	0	2	8
NW	0	0	0	0	1	0	0	0	1	0	0	2
NNW	0	0	0	0	3	3	1	0	2	0	0	9
Tot	0	0	1	1	14	20	13	12	20	9	5	95

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 95
Hours of Missing Data 2
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class C - Slightly Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	1	1	0	0	1	0	0	3
NNE	0	0	0	0	2	0	1	3	1	0	0	7
NE	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	2	0	2
ESE	0	0	0	0	0	1	0	4	1	0	0	6
SE	0	0	0	0	0	0	0	0	2	0	0	2
SSE	0	0	0	0	1	0	0	1	0	2	0	4
S	0	0	0	0	0	2	0	1	1	2	1	7
SSW	0	0	0	0	1	0	1	2	0	0	0	4
SW	0	0	0	0	1	0	1	0	0	0	0	2
WSW	0	0	0	1	3	2	0	2	1	0	0	9
W	0	0	1	1	0	0	0	2	2	3	0	9
WNW	0	0	0	0	1	1	0	0	1	0	2	5
NW	0	0	0	0	1	1	1	1	1	0	0	5
NNW	0	0	0	0	0	1	0	2	1	3	0	7
Tot	0	0	1	2	11	9	4	18	12	12	3	72

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 72
Hours of Missing Data 2
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class D - Neutral

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	4	1	2	5	8	11	4	1	36
NNE	0	2	3	2	5	7	6	8	21	9	0	63
NE	0	0	1	1	8	6	5	5	15	8	0	49
ENE	0	0	0	0	8	14	14	7	10	0	0	53
E	0	0	0	0	1	16	26	19	18	3	1	84
ESE	0	0	0	0	2	2	6	11	24	5	0	50
SE	0	0	0	0	0	2	5	5	8	0	0	20
SSE	0	0	0	0	2	10	9	8	25	5	1	60
S	0	0	1	1	4	3	14	19	13	21	9	85
SSW	0	0	1	0	3	1	8	5	10	6	6	40
SW	0	0	2	3	1	2	7	10	6	6	2	39
WSW	0	0	4	1	4	9	1	3	5	0	2	29
W	0	0	0	2	4	6	5	13	54	20	19	123
WNW	1	0	0	0	8	4	8	9	55	24	20	129
NW	0	0	1	2	4	8	8	8	22	10	0	63
NNW	0	0	0	1	2	5	4	4	12	6	3	37
Tot	1	2	13	17	57	97	131	142	309	127	64	960

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 960
Hours of Missing Data 2
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class E - Slightly Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	2	3	6	8	13	7	10	0	0	49
NNE	0	0	1	1	6	8	12	5	4	1	0	38
NE	0	1	0	1	2	7	2	1	6	0	0	20
ENE	0	0	2	2	6	4	0	0	0	0	0	14
E	0	0	0	0	0	1	3	2	1	0	0	7
ESE	0	0	0	0	3	3	12	4	13	0	0	35
SE	0	0	1	0	1	4	5	6	8	3	0	28
SSE	0	0	1	0	5	2	11	11	14	3	6	53
S	0	1	0	0	11	4	7	16	41	34	31	145
SSW	0	0	2	3	5	5	8	3	10	5	7	48
SW	0	1	0	0	5	5	4	3	2	1	4	25
WSW	0	1	1	0	1	4	5	4	5	0	1	22
W	0	0	1	0	5	12	14	8	8	8	3	59
WNW	0	0	0	1	19	12	12	20	16	5	0	85
NW	0	0	3	0	4	9	21	20	13	0	0	70
NNW	0	0	2	0	4	6	11	11	7	0	0	41
Tot	0	4	16	11	83	94	140	121	158	60	52	739

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 739
Hours of Missing Data 2
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class F - Moderately Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	0	1	1	0	0	0	0	0	0	2
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	1	0	0	0	0	0	0	1
ENE	0	0	0	1	0	0	0	0	0	0	0	1
E	0	0	1	0	0	1	0	0	0	0	0	2
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	1	0	3	0	2	2	0	0	0	8
SSE	0	0	0	0	1	1	1	2	0	0	0	5
S	0	0	0	0	0	0	1	2	0	0	0	3
SSW	0	0	0	0	0	6	2	0	0	0	0	8
SW	0	0	1	0	7	3	3	1	4	0	0	19
WSW	0	0	0	0	4	9	2	2	1	0	0	18
W	0	1	0	0	2	4	1	0	0	0	0	8
WNW	0	0	0	2	6	2	2	0	0	0	0	12
NW	0	0	1	3	1	4	3	0	0	0	0	12
NNW	0	0	0	1	1	0	0	0	0	0	0	2
Tot	0	1	4	8	27	30	17	9	5	0	0	101

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 101
Hours of Missing Data 2
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class G - Extremely Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	1	0	0	0	0	0	0	0	0	1
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	1	0	0	0	0	1
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	1	0	0	3	2	0	0	0	0	6
SW	0	0	0	0	3	1	2	0	0	0	0	6
WSW	0	1	1	0	1	0	0	0	1	0	0	4
W	0	0	1	0	1	0	0	0	0	0	0	2
WNW	0	0	0	0	2	0	0	0	0	0	0	2
NW	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0
Tot	0	1	4	0	7	4	5	0	1	0	0	22

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 22
Hours of Missing Data 2
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

All Stabilities

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	2	3	6	7	12	13	36	8	1	89
NNE	0	2	1	5	10	15	19	20	35	26	0	133
NE	0	0	3	0	5	16	16	14	15	28	4	101
ENE	0	0	1	0	10	18	14	8	12	5	0	68
E	0	0	0	0	6	13	21	15	20	11	4	90
ESE	0	0	0	0	1	2	9	13	40	29	3	97
SE	0	0	2	0	2	4	6	14	20	10	3	61
SSE	0	0	1	3	5	10	9	17	43	29	5	122
S	0	2	1	1	6	10	17	24	38	49	95	243
SSW	0	0	0	3	3	7	5	20	31	30	36	135
SW	0	1	0	2	10	12	11	13	27	10	13	99
WSW	0	2	3	0	15	18	16	14	17	10	5	100
W	0	1	2	5	21	22	17	32	39	49	34	222
WNW	0	0	2	4	13	19	27	22	74	62	64	287
NW	0	1	4	6	9	12	28	38	65	23	6	192
NNW	0	1	1	1	7	10	24	15	47	14	9	129
Tot	0	11	23	33	129	195	251	292	559	393	282	2168

Hours of Calm 1
Hours of Variable Direction 1
Hours of Valid Data 2170
Hours of Missing Data 14
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class A - Extremely Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	1	0	0	0	0	1
NNE	0	0	0	0	0	1	0	4	4	2	0	11
NE	0	0	0	0	0	0	4	1	0	2	0	7
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	2	3	0	0	5
SE	0	0	0	0	0	0	0	1	0	0	0	1
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	1	0	1
SW	0	0	0	0	0	0	0	0	0	2	0	2
WSW	0	0	0	0	0	0	1	0	2	0	2	5
W	0	0	0	0	0	1	1	2	4	0	3	11
WNW	0	0	0	0	0	3	2	2	8	1	3	19
NW	0	0	0	0	0	0	3	4	1	0	0	8
NNW	0	0	0	0	0	0	2	0	4	0	0	6
Tot	0	0	0	0	0	5	14	16	26	8	8	77

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 77
Hours of Missing Data 14
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class B - Moderately Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	1	0	0	1	1	0	0	3
NNE	0	0	0	0	0	0	1	1	0	1	0	3
NE	0	0	0	0	0	0	0	1	0	0	0	1
ENE	0	0	0	0	0	1	0	0	0	0	0	1
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	1	3	0	0	4
SE	0	0	0	0	0	0	0	1	0	0	0	1
SSE	0	0	0	0	0	0	0	0	0	2	0	2
S	0	0	0	0	0	0	0	0	0	1	1	2
SSW	0	0	0	0	0	0	1	0	0	0	0	1
SW	0	0	0	0	0	2	1	0	1	1	2	7
WSW	0	0	0	0	0	0	2	0	0	1	0	3
W	0	0	0	0	2	3	0	0	6	0	3	14
WNW	0	0	0	0	2	1	5	0	5	0	2	15
NW	0	0	0	1	0	0	0	3	1	0	0	5
NNW	0	0	0	0	2	0	1	1	1	0	0	5
Tot	0	0	0	1	7	7	11	9	18	6	8	67

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 67
Hours of Missing Data 14
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class C - Slightly Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	1	2	4	2	0	9
NNE	0	0	0	0	0	0	2	0	2	0	0	4
NE	0	0	0	0	0	2	0	2	0	1	0	5
ENE	0	0	0	0	0	1	0	0	0	0	0	1
E	0	0	0	0	0	0	0	0	0	0	2	2
ESE	0	0	0	0	0	0	0	1	0	1	0	2
SE	0	0	0	0	0	0	1	0	2	0	0	3
SSE	0	0	0	0	0	1	2	0	0	2	0	5
S	0	0	0	0	0	3	2	0	0	0	2	7
SSW	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	1	0	1	0	0	2	1	5
WSW	0	0	0	0	4	3	2	1	3	0	0	13
W	0	0	0	1	3	2	1	2	4	0	3	16
WNW	0	0	0	0	0	1	1	2	8	1	3	16
NW	0	0	0	0	1	0	3	3	1	0	0	8
NNW	0	0	0	0	0	0	3	0	4	2	0	9
Tot	0	0	0	1	9	13	19	13	28	11	11	105

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 105
Hours of Missing Data 14
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class D - Neutral

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	1	3	4	6	8	5	24	5	1	58
NNE	0	2	1	5	7	11	8	11	27	23	0	95
NE	0	0	1	0	5	9	9	8	13	25	4	74
ENE	0	0	0	0	8	9	14	8	12	5	0	56
E	0	0	0	0	2	11	20	12	20	11	2	78
ESE	0	0	0	0	1	2	9	9	29	22	2	74
SE	0	0	0	0	1	3	2	4	10	5	1	26
SSE	0	0	1	0	2	4	4	10	27	16	2	66
S	0	0	1	0	4	3	12	17	25	22	37	121
SSW	0	0	0	3	1	4	2	15	14	20	18	77
SW	0	0	0	1	4	3	6	8	13	4	10	49
WSW	0	1	3	0	7	9	4	3	5	4	2	38
W	0	0	2	1	12	6	4	21	21	42	21	130
WNW	0	0	1	2	7	5	7	13	43	57	56	191
NW	0	0	2	2	4	8	10	12	28	15	5	86
NNW	0	0	1	0	3	10	11	9	28	11	9	82
Tot	0	4	14	17	72	103	130	165	339	287	170	1301

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 1301
Hours of Missing Data 14
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class E - Slightly Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	0	1	1	1	5	7	1	0	17
NNE	0	0	0	0	3	3	7	4	2	0	0	19
NE	0	0	2	0	0	4	2	2	2	0	0	12
ENE	0	0	1	0	2	6	0	0	0	0	0	9
E	0	0	0	0	4	2	1	3	0	0	0	10
ESE	0	0	0	0	0	0	0	0	5	6	1	12
SE	0	0	1	0	1	1	3	8	7	5	2	28
SSE	0	0	0	3	2	4	2	6	12	8	3	40
S	0	1	0	1	2	4	3	6	13	24	55	109
SSW	0	0	0	0	1	3	2	3	15	8	18	50
SW	0	1	0	1	3	7	3	2	9	1	0	27
WSW	0	0	0	0	2	4	2	6	5	0	1	20
W	0	1	0	1	3	7	7	5	4	7	4	39
WNW	0	0	0	1	4	9	12	5	10	3	0	44
NW	0	1	2	2	1	4	7	15	28	8	1	69
NNW	0	1	0	1	1	0	1	5	10	1	0	20
Tot	0	5	7	10	30	59	53	75	129	72	85	525

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 526
Hours of Missing Data 14
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class F - Moderately Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	1	0	0	0	0	1
NNE	0	0	0	0	0	0	1	0	0	0	0	1
NE	0	0	0	0	0	1	1	0	0	0	0	2
ENE	0	0	0	0	0	1	0	0	0	0	0	1
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	1	0	0	0	0	0	1	0	0	2
SSE	0	0	0	0	1	1	1	1	4	1	0	9
S	0	1	0	0	0	0	0	1	0	2	0	4
SSW	0	0	0	0	1	0	0	1	1	1	0	4
SW	0	0	0	0	2	0	0	1	1	0	0	4
WSW	0	1	0	0	2	2	3	3	2	5	0	18
W	0	0	0	2	1	3	4	1	0	0	0	11
WNW	0	0	1	1	0	0	0	0	0	0	0	2
NW	0	0	0	0	2	0	5	1	6	0	0	14
NNW	0	0	0	0	1	0	5	0	0	0	0	6
Tot	0	2	2	3	10	8	21	9	15	9	0	79

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 80
Hours of Missing Data 14
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: January through March 2008

Stability Class G - Extremely Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)										Total	
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0		>10.00
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	1	1	0	0	2
SW	0	0	0	0	0	0	0	2	3	0	0	5
WSW	0	0	0	0	0	0	2	1	0	0	0	3
W	0	0	0	0	0	0	0	1	0	0	0	1
WNW	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	1	1	0	0	0	0	0	0	2
NNW	0	0	0	0	0	0	1	0	0	0	0	1
Tot	0	0	0	1	1	0	3	5	4	0	0	14

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 14
Hours of Missing Data 14
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

All Stabilities

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	12	9	9	25	10	3	1	4	0	0	73
NNE	0	7	15	17	19	13	16	3	3	0	0	93
NE	0	5	10	16	43	38	12	2	0	0	0	126
ENE	0	10	8	13	32	32	11	6	1	0	0	113
E	0	8	3	6	36	33	10	2	6	1	0	105
ESE	1	4	12	5	16	21	5	8	12	7	0	91
SE	0	10	9	7	20	21	25	23	5	5	0	125
SSE	0	2	5	12	26	28	28	22	24	5	0	152
S	0	5	16	11	18	30	34	40	63	21	13	251
SSW	0	3	18	14	12	20	21	19	24	14	12	157
SW	0	5	20	24	41	28	14	9	12	9	1	163
WSW	0	8	18	12	28	33	25	9	17	8	0	158
W	0	13	11	29	35	20	18	23	21	2	0	172
WNW	0	10	16	15	42	22	31	11	5	0	0	152
NW	0	12	18	9	32	33	17	7	0	0	0	128
NNW	0	13	14	18	26	27	8	1	0	0	0	107
Tot	1	127	202	217	451	409	278	186	197	72	26	2166

Hours of Calm 11
Hours of Variable Direction 2
Hours of Valid Data 2179
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class A - Extremely Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	2	10	0	1	0	0	0	0	14
NNE	0	0	2	4	6	3	4	0	0	0	0	19
NE	0	0	1	2	7	6	2	1	0	0	0	19
ENE	0	0	1	0	5	4	4	2	0	0	0	16
E	0	0	0	0	3	4	3	0	0	0	0	10
ESE	0	0	0	0	0	1	1	4	1	0	0	7
SE	0	0	0	2	2	2	3	4	3	0	0	16
SSE	0	0	0	2	6	8	7	2	1	3	0	29
S	0	0	1	2	1	4	0	1	6	2	0	17
SSW	0	0	0	1	1	3	7	2	4	1	0	19
SW	0	0	1	3	3	5	3	0	2	1	0	18
WSW	0	0	0	3	5	11	11	7	3	6	0	46
W	0	0	0	1	4	1	4	8	4	0	0	22
WNW	0	0	0	0	9	8	13	3	0	0	0	33
NW	0	0	1	0	7	15	5	4	0	0	0	32
NNW	0	0	1	4	9	16	1	0	0	0	0	31
Tot	0	0	9	26	78	91	69	38	24	13	0	348

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 349
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class B - Moderately Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	0	1	2	0	1	0	0	0	0	5
NNE	0	0	1	0	1	1	1	1	0	0	0	5
NE	0	0	0	2	3	2	0	0	0	0	0	7
ENE	0	0	0	0	3	3	1	1	0	0	0	8
E	0	0	1	0	1	3	1	0	0	0	0	6
ESE	0	0	0	1	0	1	0	0	0	0	0	2
SE	0	0	1	0	0	1	3	2	0	2	0	9
SSE	0	0	0	1	4	1	0	1	3	1	0	11
S	0	1	0	0	3	0	0	1	11	2	4	22
SSW	0	0	0	1	2	1	0	1	0	3	0	8
SW	0	0	1	2	1	1	3	0	0	1	0	9
WSW	0	0	1	1	6	4	4	0	2	1	0	19
W	0	0	1	2	8	1	1	3	0	0	0	16
WNW	0	0	0	0	4	1	3	3	0	0	0	11
NW	0	0	1	0	4	4	0	0	0	0	0	9
NNW	0	0	1	4	2	1	1	0	0	0	0	9
Tot	0	2	8	15	44	25	19	13	16	10	4	156

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 156
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class C - Slightly Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	0	1	0	0	0	1
NNE	0	0	0	1	0	0	0	0	0	0	0	1
NE	0	0	0	0	2	3	1	0	0	0	0	6
ENE	0	0	0	0	1	1	0	0	0	0	0	2
E	0	0	1	0	2	1	0	0	0	0	0	4
ESE	0	0	0	1	0	0	0	1	0	0	0	2
SE	0	0	0	0	1	0	1	0	0	2	0	4
SSE	0	0	0	0	0	0	2	1	1	0	0	4
S	0	0	1	0	1	1	0	2	3	1	1	10
SSW	0	0	0	0	0	1	0	0	2	0	0	3
SW	0	0	0	0	1	2	1	0	1	0	1	6
WSW	0	1	0	1	1	4	2	1	1	0	0	11
W	0	0	0	1	2	0	1	1	0	0	0	5
WNW	0	0	1	0	1	0	4	1	0	0	0	7
NW	0	0	0	1	1	2	2	1	0	0	0	7
NNW	0	0	0	0	0	0	0	0	0	0	0	0
Tot	0	1	3	5	13	15	14	9	8	3	2	73

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 73
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class D - Neutral

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	2	3	4	5	1	0	4	0	0	20
NNE	0	1	0	2	2	5	9	1	3	0	0	23
NE	0	0	2	3	15	19	6	0	0	0	0	45
ENE	0	1	2	0	8	17	5	3	1	0	0	37
E	0	0	1	0	8	7	3	0	6	1	0	26
ESE	0	0	2	0	2	3	0	0	2	3	0	12
SE	0	1	2	0	2	2	0	8	0	1	0	16
SSE	0	1	0	1	6	6	6	7	7	0	0	34
S	0	0	2	0	6	6	7	9	26	8	6	70
SSW	0	0	1	1	1	2	5	5	5	8	5	33
SW	0	1	2	2	5	12	3	5	5	7	0	42
WSW	0	0	1	1	3	6	3	0	10	1	0	25
W	0	0	2	5	4	8	9	10	16	2	0	56
WNW	0	0	1	3	4	9	10	4	4	0	0	35
NW	0	0	2	2	6	9	7	2	0	0	0	28
NNW	0	0	2	1	2	9	5	1	0	0	0	20
Tot	0	6	24	24	78	125	79	55	89	31	11	522

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 522
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class E - Slightly Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	5	6	3	9	5	0	0	0	0	0	28
NNE	0	4	9	9	10	4	2	1	0	0	0	39
NE	0	1	4	7	16	8	3	1	0	0	0	40
ENE	0	7	5	13	14	7	1	0	0	0	0	47
E	0	4	0	5	20	18	3	2	0	0	0	52
ESE	0	0	7	1	10	11	4	3	9	4	0	49
SE	0	3	3	4	12	16	17	9	2	0	0	66
SSE	0	1	2	6	9	13	13	11	12	1	0	68
S	0	1	4	4	4	19	26	27	17	8	2	112
SSW	0	1	5	5	5	13	9	11	13	2	7	71
SW	0	0	1	3	10	5	2	4	4	0	0	29
WSW	0	0	4	3	6	6	5	1	1	0	0	26
W	0	3	2	8	13	10	3	1	1	0	0	41
WNW	0	1	2	5	18	4	1	0	1	0	0	32
NW	0	2	5	3	13	3	3	0	0	0	0	29
NNW	0	3	6	7	13	1	1	0	0	0	0	31
Tot	0	36	65	86	182	143	93	71	60	15	9	760

Hours of Calm 2
Hours of Variable Direction 0
Hours of Valid Data 762
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class F - Moderately Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	5	0	0	0	0	0	0	0	0	0	5
NNE	0	2	2	1	0	0	0	0	0	0	0	5
NE	0	3	3	2	0	0	0	0	0	0	0	8
ENE	0	2	0	0	1	0	0	0	0	0	0	3
E	0	4	0	1	2	0	0	0	0	0	0	7
ESE	1	4	2	2	4	5	0	0	0	0	0	18
SE	0	3	3	1	3	0	1	0	0	0	0	11
SSE	0	0	3	2	1	0	0	0	0	0	0	6
S	0	3	8	3	3	0	1	0	0	0	0	18
SSW	0	1	8	6	3	0	0	0	0	0	0	18
SW	0	1	10	10	15	3	2	0	0	0	0	41
WSW	0	4	9	3	5	2	0	0	0	0	0	23
W	0	6	2	9	4	0	0	0	0	0	0	21
WNW	0	7	7	6	6	0	0	0	0	0	0	26
NW	0	8	6	3	1	0	0	0	0	0	0	18
NNW	0	7	3	2	0	0	0	0	0	0	0	12
Tot	1	60	66	51	48	10	4	0	0	0	0	240

Hours of Calm 5
Hours of Variable Direction 1
Hours of Valid Data 246
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class G - Extremely Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	1	0	0	0	0	0	0	0	0	1
NE	0	1	0	0	0	0	0	0	0	0	0	1
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	1	0	0	0	0	0	0	0	0	1
SE	0	3	0	0	0	0	0	0	0	0	0	3
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	2	0	0	0	0	0	0	0	2
SSW	0	1	4	0	0	0	0	0	0	0	0	5
SW	0	3	5	4	6	0	0	0	0	0	0	18
WSW	0	3	3	0	2	0	0	0	0	0	0	8
W	0	4	4	3	0	0	0	0	0	0	0	11
WNW	0	2	5	1	0	0	0	0	0	0	0	8
NW	0	2	3	0	0	0	0	0	0	0	0	5
NNW	0	3	1	0	0	0	0	0	0	0	0	4
Tot	0	22	27	10	8	0	0	0	0	0	0	67

Hours of Calm 4
Hours of Variable Direction 0
Hours of Valid Data 71
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

All Stabilities

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	2	4	18	20	14	9	7	1	4	79
NNE	0	0	5	0	14	24	13	9	38	5	3	111
NE	0	1	3	3	15	25	24	20	20	0	0	111
ENE	0	1	4	7	20	22	30	10	10	1	0	105
E	0	0	8	8	12	26	22	17	13	3	4	113
ESE	0	1	3	7	5	15	18	8	12	7	11	87
SE	0	0	2	1	13	15	21	25	36	5	5	123
SSE	0	2	3	4	19	27	19	25	30	14	6	149
S	0	1	6	5	18	16	17	22	79	55	37	256
SSW	0	0	2	3	13	15	23	23	33	20	35	167
SW	0	0	2	10	14	28	40	24	23	11	15	167
WSW	0	0	4	5	19	26	31	21	31	8	16	161
W	0	1	3	2	22	41	23	21	32	24	5	174
WNW	0	0	2	3	16	29	32	22	30	11	2	147
NW	0	2	1	2	18	20	20	24	33	11	0	131
NNW	0	0	1	4	13	14	18	21	24	2	1	98
Tot	0	9	51	68	249	363	365	301	451	178	144	2179

Hours of Calm	0
Hours of Variable Direction	0
Hours of Valid Data	2179
Hours of Missing Data	5
Hours in Period	2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class A - Extremely Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	2	8	3	1	2	0	0	17
NNE	0	0	2	0	3	5	2	2	7	0	0	21
NE	0	0	0	1	3	6	4	2	3	0	0	19
ENE	0	0	0	1	0	2	4	3	2	0	0	12
E	0	0	0	0	2	3	3	2	1	0	0	11
ESE	0	0	0	0	0	1	1	1	6	0	0	9
SE	0	0	0	0	0	3	2	0	5	0	0	10
SSE	0	0	0	1	5	6	5	7	3	0	3	30
S	0	0	0	2	1	2	5	1	4	3	1	19
SSW	0	0	0	0	2	0	6	4	3	4	0	19
SW	0	0	0	4	5	0	4	1	1	2	1	18
WSW	0	0	0	1	3	7	7	10	12	1	7	48
W	0	0	0	1	2	1	3	0	9	3	1	20
WNW	0	0	0	0	1	4	5	5	15	0	0	30
NW	0	0	0	0	4	3	7	9	9	5	0	37
NNW	0	0	0	0	4	3	4	6	12	0	0	29
Tot	0	0	2	12	37	54	65	54	94	18	13	349

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 349
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class B - Moderately Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	3	2	0	0	0	0	0	5
NNE	0	0	0	0	0	0	0	1	3	1	0	5
NE	0	0	0	0	2	2	2	0	1	0	0	7
ENE	0	0	0	0	1	3	2	0	1	0	0	7
E	0	0	1	0	0	2	0	3	1	0	0	7
ESE	0	0	0	0	1	1	0	0	0	0	0	2
SE	0	0	0	0	0	1	3	1	1	0	2	8
SSE	0	0	1	0	0	2	1	1	1	2	1	9
S	0	0	0	0	4	1	0	0	7	7	5	24
SSW	0	0	1	1	0	3	0	1	0	0	3	9
SW	0	0	0	0	3	1	0	2	2	0	1	9
WSW	0	0	0	2	3	3	3	1	3	1	2	18
W	0	0	1	0	5	6	1	2	1	2	0	18
WNW	0	0	0	0	2	2	2	0	3	3	0	12
NW	0	0	0	0	2	0	1	1	2	0	0	6
NNW	0	0	0	2	3	1	2	0	2	0	0	10
Tot	0	0	4	5	29	30	17	13	28	16	14	156

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 156
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class C - Slightly Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	0	0	0	1	0	1
NNE	0	0	0	0	1	0	0	0	1	0	0	2
NE	0	0	0	0	0	2	0	1	2	0	0	5
ENE	0	0	0	0	0	1	0	0	0	0	0	1
E	0	0	0	1	1	0	2	0	0	0	0	4
ESE	0	0	0	0	2	0	0	0	1	0	0	3
SE	0	0	0	0	0	0	0	0	0	0	2	2
SSE	0	0	0	0	0	1	1	2	0	0	0	4
S	0	0	1	0	0	1	1	0	4	3	2	12
SSW	0	0	0	0	0	1	0	0	0	0	2	3
SW	0	0	0	0	0	1	3	0	2	1	1	8
WSW	0	0	1	1	0	2	0	1	3	1	0	9
W	0	0	0	0	1	1	1	0	2	0	0	5
WNW	0	0	0	0	0	0	0	1	2	1	0	4
NW	0	0	0	0	2	0	0	1	3	1	0	7
NNW	0	0	1	0	0	1	0	0	1	0	0	3
Tot	0	0	3	2	7	11	8	6	21	8	7	73

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 73
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class D - Neutral

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	1	1	3	2	4	1	0	4	17
NNE	0	0	1	0	3	3	1	2	18	2	3	33
NE	0	0	0	0	1	4	7	13	7	0	0	32
ENE	0	0	1	1	4	6	17	6	6	1	0	42
E	0	0	2	0	1	5	4	3	4	2	4	25
ESE	0	0	2	0	0	2	4	0	0	2	3	13
SE	0	0	1	0	1	2	2	0	7	1	1	15
SSE	0	0	1	1	1	6	4	5	12	3	1	34
S	0	0	2	0	3	3	3	3	16	19	16	65
SSW	0	0	0	0	2	2	3	4	10	3	15	39
SW	0	0	2	2	2	5	8	4	8	2	9	42
WSW	0	0	2	0	3	1	5	4	2	5	6	28
W	0	0	2	0	5	2	4	5	15	17	4	54
WNW	0	0	0	1	2	4	2	6	9	7	1	32
NW	0	0	0	1	3	2	2	5	16	2	0	31
NNW	0	0	0	0	1	2	2	6	7	1	1	20
Tot	0	0	17	7	33	52	70	70	138	67	68	522

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 522
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class E - Slightly Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	2	8	3	8	4	4	0	0	30
NNE	0	0	2	0	4	12	10	4	9	2	0	43
NE	0	0	3	1	6	9	11	4	7	0	0	41
ENE	0	0	1	4	14	10	7	1	1	0	0	38
E	0	0	1	5	7	13	13	9	7	1	0	56
ESE	0	1	0	4	2	8	10	7	5	5	8	50
SE	0	0	0	1	6	7	8	18	22	4	0	66
SSE	0	1	0	0	3	9	7	10	14	9	1	54
S	0	1	1	1	7	8	6	18	48	22	13	125
SSW	0	0	0	0	2	5	8	12	20	13	15	75
SW	0	0	0	3	1	3	6	4	5	6	3	31
WSW	0	0	1	1	4	4	5	2	9	0	1	27
W	0	0	0	1	0	12	4	12	5	2	0	36
WNW	0	0	1	1	4	7	12	7	1	0	1	34
NW	0	1	0	0	2	4	8	8	3	3	0	29
NNW	0	0	0	2	2	5	7	8	2	1	0	27
Tot	0	4	11	26	72	119	130	128	162	68	42	762

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 762
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class F - Moderately Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	4	2	1	0	0	0	0	7
NNE	0	0	0	0	2	2	0	0	0	0	0	4
NE	0	1	0	1	3	2	0	0	0	0	0	7
ENE	0	1	2	1	1	0	0	0	0	0	0	5
E	0	0	3	2	0	3	0	0	0	0	0	8
ESE	0	0	1	2	0	3	3	0	0	0	0	9
SE	0	0	1	0	5	2	6	6	1	0	0	21
SSE	0	0	0	2	9	2	1	0	0	0	0	14
S	0	0	0	2	3	1	2	0	0	1	0	9
SSW	0	0	1	2	5	4	6	2	0	0	0	20
SW	0	0	0	0	3	12	16	12	5	0	0	48
WSW	0	0	0	0	5	3	7	1	2	0	0	18
W	0	0	0	0	7	11	8	2	0	0	0	28
WNW	0	0	0	0	4	7	9	3	0	0	0	23
NW	0	1	0	1	3	9	2	0	0	0	0	16
NNW	0	0	0	0	3	2	3	1	0	0	0	9
Tot	0	3	8	13	57	65	64	27	8	1	0	246

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 246
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class G - Extremely Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	2	0	0	0	0	0	2
NNE	0	0	0	0	1	2	0	0	0	0	0	3
NE	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	1	0	1	0	0	0	0	0	0	2
ESE	0	0	0	1	0	0	0	0	0	0	0	1
SE	0	0	0	0	1	0	0	0	0	0	0	1
SSE	0	1	1	0	1	1	0	0	0	0	0	4
S	0	0	2	0	0	0	0	0	0	0	0	2
SSW	0	0	0	0	2	0	0	0	0	0	0	2
SW	0	0	0	1	0	6	3	1	0	0	0	11
WSW	0	0	0	0	1	6	4	2	0	0	0	13
W	0	1	0	0	2	8	2	0	0	0	0	13
WNW	0	0	1	1	3	5	2	0	0	0	0	12
NW	0	0	1	0	2	2	0	0	0	0	0	5
NNW	0	0	0	0	0	0	0	0	0	0	0	0
Tot	0	2	6	3	14	32	11	3	0	0	0	71

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 71
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

All Stabilities

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	1	5	8	11	15	10	27	1	4	83
NNE	0	0	1	0	6	18	16	8	25	17	5	96
NE	0	0	2	3	11	8	18	16	43	13	2	116
ENE	0	2	1	0	13	29	32	18	14	1	0	110
E	0	0	2	4	12	13	23	16	20	5	6	101
ESE	0	1	2	3	8	13	11	14	21	8	16	97
SE	0	0	3	3	8	10	9	7	39	14	13	106
SSE	0	0	1	0	8	24	15	22	37	25	9	141
S	0	0	1	3	11	14	19	14	38	65	78	243
SSW	0	1	3	4	4	11	11	20	34	50	59	197
SW	0	1	0	4	6	5	11	14	35	19	20	115
WSW	0	1	1	7	11	16	18	34	58	12	28	186
W	0	0	1	3	15	16	15	22	45	27	20	164
WNW	0	0	1	4	5	26	21	20	45	23	13	158
NW	0	0	2	4	8	13	24	23	53	24	3	154
NNW	0	0	1	3	8	6	15	20	42	13	4	112
Tot	0	7	23	50	142	233	273	278	576	317	280	2179

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 2179
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class A - Extremely Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	3	3	3	0	2	0	0	12
NNE	0	0	0	0	1	2	2	0	0	0	0	5
NE	0	0	1	1	1	2	2	0	1	0	0	8
ENE	0	0	0	0	0	5	6	3	0	0	0	14
E	0	0	0	0	0	0	1	0	1	0	0	2
ESE	0	0	0	0	0	1	0	1	1	0	0	3
SE	0	0	0	0	1	1	0	0	2	0	0	4
SSE	0	0	0	0	1	5	0	4	1	1	1	13
S	0	0	0	0	2	0	1	0	1	2	6	12
SSW	0	0	0	0	1	0	1	1	0	1	2	6
SW	0	0	0	2	1	0	0	3	0	0	0	6
WSW	0	0	0	0	1	6	2	2	7	1	5	24
W	0	0	0	1	1	1	0	3	6	4	2	18
WNW	0	0	0	2	0	4	1	0	8	4	0	19
NW	0	0	0	0	0	2	3	4	3	9	0	21
NNW	0	0	0	0	1	0	3	3	10	4	0	21
Tot	0	0	1	7	14	32	25	24	43	26	16	188

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 188
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class B - Moderately Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	1	2	1	0	2	0	0	6
NNE	0	0	0	0	1	4	0	1	3	1	0	10
NE	0	0	0	0	1	0	0	1	2	0	0	4
ENE	0	0	1	0	0	1	1	1	3	0	0	7
E	0	0	0	0	0	0	3	0	0	0	0	3
ESE	0	0	0	0	0	1	0	1	1	0	0	3
SE	0	0	0	0	0	1	1	0	3	0	0	5
SSE	0	0	0	0	0	2	1	6	0	1	0	10
S	0	0	0	0	0	0	1	0	3	2	4	10
SSW	0	0	0	0	0	1	4	4	2	2	1	14
SW	0	0	0	1	1	0	0	0	0	1	0	3
WSW	0	0	0	1	0	2	0	7	3	0	3	16
W	0	0	0	0	0	1	0	0	3	1	1	6
WNW	0	0	0	0	0	1	0	1	2	2	0	6
NW	0	0	0	0	1	2	2	4	1	2	0	12
NNW	0	0	0	0	0	0	1	1	2	0	0	4
Tot	0	0	1	2	5	18	15	27	30	12	9	119

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 119
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class C - Slightly Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	1	0	0	0	1	0	0	2
NNE	0	0	0	0	0	3	1	0	3	0	0	7
NE	0	0	0	0	2	0	0	0	1	1	0	4
ENE	0	0	0	0	1	2	1	1	0	0	0	5
E	0	0	0	0	2	1	2	1	3	0	0	9
ESE	0	0	0	1	0	2	0	0	2	0	0	5
SE	0	0	0	0	0	0	0	1	2	1	2	6
SSE	0	0	0	0	0	3	1	1	2	1	0	8
S	0	0	0	2	1	1	2	0	1	6	5	18
SSW	0	0	0	0	0	1	1	1	2	4	1	10
SW	0	0	0	0	2	1	1	1	1	0	0	6
WSW	0	0	0	2	2	2	0	3	5	0	2	16
W	0	0	0	0	3	2	1	0	3	1	0	10
WNW	0	0	0	1	0	4	3	2	0	2	2	14
NW	0	0	0	0	0	3	2	0	3	2	0	10
NNW	0	0	0	1	1	0	1	1	2	0	0	6
Tot	0	0	0	7	15	25	16	12	31	18	12	136

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 136
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class D - Neutral

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	1	2	4	4	4	13	1	4	34
NNE	0	0	1	0	1	4	4	0	11	12	4	37
NE	0	0	0	1	3	2	7	5	27	10	2	57
ENE	0	0	0	0	4	9	18	10	10	1	0	52
E	0	0	0	3	2	1	10	11	12	4	6	49
ESE	0	1	0	0	3	3	4	2	2	1	11	27
SE	0	0	2	0	1	1	4	1	6	1	9	25
SSE	0	0	1	0	2	6	3	5	5	12	2	36
S	0	0	1	1	4	6	6	7	16	25	35	101
SSW	0	1	2	1	0	7	2	4	10	9	31	67
SW	0	0	0	1	1	0	5	6	8	3	14	38
WSW	0	1	1	2	5	3	8	10	13	6	15	64
W	0	0	1	1	5	6	6	5	10	13	17	64
WNW	0	0	1	0	1	6	6	6	14	9	11	54
NW	0	0	1	0	2	3	3	4	20	10	2	45
NNW	0	0	1	1	2	3	2	3	15	4	4	35
Tot	0	3	13	12	38	64	92	83	192	121	167	785

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 785
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class E - Slightly Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	0	3	1	1	6	6	6	0	0	24
NNE	0	0	0	0	2	4	6	6	6	4	1	29
NE	0	0	1	1	4	3	8	9	11	2	0	39
ENE	0	1	0	0	7	11	5	3	1	0	0	28
E	0	0	2	1	7	9	5	4	4	1	0	33
ESE	0	0	1	2	2	5	6	9	13	7	5	50
SE	0	0	0	3	5	5	4	3	21	11	2	54
SSE	0	0	0	0	3	2	7	5	24	9	6	56
S	0	0	0	0	3	2	5	7	17	30	27	91
SSW	0	0	0	2	0	1	3	7	16	33	24	86
SW	0	1	0	0	1	1	3	3	11	11	6	37
WSW	0	0	0	0	3	3	5	5	12	4	3	35
W	0	0	0	1	5	1	6	2	12	8	0	35
WNW	0	0	0	0	1	7	6	4	13	2	0	33
NW	0	0	1	2	3	1	6	6	14	1	1	35
NNW	0	0	0	0	2	2	4	7	12	4	0	31
Tot	0	3	5	15	49	58	85	86	193	127	75	696

Hours of Calm	0
Hours of Variable Direction	0
Hours of Valid Data	696
Hours of Missing Data	5
Hours in Period	2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class F - Moderately Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	1	1	0	3	0	0	5
NNE	0	0	0	0	1	1	2	1	2	0	0	7
NE	0	0	0	0	0	1	1	1	1	0	0	4
ENE	0	1	0	0	1	1	1	0	0	0	0	4
E	0	0	0	0	1	2	2	0	0	0	0	5
ESE	0	0	1	0	3	1	1	1	2	0	0	9
SE	0	0	1	0	1	2	0	2	5	1	0	12
SSE	0	0	0	0	2	4	3	1	5	1	0	16
S	0	0	0	0	1	5	4	0	0	0	1	11
SSW	0	0	1	1	1	1	0	3	4	1	0	12
SW	0	0	0	0	0	2	1	0	13	4	0	20
WSW	0	0	0	0	0	0	1	5	18	1	0	25
W	0	0	0	0	1	5	1	9	7	0	0	23
WNW	0	0	0	0	2	3	4	7	8	4	0	28
NW	0	0	0	1	0	2	8	4	10	0	0	25
NNW	0	0	0	1	1	0	2	4	1	1	0	10
Tot	0	1	3	3	15	31	32	38	79	13	1	216

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 216
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: Months April through June 2008

Stability Class G - Extremely Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total	
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00		
N	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	1	0	0	0	0	0	1
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	2	0	0	0	0	0	0	2
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	2	0	0	0	0	0	0	0	2
SW	0	0	0	0	0	1	1	1	2	0	0	0	5
WSW	0	0	0	2	0	0	2	2	0	0	0	0	6
W	0	0	0	0	0	0	1	3	4	0	0	0	8
WNW	0	0	0	1	1	1	1	0	0	0	0	0	4
NW	0	0	0	1	2	0	0	1	2	0	0	0	6
NNW	0	0	0	0	1	1	2	1	0	0	0	0	5
Tot	0	0	0	4	6	5	8	8	8	0	0	0	39

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 39
Hours of Missing Data 5
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2008-ANNUAL-RADIOACTIVE-EFFLUENT-RELEASE-REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

All Stabilities

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	18	32	13	30	2	1	0	0	0	0	96
NNE	0	12	25	24	25	3	0	0	0	0	0	89
NE	0	10	13	34	63	38	0	0	0	0	0	158
ENE	0	10	14	20	64	15	2	0	0	0	0	125
E	0	15	19	16	37	35	9	1	0	0	0	132
ESE	0	6	12	17	33	22	9	1	0	0	0	100
SE	1	14	11	22	31	34	19	1	0	0	0	133
SSE	0	18	15	14	34	27	10	0	0	0	0	118
S	0	9	20	17	35	32	15	17	2	0	0	147
SSW	0	6	24	29	40	22	16	12	2	0	0	151
SW	0	5	41	44	65	33	25	4	7	0	0	224
WSW	0	7	26	11	34	42	19	3	1	0	0	143
W	0	9	20	21	57	32	9	4	2	0	0	154
WNW	0	8	18	16	36	13	3	2	0	0	0	96
NW	0	26	37	34	37	27	5	2	0	0	0	168
NNW	1	28	47	25	45	8	0	1	0	0	0	155
Tot	2	201	374	357	666	385	142	48	14	0	0	2189

Hours of Calm 11
Hours of Variable Direction 1
Hours of Valid Data 2201
Hours of Missing Data 7
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class A - Extremely Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	2	6	20	0	0	0	0	0	0	28
NNE	0	0	1	8	15	1	0	0	0	0	0	25
NE	0	0	0	7	18	20	0	0	0	0	0	45
ENE	0	0	2	8	18	7	2	0	0	0	0	37
E	0	0	0	0	5	12	4	0	0	0	0	21
ESE	0	0	0	2	2	1	2	0	0	0	0	7
SE	0	0	0	4	11	13	6	0	0	0	0	34
SSE	0	0	3	1	12	7	3	0	0	0	0	26
S	0	0	0	1	13	11	4	15	1	0	0	45
SSW	0	0	0	1	10	9	4	5	2	0	0	31
SW	0	0	0	2	9	18	16	4	5	0	0	54
WSW	0	0	0	0	13	31	12	2	0	0	0	58
W	0	0	0	2	16	23	6	4	2	0	0	53
WNW	0	0	1	3	15	9	2	1	0	0	0	31
NW	0	1	0	2	14	15	0	0	0	0	0	32
NNW	0	0	0	6	27	5	0	0	0	0	0	38
Tot	0	1	9	53	218	182	61	31	10	0	0	565

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 565
Hours of Missing Data 7
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class B - Moderately Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	2	1	2	0	0	0	0	0	0	5
NNE	0	0	0	1	1	0	0	0	0	0	0	2
NE	0	0	0	3	2	0	0	0	0	0	0	5
ENE	0	0	0	0	3	0	0	0	0	0	0	3
E	0	0	0	1	1	5	0	0	0	0	0	7
ESE	0	0	1	2	3	2	0	0	0	0	0	8
SE	0	0	1	0	2	6	4	1	0	0	0	14
SSE	0	0	0	0	1	3	0	0	0	0	0	4
S	0	0	1	2	1	1	1	0	0	0	0	6
SSW	0	0	0	0	3	1	2	1	0	0	0	7
SW	0	0	0	1	1	0	3	0	0	0	0	5
WSW	0	0	0	0	4	3	2	0	0	0	0	9
W	0	0	2	0	1	2	0	0	0	0	0	5
WNW	0	0	0	1	4	0	0	1	0	0	0	6
NW	0	0	0	3	4	3	0	0	0	0	0	10
NNW	0	0	0	1	1	0	0	0	0	0	0	2
Tot	0	0	7	16	34	26	12	3	0	0	0	98

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 98
Hours of Missing Data 7
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
 2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class C - Slightly Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	1	0	0	0	0	0	0	0	1
NE	0	0	1	0	2	0	0	0	0	0	0	3
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	3	0	0	1	0	0	0	0	0	4
ESE	0	0	0	1	0	2	0	0	0	0	0	3
SE	0	0	0	2	1	0	0	0	0	0	0	3
SSE	0	0	0	0	2	1	0	0	0	0	0	3
S	0	0	0	0	1	1	2	1	0	0	0	5
SSW	0	0	2	1	0	0	0	1	0	0	0	4
SW	0	0	1	0	4	1	2	0	0	0	0	8
WSW	0	1	0	0	1	1	0	0	0	0	0	3
W	0	0	0	1	2	4	0	0	0	0	0	7
WNW	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	2	1	0	0	0	0	0	0	3
NNW	0	0	0	1	3	0	0	0	0	0	0	4
Tot	0	1	7	9	17	11	4	2	0	0	0	51

Hours of Calm 0
 Hours of Variable Direction 0
 Hours of Valid Data 51
 Hours of Missing Data 7
 Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class D - Neutral

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	2	4	3	5	0	0	0	0	0	0	14
NNE	0	0	3	2	5	0	0	0	0	0	0	10
NE	0	0	1	2	12	12	0	0	0	0	0	27
ENE	0	1	0	0	9	2	0	0	0	0	0	12
E	0	0	3	1	5	3	1	0	0	0	0	13
ESE	0	0	0	4	3	1	1	0	0	0	0	9
SE	0	1	1	4	4	5	3	0	0	0	0	18
SSE	0	0	1	1	6	5	4	0	0	0	0	17
S	0	0	2	1	1	10	2	1	1	0	0	18
SSW	0	0	1	5	4	6	2	3	0	0	0	21
SW	0	0	1	2	14	6	0	0	2	0	0	25
WSW	0	0	1	4	3	2	0	0	0	0	0	10
W	0	1	1	0	11	1	3	0	0	0	0	17
WNW	0	1	2	2	4	2	1	0	0	0	0	12
NW	0	0	0	3	8	7	3	1	0	0	0	22
NNW	0	0	5	4	11	1	0	0	0	0	0	21
Tot	0	6	26	38	105	63	20	5	3	0	0	266

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 267
Hours of Missing Data 7
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class E - Slightly Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	3	7	2	3	2	1	0	0	0	0	18
NNE	0	4	14	9	4	2	0	0	0	0	0	33
NE	0	3	8	18	28	6	0	0	0	0	0	63
ENE	0	4	9	11	32	6	0	0	0	0	0	62
E	0	5	8	12	21	12	4	1	0	0	0	63
ESE	0	1	4	4	19	13	5	1	0	0	0	47
SE	0	5	1	8	10	8	6	0	0	0	0	38
SSE	0	6	6	6	11	11	3	0	0	0	0	43
S	0	2	5	7	16	9	6	0	0	0	0	45
SSW	0	0	5	5	20	6	8	2	0	0	0	46
SW	0	0	8	11	12	8	4	0	0	0	0	43
WSW	0	1	8	3	7	4	5	1	1	0	0	30
W	0	2	4	11	27	2	0	0	0	0	0	46
WNW	0	1	3	8	13	2	0	0	0	0	0	27
NW	0	3	13	19	9	2	2	1	0	0	0	49
NNW	1	8	13	9	3	2	0	1	0	0	0	37
Tot	1	48	116	143	235	95	44	7	1	0	0	690

Hours of Calm 2
Hours of Variable Direction 0
Hours of Valid Data 692
Hours of Missing Data 7
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class F - Moderately Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	8	16	1	0	0	0	0	0	0	0	25
NNE	0	7	5	3	0	0	0	0	0	0	0	15
NE	0	7	3	4	1	0	0	0	0	0	0	15
ENE	0	1	2	1	2	0	0	0	0	0	0	6
E	0	6	4	2	5	2	0	0	0	0	0	19
ESE	0	3	7	4	5	3	1	0	0	0	0	23
SE	1	6	7	3	2	0	0	0	0	0	0	19
SSE	0	9	5	6	2	0	0	0	0	0	0	22
S	0	6	10	5	3	0	0	0	0	0	0	24
SSW	0	2	7	12	3	0	0	0	0	0	0	24
SW	0	4	17	20	18	0	0	0	0	0	0	59
WSW	0	3	10	3	6	1	0	0	0	0	0	23
W	0	4	8	7	0	0	0	0	0	0	0	19
WNW	0	5	6	2	0	0	0	0	0	0	0	13
NW	0	15	6	4	1	0	0	0	0	0	0	26
NNW	0	14	23	2	0	0	0	0	0	0	0	39
Tot	1	100	136	79	48	6	1	0	0	0	0	371

Hours of Calm 8
Hours of Variable Direction 1
Hours of Valid Data 380
Hours of Missing Data 7
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class G - Extremely Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	5	1	0	0	0	0	0	0	0	0	6
NNE	0	1	2	0	0	0	0	0	0	0	0	3
NE	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	4	1	0	0	0	0	0	0	0	0	5
E	0	4	1	0	0	0	0	0	0	0	0	5
ESE	0	2	0	0	1	0	0	0	0	0	0	3
SE	0	2	1	1	1	2	0	0	0	0	0	7
SSE	0	3	0	0	0	0	0	0	0	0	0	3
S	0	1	2	1	0	0	0	0	0	0	0	4
SSW	0	4	9	5	0	0	0	0	0	0	0	18
SW	0	1	14	8	7	0	0	0	0	0	0	30
WSW	0	2	7	1	0	0	0	0	0	0	0	10
W	0	2	5	0	0	0	0	0	0	0	0	7
WNW	0	1	6	0	0	0	0	0	0	0	0	7
NW	0	7	18	1	0	0	0	0	0	0	0	26
NNW	0	6	6	2	0	0	0	0	0	0	0	14
Tot	0	45	73	19	9	2	0	0	0	0	0	148

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 148
Hours of Missing Data 7
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

All Stabilities

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	4	4	24	33	28	5	4	2	0	105
NNE	0	1	3	4	24	34	14	13	11	0	0	104
NE	0	0	1	10	36	44	29	20	11	0	0	151
ENE	0	3	8	13	28	44	12	4	0	0	0	112
E	0	4	6	8	17	31	35	19	6	0	0	126
ESE	0	3	5	11	23	26	29	16	2	0	0	115
SE	0	2	6	12	25	38	36	18	8	0	0	145
SSE	0	2	2	8	30	33	20	16	2	0	0	113
S	0	0	3	7	27	30	33	19	25	1	0	145
SSW	0	1	5	7	25	54	33	15	20	0	0	160
SW	0	2	4	8	30	54	48	29	21	6	1	203
WSW	0	2	3	3	23	50	39	22	9	1	1	153
W	0	2	7	14	35	46	41	20	6	4	0	175
WNW	0	1	10	4	23	34	26	8	4	1	0	111
NW	0	1	3	3	26	31	34	19	16	4	0	137
NNW	0	0	2	7	27	57	31	15	8	0	1	148
Tot	0	25	72	123	423	639	488	258	153	19	3	2203

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 2204
Hours of Missing Data 4
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class A - Extremely Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	2	5	11	12	2	0	0	0	32
NNE	0	0	0	1	7	14	5	2	4	0	0	33
NE	0	0	0	1	12	7	10	11	3	0	0	44
ENE	0	0	1	2	6	12	3	2	0	0	0	26
E	0	0	0	0	2	7	7	6	0	0	0	22
ESE	0	0	0	1	3	1	0	1	0	0	0	6
SE	0	0	0	3	8	14	10	4	0	0	0	39
SSE	0	0	1	0	5	10	4	2	0	0	0	22
S	0	0	0	3	7	11	6	4	16	0	0	47
SSW	0	0	0	1	3	13	3	3	6	0	0	29
SW	0	0	0	0	4	11	9	14	10	5	0	53
WSW	0	0	0	0	1	22	19	14	3	0	0	59
W	0	0	0	1	3	14	17	6	3	4	0	48
WNW	0	0	0	1	6	11	12	3	2	0	0	35
NW	0	0	1	0	2	4	7	7	6	0	0	27
NNW	0	0	0	2	7	16	9	4	5	0	0	43
Tot	0	0	3	18	81	178	133	85	58	9	0	565

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 565
Hours of Missing Data 4
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class B - Moderately Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	2	2	2	0	0	0	0	6
NNE	0	0	0	0	0	2	0	0	0	0	0	2
NE	0	0	0	0	2	1	1	0	0	0	0	4
ENE	0	0	0	0	0	1	0	0	0	0	0	1
E	0	0	0	0	2	2	3	2	0	0	0	9
ESE	0	0	0	0	4	2	0	1	0	0	0	7
SE	0	0	1	1	1	3	4	3	1	0	0	14
SSE	0	0	0	0	1	1	2	1	0	0	0	5
S	0	0	1	0	2	1	1	1	0	0	0	6
SSW	0	0	0	0	0	3	1	1	2	0	0	7
SW	0	0	0	0	1	1	1	2	1	0	0	6
WSW	0	0	0	0	2	2	1	1	1	0	0	7
W	0	0	1	1	1	1	0	1	1	0	0	6
WNW	0	0	0	0	2	2	1	0	0	1	0	6
NW	0	0	0	0	3	1	2	2	0	0	0	8
NNW	0	0	0	0	0	3	0	1	0	0	0	4
Tot	0	0	3	2	23	28	19	16	6	1	0	98

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 98
Hours of Missing Data 4
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class C - Slightly Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	0	0	1	0	0	0	0	0	2
NNE	0	0	0	0	0	1	0	0	0	0	0	1
NE	0	0	0	1	0	1	1	0	0	0	0	3
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	1	1	0	0	1	0	0	0	0	3
ESE	0	0	0	2	0	1	0	0	0	0	0	3
SE	0	0	0	1	1	1	1	0	0	0	0	4
SSE	0	0	0	1	0	2	1	0	0	0	0	4
S	0	0	0	0	1	1	0	1	2	0	0	5
SSW	0	0	1	1	0	0	0	0	1	0	0	3
SW	0	0	0	1	1	3	1	0	2	0	0	8
WSW	0	0	1	0	0	0	1	0	0	0	0	2
W	0	0	0	0	0	1	2	3	0	0	0	6
WNW	0	0	0	0	2	0	0	0	0	0	0	2
NW	0	0	0	0	1	1	0	1	0	0	0	3
NNW	0	0	0	0	0	1	2	0	0	0	0	3
Tot	0	0	4	8	6	14	10	5	5	0	0	52

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 52
Hours of Missing Data 4
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class D - Neutral

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	4	4	4	1	1	0	0	15
NNE	0	0	1	1	2	1	3	4	4	0	0	16
NE	0	0	0	0	2	6	4	2	6	0	0	20
ENE	0	1	0	0	0	6	4	0	0	0	0	11
E	0	0	1	1	1	2	5	1	1	0	0	12
ESE	0	1	1	1	4	2	0	1	0	0	0	10
SE	0	1	0	5	2	4	6	2	1	0	0	21
SSE	0	0	1	1	4	3	4	4	1	0	0	18
S	0	0	0	0	2	2	7	2	2	1	0	16
SSW	0	0	0	1	5	3	4	5	3	0	0	21
SW	0	0	0	2	6	9	6	0	0	1	1	25
WSW	0	0	1	2	5	1	1	0	0	0	0	10
W	0	1	0	1	4	4	2	3	1	0	0	16
WNW	0	0	1	0	3	2	2	1	1	0	0	10
NW	0	0	2	0	3	1	7	4	7	2	0	26
NNW	0	0	1	1	3	4	5	5	1	0	0	20
Tot	0	4	9	17	50	54	64	35	29	4	1	267

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 267
Hours of Missing Data 4
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class E - Slightly Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	0	5	5	2	1	3	2	0	19
NNE	0	0	1	0	4	8	4	6	3	0	0	26
NE	0	0	1	4	8	22	13	7	2	0	0	57
ENE	0	0	0	5	20	23	4	2	0	0	0	54
E	0	1	0	4	10	16	17	10	5	0	0	63
ESE	0	1	1	3	7	17	21	9	2	0	0	61
SE	0	0	3	0	7	5	11	6	4	0	0	36
SSE	0	1	0	2	6	9	6	9	1	0	0	34
S	0	0	1	1	11	9	15	8	5	0	0	50
SSW	0	0	2	2	5	16	14	5	8	0	0	52
SW	0	0	2	3	8	9	11	8	8	0	0	49
WSW	0	0	0	0	5	5	2	2	5	1	1	21
W	0	0	0	3	9	13	17	5	1	0	0	48
WNW	0	0	4	2	2	11	9	4	1	0	0	33
NW	0	1	0	1	6	16	14	4	3	2	0	47
NNW	0	0	0	2	9	17	6	4	2	0	1	41
Tot	0	4	16	32	122	201	166	90	53	5	2	691

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 692
Hours of Missing Data 4
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class F - Moderately Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	6	7	7	1	0	0	0	22
NNE	0	1	0	2	9	7	1	1	0	0	0	21
NE	0	0	0	4	12	7	0	0	0	0	0	23
ENE	0	1	3	6	2	2	1	0	0	0	0	15
E	0	3	2	0	2	3	2	0	0	0	0	12
ESE	0	1	3	2	3	3	8	4	0	0	0	24
SE	0	1	2	2	6	10	4	1	0	0	0	26
SSE	0	1	0	2	7	8	2	0	0	0	0	20
S	0	0	1	3	3	6	3	3	0	0	0	19
SSW	0	1	0	2	8	14	6	1	0	0	0	32
SW	0	1	1	1	8	17	18	3	0	0	0	49
WSW	0	0	1	1	5	15	6	4	0	0	0	32
W	0	1	3	3	8	10	3	2	0	0	0	30
WNW	0	1	4	0	5	4	2	0	0	0	0	16
NW	0	0	0	0	7	6	4	1	0	0	0	18
NNW	0	0	0	0	5	8	9	1	0	0	0	23
Tot	0	12	20	29	96	127	76	22	0	0	0	382

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 382
Hours of Missing Data 4
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class G - Extremely Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	2	0	2	3	1	0	0	0	0	9
NNE	0	0	1	0	2	1	1	0	0	0	0	5
NE	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	1	4	0	0	0	0	0	0	0	0	5
E	0	0	2	2	0	1	0	0	0	0	0	5
ESE	0	0	0	2	2	0	0	0	0	0	0	4
SE	0	0	0	0	0	1	0	2	2	0	0	5
SSE	0	0	0	2	7	0	1	0	0	0	0	10
S	0	0	0	0	1	0	1	0	0	0	0	2
SSW	0	0	2	0	4	5	5	0	0	0	0	16
SW	0	1	1	1	2	4	2	2	0	0	0	13
WSW	0	2	0	0	5	5	9	1	0	0	0	22
W	0	0	3	5	10	3	0	0	0	0	0	21
WNW	0	0	1	1	3	4	0	0	0	0	0	9
NW	0	0	0	2	4	2	0	0	0	0	0	8
NNW	0	0	1	2	3	8	0	0	0	0	0	14
Tot	0	5	17	17	45	37	20	5	2	0	0	148

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 148
Hours of Missing Data 4
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

All Stabilities

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	1	0	1	16	17	35	22	23	5	2	122
NNE	0	1	2	2	7	20	23	15	18	3	0	91
NE	0	1	1	2	19	21	23	30	41	6	0	144
ENE	0	0	3	5	35	50	37	14	3	0	0	147
E	0	2	5	4	13	19	28	20	15	1	0	107
ESE	0	1	5	8	12	13	11	26	27	12	0	115
SE	0	1	9	9	14	24	20	21	34	7	0	139
SSE	0	2	1	3	20	40	27	23	11	0	0	127
S	0	0	2	3	18	17	24	19	54	5	0	142
SSW	0	1	1	5	9	24	21	22	41	14	2	140
SW	0	0	1	3	12	29	29	33	53	14	3	177
WSW	0	1	3	6	22	27	34	41	31	10	3	178
W	0	0	3	3	15	39	51	34	33	2	0	180
WNW	0	0	0	8	16	22	31	25	19	8	2	131
NW	0	2	2	4	10	18	35	27	27	5	3	133
NNW	0	0	4	1	13	22	26	29	27	6	1	129
Tot	0	13	42	67	251	402	455	401	457	98	16	2202

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 2203
Hours of Missing Data 5
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class A - Extremely Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	2	4	16	5	0	0	0	27
NNE	0	0	0	0	1	9	9	3	0	0	0	22
NE	0	0	0	0	4	5	1	5	9	0	0	24
ENE	0	0	0	0	7	9	6	3	1	0	0	26
E	0	0	0	0	2	2	7	5	1	0	0	17
ESE	0	0	0	0	1	1	0	1	1	0	0	4
SE	0	0	0	0	0	7	3	0	0	0	0	10
SSE	0	0	0	0	2	8	5	3	0	0	0	18
S	0	0	0	1	5	4	3	2	8	1	0	24
SSW	0	0	0	0	1	12	5	1	1	0	0	20
SW	0	0	0	0	0	3	3	7	14	3	1	31
WSW	0	0	0	0	3	9	7	6	3	0	0	28
W	0	0	0	2	1	7	13	6	3	0	0	32
WNW	0	0	0	0	0	4	10	4	0	6	0	24
NW	0	0	0	0	0	3	3	3	2	0	0	11
NNW	0	0	0	0	2	4	6	6	6	0	0	24
Tot	0	0	0	3	31	91	97	60	49	10	1	342

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 342
Hours of Missing Data 5
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class B - Moderately Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	3	0	2	0	0	0	0	6
NNE	0	0	0	1	2	1	0	0	1	0	0	5
NE	0	0	0	0	2	4	2	0	2	0	0	10
ENE	0	0	1	0	5	2	1	0	0	0	0	9
E	0	0	0	0	0	3	2	0	0	0	0	5
ESE	0	0	0	1	1	0	1	0	0	0	0	3
SE	0	0	0	1	1	3	2	1	0	0	0	8
SSE	0	0	0	0	3	2	4	3	0	0	0	12
S	0	0	0	0	0	2	1	1	4	0	0	8
SSW	0	0	0	0	1	0	0	1	2	0	0	4
SW	0	0	0	0	1	0	5	3	3	1	1	14
WSW	0	0	0	0	2	0	4	3	5	0	0	14
W	0	0	0	0	0	3	6	2	2	0	0	13
WNW	0	0	0	0	3	4	2	3	1	0	1	14
NW	0	0	0	0	1	0	3	2	1	0	0	7
NNW	0	0	1	0	1	2	0	0	4	0	0	8
Tot	0	0	2	4	26	26	35	19	25	1	2	140

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 140
Hours of Missing Data 5
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class C - Slightly Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	1	2	0	0	0	0	0	3
NNE	0	0	0	0	1	1	1	0	1	0	0	4
NE	0	0	0	0	2	0	4	0	1	0	0	7
ENE	0	0	0	1	2	2	0	0	0	0	0	5
E	0	0	0	0	2	1	1	1	0	0	0	5
ESE	0	0	0	0	3	0	0	1	0	0	0	4
SE	0	0	1	0	3	0	1	1	1	0	0	7
SSE	0	0	0	0	4	3	2	3	1	0	0	13
S	0	0	0	1	3	0	2	0	2	0	0	8
SSW	0	0	0	1	2	0	0	2	1	1	0	7
SW	0	0	0	0	1	5	0	1	1	0	0	8
WSW	0	0	0	0	0	2	2	4	0	1	1	10
W	0	0	0	0	0	0	3	2	2	0	0	7
WNW	0	0	0	0	4	2	5	1	1	0	0	13
NW	0	0	0	0	3	2	0	2	2	0	0	9
NNW	0	0	0	0	1	1	2	0	2	0	0	6
Tot	0	0	1	3	32	21	23	18	15	2	1	116

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 116
Hours of Missing Data 5
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class D - Neutral

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	5	5	8	4	7	1	2	32
NNE	0	0	1	0	1	1	1	4	4	3	0	15
NE	0	0	1	0	5	4	6	7	16	5	0	44
ENE	0	0	1	0	1	15	10	6	2	0	0	35
E	0	0	2	2	0	3	5	2	4	0	0	18
ESE	0	0	3	3	1	3	3	5	2	2	0	22
SE	0	0	2	4	6	5	3	5	2	0	0	27
SSE	0	0	1	0	3	11	4	5	2	0	0	26
S	0	0	1	0	5	3	5	6	9	2	0	31
SSW	0	0	1	1	2	3	6	4	9	3	1	30
SW	0	0	0	1	2	8	10	6	8	1	1	37
WSW	0	0	0	4	3	8	3	4	5	3	1	31
W	0	0	1	0	3	6	7	3	2	0	0	22
WNW	0	0	0	3	3	3	9	6	3	1	1	29
NW	0	0	0	1	2	5	4	10	9	3	2	36
NNW	0	0	1	0	4	5	5	12	3	6	0	36
Tot	0	0	15	19	46	88	89	89	87	30	8	471

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 471
Hours of Missing Data 5
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class E - Slightly Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	3	1	4	8	1	1	0	18
NNE	0	1	0	1	1	2	4	3	3	0	0	15
NE	0	0	0	1	1	6	6	16	9	1	0	40
ENE	0	0	0	1	11	17	16	3	0	0	0	48
E	0	1	3	1	5	9	9	12	10	1	0	51
ESE	0	1	0	2	2	5	7	17	11	6	0	51
SE	0	0	2	2	4	8	7	8	18	3	0	52
SSE	0	2	0	2	7	15	7	6	6	0	0	45
S	0	0	1	1	2	5	3	5	21	2	0	40
SSW	0	0	0	1	3	4	7	10	21	6	0	52
SW	0	0	1	0	4	8	9	9	13	6	0	50
WSW	0	0	2	1	2	6	11	12	4	5	1	44
W	0	0	1	1	4	11	20	10	9	2	0	58
WNW	0	0	0	4	1	4	2	6	11	1	0	29
NW	0	2	1	1	2	7	13	8	9	1	1	45
NNW	0	0	0	0	3	5	6	10	12	0	1	37
Tot	0	7	11	19	55	113	131	143	158	35	3	675

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 676
Hours of Missing Data 5
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class F - Moderately Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	0	0	0	3	4	1	15	3	0	27
NNE	0	0	1	0	1	2	7	4	9	0	0	24
NE	0	1	0	1	4	2	2	2	4	0	0	16
ENE	0	0	1	2	8	5	4	2	0	0	0	22
E	0	0	0	0	3	0	4	0	0	0	0	7
ESE	0	0	1	2	2	2	0	2	11	4	0	24
SE	0	1	4	2	0	1	3	6	10	4	0	31
SSE	0	0	0	1	0	1	5	3	2	0	0	12
S	0	0	0	0	2	2	10	5	9	0	0	28
SSW	0	1	0	2	0	5	3	4	6	4	1	26
SW	0	0	0	2	4	4	2	5	13	0	0	30
WSW	0	1	1	1	8	2	7	12	12	1	0	45
W	0	0	1	0	4	10	2	9	13	0	0	39
WNW	0	0	0	1	3	4	1	3	3	0	0	15
NW	0	0	1	1	2	1	8	0	4	1	0	18
NNW	0	0	0	0	1	4	7	0	0	0	0	12
Tot	0	5	10	15	42	48	69	58	111	17	1	376

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 376
Hours of Missing Data 5
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: July through September 2008

Stability Class G - Extremely Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	2	2	1	4	0	0	0	9
NNE	0	0	0	0	0	4	1	1	0	0	0	6
NE	0	0	0	0	1	0	2	0	0	0	0	3
ENE	0	0	0	1	1	0	0	0	0	0	0	2
E	0	1	0	1	1	1	0	0	0	0	0	4
ESE	0	0	1	0	2	2	0	0	2	0	0	7
SE	0	0	0	0	0	0	1	0	3	0	0	4
SSE	0	0	0	0	1	0	0	0	0	0	0	1
S	0	0	0	0	1	1	0	0	1	0	0	3
SSW	0	0	0	0	0	0	0	0	1	0	0	1
SW	0	0	0	0	0	1	0	2	1	3	0	7
WSW	0	0	0	0	4	0	0	0	2	0	0	6
W	0	0	0	0	3	2	0	2	2	0	0	9
WNW	0	0	0	0	2	1	2	2	0	0	0	7
NW	0	0	0	1	0	0	4	2	0	0	0	7
NNW	0	0	2	1	1	1	0	1	0	0	0	6
Tot	0	1	3	4	19	15	11	14	12	3	0	82

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 82
Hours of Missing Data 5
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

All Stabilities

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	14	17	18	13	7	10	3	0	0	0	82
NNE	0	5	11	6	6	9	2	1	0	0	0	40
NE	0	5	9	13	16	5	0	0	0	0	0	48
ENE	0	6	8	11	32	3	0	0	0	0	0	60
E	1	4	11	10	54	38	15	8	1	0	0	142
ESE	0	5	11	8	29	18	22	28	9	1	0	131
SE	0	3	7	13	28	18	21	22	6	0	0	118
SSE	1	4	3	12	37	33	23	22	22	10	0	167
S	0	4	6	17	35	48	37	34	55	34	12	282
SSW	0	2	16	11	24	18	22	17	20	0	0	130
SW	0	4	11	10	12	20	15	8	18	0	0	98
WSW	0	5	6	9	10	6	5	10	12	5	2	70
W	0	3	11	8	33	66	60	30	31	21	0	263
WNW	0	2	8	11	20	35	37	21	12	1	0	147
NW	0	3	5	14	54	46	39	20	2	0	0	183
NNW	0	10	19	13	36	40	28	30	18	0	0	194
Tot	2	79	159	184	439	410	336	254	206	72	14	2155

Hours of Calm 8
Hours of Variable Direction 6
Hours of Valid Data 2169
Hours of Missing Data 39
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class A - Extremely Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	2	4	1	0	0	0	0	0	7
NNE	0	0	0	0	2	0	0	0	0	0	0	2
NE	0	0	0	2	4	1	0	0	0	0	0	7
ENE	0	0	0	1	2	0	0	0	0	0	0	3
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	2	0	0	2
WSW	0	0	0	0	0	0	1	2	1	0	0	4
W	0	0	0	0	0	4	2	0	2	3	0	11
WNW	0	0	0	0	1	6	7	0	0	0	0	14
NW	0	0	0	0	3	5	9	2	0	0	0	19
NNW	0	0	0	0	8	9	1	2	0	0	0	20
Tot	0	0	0	5	24	26	20	6	5	3	0	89

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 89
Hours of Missing Data 39
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class B - Moderately Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	1	0	0	0	0	0	0	0	2
NNE	0	0	0	1	0	0	0	0	0	0	0	1
NE	0	0	0	2	2	0	0	0	0	0	0	4
ENE	0	0	0	0	1	1	0	0	0	0	0	2
E	0	0	0	0	1	2	0	2	0	0	0	5
ESE	0	0	0	0	0	1	0	1	2	1	0	5
SE	0	0	0	1	2	1	4	1	2	0	0	11
SSE	0	0	0	1	0	0	1	0	0	0	0	2
S	0	0	0	0	0	0	2	3	4	1	0	10
SSW	0	0	0	0	0	0	1	0	2	0	0	3
SW	0	0	0	0	0	0	0	1	3	0	0	4
WSW	0	0	0	0	1	2	2	3	1	0	0	9
W	0	0	0	0	4	10	4	6	1	0	0	25
WNW	0	0	0	0	0	2	1	2	2	0	0	7
NW	0	0	0	0	1	3	1	2	1	0	0	8
NNW	0	0	0	0	2	2	1	0	0	0	0	5
Tot	0	0	1	6	14	24	17	21	18	2	0	103

Hours of Calm 0
Hours of Variable Direction 2
Hours of Valid Data 105
Hours of Missing Data 39
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class C - Slightly Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	2	4	0	1	0	0	0	0	0	7
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	1	0	0	0	0	0	0	1
ENE	0	0	0	1	2	0	0	0	0	0	0	3
E	0	0	0	1	4	1	0	1	0	0	0	7
ESE	0	0	0	0	1	0	0	0	2	0	0	3
SE	0	0	0	0	2	2	0	0	0	0	0	4
SSE	0	0	0	0	0	2	2	2	0	0	0	6
S	0	0	0	0	0	4	0	1	7	1	0	13
SSW	0	0	1	0	0	0	0	1	2	0	0	4
SW	0	0	0	0	1	0	2	1	1	0	0	5
WSW	0	0	0	0	2	1	0	1	0	0	0	4
W	0	0	0	0	4	0	2	1	3	3	0	13
WNW	0	0	0	1	3	0	2	0	0	0	0	6
NW	0	0	0	1	1	2	0	1	0	0	0	5
NNW	0	0	0	1	2	0	1	2	0	0	0	6
Tot	0	0	3	9	23	13	9	11	15	4	0	87

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 88
Hours of Missing Data 39
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class D - Neutral

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	5	3	4	4	10	3	0	0	0	30
NNE	0	0	4	3	2	9	2	1	0	0	0	21
NE	0	0	1	6	5	2	0	0	0	0	0	14
ENE	0	0	3	7	14	2	0	0	0	0	0	26
E	1	0	4	3	10	18	8	2	1	0	0	47
ESE	0	1	1	0	7	11	19	12	4	0	0	55
SE	0	0	1	5	6	7	8	17	4	0	0	48
SSE	0	1	1	2	7	2	10	12	9	7	0	51
S	0	0	2	2	6	11	10	13	27	14	1	86
SSW	0	0	1	2	5	5	8	8	16	0	0	45
SW	0	0	0	1	3	6	4	6	12	0	0	32
WSW	0	1	2	3	4	2	2	3	9	4	2	32
W	0	0	0	1	5	34	43	20	24	15	0	142
WNW	0	0	2	3	4	15	22	18	9	1	0	74
NW	0	0	1	7	14	12	18	15	1	0	0	68
NNW	0	0	6	3	13	15	15	25	18	0	0	95
Tot	1	4	34	51	109	155	179	155	134	41	3	866

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 867
Hours of Missing Data 39
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class E Slightly Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	8	6	7	5	1	0	0	0	0	0	27
NNE	0	1	4	1	2	0	0	0	0	0	0	8
NE	0	3	7	2	4	2	0	0	0	0	0	18
ENE	0	4	4	2	13	0	0	0	0	0	0	23
E	0	3	2	5	32	14	7	3	0	0	0	66
ESE	0	1	8	4	16	6	3	15	1	0	0	54
SE	0	1	3	5	15	6	9	4	0	0	0	43
SSE	0	0	2	8	29	23	8	8	13	3	0	94
S	0	1	0	12	25	26	20	17	16	18	11	146
SSW	0	0	2	3	16	12	13	8	0	0	0	54
SW	0	2	4	2	5	12	9	0	0	0	0	34
WSW	0	2	3	2	3	1	0	1	1	1	0	14
W	0	3	9	7	19	18	9	3	1	0	0	69
WNW	0	0	6	6	12	12	5	1	1	0	0	43
NW	0	3	2	6	35	24	11	0	0	0	0	81
NNW	0	8	5	6	11	14	10	1	0	0	0	55
Tot	0	40	67	78	242	171	104	61	33	22	11	829

Hours of Calm 1
Hours of Variable Direction 1
Hours of Valid Data 831
Hours of Missing Data 39
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class F - Moderately Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	3	1	0	0	0	0	0	0	0	5
NNE	0	3	3	1	0	0	0	0	0	0	0	7
NE	0	1	0	0	0	0	0	0	0	0	0	1
ENE	0	0	1	0	0	0	0	0	0	0	0	1
E	0	1	4	0	6	2	0	0	0	0	0	13
ESE	0	2	1	2	3	0	0	0	0	0	0	8
SE	0	0	3	1	2	2	0	0	0	0	0	8
SSE	1	1	0	1	1	6	2	0	0	0	0	12
S	0	1	4	3	4	7	5	0	1	0	0	25
SSW	0	1	8	6	2	1	0	0	0	0	0	18
SW	0	1	3	3	2	2	0	0	0	0	0	11
WSW	0	1	1	2	0	0	0	0	0	0	0	4
W	0	0	2	0	1	0	0	0	0	0	0	3
WNW	0	1	0	1	0	0	0	0	0	0	0	2
NW	0	0	1	0	0	0	0	0	0	0	0	1
NNW	0	1	6	2	0	0	0	0	0	0	0	9
Tot	1	15	40	23	21	20	7	0	1	0	0	128

Hours of Calm 2
Hours of Variable Direction 1
Hours of Valid Data 131
Hours of Missing Data 39
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class G - Extremely Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	4	0	0	0	0	0	0	0	0	0	4
NNE	0	1	0	0	0	0	0	0	0	0	0	1
NE	0	1	1	1	0	0	0	0	0	0	0	3
ENE	0	2	0	0	0	0	0	0	0	0	0	2
E	0	0	1	1	1	1	0	0	0	0	0	4
ESE	0	1	1	2	2	0	0	0	0	0	0	6
SE	0	2	0	1	1	0	0	0	0	0	0	4
SSE	0	2	0	0	0	0	0	0	0	0	0	2
S	0	2	0	0	0	0	0	0	0	0	0	2
SSW	0	1	4	0	1	0	0	0	0	0	0	6
SW	0	1	4	4	1	0	0	0	0	0	0	10
WSW	0	1	0	2	0	0	0	0	0	0	0	3
W	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	1	0	0	0	0	0	0	0	0	0	1
NW	0	0	1	0	0	0	0	0	0	0	0	1
NNW	0	1	2	1	0	0	0	0	0	0	0	4
Tot	0	20	14	12	6	1	0	0	0	0	0	53

Hours of Calm 5
Hours of Variable Direction 0
Hours of Valid Data 58
Hours of Missing Data 39
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

All Stabilities

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	2	5	18	12	20	10	11	6	0	85
NNE	0	3	1	0	11	10	4	2	4	3	0	38
NE	0	1	1	3	21	15	5	2	0	0	0	48
ENE	0	1	3	6	11	18	8	0	0	0	0	47
E	0	1	3	7	8	13	25	22	17	2	0	98
ESE	0	0	5	3	8	18	31	26	35	12	1	139
SE	0	0	2	2	17	26	20	30	28	3	0	128
SSE	0	0	2	3	12	26	25	22	27	19	17	153
S	0	0	3	2	4	25	32	38	82	36	54	276
SSW	0	2	1	2	8	22	25	26	37	16	0	139
SW	0	0	2	5	9	13	12	16	23	18	0	98
WSW	0	1	1	4	19	18	8	6	12	11	8	88
W	0	1	1	8	17	24	51	55	77	37	39	310
WNW	0	0	3	1	8	13	19	34	42	11	5	136
NW	0	0	1	3	14	15	31	58	53	22	0	197
NNW	0	0	2	6	9	20	22	23	56	22	15	175
Tot	0	11	33	60	194	288	338	370	504	218	139	2155

Hours of Calm 1
Hours of Variable Direction 3
Hours of Valid Data 2159
Hours of Missing Data 49
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class A - Extremely Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	1	2	1	0	2	0	0	7
NNE	0	0	0	0	0	3	0	0	0	0	0	3
NE	0	0	0	0	4	2	1	0	0	0	0	7
ENE	0	0	0	0	2	1	0	0	0	0	0	3
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	2	0	2
WSW	0	0	0	0	0	0	0	1	3	0	0	4
W	0	0	0	0	0	0	4	2	1	2	3	12
WNW	0	0	0	0	0	2	1	8	1	0	0	12
NW	0	0	0	0	1	1	4	4	10	1	0	21
NNW	0	0	0	0	0	6	5	1	6	0	0	18
Tot	0	0	0	1	8	17	16	16	23	5	3	89

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 89
Hours of Missing Data 49
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class B - Moderately Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	1	1	0	0	0	0	0	2
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	3	2	0	0	0	0	0	5
ENE	0	0	0	0	0	1	0	0	0	0	0	1
E	0	0	0	0	1	0	1	1	1	1	0	5
ESE	0	0	0	0	0	1	0	0	1	2	1	5
SE	0	0	0	0	3	0	1	4	1	2	0	11
SSE	0	0	0	1	0	0	0	1	0	0	0	2
S	0	0	0	0	0	0	1	2	5	1	1	10
SSW	0	0	0	0	0	0	0	1	2	0	0	3
SW	0	0	0	0	0	0	0	0	2	3	0	5
WSW	0	0	0	0	1	1	1	2	3	0	0	8
W	0	0	0	0	1	7	6	5	7	1	0	27
WNW	0	0	0	0	0	0	1	1	2	2	0	6
NW	0	0	0	0	1	1	2	1	3	2	0	10
NNW	0	0	0	0	1	1	1	0	1	0	0	4
Tot	0	0	0	1	12	15	14	18	28	14	2	104

Hours of Calm 0
Hours of Variable Direction 2
Hours of Valid Data 106
Hours of Missing Data 49
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class C - Slightly Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	3	1	0	0	0	0	0	5
NNE	0	0	0	0	0	1	0	0	0	0	0	1
NE	0	0	1	0	0	0	0	0	0	0	0	1
ENE	0	0	0	0	0	0	1	0	0	0	0	1
E	0	0	0	1	3	2	2	0	1	0	0	9
ESE	0	0	0	0	1	1	0	0	0	2	0	4
SE	0	0	0	0	1	0	1	0	0	0	0	2
SSE	0	0	0	0	1	1	1	2	2	0	0	7
S	0	0	0	0	0	1	3	0	2	5	1	12
SSW	0	0	0	0	0	0	0	0	3	1	0	4
SW	0	0	0	1	1	0	0	2	2	0	0	6
WSW	0	0	0	0	1	1	1	0	1	0	0	4
W	0	0	0	0	2	2	1	2	2	3	3	15
WNW	0	0	0	0	2	2	0	1	0	0	0	5
NW	0	0	0	0	1	0	1	1	0	1	0	4
NNW	0	0	0	0	1	2	1	2	0	2	0	8
Tot	0	0	1	3	17	14	12	10	13	14	4	88

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 89
Hours of Missing Data 49
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class D - Neutral

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	4	1	2	3	8	6	0	24
NNE	0	0	0	0	5	1	0	2	4	3	0	15
NE	0	0	0	3	3	6	0	1	0	0	0	13
ENE	0	0	1	1	2	8	4	0	0	0	0	16
E	0	1	0	3	1	5	4	4	4	1	0	23
ESE	0	0	2	0	4	6	11	12	18	3	0	56
SE	0	0	0	1	5	4	8	10	23	0	0	51
SSE	0	0	2	0	4	4	3	4	13	7	11	48
S	0	0	0	1	2	10	5	9	23	16	18	84
SSW	0	1	1	2	3	4	5	9	10	13	0	48
SW	0	0	0	1	3	1	6	3	6	13	0	33
WSW	0	0	1	1	5	5	0	2	5	9	7	35
W	0	0	0	1	1	2	20	29	49	28	32	162
WNW	0	0	0	0	3	1	7	8	31	8	5	63
NW	0	0	0	2	4	7	6	14	21	18	0	72
NNW	0	0	1	4	2	10	7	11	27	19	15	96
Tot	0	2	8	20	51	75	88	121	242	144	88	839

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 839
Hours of Missing Data 49
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class E - Slightly Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	0	6	4	10	6	1	0	0	28
NNE	0	2	1	0	3	2	4	0	0	0	0	12
NE	0	1	0	0	7	5	4	1	0	0	0	18
ENE	0	0	2	2	5	8	3	0	0	0	0	20
E	0	0	2	2	3	5	17	15	11	0	0	55
ESE	0	0	0	3	3	7	16	13	15	5	0	62
SE	0	0	0	1	6	12	2	12	4	1	0	38
SSE	0	0	0	1	5	20	19	15	12	12	6	90
S	0	0	0	0	2	13	22	23	39	14	33	146
SSW	0	1	0	0	3	13	15	15	19	2	0	68
SW	0	0	2	2	4	3	4	11	10	0	0	36
WSW	0	1	0	1	5	2	2	1	0	2	1	15
W	0	0	0	4	7	9	16	17	18	3	1	75
WNW	0	0	2	1	3	8	10	16	8	1	0	49
NW	0	0	0	1	7	5	18	38	19	0	0	88
NNW	0	0	1	2	4	1	6	9	22	1	0	46
Tot	0	5	11	20	73	117	168	192	178	41	41	846

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 847
Hours of Missing Data 49
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class F - Moderately Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	1	1	6	1	0	0	0	10
NNE	0	0	0	0	1	2	0	0	0	0	0	3
NE	0	0	0	0	3	0	0	0	0	0	0	3
ENE	0	1	0	1	1	0	0	0	0	0	0	3
E	0	0	1	0	0	0	1	2	0	0	0	4
ESE	0	0	2	0	0	3	4	1	0	0	0	10
SE	0	0	1	0	1	8	4	2	0	0	0	16
SSE	0	0	0	0	2	0	1	0	0	0	0	3
S	0	0	1	1	0	1	1	4	13	0	1	22
SSW	0	0	0	0	2	4	5	1	3	0	0	15
SW	0	0	0	1	1	9	2	0	3	0	0	16
WSW	0	0	0	2	3	4	0	0	0	0	0	9
W	0	1	0	2	4	2	3	0	0	0	0	12
WNW	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	1	0	0	1	0	0	0	0	0	2
NNW	0	0	0	0	1	0	2	0	0	0	0	3
Tot	0	2	6	8	20	35	29	11	19	0	1	131

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 131
Hours of Missing Data 49
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class G - Extremely Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	1	2	2	2	1	0	0	0	0	9
NNE	0	1	0	0	2	1	0	0	0	0	0	4
NE	0	0	0	0	1	0	0	0	0	0	0	1
ENE	0	0	0	2	1	0	0	0	0	0	0	3
E	0	0	0	1	0	1	0	0	0	0	0	2
ESE	0	0	1	0	0	0	0	0	1	0	0	2
SE	0	0	1	0	1	2	4	2	0	0	0	10
SSE	0	0	0	1	0	1	1	0	0	0	0	3
S	0	0	2	0	0	0	0	0	0	0	0	2
SSW	0	0	0	0	0	1	0	0	0	0	0	1
SW	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	4	5	4	0	0	0	0	13
W	0	0	1	1	2	2	1	0	0	0	0	7
WNW	0	0	1	0	0	0	0	0	0	0	0	1
NW	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0
Tot	0	2	7	7	13	15	11	2	1	0	0	58

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 58
Hours of Missing Data 49
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2008 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

All Stabilities

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	2	0	7	11	8	7	30	18	3	86
NNE	0	0	0	0	8	10	6	9	16	9	2	60
NE	0	1	1	3	7	13	5	4	7	0	0	41
ENE	0	0	0	3	13	12	17	2	0	0	0	47
E	0	0	2	8	6	13	12	10	19	5	0	75
ESE	0	3	2	1	8	3	5	12	50	37	9	130
SE	0	1	1	2	4	1	7	20	30	13	1	80
SSE	0	1	0	3	8	14	22	22	40	9	10	129
S	0	1	0	1	8	7	14	21	58	55	71	236
SSW	0	1	0	5	2	7	18	22	49	51	27	182
SW	0	0	2	1	4	5	5	19	30	18	6	90
WSW	0	0	1	0	9	10	8	6	13	12	4	63
W	0	0	1	2	11	17	15	29	61	31	30	197
WNW	0	0	1	1	11	10	18	34	75	42	24	216
NW	0	0	1	2	6	10	13	17	60	32	14	155
NNW	0	0	0	4	9	18	21	10	74	52	25	213
Tot	0	8	14	36	121	161	194	244	612	384	226	2000

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 2001
Hours of Missing Data 207
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class A - Extremely Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	1	0	0	5	0	0	6
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	1	0	1
W	0	0	0	0	0	0	0	0	1	0	0	1
WNW	0	0	0	0	0	0	0	1	2	0	0	3
NW	0	0	0	0	0	0	1	2	4	0	0	7
NNW	0	0	0	0	0	0	2	0	0	0	0	2
Tot	0	0	0	0	0	1	3	3	12	1	0	20

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 20
Hours of Missing Data 207
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class B - Moderately Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	1	0	0	1	0	0	2
NNE	0	0	0	0	2	0	0	0	0	0	0	2
NE	0	0	0	0	0	2	1	0	0	0	0	3
ENE	0	0	0	0	4	1	0	0	0	0	0	5
E	0	0	0	0	0	1	0	0	0	0	0	1
ESE	0	0	0	0	0	0	0	0	0	1	0	1
SE	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	1	0	0	1
SSW	0	0	0	0	0	0	0	0	0	1	0	1
SW	0	0	0	0	0	0	0	0	0	0	1	1
WSW	0	0	0	0	0	0	0	0	1	1	0	2
W	0	0	0	0	0	0	0	2	0	0	2	4
WNW	0	0	0	0	0	2	2	4	2	0	3	13
NW	0	0	0	0	1	0	1	3	5	0	0	10
NNW	0	0	0	0	0	3	5	0	2	1	0	11
Tot	0	0	0	0	7	10	9	9	12	4	6	57

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 57
Hours of Missing Data 207
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class C - Slightly Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	1	0	2	0	0	0	0	3
NNE	0	0	0	0	1	1	1	0	0	0	0	3
NE	0	0	0	0	1	3	0	0	0	0	0	4
ENE	0	0	0	0	3	0	1	0	0	0	0	4
E	0	0	0	3	0	1	1	0	1	0	0	6
ESE	0	0	0	0	1	0	1	0	2	1	3	8
SE	0	0	0	1	1	0	0	3	2	1	0	8
SSE	0	0	0	0	0	0	1	0	2	0	0	3
S	0	0	0	0	0	0	0	2	4	2	3	11
SSW	0	0	0	0	0	0	0	1	2	6	2	11
SW	0	0	0	0	0	0	0	0	0	1	0	1
WSW	0	0	0	0	1	0	2	1	2	2	0	8
W	0	0	0	0	1	1	3	1	3	2	1	12
WNW	0	0	0	0	2	3	3	1	2	3	0	14
NW	0	0	0	0	0	1	1	0	0	0	4	6
NNW	0	0	0	0	0	1	2	0	2	1	0	6
Tot	0	0	0	4	12	11	18	9	22	19	13	108

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 109
Hours of Missing Data 207
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class D - Neutral

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	5	4	5	5	14	15	3	51
NNE	0	0	0	0	5	4	1	3	2	5	2	22
NE	0	0	0	2	5	4	0	0	6	0	0	17
ENE	0	0	0	1	3	6	10	2	0	0	0	22
E	0	0	1	4	4	3	7	5	5	0	0	29
ESE	0	1	0	0	5	0	4	8	21	18	2	59
SE	0	1	1	1	3	1	3	9	11	10	0	40
SSE	0	0	0	3	3	6	8	8	18	6	5	57
S	0	0	0	1	4	5	9	8	21	17	51	116
SSW	0	0	0	2	2	4	11	9	16	19	16	79
SW	0	0	1	1	3	2	4	11	13	11	4	50
WSW	0	0	1	0	3	6	4	2	6	5	4	31
W	0	0	1	1	7	5	5	20	39	16	24	118
WNW	0	0	1	0	3	4	6	18	37	30	21	120
NW	0	0	0	1	2	7	4	7	36	24	10	91
NNW	0	0	0	2	4	7	11	6	27	43	25	125
Tot	0	2	6	19	61	68	92	121	272	219	167	1027

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 1027
Hours of Missing Data 207
Hours in Period 2208

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DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class E - Slightly Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	0	0	2	0	2	8	2	0	15
NNE	0	0	0	0	0	4	4	4	9	1	0	22
NE	0	1	1	1	1	1	2	4	0	0	0	11
ENE	0	0	0	2	3	4	6	0	0	0	0	15
E	0	0	1	1	2	7	3	3	12	4	0	33
ESE	0	2	2	1	2	3	0	4	24	15	4	57
SE	0	0	0	0	0	0	3	3	6	2	1	15
SSE	0	0	0	0	5	7	11	9	12	3	5	52
S	0	0	0	0	0	0	4	10	32	29	15	90
SSW	0	1	0	2	0	2	7	12	29	22	8	83
SW	0	0	1	0	0	2	1	6	12	5	1	28
WSW	0	0	0	0	2	1	0	2	2	3	0	10
W	0	0	0	0	2	5	3	2	8	12	3	35
WNW	0	0	0	0	6	1	1	8	27	9	0	52
NW	0	0	0	1	3	2	4	5	14	8	0	37
NNW	0	0	0	1	5	5	1	4	43	7	0	66
Tot	0	4	6	9	31	46	50	78	238	122	37	621

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 621
Hours of Missing Data 207
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class F - Moderately Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	0	0	1	0	0	2	1	0	5
NNE	0	0	0	0	0	0	0	0	4	2	0	6
NE	0	0	0	0	0	2	1	0	0	0	0	3
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	1	1	0	2
ESE	0	0	0	0	0	0	0	0	3	2	0	5
SE	0	0	0	0	0	0	1	5	11	0	0	17
SSE	0	0	0	0	0	1	2	5	5	0	0	13
S	0	0	0	0	2	1	0	0	0	7	2	12
SSW	0	0	0	0	0	1	0	0	2	3	1	7
SW	0	0	0	0	0	1	0	2	5	1	0	9
WSW	0	0	0	0	0	3	2	1	1	0	0	7
W	0	0	0	1	1	6	4	3	1	1	0	17
WNW	0	0	0	1	0	0	4	2	5	0	0	12
NW	0	0	0	0	0	0	1	0	1	0	0	2
NNW	0	0	0	1	0	1	0	0	0	0	0	2
Tot	0	0	1	3	3	17	15	18	41	18	3	119

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 119
Hours of Missing Data 207
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

DOCKET NUMBERS: 50-010/50-237/50-249

Period: October through December 2008

Stability Class G - Extremely Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	1	2	1	0	0	0	0	4
NNE	0	0	0	0	0	1	0	2	1	1	0	5
NE	0	0	0	0	0	1	1	0	1	0	0	3
ENE	0	0	0	0	0	1	0	0	0	0	0	1
E	0	0	0	0	0	1	1	2	0	0	0	4
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	1	0	0	0	0	0	0	3	0	0	4
S	0	1	0	0	2	1	1	1	0	0	0	6
SSW	0	0	0	1	0	0	0	0	0	0	0	1
SW	0	0	0	0	1	0	0	0	0	0	0	1
WSW	0	0	0	0	3	0	0	0	1	0	0	4
W	0	0	0	0	0	0	0	1	9	0	0	10
WNW	0	0	0	0	0	0	2	0	0	0	0	2
NW	0	0	1	0	0	0	1	0	0	0	0	2
NNW	0	0	0	0	0	1	0	0	0	0	0	1
Tot	0	2	1	1	7	8	7	6	15	1	0	48

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 48
Hours of Missing Data 207
Hours in Period 2208

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