

**DNPS 2010 Annual Radioactive Effluent
Release Report**

DRESDEN NUCLEAR POWER STATION
2010 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 (site)

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

Gamma Air Dose (each unit)

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

Beta Air Dose (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 (site)

- 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.

e. 40CFR190 and 10CFR72 (all uranium fuel cycle operations in the region):

- 1) Less than or equal to 25 mrem annual whole body dose.
- 2) Less than or equal to 75 mrem annual thyroid dose.
- 3) Less than or equal to 25 mrem annual dose to any other critical organ.

2. Maximum Permissible Concentrations

Dose rates, rather than effluent concentrations, are used to calculate permissible release rates for gaseous effluents. The maximum permissible dose rates for gaseous releases are defined in Dresden Offsite Dose Calculation Manual (ODCM) Radiological Effluent Control (REC) 12.4.1.

Liquid effluent concentrations are limited per ODCM REC 12.3.1 to 10 times the concentration specified in 10CFR20 Appendix B, Table 2, Column 2 for radionuclides other than dissolved or entrained noble gases and 2.00E-04 $\mu\text{Ci/ml}$ total activity for all dissolved or entrained noble gases.

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3. Average Energy

The ODCM limits dose rates at or beyond the site boundary 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, and average energy is not used to determine dose to the public. 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.

4. Measurement and Approximations of Total Radioactivity

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

The 1 Chimney, 2/3 Chimney, 2/3 Reactor Building Vent, and Chemical Cleaning Building effluents are continuously 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 2/3 Chimney and 2/3 Reactor Building Vent are obtained weekly and analyzed by gamma spectroscopy. Contributing streams of the 2/3 Chimney and 2/3 Reactor Building Vent are also sampled and analyzed by gamma spectroscopy. Tritium samples of the 2/3 Chimney and 2/3 Reactor Building Vent are obtained monthly and analyzed by liquid scintillation.

For the 2/3 Chimney and 2/3 Reactor Building Vent effluents, measured flow at the release points is used to calculate the curies released. For the 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. Batch release volume is based on LPCI heat exchanger 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.

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g. Estimation of Data/Corrections:

On September 8, 2010 the 1 Chimney particulate and iodine sampler was found non-functional due to a failure of the sample pump. Because no activity was detected on the sample that was collecting and no activity was detected at this sample point for the previous several months, it is determined that no activity was released via the Unit 1 Chimney during the sampling period of September 1 through 8, 2010.

Carbon-14 activity released is determined using Electric Power Research Institute Technical Report 1021106 Boiling Water Reactor proxy values (5.1 Ci per GWth year, Section 3.7) and the rated thermal capacity maintained for the entire calendar year. Resultant dose is calculated using approved methodologies.

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

a. Liquid - Radwaste Liquid Effluents - None

b. Liquid - Containment Cooling Service Water (LPCI)

1. Number of batch releases: 98
2. Total time period for batch releases: 1.22E+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: 1
2. Total activity released: 1.12E-04 Ci

b. Gaseous

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

- a.1 On November 27, 2010 a hose fitting ruptured that was connected to a portable storage tank containing tritium-contaminated groundwater collected from an on-site excavation. The rupture was caused by freezing and leakage was stopped the same day. An estimated 1.12E+04 gallons containing 1.12E-04 curies of tritium was released to the environment.

* 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: 7.28E-03 Ci
 - b. Gaseous
 - 1. Number of releases: 4
 - 2. Total activity released: 8.07E-03 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 month of 2010 was used to calculate the released activity for each month. The total activity released is based on an estimated typical discharge flow of 10 gallons per minute. Tritium was detected in the storm sewers only during the months of January, October, and December. An estimated 7.28E-03 Ci of tritium was released to the environment during 2010.
- 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 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 2010.
- b.2 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 2010 is 7.07E-05 Ci of noble gases and 7.58E-07 Ci of iodines and particulates.
- b.3 The access door on a 2/3 Chimney duct was found ajar on August 14, 2009. The door was closed on the same day, but a small amount of leakage (<100 scfm) continues. Released activity was determined using the duration of the leakage (the entire year), 100 scfm, and measurements of activity released from the 2/3 Chimney. An estimated 3.36E-03 Ci tritium, 4.24E-08 Ci Mn-54, 5.68E-09 Ci Co-58, 9.88E-08 Ci Co-60, 8.81E-09 Ci Zn-65, 3.07E-08 Ci Sr-89, 1.62E-09 Ci Ag-110m, 3.04E-07 Ci I-131, 1.36E-06 Ci I-133, 3.02E-07 Ci I-135, 1.74E-07 Ci Ba-140, 2.20E-03 Ci Xe-133, 8.84E-04 Ci Xe-135, and 1.39E-03 Ci Xe-138 for a total activity of 7.83E-03 Ci released to the environment during 2010.
- b.4 The Unit 3 Isolation Condenser was actuated as part of a planned surveillance on November 27, 2010. 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 the actuation were used for release calculations, and release volume was calculated from changes in the shell-side level. An estimated 2.45E-06 Ci Co-60 and 1.28E-04 Ci tritium were released during these planned system actuations for a total estimated 1.31E-04 Ci of activity that was released to the environment from this system as a ground-level release.
8. Summary of Offsite Dose Calculation Manual (ODCM) Changes by Dresden Nuclear Power Station (DNPS) in 2010
- Revision 10 of the ODCM was issued on October 28, 2010. The revision clarified requirements for alternate monitoring of the 2/3 Chimney if the mid- or high-range noble gas monitor is out of service.

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

DRESDEN NUCLEAR POWER STATION
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January through December 2010

EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2010
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	1.44E+01	1.78E+01	1.11E+01	7.38E+00	1.31E+01
2. Average release rate for period	μCi/sec	1.86E+00	2.26E+00	1.39E+00	9.28E-01	
3. Percent of Technical specification limit	%	*	*	*	*	

B. Iodines

1. Total iodine-131	Ci	2.06E-04	2.54E-04	3.12E-04	2.00E-04	2.60E+01
2. Average release rate for period (I-131)	μCi/sec	2.65E-05	3.23E-05	3.93E-05	2.51E-05	
3. Percent of technical specification limit	%	*	*	*	*	

C. Particulates

1. Particulates with half-lives > 8 days	Ci	2.42E-04	2.57E-04	4.66E-04	4.70E-04	2.94E+01
2. Average release rate for period	μCi/sec	3.11E-05	3.27E-05	5.86E-05	5.92E-05	
3. Percent of technical specification limit	%	*	*	*	*	
4. Gross alpha radioactivity	Ci	<LLD	<LLD	<LLD	<LLD	

D. Tritium

1. Total release	Ci	2.79E+00	2.95E+00	3.36E+00	4.26E+00	7.56E+00
2. Average release rate for period	μCi/sec	3.59E-01	3.75E-01	4.23E-01	5.35E-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 2010
 GASEOUS EFFLUENTS – SUMMATION OF ALL RELEASES

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TABLE OF LOWER LIMITS OF DETECTABILITY
 FOR GASEOUS EFFLUENTS

1.	FISSION / ACTIVATION GASES	$\mu\text{Ci/cc}$
	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	$\mu\text{Ci/cc}$
	I-131	1.00E-12
	I-133	1.00E-10
3.	PARTICULATES	$\mu\text{Ci/cc}$
	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	$\mu\text{Ci/cc}$
	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 2010

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					
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	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	1.63E-06	5.85E-07	5.29E-07	1.43E-06	4.17E-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	1.63E-06	5.85E-07	5.29E-07	1.43E-06	4.17E-06
4. Tritium						
Total for period	Ci	None	None	None	None	None

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2010

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 2010

UNITS 2/3 REACTOR BUILDING VENT

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	<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	3.33E-06	3.33E-06
I-133	Ci	<LLD	<LLD	<LLD	1.16E-05	1.16E-05
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	<LLD	<LLD	<LLD	1.50E-05	1.50E-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	<LLD	<LLD	<LLD	<LLD	<LLD
Mn-54	Ci	5.29E-06	<LLD	1.56E-05	2.78E-05	4.87E-05
Co-58	Ci	<LLD	<LLD	<LLD	5.25E-06	5.25E-06
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	1.74E-05	5.94E-06	2.32E-05	8.78E-05	1.34E-04
Zn-65	Ci	<LLD	<LLD	<LLD	4.12E-05	4.12E-05
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	7.22E-08	7.02E-07	7.74E-07
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	1.96E-06	<LLD	1.96E-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	2.27E-05	5.94E-06	4.09E-05	1.63E-04	2.32E-04
4. Tritium						
Total for period	Ci	7.30E-01	7.17E-01	4.44E-01	7.58E-01	2.65E+00

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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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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2010

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	9.40E-01	5.84E-01	1.14E+00	1.40E+00	4.06E+00
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	4.76E-01	2.59E-01	1.33E-01	1.90E-01	1.06E+00
Kr-87	Ci	2.65E-01	2.65E-01	2.50E-01	1.63E-01	9.44E-01
Kr-88	Ci	2.82E-01	1.90E-01	1.47E-01	1.35E-01	7.54E-01
Xe-133	Ci	1.18E+00	7.49E+00	4.74E-01	4.21E-01	9.56E+00
Xe-133m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci	6.79E-01	8.37E-01	1.03E+00	5.77E-01	3.13E+00
Xe-135m	Ci	1.69E+00	1.61E+00	1.54E+00	8.56E-01	5.70E+00
Xe-138	Ci	8.93E+00	6.56E+00	6.34E+00	3.63E+00	2.55E+01
Total for period	Ci	1.44E+01	1.78E+01	1.11E+01	7.37E+00	5.07E+01
2. Iodines						
I-131	Ci	2.06E-04	2.54E-04	3.12E-04	1.96E-04	9.68E-04
I-133	Ci	8.58E-04	1.17E-03	1.62E-03	6.88E-04	4.34E-03
I-135	Ci	<LLD	2.17E-04	5.11E-04	2.34E-04	9.62E-04
Total for period	Ci	1.06E-03	1.64E-03	2.45E-03	1.12E-03	6.27E-03
3. Particulates						
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	5.02E-05	2.94E-06	4.26E-05	2.24E-06	9.80E-05
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cr-51	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mn-54	Ci	2.34E-05	1.71E-05	4.65E-05	4.83E-05	1.35E-04
Co-58	Ci	<LLD	1.60E-05	<LLD	2.11E-06	1.81E-05
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	4.93E-05	6.75E-05	7.96E-05	1.19E-04	3.15E-04
Zn-65	Ci	<LLD	<LLD	1.34E-05	1.47E-05	2.81E-05
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	5.16E-06	<LLD	5.16E-06
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	9.44E-05	1.47E-04	2.36E-04	7.91E-05	5.56E-04
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	2.17E-04	2.50E-04	4.23E-04	2.65E-04	1.16E-03
4. Tritium						
Total for period	Ci	2.06E+00	2.23E+00	2.92E+00	3.50E+00	1.07E+01

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2010

UNITS 2/3 MAIN CHIMNEY

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

XX

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 2010

CHEMICAL CLEANING BUILDING

GASEOUS EFFLUENTS

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

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					
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	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	5.53E-07	3.80E-07	1.03E-06	1.51E-06	3.47E-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	5.53E-07	3.80E-07	1.03E-06	1.51E-06	3.47E-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

XX

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 2010
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	7.22E-06	<LLD	<LLD	4.87E-05	1.95E+01
2. Average diluted concentration during period	μCi/ml	2.94E-13	<LLD	<LLD	1.94E-12	
3. Percent of applicable limit	%	*	*	*	*	

B. Tritium

1. Total release	Ci	1.88E-03	<LLD	<LLD	1.07E-02	2.37E+00
2. Average diluted concentration during period	μCi/ml	7.64E-11	<LLD	<LLD	4.27E-10	
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
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E. Volume of waste released (prior to dilution)	Liters	5.37E+06	5.49E+06	5.32E+06	5.38E+06	1.00E+00
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F. Volume of dilution water used during period	Liters	2.45E+10	1.02E+11	5.01E+11	2.51E+10	5.00E+00
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* 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 2010
 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 2010

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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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2010

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					
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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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2010

UNITS 2/3 CONTAINMENT COOLING SERVICE WATER

DOCKET NUMBERS: 50-237/50-249

<u>BATCH MODE</u>						
	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	1.55E-06	<LLD	<LLD	7.03E-06	8.57E-06
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	1.68E-06	<LLD	<LLD	4.17E-05	4.34E-05
Zn-65	Ci	4.00E-06	<LLD	<LLD	<LLD	4.00E-06
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	<LLD	<LLD
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	7.22E-06	<LLD	<LLD	4.87E-05	5.60E-05
H-3	Ci	<LLD	<LLD	<LLD	5.19E-03	5.19E-03
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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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2010

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					
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-135	Ci					
Xe-138	Ci					

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2010
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	9.84E+01	2.50E+01
	Ci	3.51E+02	
b. Dry compressible waste, contaminated equipment, etc. (includes some contaminated liquids)	m ³	1.32E+03	2.50E+01
	Ci	1.48E+01	
c. Irradiated components, control rods, etc.	m ³	5.33E-01	2.50E+01
	Ci	8.79E+00	
d. Other (describe) - Contaminated Oil, Combined Packages, Pump Impeller	m ³	2.46E+01	2.50E+01
	Ci	3.00E+01	

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

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

	<u>Percent %</u>	<u>Curies</u>
Fe-55	6.37E+01	2.24E+02
Co-60	2.67E+01	9.39E+01
Mn-54	4.22E+00	1.48E+01
Cs-137	3.02E+00	1.06E+01
Zn-65	1.03E+00	3.63E+00

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

b. Dry compressible waste, contaminated equipment, etc.

	<u>Percent %</u>	<u>Curies</u>
Fe-55	3.94E+01	5.84E+00
Co-60	2.36E+01	3.50E+00
Zn-65	2.10E+01	3.12E+00
Mn-54	8.57E+00	1.27E+00
Cs-137	4.97E+00	7.38E-01
Ni-63	1.70E+00	2.52E-01

Shipment type: LSA
Solidification agent or absorbent: None

c. Irradiated components, control rods, etc.

	<u>Percent %</u>	<u>Curies</u>
Fe-55	3.85E+01	3.38E+00
Co-60	3.40E+01	2.99E+00
Ni-63	2.22E+01	1.95E+00
Mn-54	4.00E+00	3.52E-01

Shipment type: LSA
Solidification agent or absorbent: None

d. Other - Contaminated Oil, Combined Packages, Pump Impeller

	<u>Percent %</u>	<u>Curies</u>
Fe-55	5.31E+01	1.59E+01
Co-60	3.35E+01	1.00E+01
Mn-54	7.29E+00	2.19E+00
Zn-65	3.17E+00	9.51E-01
Ni-63	1.71E+00	5.14E-01

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

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2010
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

2. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
28	Motor freight (exclusive use only)	Energy Solutions - Bear Creek Road, Oak Ridge, TN
24	Motor freight (exclusive use only)	Energy Solutions - Clive, UT
10	Motor freight (exclusive use only)	Energy Solutions - Gallaher Road, Kingston, 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)

No major changes were made to the DNPS radioactive liquid, gaseous, or solid waste treatment systems in 2010.

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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	3.73E-06(t)	2.41E-06(a)	5.83E-06(a,t)	7.90E-04(i,c)	15.0 mrem	7.99E-04(i,c)
Critical Organ		Lung	GI_LLI	GI_LLI(a,t)	Liver (i) Bone (c)		Liver (i) Bone (c)

	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	4.97E-05	3.21E-05	7.77E-05	1.05E-02	15.0 mrem	5.33E-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 2010. Deep Dose Equivalent from Unit 1 was 7.83E-04 mrem in 2010.

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 2010 is 7.92E-04 mrem. The maximum calculated Committed Effective Dose Equivalent exposure to a member of the public as the result of Unit 1 activities during 2010 is 9.51E-06 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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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	3.34E-05(e)	2.79E-05(e)	3.05E-05(e)	5.06E-05(e)	10.0 mrad	1.42E-04(e)
Beta Air (mrad)	10.0 mrad	1.96E-06(e)	2.16E-06(e)	1.89E-06(e)	2.93E-06(e)	20.0 mrad	8.94E-06(e)
Total Body (mrem)	2.5 mrem	2.52E-05(e)	2.11E-05(e)	2.30E-05(e)	3.82E-05(e)	5.0 mrem	1.07E-04(e)
Skin (mrem)	7.5 mrem	2.75E-05(e)	2.31E-05(e)	2.52E-05(e)	4.16E-05(e)	15.0 mrem	1.17E-04(e)
Organ (mrem)	7.5 mrem	2.98E-02(c)	9.99E-02(c)	1.42E-01(c)	5.96E-02(c)	15.0 mrem	3.16E-01(c)
Critical Organ		Bone	Bone	Bone	Bone		Bone

	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	6.68E-04	5.58E-04	6.10E-04	1.01E-03	10.0 mrad	1.42E-03
Beta Air	10.0 mrad	1.96E-05	2.16E-05	1.89E-05	2.93E-05	20.0 mrad	4.47E-05
Total Body	2.5 mrem	1.01E-03	8.44E-04	9.20E-04	1.53E-03	5.0 mrem	2.14E-03
Skin	7.5 mrem	3.67E-04	3.08E-04	3.36E-04	5.55E-04	15.0 mrem	7.80E-04
Organ	7.5 mrem	3.97E-01	1.33E+00	1.89E+00	7.95E-01	15.0 mrem	2.11E+00

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	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	3.0 mrem	0.00E+00(e)
Organ (mrem)	5.0 mrem	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	10.0 mrem	0.00E+00(e)
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 2 turbine building skyshine was 4.39E+00 mrem during 2010. Deep Dose Equivalent from the operation of Unit 2 was 4.39E+00 mrem in 2010.

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 2010 is 4.49E+00 mrem. The maximum calculated Committed Effective Dose Equivalent exposure to a member of the public as the result of Unit 2 operations during 2010 is 9.46E-02 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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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	2.58E-04(e)	2.13E-04(e)	2.15E-04(e)	1.18E-04(e)	10.0 mrad	8.32E-04(e)
Beta Air (mrad)	10.0 mrad	1.68E-05(e)	1.55E-05(e)	1.27E-05(e)	7.48E-06(e)	20.0 mrad	5.24E-05(e)
Total Body (mrem)	2.5 mrem	2.15E-04(e)	1.61E-04(e)	1.62E-04(e)	8.93E-05(e)	5.0 mrem	6.27E-04(e)
Skin (mrem)	7.5 mrem	2.35E-04(e)	1.76E-04(e)	1.77E-04(e)	9.81E-05(e)	15.0 mrem	6.86E-04(e)
Organ (mrem)	7.5 mrem	2.98E-02(c)	9.99E-02(c)	1.42E-01(c)	5.99E-02(c)	15.0 mrem	3.16E-01(c)
Critical Organ		Bone	Bone	Bone	Bone		Bone

	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	5.16E-03	4.26E-03	4.30E-03	2.36E-03	10.0 mrad	8.32E-03
Beta Air	10.0 mrad	1.68E-04	1.55E-04	1.27E-04	7.48E-05	20.0 mrad	2.62E-04
Total Body	2.5 mrem	8.60E-03	6.44E-03	6.48E-03	3.57E-03	5.0 mrem	1.25E-02
Skin	7.5 mrem	3.13E-03	2.35E-03	2.36E-03	1.31E-03	15.0 mrem	4.57E-03
Organ	7.5 mrem	3.97E-01	1.33E+00	1.89E+00	7.99E-01	15.0 mrem	2.11E+00

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	1.38E-07(c)	0.00E+00(e)	0.00E+00(e)	1.29E-07(c)	3.0 mrem	2.67E-07(c)
Organ (mrem)	5.0 mrem	2.83E-07(a)	0.00E+00(e)	0.00E+00(e)	4.10E-07(a)	10.0 mrem	6.14E-07(a)
Critical Organ		Liver	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	9.20E-06	0.00E+00	0.00E+00	8.60E-06	3.0 mrem	8.90E-06
Organ	5.0 mrem	5.66E-06	0.00E+00	0.00E+00	8.20E-06	10.0 mrem	6.14E-06

3. Direct Radiation

The maximum calculated direct radiation exposure to a member of the public due to Unit 3 turbine building skyshine was 3.90E+00 mrem during 2010. Deep Dose Equivalent from the operation of Unit 3 was 3.90E+00 mrem in 2010.

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 2010 is 4.00E+00 mrem. The maximum calculated Committed Effective Dose Equivalent exposure to a member of the public as the result of Unit 3 operations during 2010 is 9.57E-02 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 / 10CFR72 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 6.33E-01 mrem organ dose and 8.29E+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 2010. REMP direct radiation monitoring at or near the site boundary demonstrates that the ISFSIs do not result in measurable dose to the public.

Per the 2010 GE-Hitachi Morris Operation 10CFR72.44(d)(3) report, maximum dose at their site boundary from direct radiation exposure was 7.12E-01 mrem and maximum organ dose was 1.43E-02 mrem for 2010.

Maximum Deep Dose Equivalent from Dresden and GE-Hitachi Morris Operation activities is 9.00E+00 mrem during 2010, which is 3.60E+01% of the 40CFR190 limit of 2.50E+01 mrem.

Maximum organ dose from Dresden and GE-Hitachi Morris Operation activities is 6.47E-01 mrem during 2010, which is <3.00E+00% of the 40CFR190 limits of 7.50E+01 mrem to the thyroid and 2.50E+00 mrem to any other organ.

E. Equipment Out of Service / ODCM Requirements Not Met

The Unit 2 Service Water Radiation Monitor was out of service for greater than 30 days from 0030 on March 1, 2010 until 1100 on April 1, 2010. The monitor was removed from service to upgrade the sample pump and revise the monitor's trip logic as a plant modification. Complications in the implementation of the modification caused delays and a causal evaluation found that station leadership lost operational focus and did not provide the necessary management ownership and oversight to ensure that restoration activities were completed in a timely manner.

Unit 1 Chimney particulate and iodine sampling was not performed as required from September 1, 2010 until September 8, 2010. On September 8, 2010 the 1 Chimney particulate and iodine sampler was found non-functional due to a failure of the sample pump. Sampling was restored when the pump was replaced the same day. This event also revealed that daily channel checks were not being performed as required by the ODCM since the Unit 1 Chimney Separate Particulate, Iodine, and Noble Gas monitor (SPING) was removed from service in August 2009.

The Units 2/3 Chimney mid- and high-range noble gas monitors were out of service for greater than 21 days from November 6, 2010 until December 6, 2010. The 2/3 Chimney SPING was removed from service on November 6, 2010 during preparation for plant system undervoltage testing and the backup monitoring system was placed in service. The backup monitoring system does not have mid- or high-range noble gas channels. During the undervoltage testing, the ladder logic in the Post Accident Airborne Radiation Monitoring System programmable logic controller (PLC) was damaged, which resulted in the inability to control associated motor-operated isolation valves. The PLC was replaced and required monitoring instrumentation returned to service on December 6, 2010. This issue was reported to the NRC on December 21, 2010 per ODCM requirements.

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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 2010:

Parameter	Percentage of valid parameter hours in 2010				
	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Year
35 ft. Wind Speed	99.9%	100.0%	99.9%	98.8%	99.6%
150 ft. Wind Speed	98.9%	100.0%	99.9%	99.7%	99.6%
300 ft. Wind Speed	92.8%	100.0%	99.9%	99.7%	98.1%
35 ft. Wind Direction	99.8%	100.0%	99.9%	99.7%	99.9%
150 ft. Wind Direction	99.8%	100.0%	99.9%	99.7%	99.9%
300 ft. Wind Direction	99.8%	99.4%	99.9%	99.6%	99.7%
35 ft. Temperature	99.9%	100.0%	99.8%	99.9%	99.9%
150-35 ft. delta T	97.4%	100.0%	99.5%	99.9%	99.2%
300-35 ft. delta T	99.9%	100.0%	99.5%	99.9%	99.8%

2. Dresden station was able to achieve an average of 99.5% 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 2010.

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	2	9	9	32	11	14	5	0	0	0	82
NNE	0	2	2	5	23	26	21	28	55	17	3	182
NE	0	0	8	5	27	26	32	19	22	2	0	141
ENE	0	2	5	6	27	14	6	0	0	0	0	60
E	0	1	7	11	39	39	13	13	5	0	0	128
ESE	0	1	11	8	38	45	36	9	1	0	0	149
SE	0	2	2	3	9	18	5	8	7	0	0	54
SSE	0	3	1	3	15	11	9	7	0	3	0	52
S	0	1	5	4	16	16	11	10	12	5	0	80
SSW	0	1	11	16	12	7	0	7	6	0	0	60
SW	0	3	11	5	17	13	14	13	7	0	0	83
WSW	0	6	4	11	19	10	6	3	6	0	0	65
W	0	4	20	30	60	51	34	21	23	3	0	246
WNW	1	7	17	19	74	74	42	12	5	0	0	251
NW	0	3	17	30	56	35	48	39	17	0	0	245
NNW	0	2	12	25	53	49	41	25	13	5	0	225
Tot	1	40	142	190	517	445	332	219	179	35	3	2103

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 2103
Hours of Missing Data 57
Hours in Period 2160

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METEOROLOGICAL DATA

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

Period: January through March 2010

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	1	6	0	2	1	0	0	0	10
NNE	0	0	0	1	2	0	0	1	3	1	0	8
NE	0	0	0	0	1	1	0	3	0	0	0	5
ENE	0	0	0	1	2	2	0	0	0	0	0	5
E	0	0	0	0	5	2	0	0	0	0	0	7
ESE	0	0	0	0	2	1	1	2	0	0	0	6
SE	0	0	0	1	1	0	0	0	0	0	0	2
SSE	0	0	0	0	1	0	0	0	0	0	0	1
S	0	0	0	0	0	0	0	0	8	0	0	8
SSW	0	0	0	1	0	0	0	0	0	0	0	1
SW	0	0	0	0	1	0	1	1	2	0	0	5
WSW	0	0	0	0	1	1	0	0	2	0	0	4
W	0	0	0	1	0	0	0	7	0	0	0	8
WNW	0	0	0	0	0	0	2	1	0	0	0	3
NW	0	0	0	0	0	1	0	1	0	0	0	2
NNW	0	0	0	1	3	1	0	0	0	0	0	5
Tot	0	0	0	7	25	9	6	17	15	1	0	80

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 80
Hours of Missing Data 57
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: January through March 2010

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	0	1	0	0	1	0	0	0	2
NNE	0	0	0	0	1	0	1	1	3	0	0	6
NE	0	0	0	0	0	0	1	1	1	0	0	3
ENE	0	0	1	0	1	1	0	0	0	0	0	3
E	0	0	0	0	1	3	0	0	0	0	0	4
ESE	0	0	0	0	0	1	1	0	0	0	0	2
SE	0	0	0	0	0	0	1	0	0	0	0	1
SSE	0	0	0	0	1	0	0	0	0	0	0	1
S	0	0	0	0	0	0	0	0	1	1	0	2
SSW	0	0	0	0	0	1	0	0	0	0	0	1
SW	0	0	0	0	0	0	0	1	0	0	0	1
WSW	0	0	0	0	0	0	0	1	0	0	0	1
W	0	0	0	1	1	0	3	0	0	0	0	5
WNW	0	0	0	0	1	2	6	1	1	0	0	11
NW	0	0	0	0	1	0	1	3	3	0	0	8
NNW	0	0	0	0	0	0	1	0	0	0	0	1
Tot	0	0	1	1	8	8	15	9	9	1	0	52
Hours of Calm												0
Hours of Variable Direction												0
Hours of Valid Data												52
Hours of Missing Data												57
Hours in Period												2160

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METEOROLOGICAL DATA

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

Period: January through March 2010

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	2	0	2	1	0	0	0	6
NNE	0	0	0	0	1	2	1	2	1	1	0	8
NE	0	0	0	0	1	1	0	1	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	0	0	0	0
ESE	0	0	0	0	0	2	1	1	0	0	0	4
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	1	0	0	1	0	1	0	3
SSW	0	0	0	1	1	0	0	0	0	0	0	2
SW	0	0	0	0	0	0	0	1	0	0	0	1
WSW	0	0	0	0	1	0	1	0	0	0	0	2
W	0	0	0	0	0	3	3	1	4	0	0	11
WNW	0	0	0	0	1	2	3	2	0	0	0	8
NW	0	0	0	0	0	4	2	4	2	0	0	12
NNW	0	0	0	0	2	0	1	0	0	0	0	3
Tot	0	0	0	2	10	14	15	14	7	2	0	64

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 64
Hours of Missing Data 57
Hours in Period 2160

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METEOROLOGICAL DATA

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

Period: January through March 2010

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	0	3	6	9	7	9	2	0	0	0	36
NNE	0	0	0	0	5	11	4	16	34	8	3	81
NE	0	0	3	2	12	20	19	10	16	2	0	84
ENE	0	1	2	0	9	8	5	0	0	0	0	25
E	0	1	2	2	13	22	10	13	5	0	0	68
ESE	0	0	4	2	18	18	19	2	0	0	0	63
SE	0	1	1	1	6	14	0	5	4	0	0	32
SSE	0	1	1	0	4	4	5	2	0	3	0	20
S	0	0	1	0	1	2	3	6	2	3	0	18
SSW	0	0	3	8	3	3	0	7	6	0	0	30
SW	0	1	5	1	4	8	11	8	5	0	0	43
WSW	0	1	0	3	14	4	4	2	4	0	0	32
W	0	1	0	5	30	31	27	13	19	3	0	129
WNW	0	2	5	9	34	34	23	8	4	0	0	119
NW	0	0	3	7	28	14	29	29	8	0	0	118
NNW	0	0	7	6	13	24	26	24	11	5	0	116
Tot	0	9	40	52	203	224	194	147	118	24	3	1014

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 1014
Hours of Missing Data 57
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	0	4	1	14	4	1	0	0	0	0	24
NNE	0	1	2	4	14	13	15	8	14	7	0	78
NE	0	0	1	3	13	4	12	4	5	0	0	42
ENE	0	1	1	5	15	3	1	0	0	0	0	26
E	0	0	4	8	19	11	3	0	0	0	0	45
ESE	0	1	3	4	9	16	14	4	1	0	0	52
SE	0	1	1	1	2	4	3	3	3	0	0	18
SSE	0	2	0	2	6	7	4	5	0	0	0	26
S	0	1	4	3	11	12	7	3	1	0	0	42
SSW	0	1	5	2	7	3	0	0	0	0	0	18
SW	0	0	3	2	4	4	2	2	0	0	0	17
WSW	0	2	0	4	1	5	1	0	0	0	0	13
W	0	1	10	21	28	17	1	0	0	0	0	78
WNW	1	3	5	8	38	36	8	0	0	0	0	99
NW	0	2	7	15	24	15	16	2	4	0	0	85
NNW	0	1	3	15	33	24	13	1	2	0	0	92
Tot	1	17	53	98	238	178	101	32	30	7	0	755

Hours of Calm	0
Hours of Variable Direction	0
Hours of Valid Data	755
Hours of Missing Data	57
Hours in Period	2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	2	2	0	0	0	0	0	0	0	0	4
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	4	0	0	0	0	0	0	0	0	4
ENE	0	0	1	0	0	0	0	0	0	0	0	1
E	0	0	1	1	1	1	0	0	0	0	0	4
ESE	0	0	4	1	7	6	0	0	0	0	0	18
SE	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	1	3	0	0	0	0	0	0	4
S	0	0	0	1	2	2	1	0	0	0	0	6
SSW	0	0	3	4	1	0	0	0	0	0	0	8
SW	0	1	2	2	3	0	0	0	0	0	0	8
WSW	0	2	4	4	1	0	0	0	0	0	0	11
W	0	0	7	2	1	0	0	0	0	0	0	10
WNW	0	1	4	1	0	0	0	0	0	0	0	6
NW	0	1	5	5	3	1	0	0	0	0	0	15
NNW	0	1	1	3	1	0	0	0	0	0	0	6
Tot	0	8	38	25	23	10	1	0	0	0	0	105

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 105
Hours of Missing Data 57
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	1	0	0	0	0	0	0	0	0	0	1
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	1	2	1	0	0	0	0	0	4
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	1	0	0	0	0	0	0	1
SSW	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	1	1	0	5	1	0	0	0	0	0	8
WSW	0	1	0	0	1	0	0	0	0	0	0	2
W	0	2	3	0	0	0	0	0	0	0	0	5
WNW	0	1	3	1	0	0	0	0	0	0	0	5
NW	0	0	2	3	0	0	0	0	0	0	0	5
NNW	0	0	1	0	1	0	0	0	0	0	0	2
Tot	0	6	10	5	10	2	0	0	0	0	0	33

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 33
Hours of Missing Data 57
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	7	6	33	24	16	14	2	0	0	103
NNE	0	0	3	4	11	16	26	27	64	56	14	221
NE	0	0	6	2	10	20	24	28	21	1	1	113
ENE	0	0	8	5	19	21	16	2	0	0	0	71
E	0	1	1	2	19	31	27	21	10	1	0	113
ESE	0	2	2	4	13	20	25	28	29	2	0	125
SE	0	0	3	2	12	18	11	5	12	6	0	69
SSE	0	2	1	0	2	8	9	5	14	1	3	45
S	0	1	1	2	5	5	9	22	21	8	4	78
SSW	0	1	3	3	10	8	7	9	10	2	0	53
SW	0	2	7	5	10	8	14	25	10	6	1	88
WSW	0	2	1	3	20	10	1	5	11	2	0	55
W	0	3	3	4	31	78	65	40	32	20	4	280
WNW	0	1	4	10	31	35	51	55	37	4	0	228
NW	0	0	3	2	26	37	41	43	65	11	2	230
NNW	0	2	5	10	32	47	38	43	27	3	3	210
Tot	0	18	58	64	284	386	380	372	365	123	32	2082

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 2082
Hours of Missing Data 78
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	7	1	1	1	0	0	0	10
NNE	0	0	0	0	3	0	0	0	3	2	0	8
NE	0	0	0	1	1	1	1	0	3	0	0	7
ENE	0	0	0	0	3	1	1	0	0	0	0	5
E	0	0	0	1	3	2	1	0	0	0	0	7
ESE	0	0	0	0	2	0	1	1	2	0	0	6
SE	0	0	0	0	1	0	0	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	6	2	0	8
SSW	0	0	0	0	0	0	0	0	0	2	0	2
SW	0	0	0	0	1	1	0	1	1	0	0	4
WSW	0	0	0	0	1	0	0	0	3	0	0	4
W	0	0	0	0	0	0	0	0	6	0	0	6
WNW	0	0	0	0	0	0	1	1	1	0	0	3
NW	0	0	0	0	0	0	1	0	1	0	0	2
NNW	0	0	0	1	4	1	0	0	1	0	0	7
Tot	0	0	0	3	26	7	7	4	27	6	0	80

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 80
Hours of Missing Data 78
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	0	0	0	2	0	0	0	2
NNE	0	0	0	0	0	1	0	0	4	0	0	5
NE	0	0	0	0	1	0	0	1	2	0	0	4
ENE	0	0	0	1	0	0	2	0	0	0	0	3
E	0	0	0	0	2	0	2	0	0	0	0	4
ESE	0	0	0	0	0	1	0	2	0	0	0	3
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	2	0	2
SSW	0	0	0	0	0	1	0	0	0	0	0	1
SW	0	0	0	0	0	0	0	1	0	0	0	1
WSW	0	0	0	0	0	0	0	0	1	0	0	1
W	0	0	0	1	1	1	2	2	0	0	0	7
WNW	0	0	0	0	1	1	2	5	4	0	0	13
NW	0	0	0	0	0	0	1	0	4	0	0	5
NNW	0	0	0	0	1	0	0	0	0	0	0	1
Tot	0	0	0	2	6	5	9	13	15	2	0	52

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 52
Hours of Missing Data 78
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	2	0	1	2	0	0	0	5
NNE	0	0	0	0	0	2	0	2	1	1	1	7
NE	0	0	0	0	0	1	1	0	1	0	0	3
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	1	0	1	0	0	0	2
ESE	0	0	0	0	0	1	0	0	1	0	0	2
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	1	0	0	0	1	0	1	3
SSW	0	0	0	0	1	0	0	0	1	0	0	2
SW	0	0	0	0	0	0	0	1	0	0	0	1
WSW	0	0	0	1	1	0	0	0	0	0	0	2
W	0	0	0	0	0	3	3	1	1	4	0	12
WNW	0	0	0	0	0	2	2	2	3	1	0	10
NW	0	0	0	0	0	2	1	0	5	1	0	9
NNW	0	0	0	1	2	1	0	1	0	0	0	5
Tot	0	0	0	2	7	13	9	10	14	7	2	64

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 64
Hours of Missing Data 78
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	4	2	9	6	7	8	2	0	0	38
NNE	0	0	1	1	2	3	11	7	32	40	8	105
NE	0	0	1	0	6	11	15	18	12	1	1	65
ENE	0	0	4	1	4	6	6	1	0	0	0	22
E	0	1	1	0	4	14	13	15	7	1	0	56
ESE	0	0	1	2	10	13	14	10	7	1	0	58
SE	0	0	3	0	4	9	4	2	5	3	0	30
SSE	0	2	1	0	0	4	3	1	4	0	3	18
S	0	0	1	1	1	3	0	3	7	3	3	22
SSW	0	0	1	3	5	4	0	4	8	0	0	25
SW	0	1	5	3	5	5	6	8	8	6	1	48
WSW	0	1	0	0	11	6	0	1	6	2	0	27
W	0	2	1	2	20	28	29	27	24	16	4	153
WNW	0	0	4	7	21	12	15	21	22	3	0	105
NW	0	0	3	2	17	18	13	23	43	5	2	126
NNW	0	0	2	3	12	11	15	22	24	3	3	95
Tot	0	7	33	27	131	153	151	171	211	84	25	993

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 993
Hours of Missing Data 78
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: January through March 2010

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	2	11	16	6	1	0	0	0	38
NNE	0	0	0	1	5	9	15	18	24	13	5	90
NE	0	0	3	1	2	7	7	9	3	0	0	32
ENE	0	0	4	2	12	13	7	1	0	0	0	39
E	0	0	0	0	7	13	10	5	3	0	0	38
ESE	0	1	1	1	1	3	10	10	16	1	0	44
SE	0	0	0	2	5	3	3	3	6	3	0	25
SSE	0	0	0	0	2	4	4	3	10	1	0	24
S	0	1	0	1	3	2	8	17	5	1	0	38
SSW	0	1	2	0	4	2	4	3	1	0	0	17
SW	0	1	1	2	3	1	3	9	1	0	0	21
WSW	0	0	1	0	3	2	0	3	1	0	0	10
W	0	0	2	1	5	40	29	10	1	0	0	88
WNW	0	1	0	2	6	13	30	26	7	0	0	85
NW	0	0	0	0	6	14	20	20	11	5	0	76
NNW	0	2	2	2	12	29	21	20	2	0	0	90
Tot	0	7	18	17	87	171	177	158	91	24	5	755

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 755
Hours of Missing Data 78
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	1	2	2	1	1	0	0	0	0	7
NNE	0	0	1	2	1	1	0	0	0	0	0	5
NE	0	0	1	0	0	0	0	0	0	0	0	1
ENE	0	0	0	1	0	1	0	0	0	0	0	2
E	0	0	0	1	3	1	1	0	0	0	0	6
ESE	0	1	0	1	0	2	0	4	3	0	0	11
SE	0	0	0	0	2	5	1	0	1	0	0	9
SSE	0	0	0	0	0	0	2	1	0	0	0	3
S	0	0	0	0	0	0	1	1	2	0	0	4
SSW	0	0	0	0	0	1	3	2	0	0	0	6
SW	0	0	1	0	1	1	4	0	0	0	0	7
WSW	0	0	0	2	4	2	1	0	0	0	0	9
W	0	1	0	0	5	5	1	0	0	0	0	12
WNW	0	0	0	1	3	4	1	0	0	0	0	9
NW	0	0	0	0	3	1	3	0	1	0	0	8
NNW	0	0	0	1	1	4	0	0	0	0	0	6
Tot	0	2	4	11	25	29	19	8	7	0	0	105

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 105
Hours of Missing Data 78
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	0	0	2	0	0	0	0	0	0	3
NNE	0	0	1	0	0	0	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	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	1	0	0	0	1
SE	0	0	0	0	0	1	2	0	0	0	0	3
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	1	0	0	0	1
SSW	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	1	5	0	0	0	6
WSW	0	1	0	0	0	0	0	1	0	0	0	2
W	0	0	0	0	0	1	1	0	0	0	0	2
WNW	0	0	0	0	0	3	0	0	0	0	0	3
NW	0	0	0	0	0	2	2	0	0	0	0	4
NNW	0	0	1	2	0	1	2	0	0	0	0	6
Tot	0	2	3	2	2	8	8	8	0	0	0	33

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 33
Hours of Missing Data 78
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	2	3	0	16	18	25	25	32	4	0	125
NNE	0	0	2	2	11	14	18	29	43	42	36	197
NE	0	1	2	4	12	12	11	19	52	23	9	145
ENE	0	1	3	3	14	16	14	9	4	0	0	64
E	0	2	2	4	13	9	23	20	27	8	0	108
ESE	0	0	0	2	7	12	15	19	23	17	2	97
SE	0	1	4	1	7	12	17	9	28	16	3	98
SSE	0	0	3	0	3	5	9	14	10	7	3	54
S	0	0	1	2	2	3	3	1	23	17	8	60
SSW	0	0	1	4	8	5	2	0	30	14	0	64
SW	0	1	1	5	8	8	8	13	22	10	1	77
WSW	0	2	1	5	11	7	4	2	23	5	1	61
W	0	2	3	5	17	17	30	37	58	22	11	202
WNW	0	1	2	8	17	23	26	63	83	19	0	242
NW	0	0	2	7	9	21	23	38	105	21	3	229
NNW	0	0	3	1	9	15	18	38	65	22	10	181
Tot	0	13	33	53	164	197	246	336	628	247	87	2004

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 2004
Hours of Missing Data 156
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	1	0	0	0	0	0	3
NNE	0	0	0	0	1	0	0	0	1	0	0	2
NE	0	0	0	1	0	1	0	0	1	0	0	3
ENE	0	0	0	0	1	1	0	0	0	0	0	2
E	0	0	0	0	0	0	1	0	0	0	0	1
ESE	0	0	0	0	0	0	0	0	1	0	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	2	2	1	5
SSW	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	1	0	0	1
WSW	0	0	0	0	0	0	0	0	0	1	0	1
W	0	0	0	0	0	0	0	0	4	0	0	4
WNW	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	1	0	0	1
NNW	0	0	0	0	1	0	0	0	0	0	0	1
Tot	0	0	0	1	5	3	1	0	11	3	1	25

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 25
Hours of Missing Data 156
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	2	0	0	1	1	0	0	4
NNE	0	0	0	0	0	0	0	0	2	1	1	4
NE	0	0	0	0	1	0	0	0	1	0	0	3
ENE	0	0	0	0	2	1	0	0	0	0	0	3
E	0	0	0	2	1	2	0	0	0	0	0	5
ESE	0	0	0	0	1	0	0	2	1	0	0	4
SE	0	0	0	0	1	0	0	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	2	1	1	4
SSW	0	0	0	0	0	0	1	0	0	1	0	2
SW	0	0	0	0	1	1	1	0	0	0	0	3
WSW	0	0	0	0	0	1	0	0	0	1	0	2
W	0	0	0	1	0	0	0	1	2	0	0	4
WNW	0	0	0	0	0	1	0	1	2	0	0	4
NW	0	0	0	0	0	0	1	0	0	0	0	1
NNW	0	0	0	0	2	1	0	0	0	0	0	3
Tot	0	0	0	3	11	7	3	5	11	5	2	47

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 47
Hours of Missing Data 156
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	2	0	1	0	0	0	0	3
NNE	0	0	0	0	1	0	0	1	3	1	1	7
NE	0	0	0	0	1	1	0	1	5	0	0	8
ENE	0	0	0	1	1	0	1	0	0	0	0	3
E	0	0	0	0	2	0	2	1	0	0	0	5
ESE	0	0	0	0	0	0	2	1	1	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	0	0	0
S	0	0	0	0	1	0	0	0	2	2	0	5
SSW	0	0	0	0	1	0	0	0	1	1	0	3
SW	0	0	0	0	0	0	0	1	1	1	0	3
WSW	0	0	0	0	1	0	0	0	0	1	0	2
W	0	0	0	0	1	3	4	3	1	0	0	12
WNW	0	0	0	1	2	2	3	5	3	2	0	18
NW	0	0	0	0	0	1	0	0	5	3	0	9
NNW	0	0	0	0	1	0	0	1	0	0	0	2
Tot	0	0	0	2	14	7	13	15	22	11	1	85

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 85
Hours of Missing Data 156
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	0	8	12	10	15	12	0	0	58
NNE	0	0	1	1	4	6	9	17	26	37	34	135
NE	0	0	1	1	6	6	10	12	31	22	9	98
ENE	0	0	2	0	6	9	9	8	1	0	0	35
E	0	1	2	1	3	7	14	12	19	8	0	67
ESE	0	0	0	1	5	7	11	13	12	4	1	54
SE	0	1	3	1	4	10	11	4	6	8	3	51
SSE	0	0	2	0	0	3	5	4	4	3	3	24
S	0	0	1	2	0	3	1	1	2	5	4	19
SSW	0	0	0	2	7	3	1	0	11	4	0	28
SW	0	1	1	2	3	4	5	10	14	9	1	50
WSW	0	1	0	2	5	5	3	2	10	2	1	31
W	0	1	1	4	14	14	16	22	35	22	11	140
WNW	0	1	1	6	10	14	9	21	40	15	0	117
NW	0	0	2	6	7	10	11	16	61	9	3	125
NNW	0	0	2	1	3	11	10	22	42	11	10	112
Tot	0	6	20	30	85	124	135	179	326	159	80	1144

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 1144
Hours of Missing Data 156
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	2	2	0	2	4	10	4	10	3	0	37
NNE	0	0	0	1	4	5	5	10	11	3	0	39
NE	0	0	1	1	1	3	1	6	14	0	0	27
ENE	0	0	1	1	4	5	3	1	3	0	0	18
E	0	1	0	0	5	0	5	6	7	0	0	24
ESE	0	0	0	1	1	2	2	2	5	13	1	27
SE	0	0	1	0	2	2	4	1	15	5	0	30
SSE	0	0	1	0	3	2	4	5	3	4	0	22
S	0	0	0	0	1	0	2	0	12	7	2	24
SSW	0	0	1	2	0	2	0	0	15	4	0	24
SW	0	0	0	3	4	3	1	2	2	0	0	15
WSW	0	1	1	3	5	0	1	0	2	0	0	13
W	0	1	2	0	2	0	7	10	14	0	0	36
WNW	0	0	0	0	3	1	8	26	35	2	0	75
NW	0	0	0	1	1	5	4	15	31	7	0	64
NNW	0	0	1	0	2	1	6	11	22	10	0	53
Tot	0	5	11	13	40	35	63	99	201	58	3	528

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 528
Hours of Missing Data 156
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	3	5	9	1	0	19
NNE	0	0	1	0	0	0	2	1	0	0	0	4
NE	0	1	0	0	2	0	0	0	0	0	0	3
ENE	0	1	0	1	0	0	1	0	0	0	0	3
E	0	0	0	1	2	0	1	1	1	0	0	6
ESE	0	0	0	0	0	3	0	1	3	0	0	7
SE	0	0	0	0	0	0	2	3	7	3	0	15
SSE	0	0	0	0	0	0	0	5	3	0	0	8
S	0	0	0	0	0	0	0	0	3	0	0	3
SSW	0	0	0	0	0	0	0	0	3	4	0	7
SW	0	0	0	0	0	0	1	0	4	0	0	5
WSW	0	0	0	0	0	1	0	0	8	0	0	9
W	0	0	0	0	0	0	3	1	1	0	0	5
WNW	0	0	1	1	2	5	6	9	3	0	0	27
NW	0	0	0	0	1	5	5	5	1	2	0	19
NNW	0	0	0	0	0	2	2	2	1	1	0	8
Tot	0	2	2	3	7	17	26	33	47	11	0	148

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 148
Hours of Missing Data 156
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2010

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	1	0	0	0	0	1
NNE	0	0	0	0	1	3	2	0	0	0	0	6
NE	0	0	0	1	1	1	0	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	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	3	0	0	3
W	0	0	0	0	0	0	0	0	1	0	0	1
WNW	0	0	0	0	0	0	0	1	0	0	0	1
NW	0	0	0	0	0	0	2	2	6	0	0	10
NNW	0	0	0	0	0	0	0	2	0	0	0	2
Tot	0	0	0	1	2	4	5	5	10	0	0	27

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 27
Hours of Missing Data 156
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	2	10	15	35	12	7	5	4	0	0	90
NNE	0	3	15	14	22	32	8	11	16	1	0	122
NE	0	4	12	18	45	39	26	13	6	0	0	163
ENE	0	4	13	20	66	29	17	1	0	0	0	150
E	0	5	9	25	49	43	22	12	2	0	0	167
ESE	0	4	7	11	15	24	23	24	17	6	0	131
SE	0	3	6	9	29	28	21	15	13	0	0	124
SSE	0	10	2	16	42	45	24	9	4	2	0	154
S	0	6	8	8	39	33	16	16	30	18	15	189
SSW	0	2	10	11	37	21	12	15	14	14	3	139
SW	0	7	15	20	42	13	15	9	7	8	1	137
WSW	0	9	10	14	26	24	21	8	14	2	0	128
W	0	10	5	17	22	25	18	20	12	6	1	136
WNW	0	5	12	14	33	32	24	16	8	1	0	145
NW	0	9	16	13	24	12	5	8	15	0	0	102
NNW	0	2	8	9	23	21	12	13	11	0	0	99
Tot	0	85	158	234	549	433	271	195	173	58	20	2176

Hours of Calm	6
Hours of Variable Direction	0
Hours of Valid Data	2182
Hours of Missing Data	2
Hours in Period	2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	1	4	4	0	0	0	0	0	9
NNE	0	0	1	1	0	7	0	5	4	0	0	18
NE	0	0	2	0	8	7	6	7	0	0	0	30
ENE	0	0	0	2	7	5	7	0	0	0	0	21
E	0	0	0	5	3	3	4	0	0	0	0	15
ESE	0	0	1	2	0	0	1	0	1	0	0	5
SE	0	0	0	1	0	2	2	3	3	0	0	11
SSE	0	0	0	1	1	2	1	0	0	0	0	5
S	0	0	0	3	6	2	1	0	3	0	0	15
SSW	0	0	0	1	0	1	3	0	0	0	0	5
SW	0	0	0	2	2	0	1	3	3	4	0	15
WSW	0	0	0	2	3	2	9	4	6	2	0	28
W	0	0	0	3	3	1	1	3	5	0	0	16
WNW	0	0	0	0	3	0	8	4	2	0	0	17
NW	0	0	0	1	6	1	0	1	3	0	0	12
NNW	0	0	1	0	4	2	1	1	4	0	0	13
Tot	0	0	5	25	50	39	45	31	34	6	0	235

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 235
Hours of Missing Data 2
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	0	3	0	0	1	1	0	0	5
NNE	0	0	1	0	3	1	0	1	0	0	0	6
NE	0	0	0	0	0	3	0	1	0	0	0	4
ENE	0	0	1	0	3	3	0	0	0	0	0	7
E	0	0	0	1	0	4	0	0	0	0	0	5
ESE	0	0	0	0	0	2	0	1	0	0	0	3
SE	0	0	0	1	2	0	1	0	1	0	0	5
SSE	0	0	0	0	0	6	4	0	0	0	0	10
S	0	0	0	1	0	3	1	0	0	1	0	6
SSW	0	0	0	0	0	0	1	0	1	1	0	3
SW	0	0	1	1	1	1	0	0	0	1	1	6
WSW	0	0	0	0	0	3	2	0	1	0	0	6
W	0	0	0	0	0	0	0	4	0	0	0	4
WNW	0	0	0	0	1	4	4	4	0	0	0	13
NW	0	0	0	1	1	0	0	0	1	0	0	3
NNW	0	0	0	0	0	0	0	0	1	0	0	1
Tot	0	0	3	5	14	30	13	12	6	3	1	87

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 87
Hours of Missing Data 2
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	1	2	2	0	0	0	0	0	0	5
NNE	0	0	1	0	0	2	1	0	0	0	0	4
NE	0	0	0	1	0	2	2	1	0	0	0	6
ENE	0	0	0	0	2	2	1	0	0	0	0	5
E	0	0	0	1	1	3	0	1	0	0	0	6
ESE	0	0	0	0	1	0	2	0	4	0	0	7
SE	0	0	0	0	0	0	1	0	0	0	0	1
SSE	0	0	0	0	1	4	1	0	0	0	0	6
S	0	0	0	1	1	2	1	1	0	0	0	6
SSW	0	0	0	0	0	1	1	0	0	0	0	2
SW	0	0	1	1	0	0	0	1	0	0	0	3
WSW	0	0	1	0	3	0	2	0	1	0	0	7
W	0	0	0	1	0	1	3	2	1	0	0	8
WNW	0	0	0	0	0	2	1	1	0	0	0	4
NW	0	0	1	1	1	0	0	0	3	0	0	6
NNW	0	0	0	0	1	1	1	0	1	0	0	4
Tot	0	0	5	8	13	20	17	7	10	0	0	80

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 80
Hours of Missing Data 2
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	0	1	1	4	2	1	1	3	0	0	13
NNE	0	1	5	1	8	12	5	3	12	1	0	48
NE	0	0	4	5	19	15	11	3	5	0	0	62
ENE	0	1	6	4	24	13	6	0	0	0	0	54
E	0	0	2	3	16	11	11	5	0	0	0	48
ESE	0	1	2	2	5	7	8	7	4	1	0	37
SE	0	1	1	2	12	8	5	3	5	0	0	37
SSE	0	1	0	4	11	7	12	2	4	2	0	43
S	0	0	2	0	6	8	5	5	8	7	11	52
SSW	0	0	2	1	7	7	3	10	7	10	0	47
SW	0	0	1	1	9	4	5	2	1	3	0	26
WSW	0	2	2	3	8	9	6	2	5	0	0	37
W	0	0	2	6	5	10	6	6	4	4	1	44
WNW	0	0	1	0	7	10	5	7	6	1	0	37
NW	0	1	1	0	3	3	0	7	8	0	0	23
NNW	0	1	0	1	5	9	5	7	3	0	0	31
Tot	0	9	32	34	149	135	94	70	75	29	12	639

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 639
Hours of Missing Data 2
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	1	4	9	18	5	5	3	0	0	0	45
NNE	0	2	6	11	11	10	2	2	0	0	0	44
NE	0	0	5	11	18	12	7	1	1	0	0	55
ENE	0	1	6	14	30	6	3	1	0	0	0	61
E	0	3	3	14	28	22	7	6	2	0	0	85
ESE	0	3	3	4	7	12	12	16	8	5	0	70
SE	0	0	2	5	10	15	12	9	4	0	0	57
SSE	0	1	0	10	26	26	6	7	0	0	0	76
S	0	2	5	3	21	15	8	10	19	10	4	97
SSW	0	1	3	4	19	11	4	5	6	3	3	59
SW	0	3	1	6	12	7	9	3	3	0	0	44
WSW	0	1	3	5	5	10	2	2	1	0	0	29
W	0	1	1	4	13	13	8	5	2	2	0	49
WNW	0	2	1	7	21	16	6	0	0	0	0	53
NW	0	4	7	3	10	8	4	0	0	0	0	36
NNW	0	0	5	3	10	7	5	5	2	0	0	37
Tot	0	25	55	113	259	195	100	75	48	20	7	897

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 898
Hours of Missing Data 2
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	2	4	1	1	0	0	0	0	12
NNE	0	0	1	1	0	0	0	0	0	0	0	2
NE	0	4	1	1	0	0	0	0	0	0	0	6
ENE	0	2	0	0	0	0	0	0	0	0	0	2
E	0	2	4	1	1	0	0	0	0	0	0	8
ESE	0	0	1	2	1	3	0	0	0	0	0	7
SE	0	2	2	0	5	2	0	0	0	0	0	11
SSE	0	4	2	1	3	0	0	0	0	0	0	10
S	0	2	1	0	5	3	0	0	0	0	0	11
SSW	0	1	4	5	9	1	0	0	0	0	0	20
SW	0	3	9	8	10	1	0	0	0	0	0	31
WSW	0	4	2	3	6	0	0	0	0	0	0	15
W	0	4	2	2	1	0	0	0	0	0	0	9
WNW	0	1	7	4	1	0	0	0	0	0	0	13
NW	0	1	5	6	3	0	1	0	0	0	0	16
NNW	0	1	2	4	2	2	0	0	0	0	0	11
Tot	0	32	46	40	51	13	2	0	0	0	0	184

Hours of Calm 4
Hours of Variable Direction 0
Hours of Valid Data 188
Hours of Missing Data 2
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	1	0	0	0	0	0	0	0	0	1
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	1	1	0	0	0	0	0	0	2
SE	0	0	1	0	0	1	0	0	0	0	0	2
SSE	0	4	0	0	0	0	0	0	0	0	0	4
S	0	2	0	0	0	0	0	0	0	0	0	2
SSW	0	0	1	0	2	0	0	0	0	0	0	3
SW	0	1	2	1	8	0	0	0	0	0	0	12
WSW	0	2	2	1	1	0	0	0	0	0	0	6
W	0	5	0	1	0	0	0	0	0	0	0	6
WNW	0	2	3	3	0	0	0	0	0	0	0	8
NW	0	3	2	1	0	0	0	0	0	0	0	6
NNW	0	0	0	1	1	0	0	0	0	0	0	2
Tot	0	19	12	9	13	1	0	0	0	0	0	54

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 55
Hours of Missing Data 2
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	2	5	5	15	23	12	10	10	7	0	89
NNE	0	2	2	6	24	36	27	13	20	8	1	139
NE	0	3	8	16	43	34	30	16	25	4	0	179
ENE	0	0	12	12	45	43	21	18	5	0	0	156
E	0	3	6	10	21	28	37	21	30	3	1	160
ESE	0	2	6	3	11	15	13	18	36	19	6	129
SE	0	0	2	2	20	14	31	29	21	8	1	128
SSE	0	2	1	5	21	25	45	26	17	4	4	150
S	0	1	5	4	13	22	31	19	28	26	40	189
SSW	0	1	3	1	12	26	32	23	21	11	15	145
SW	0	1	2	5	18	19	25	17	20	9	9	125
WSW	0	1	3	6	22	23	32	20	20	7	1	135
W	0	0	3	8	18	21	29	19	35	9	7	149
WNW	0	1	2	3	15	18	23	28	28	11	2	131
NW	0	1	7	0	20	18	18	12	15	11	0	102
NNW	0	0	0	4	9	18	12	9	18	6	0	76
Tot	0	20	67	90	327	383	418	298	349	143	87	2182

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 2183
Hours of Missing Data 1
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	2	4	2	0	0	0	0	8
NNE	0	0	0	0	1	3	5	0	10	0	0	19
NE	0	0	2	0	8	10	1	4	9	0	0	34
ENE	0	0	0	1	6	1	4	6	0	0	0	18
E	0	0	1	2	3	2	3	3	1	0	0	15
ESE	0	0	0	0	3	0	0	1	3	1	0	8
SE	0	0	0	0	1	2	2	0	2	1	0	8
SSE	0	0	0	0	0	2	1	1	0	0	0	4
S	0	0	0	0	5	3	2	0	1	2	0	13
SSW	0	0	0	0	0	1	3	2	1	0	0	7
SW	0	0	0	2	3	0	0	1	2	4	6	18
WSW	0	0	0	1	5	1	6	3	9	1	1	27
W	0	0	0	0	3	0	1	2	5	3	0	14
WNW	0	0	0	1	2	0	2	4	7	5	0	21
NW	0	0	0	0	4	4	0	0	0	0	0	8
NNW	0	0	0	1	2	3	1	1	2	3	0	13
Tot	0	0	3	8	48	36	33	28	52	20	7	235

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 235
Hours of Missing Data 1
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	1	1	0	4
NNE	0	0	0	1	2	2	1	0	2	0	0	8
NE	0	0	0	1	1	1	1	0	0	0	0	4
ENE	0	0	0	0	2	2	2	0	0	0	0	6
E	0	0	0	0	1	1	3	0	0	0	0	5
ESE	0	0	0	0	0	0	2	0	1	0	0	3
SE	0	0	0	0	3	0	0	1	1	0	0	5
SSE	0	0	0	0	0	2	7	2	0	0	0	11
S	0	0	0	1	0	2	1	0	0	0	1	5
SSW	0	0	1	0	0	0	1	1	0	1	2	6
SW	0	0	0	1	0	1	0	1	0	0	1	4
WSW	0	0	0	0	0	1	2	1	1	0	0	5
W	0	0	0	0	0	0	1	0	6	0	0	7
WNW	0	0	0	0	0	2	1	3	4	0	0	10
NW	0	0	0	0	0	1	0	0	0	1	0	2
NNW	0	0	0	1	0	0	0	0	1	0	0	2
Tot	0	0	1	5	10	16	22	9	17	3	4	87

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 87
Hours of Missing Data 1
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	1	1	1	0	0	0	0	0	4
NNE	0	0	1	0	0	1	1	1	0	0	0	4
NE	0	0	0	0	0	1	3	1	2	0	0	7
ENE	0	0	0	1	1	1	1	1	0	0	0	5
E	0	0	0	0	1	0	3	0	1	0	0	5
ESE	0	0	0	0	1	0	0	1	1	3	0	6
SE	0	0	0	1	1	0	1	0	0	0	0	3
SSE	0	0	0	0	1	1	3	1	0	0	0	6
S	0	0	0	0	1	1	1	2	0	0	0	5
SSW	0	0	1	0	0	0	2	0	1	0	0	4
SW	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	1	0	3	1	1	1	1	2	0	10
W	0	0	0	0	1	0	1	1	4	0	0	7
WNW	0	0	0	1	0	0	1	1	1	0	0	4
NW	0	0	0	0	0	1	1	0	0	3	0	5
NNW	0	0	0	1	2	0	1	1	0	1	0	6
Tot	0	0	4	5	13	8	20	11	11	9	0	81

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 81
Hours of Missing Data 1
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	2	2	2	2	2	1	2	2	5	0	20
NNE	0	0	0	2	3	13	8	5	5	8	1	45
NE	0	1	4	5	13	10	14	7	9	3	0	66
ENE	0	0	6	2	11	17	6	7	4	0	0	53
E	0	0	0	3	7	10	7	5	13	0	0	45
ESE	0	0	0	2	3	6	3	7	10	3	1	35
SE	0	0	1	0	9	7	9	2	6	3	0	37
SSE	0	1	1	2	9	6	12	6	2	4	4	47
S	0	0	3	0	1	5	6	3	8	7	17	50
SSW	0	0	1	1	3	5	4	3	12	4	10	43
SW	0	0	1	1	6	8	3	7	2	1	2	31
WSW	0	0	1	3	5	5	6	4	6	4	0	34
W	0	0	1	2	7	4	10	4	12	3	5	48
WNW	0	0	0	0	1	4	6	3	10	6	2	32
NW	0	1	1	0	2	3	3	2	11	7	0	30
NNW	0	0	0	1	2	4	7	2	6	1	0	23
Tot	0	5	22	26	84	109	105	69	118	59	42	639

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 639
Hours of Missing Data 1
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	1	5	15	8	5	6	1	0	42
NNE	0	0	1	2	13	11	10	7	3	0	0	47
NE	0	0	1	8	19	12	11	4	5	1	0	61
ENE	0	0	5	8	25	22	8	4	1	0	0	73
E	0	2	4	3	8	15	21	13	15	3	1	85
ESE	0	0	3	0	2	7	8	9	21	12	5	67
SE	0	0	1	1	5	4	14	20	12	4	1	62
SSE	0	0	0	1	8	11	21	15	15	0	0	71
S	0	0	0	0	3	9	19	11	18	17	22	99
SSW	0	1	0	0	8	12	13	10	6	6	3	59
SW	0	1	1	1	4	4	9	5	12	4	0	41
WSW	0	1	0	0	6	5	8	8	3	0	0	31
W	0	0	1	1	2	10	14	10	8	3	2	51
WNW	0	1	1	0	4	11	10	17	6	0	0	50
NW	0	0	4	0	8	6	7	9	3	0	0	37
NNW	0	0	0	0	2	4	3	3	9	1	0	22
Tot	0	6	23	26	122	158	184	150	143	52	34	898

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 898
Hours of Missing Data 1
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	1	1	4	0	1	3	1	0	0	11
NNE	0	1	0	1	5	5	2	0	0	0	0	14
NE	0	1	1	2	2	0	0	0	0	0	0	6
ENE	0	0	1	0	0	0	0	0	0	0	0	1
E	0	1	1	1	1	0	0	0	0	0	0	4
ESE	0	2	2	1	2	1	0	0	0	0	0	8
SE	0	0	0	0	1	1	5	4	0	0	0	11
SSE	0	1	0	2	1	2	1	1	0	0	0	8
S	0	0	1	3	3	2	2	3	1	0	0	15
SSW	0	0	0	0	1	8	9	7	1	0	0	26
SW	0	0	0	0	3	4	13	1	1	0	0	22
WSW	0	0	1	1	2	3	5	3	0	0	0	15
W	0	0	1	3	3	5	1	1	0	0	0	14
WNW	0	0	1	1	5	0	1	0	0	0	0	8
NW	0	0	2	0	3	3	7	1	1	0	0	17
NNW	0	0	0	0	1	5	0	1	0	0	0	7
Tot	0	6	12	16	37	39	47	25	5	0	0	187

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 188
Hours of Missing Data 1
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	1	0	0	0	1	0	0	0	0	0	2
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	1	0	0	0	0	0	0	0	1
ESE	0	0	1	0	0	1	0	0	0	0	0	2
SE	0	0	0	0	0	0	0	2	0	0	0	2
SSE	0	0	0	0	2	1	0	0	0	0	0	3
S	0	1	1	0	0	0	0	0	0	0	0	2
SSW	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	2	2	0	2	3	0	0	9
WSW	0	0	0	1	1	7	4	0	0	0	0	13
W	0	0	0	2	2	2	1	1	0	0	0	8
WNW	0	0	0	0	3	1	2	0	0	0	0	6
NW	0	0	0	0	3	0	0	0	0	0	0	3
NNW	0	0	0	0	0	2	0	1	0	0	0	3
Tot	0	3	2	4	13	17	7	6	3	0	0	55

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 55
Hours of Missing Data 1
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	3	3	6	14	8	11	19	9	2	75
NNE	0	2	1	6	7	12	34	18	33	12	6	131
NE	0	1	5	6	19	27	31	23	40	8	2	162
ENE	0	0	12	13	51	48	34	25	7	2	0	192
E	0	2	3	8	16	16	17	27	30	24	2	145
ESE	0	1	2	6	7	7	11	16	29	41	15	135
SE	0	0	1	3	12	8	11	15	38	17	3	108
SSE	0	1	1	2	19	19	28	21	44	14	5	154
S	0	0	4	2	11	13	16	13	41	33	55	188
SSW	0	2	3	1	9	7	21	16	44	17	26	146
SW	0	1	3	4	9	9	16	25	35	23	12	137
WSW	0	0	1	3	14	20	14	30	25	16	6	129
W	0	2	2	8	15	18	15	24	48	20	10	162
WNW	0	2	2	0	5	11	10	18	47	19	5	119
NW	0	1	3	1	8	16	13	10	26	18	3	99
NNW	0	0	2	3	10	11	15	12	18	15	1	87
Tot	0	15	48	69	218	256	294	304	524	288	153	2169

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 2169
Hours of Missing Data 15
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	3	0	0	0	0	4
NNE	0	0	0	0	0	1	3	1	1	1	0	7
NE	0	0	0	0	1	3	3	2	5	0	0	14
ENE	0	0	2	1	7	2	1	5	0	0	0	18
E	0	0	0	0	2	1	0	4	1	0	0	8
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	1	1	0	3	0	0	5
SSE	0	0	0	0	0	1	1	1	0	0	0	3
S	0	0	0	0	1	2	0	0	0	1	3	7
SSW	0	0	0	0	1	0	3	0	0	0	0	4
SW	0	0	0	0	0	0	0	0	0	1	1	2
WSW	0	0	0	0	2	1	0	2	4	2	1	12
W	0	0	0	1	0	0	1	1	1	1	0	5
WNW	0	0	0	0	0	0	0	3	4	2	0	9
NW	0	0	0	0	1	1	0	0	0	0	0	2
NNW	0	0	0	0	1	1	1	1	0	1	0	5
Tot	0	0	2	2	16	15	17	20	19	9	5	105

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 105
Hours of Missing Data 15
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	1	2	0	0	0	0	0	4
NNE	0	0	0	1	0	0	3	0	4	3	0	11
NE	0	0	0	0	0	5	0	0	6	0	0	11
ENE	0	0	1	2	3	0	1	3	0	0	0	10
E	0	0	0	0	1	1	3	0	0	0	0	5
ESE	0	0	0	0	1	0	0	0	0	2	0	3
SE	0	0	0	0	2	0	0	2	1	2	0	7
SSE	0	0	0	0	3	2	6	5	0	0	1	17
S	0	0	0	0	2	4	4	1	1	2	5	19
SSW	0	0	0	0	0	0	0	4	2	0	0	6
SW	0	0	0	1	1	0	0	0	2	2	5	11
WSW	0	0	0	1	2	1	3	3	3	2	1	16
W	0	0	0	0	2	0	0	1	1	5	0	9
WNW	0	0	0	0	1	1	1	3	2	3	0	11
NW	0	0	0	0	0	5	0	0	1	2	1	9
NNW	0	0	0	1	1	3	0	1	1	2	0	9
Tot	0	0	1	7	20	24	21	23	24	25	13	158

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 158
Hours of Missing Data 15
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	1	0	0	1	1	1	5
NNE	0	0	0	1	2	0	4	0	3	0	0	10
NE	0	0	0	2	3	1	1	1	3	0	0	11
ENE	0	0	0	0	4	1	5	0	0	0	0	10
E	0	0	0	1	1	2	3	2	0	1	0	10
ESE	0	0	0	0	0	1	2	2	2	3	0	10
SE	0	0	0	1	4	0	2	0	0	0	0	7
SSE	0	0	1	0	3	2	5	3	0	0	1	15
S	0	0	0	0	1	0	1	1	4	0	5	12
SSW	0	0	1	0	0	1	2	0	2	1	3	10
SW	0	0	2	1	1	0	1	1	0	0	2	8
WSW	0	0	0	1	2	1	2	3	1	3	1	14
W	0	0	0	0	3	0	0	1	3	2	0	9
WNW	0	0	0	0	0	4	2	3	3	3	0	15
NW	0	0	1	0	1	0	0	1	0	3	1	7
NNW	0	0	0	0	3	0	1	0	0	1	0	5
Tot	0	0	5	7	29	14	31	18	22	18	14	158
Hours of Calm					0							
Hours of Variable Direction					0							
Hours of Valid Data					158							
Hours of Missing Data					15							
Hours in Period					2184							

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	1	3	2	2	7	3	1	21
NNE	0	2	1	3	5	8	12	8	9	7	6	61
NE	0	1	5	2	7	8	19	14	19	7	1	83
ENE	0	0	4	4	21	29	17	12	6	1	0	94
E	0	0	2	3	7	5	5	9	13	18	2	64
ESE	0	0	2	4	3	2	6	2	16	25	12	72
SE	0	0	0	0	4	5	7	6	7	8	3	40
SSE	0	0	0	2	9	4	10	8	9	7	3	52
S	0	0	1	1	2	3	8	4	4	12	22	57
SSW	0	0	2	1	5	3	6	5	15	5	17	59
SW	0	1	0	1	5	6	5	4	8	7	3	40
WSW	0	0	1	1	7	9	3	7	7	7	3	45
W	0	1	2	3	6	8	6	9	13	11	10	69
WNW	0	1	0	0	1	3	4	5	20	8	5	47
NW	0	0	0	0	2	4	4	4	8	11	1	34
NNW	0	0	1	2	2	4	8	4	10	7	0	38
Tot	0	6	22	28	87	104	122	103	171	144	89	876
Hours of Calm												0
Hours of Variable Direction												0
Hours of Valid Data												876
Hours of Missing Data												15
Hours in Period												2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	1	1	3	1	6	10	3	0	26
NNE	0	0	0	0	0	3	10	7	13	0	0	33
NE	0	0	0	2	6	9	6	6	7	1	1	38
ENE	0	0	5	6	14	16	10	5	1	1	0	58
E	0	2	1	4	5	5	6	12	16	5	0	56
ESE	0	0	0	1	3	2	2	11	10	11	3	43
SE	0	0	1	2	1	2	1	5	25	6	0	43
SSE	0	0	0	0	2	5	5	4	32	7	0	55
S	0	0	2	0	4	2	2	5	29	17	20	81
SSW	0	2	0	0	2	2	7	7	23	3	5	51
SW	0	0	0	1	2	3	10	12	11	9	1	49
WSW	0	0	0	0	1	5	5	7	6	2	0	26
W	0	1	0	3	3	8	4	9	25	0	0	53
WNW	0	1	1	0	2	2	2	3	15	3	0	29
NW	0	0	1	1	2	5	6	5	11	2	0	33
NNW	0	0	1	0	1	2	2	2	4	3	1	16
Tot	0	6	13	21	49	74	79	106	238	73	31	690

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 690
Hours of Missing Data 15
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	2	4	2	3	1	2	0	15
NNE	0	0	0	1	0	0	1	1	2	0	0	5
NE	0	0	0	0	2	0	2	0	0	0	0	4
ENE	0	0	0	0	2	0	0	0	0	0	0	2
E	0	0	0	0	0	1	0	0	0	0	0	1
ESE	0	1	0	1	0	1	1	0	1	0	0	5
SE	0	0	0	0	1	0	0	2	2	0	0	5
SSE	0	1	0	0	2	5	1	0	3	0	0	12
S	0	0	1	1	1	2	1	1	3	0	0	10
SSW	0	0	0	0	1	1	3	0	2	7	1	15
SW	0	0	1	0	0	0	0	5	12	4	0	22
WSW	0	0	0	0	0	2	1	6	3	0	0	12
W	0	0	0	1	1	2	4	3	5	0	0	16
WNW	0	0	1	0	0	0	1	1	3	0	0	6
NW	0	1	1	0	0	0	3	0	6	0	0	11
NNW	0	0	0	0	2	0	2	4	3	1	0	12
Tot	0	3	5	4	14	18	22	26	46	14	1	153

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 153
Hours of Missing Data 15
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2010

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	1	1	1	1	0	4
NE	0	0	0	0	0	1	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	1	0	0	0	0	0	1
ESE	0	0	0	0	0	1	0	1	0	0	0	2
SE	0	0	0	0	0	0	0	0	0	1	0	1
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	1	0	1	0	2
SSW	0	0	0	0	0	0	0	0	0	1	0	1
SW	0	0	0	0	0	0	0	3	2	0	0	5
WSW	0	0	0	0	0	1	0	2	1	0	0	4
W	0	0	0	0	0	0	0	0	0	1	0	1
WNW	0	0	0	0	1	1	0	0	0	0	0	2
NW	0	0	0	0	2	1	0	0	0	0	0	3
NNW	0	0	0	0	0	1	1	0	0	0	0	2
Tot	0	0	0	0	3	7	2	8	4	5	0	29

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 29
Hours of Missing Data 15
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	7	10	7	27	10	3	3	4	0	0	71
NNE	0	3	14	6	31	13	7	3	1	0	0	78
NE	0	2	11	15	40	19	4	0	0	0	0	91
ENE	0	3	6	12	37	5	0	0	0	0	0	63
E	0	1	12	9	40	19	3	0	0	0	0	84
ESE	0	7	8	15	22	18	10	0	0	0	0	80
SE	0	14	8	19	33	19	11	1	0	0	0	105
SSE	0	7	18	26	69	42	15	3	1	0	0	181
S	0	13	29	27	55	57	47	27	23	0	0	278
SSW	0	16	50	24	44	36	25	15	24	11	1	246
SW	0	15	32	26	48	34	14	12	8	5	0	194
WSW	0	18	27	12	21	9	18	8	3	5	0	121
W	0	15	15	15	37	22	15	8	15	3	0	145
WNW	0	14	30	31	50	34	28	18	2	1	0	208
NW	0	2	21	22	39	25	16	2	1	0	0	128
NNW	0	5	19	26	25	27	11	5	3	0	0	121
Tot	0	142	310	292	618	389	227	105	85	25	1	2194

Hours of Calm 3
Hours of Variable Direction 1
Hours of Valid Data 2198
Hours of Missing Data 10
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	0	3	3	1	1	3	0	0	12
NNE	0	0	1	1	4	5	0	1	0	0	0	12
NE	0	0	1	2	9	6	2	0	0	0	0	20
ENE	0	0	0	2	9	1	0	0	0	0	0	12
E	0	0	1	1	2	3	1	0	0	0	0	8
ESE	0	0	1	4	3	3	3	0	0	0	0	14
SE	0	0	1	5	3	1	1	0	0	0	0	11
SSE	0	0	3	3	4	1	4	1	0	0	0	16
S	0	0	0	1	5	8	9	4	0	0	0	27
SSW	0	0	2	0	8	12	5	1	9	0	0	37
SW	0	0	1	2	8	11	6	4	4	0	0	36
WSW	0	0	1	2	5	2	3	3	0	5	0	21
W	0	0	1	2	4	6	6	0	6	2	0	27
WNW	0	0	1	3	8	15	15	9	0	0	0	51
NW	0	0	1	4	5	6	8	0	0	0	0	24
NNW	0	0	5	0	2	1	3	1	3	0	0	15
Tot	0	0	21	32	82	84	67	25	25	7	0	343

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 343
Hours of Missing Data 10
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	0	1	0	1	0	0	0	0	2
NNE	0	0	0	1	1	0	1	0	0	0	0	3
NE	0	0	0	0	2	0	0	0	0	0	0	2
ENE	0	0	0	0	2	0	0	0	0	0	0	2
E	0	0	0	0	1	2	0	0	0	0	0	3
ESE	0	0	0	1	1	0	2	0	0	0	0	4
SE	0	0	0	0	1	0	0	0	0	0	0	1
SSE	0	0	0	2	0	0	0	0	0	0	0	2
S	0	0	0	1	1	1	3	2	0	0	0	8
SSW	0	0	1	0	0	3	3	0	1	1	0	9
SW	0	0	1	1	0	3	3	0	0	0	0	8
WSW	0	0	1	1	1	0	1	2	0	0	0	6
W	0	0	1	0	2	1	0	0	1	0	0	5
WNW	0	1	4	1	4	0	1	3	0	0	0	14
NW	0	0	0	0	2	2	3	1	0	0	0	8
NNW	0	0	0	0	0	4	1	1	0	0	0	6
Tot	0	1	8	8	19	16	19	9	2	1	0	83

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 83
Hours of Missing Data 10
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	1	2	0	0	0	0	0	3
NNE	0	0	0	0	2	1	1	0	0	0	0	4
NE	0	0	0	0	1	0	1	0	0	0	0	2
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	1	0	0	1	0	0	0	0	2
ESE	0	0	0	0	0	1	0	0	0	0	0	1
SE	0	0	1	0	1	0	0	0	0	0	0	2
SSE	0	0	0	3	2	3	0	0	0	0	0	8
S	0	0	0	1	1	2	3	3	0	0	0	10
SSW	0	0	0	0	0	2	3	1	1	0	0	7
SW	0	0	0	0	0	2	1	0	0	0	0	3
WSW	0	1	0	1	5	1	1	1	2	0	0	12
W	0	0	0	0	3	1	0	0	2	1	0	7
WNW	0	0	2	2	4	1	1	1	0	0	0	11
NW	0	0	1	0	1	1	0	0	0	0	0	3
NNW	0	0	0	1	1	2	1	0	0	0	0	5
Tot	0	1	4	9	22	19	13	6	5	1	0	80

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 80
Hours of Missing Data 10
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	0	0	3	2	1	2	1	0	0	11
NNE	0	0	2	0	8	3	3	2	1	0	0	19
NE	0	0	3	0	8	9	1	0	0	0	0	21
ENE	0	1	0	2	6	0	0	0	0	0	0	9
E	0	1	2	0	5	4	1	0	0	0	0	13
ESE	0	0	0	3	1	2	2	0	0	0	0	8
SE	0	4	1	3	8	4	2	1	0	0	0	23
SSE	0	1	1	1	9	12	8	1	1	0	0	34
S	0	2	4	4	13	12	8	9	5	0	0	57
SSW	0	0	10	2	13	10	6	6	7	2	0	56
SW	0	1	3	2	8	7	1	5	0	3	0	30
WSW	0	1	2	3	7	3	3	2	1	0	0	22
W	0	0	3	5	10	5	0	4	6	0	0	33
WNW	0	2	3	4	11	0	7	2	1	1	0	31
NW	0	0	2	1	8	4	4	1	1	0	0	21
NNW	0	1	3	4	3	6	2	1	0	0	0	20
Tot	0	16	39	34	121	83	49	36	24	6	0	408
Hours of Calm												0
Hours of Variable Direction												0
Hours of Valid Data												408
Hours of Missing Data												10
Hours in Period												2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	2	5	5	18	3	0	0	0	0	0	33
NNE	0	2	7	3	14	4	2	0	0	0	0	32
NE	0	2	6	12	20	4	0	0	0	0	0	44
ENE	0	1	5	8	20	4	0	0	0	0	0	38
E	0	0	6	7	30	10	0	0	0	0	0	53
ESE	0	5	3	4	13	9	2	0	0	0	0	36
SE	0	5	3	9	13	11	8	0	0	0	0	49
SSE	0	3	8	10	33	25	3	1	0	0	0	83
S	0	5	9	8	23	31	24	9	18	0	0	127
SSW	0	4	12	12	21	8	8	6	6	8	1	86
SW	0	0	14	4	13	8	3	3	4	2	0	51
WSW	0	4	9	2	3	3	10	0	0	0	0	31
W	0	4	4	5	16	8	9	4	0	0	0	50
WNW	0	2	9	3	20	18	4	3	1	0	0	60
NW	0	1	6	10	16	12	1	0	0	0	0	46
NNW	0	1	3	11	15	13	4	2	0	0	0	49
Tot	0	41	109	113	288	171	78	28	29	10	1	868

Hours of Calm 2
Hours of Variable Direction 1
Hours of Valid Data 871
Hours of Missing Data 10
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	3	2	2	1	0	0	0	0	0	0	8
NNE	0	1	3	1	2	0	0	0	0	0	0	7
NE	0	0	0	1	0	0	0	0	0	0	0	1
ENE	0	1	1	0	0	0	0	0	0	0	0	2
E	0	0	2	0	2	0	0	0	0	0	0	4
ESE	0	2	4	3	4	3	1	0	0	0	0	17
SE	0	5	1	2	6	2	0	0	0	0	0	16
SSE	0	3	6	7	21	1	0	0	0	0	0	38
S	0	3	15	12	11	3	0	0	0	0	0	44
SSW	0	10	15	5	2	1	0	1	0	0	0	34
SW	0	8	6	10	11	2	0	0	0	0	0	37
WSW	0	9	12	1	0	0	0	0	0	0	0	22
W	0	9	6	3	2	1	0	0	0	0	0	21
WNW	0	7	10	17	3	0	0	0	0	0	0	37
NW	0	1	8	5	6	0	0	0	0	0	0	20
NNW	0	3	7	8	4	1	0	0	0	0	0	23
Tot	0	65	98	77	75	14	1	1	0	0	0	331

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 332
Hours of Missing Data 10
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	2	0	0	0	0	0	0	0	0	2
NNE	0	0	1	0	0	0	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	0	0	0	0	0	0
E	0	0	1	0	0	0	0	0	0	0	0	1
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	1	0	1	1	0	0	0	0	0	3
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	3	1	0	1	0	0	0	0	0	0	5
SSW	0	2	10	5	0	0	0	0	0	0	0	17
SW	0	6	7	7	8	1	0	0	0	0	0	29
WSW	0	3	2	2	0	0	0	0	0	0	0	7
W	0	2	0	0	0	0	0	0	0	0	0	2
WNW	0	2	1	1	0	0	0	0	0	0	0	4
NW	0	0	3	2	1	0	0	0	0	0	0	6
NNW	0	0	1	2	0	0	0	0	0	0	0	3
Tot	0	18	31	19	11	2	0	0	0	0	0	81

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 81
Hours of Missing Data 10
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	22	23	19	4	6	3	0	86
NNE	0	0	1	5	23	25	16	5	6	0	0	81
NE	0	2	2	11	23	35	14	2	1	0	0	90
ENE	0	6	5	6	33	23	7	1	0	0	0	81
E	0	1	3	5	10	24	27	12	1	0	0	83
ESE	0	2	6	11	21	12	15	21	2	0	0	90
SE	0	7	5	10	26	31	22	22	7	0	0	130
SSE	0	2	2	10	33	36	43	30	14	1	0	171
S	0	3	4	8	34	38	57	65	47	17	6	279
SSW	0	1	12	10	33	53	35	18	31	19	12	224
SW	0	3	9	11	26	27	40	20	19	6	7	168
WSW	0	4	6	9	33	21	16	8	20	1	7	125
W	0	2	7	12	35	33	23	16	17	12	6	163
WNW	0	1	13	11	30	40	27	36	28	6	1	193
NW	0	1	6	11	26	31	35	16	9	3	0	138
NNW	0	1	8	8	13	18	21	14	11	1	0	95
Tot	0	37	93	142	421	470	417	290	219	69	39	2197

Hours of Calm	1
Hours of Variable Direction	0
Hours of Valid Data	2198
Hours of Missing Data	10
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 2010

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	1	0	0	6	1	1	3	2	0	14
NNE	0	0	0	2	1	4	3	0	2	0	0	12
NE	0	0	0	0	5	12	1	1	0	0	0	19
ENE	0	0	2	1	7	4	0	0	0	0	0	14
E	0	0	0	0	4	1	0	3	0	0	0	8
ESE	0	0	1	3	3	2	2	3	0	0	0	14
SE	0	0	0	2	4	4	0	1	0	0	0	11
SSE	0	0	1	3	3	1	1	4	1	0	0	14
S	0	0	1	0	2	6	11	6	5	0	0	31
SSW	0	0	1	1	5	10	6	4	4	6	0	37
SW	0	0	1	1	5	3	13	3	4	4	0	34
WSW	0	0	1	1	5	1	2	2	4	0	5	21
W	0	0	0	2	2	4	5	4	2	5	3	27
WNW	0	0	0	3	5	12	8	12	11	1	0	52
NW	0	0	2	4	2	3	5	6	2	1	0	25
NNW	0	0	2	0	2	0	1	3	1	1	0	10
Tot	0	0	13	23	55	73	59	53	39	20	8	343

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 343
Hours of Missing Data 10
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	0	0	1	0	0	0	2
NNE	0	0	0	0	1	2	0	1	0	0	0	4
NE	0	0	0	0	0	1	0	0	0	0	0	1
ENE	0	0	0	0	1	1	0	0	0	0	0	2
E	0	0	0	0	0	1	2	0	0	0	0	3
ESE	0	0	0	1	1	0	1	1	0	0	0	4
SE	0	0	0	0	2	1	0	0	0	0	0	3
SSE	0	0	0	0	1	0	0	0	0	0	0	1
S	0	0	0	0	1	0	1	2	3	0	0	7
SSW	0	0	1	0	0	1	2	3	0	1	1	9
SW	0	0	1	1	0	1	2	3	0	0	0	8
WSW	0	1	1	0	2	0	1	0	2	0	0	7
W	0	0	2	1	1	1	0	0	1	0	0	6
WNW	0	0	1	1	3	2	1	1	3	0	0	12
NW	0	0	0	0	0	3	2	3	1	0	0	9
NNW	0	0	0	0	0	2	1	0	2	0	0	5
Tot	0	1	6	4	14	16	13	15	12	1	1	83
Hours of Calm												0
Hours of Variable Direction												0
Hours of Valid Data												83
Hours of Missing Data												10
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 2010

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	2	1	0	0	0	0	3
NNE	0	0	0	0	1	0	1	1	0	0	0	3
NE	0	0	0	0	1	0	0	0	1	0	0	2
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	1	0	0	0	1	0	0	0	2
ESE	0	0	0	0	0	0	1	0	0	0	0	1
SE	0	1	0	0	1	1	0	0	0	0	0	3
SSE	0	0	0	1	1	2	1	0	0	0	0	5
S	0	0	0	1	1	3	1	4	2	0	0	12
SSW	0	0	0	1	0	0	3	1	2	0	0	7
SW	0	0	0	0	0	1	1	1	0	0	0	3
WSW	0	1	0	0	2	4	1	1	1	1	1	12
W	0	0	1	0	1	3	0	0	0	2	1	8
WNW	0	0	1	2	2	3	1	1	1	0	0	11
NW	0	0	0	0	1	0	1	0	0	0	0	2
NNW	0	0	0	1	0	1	3	0	1	0	0	6
Tot	0	2	2	7	11	20	15	10	8	3	2	80

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 80
Hours of Missing Data 10
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 2010

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	0	3	0	2	1	2	1	0	10
NNE	0	0	1	1	5	4	3	2	4	0	0	20
NE	0	0	2	0	2	7	7	1	0	0	0	19
ENE	0	2	1	0	4	5	1	0	0	0	0	13
E	0	1	0	1	1	3	3	1	1	0	0	11
ESE	0	1	0	1	5	0	1	2	0	0	0	10
SE	0	3	1	0	6	6	4	1	2	0	0	23
SSE	0	1	0	1	8	12	8	5	5	1	0	41
S	0	1	0	5	6	8	10	7	9	3	0	49
SSW	0	0	8	3	5	11	7	5	10	4	2	55
SW	0	1	2	1	4	6	5	3	5	0	3	30
WSW	0	0	2	3	7	2	3	0	5	0	1	23
W	0	1	0	2	7	5	5	0	4	4	2	30
WNW	0	0	3	2	6	11	0	3	6	2	1	34
NW	0	0	2	0	4	4	4	1	4	2	0	21
NNW	0	1	3	3	3	3	4	0	2	0	0	19
Tot	0	12	26	23	76	87	67	32	59	17	9	408

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 408
Hours of Missing Data 10
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 2010

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	1	1	2	11	9	8	1	1	0	0	34
NNE	0	0	0	2	8	11	8	1	0	0	0	30
NE	0	1	0	7	11	14	6	0	0	0	0	39
ENE	0	1	1	4	20	13	6	1	0	0	0	46
E	0	0	1	2	3	17	21	7	0	0	0	51
ESE	0	0	3	5	10	8	8	11	1	0	0	46
SE	0	1	3	4	8	14	11	15	4	0	0	60
SSE	0	1	1	5	15	8	24	13	8	0	0	75
S	0	2	2	1	10	13	23	37	28	14	6	136
SSW	0	1	2	4	9	22	11	3	15	7	9	83
SW	0	1	2	4	6	10	7	9	4	2	4	49
WSW	0	0	1	2	5	2	1	3	8	0	0	22
W	0	1	0	1	4	11	11	11	10	1	0	50
WNW	0	1	5	2	8	6	13	17	7	3	0	62
NW	0	0	2	2	11	10	11	6	2	0	0	44
NNW	0	0	1	2	5	9	11	11	5	0	0	44
Tot	0	11	25	49	144	177	180	146	93	27	19	871

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 871
Hours of Missing Data 10
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 2010

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	1	0	6	5	6	0	0	0	0	18
NNE	0	0	0	0	5	2	1	0	0	0	0	8
NE	0	1	0	2	3	1	0	0	0	0	0	7
ENE	0	3	1	1	1	0	0	0	0	0	0	6
E	0	0	2	1	2	2	1	0	0	0	0	8
ESE	0	1	2	1	2	2	2	4	1	0	0	15
SE	0	2	1	4	4	5	6	4	1	0	0	27
SSE	0	0	0	0	5	13	9	8	0	0	0	35
S	0	0	1	1	13	8	11	8	0	0	0	42
SSW	0	0	0	1	13	6	3	2	0	1	0	26
SW	0	0	1	2	7	5	9	1	2	0	0	27
WSW	0	2	1	1	7	2	3	2	0	0	0	18
W	0	0	3	3	14	8	1	1	0	0	0	30
WNW	0	0	3	1	6	6	4	2	0	0	0	22
NW	0	1	0	3	8	11	12	0	0	0	0	35
NNW	0	0	1	2	2	2	1	0	0	0	0	8
Tot	0	10	17	23	98	78	69	32	4	1	0	332

Hours of Calm	0
Hours of Variable Direction	0
Hours of Valid Data	332
Hours of Missing Data	10
Hours in Period	2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	2	1	1	1	0	0	0	0	5
NNE	0	0	0	0	2	2	0	0	0	0	0	4
NE	0	0	0	2	1	0	0	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	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	1	0	1	1	0	0	0	3
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	1	0	0	1	0	0	0	2
SSW	0	0	0	0	1	3	3	0	0	0	0	7
SW	0	1	2	2	4	1	3	0	4	0	0	17
WSW	0	0	0	2	5	10	5	0	0	0	0	22
W	0	0	1	3	6	1	1	0	0	0	0	12
WNW	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	2	0	0	0	0	0	0	0	2
NNW	0	0	1	0	1	1	0	0	0	0	0	3
Tot	0	1	4	13	23	19	14	2	4	0	0	80

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 81
Hours of Missing Data 10
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	3	6	6	15	6	15	20	11	0	82
NNE	0	0	2	4	12	17	19	13	15	1	0	83
NE	0	1	3	5	12	27	24	18	9	0	0	99
ENE	0	3	3	7	29	30	15	2	1	0	0	90
E	0	1	2	1	9	11	16	19	20	2	0	81
ESE	0	0	4	8	13	6	13	14	22	2	0	82
SE	0	4	5	8	19	16	14	12	33	0	0	111
SSE	0	1	4	4	23	22	31	29	36	8	0	158
S	0	3	6	4	11	25	27	45	97	43	17	278
SSW	0	1	6	5	16	30	41	28	59	27	25	238
SW	0	3	4	7	14	25	32	25	28	18	13	169
WSW	0	7	5	3	23	11	16	10	36	12	7	130
W	0	2	6	10	15	16	26	19	20	21	12	147
WNW	0	1	5	8	28	37	31	18	43	18	5	194
NW	0	0	6	4	20	24	25	27	46	8	1	161
NNW	0	2	6	4	7	9	23	15	22	7	0	95
Tot	0	29	70	88	257	321	359	309	507	178	80	2198

Hours of Calm	0
Hours of Variable Direction	0
Hours of Valid Data	2198
Hours of Missing Data	10
Hours in Period	2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	1	2	0	3	0	2	0	3	0	11
NNE	0	0	1	0	0	1	4	0	0	0	0	6
NE	0	0	1	0	3	7	0	1	1	0	0	13
ENE	0	0	1	2	4	9	0	0	0	0	0	16
E	0	0	0	1	2	0	1	2	0	0	0	6
ESE	0	0	0	1	0	1	2	3	0	0	0	7
SE	0	0	0	2	4	1	1	0	0	0	0	8
SSE	0	0	1	0	0	2	1	4	0	0	0	8
S	0	0	1	0	0	3	5	4	4	0	0	17
SSW	0	0	2	0	1	10	5	1	1	6	0	26
SW	0	0	0	0	2	4	6	3	3	3	0	21
WSW	0	0	0	0	3	0	0	0	4	0	2	9
W	0	0	0	0	1	1	4	0	1	1	3	11
WNW	0	0	1	2	3	4	6	3	11	2	0	32
NW	0	0	0	1	2	2	4	1	4	1	0	15
NNW	0	0	0	1	0	1	0	1	1	0	0	4
Tot	0	0	9	12	25	49	39	25	30	16	5	210

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 210
Hours of Missing Data 10
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	1	0	0	1	1	0	0	2	0	5
NNE	0	0	0	2	1	1	2	0	1	0	0	7
NE	0	0	0	0	0	1	1	0	0	0	0	2
ENE	0	0	0	0	2	1	0	0	0	0	0	3
E	0	0	0	0	1	1	1	1	0	0	0	4
ESE	0	0	0	0	3	0	0	2	0	0	0	5
SE	0	0	0	1	0	2	0	0	0	0	0	3
SSE	0	0	0	2	5	1	0	1	0	0	0	9
S	0	0	0	0	1	1	3	4	6	0	1	16
SSW	0	0	0	0	1	1	5	3	3	2	2	17
SW	0	0	0	0	2	1	4	5	0	3	0	15
WSW	0	0	1	1	3	0	4	1	1	0	1	12
W	0	0	0	1	0	1	0	2	0	1	4	9
WNW	0	0	1	1	2	7	4	0	6	2	0	23
NW	0	0	1	0	4	4	3	2	3	1	0	18
NNW	0	0	0	0	1	1	0	2	0	1	0	5
Tot	0	0	4	8	26	24	28	23	20	12	8	153

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 153
Hours of Missing Data 10
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	1	1	1	0	0	6
NNE	0	0	0	1	1	1	1	2	0	0	0	6
NE	0	0	0	0	0	3	0	0	2	0	0	5
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	2	1	1	0	0	0	0	4
ESE	0	0	0	1	2	0	1	1	2	0	0	7
SE	0	1	0	0	3	2	1	0	0	0	0	7
SSE	0	0	0	0	1	1	3	2	0	1	0	8
S	0	0	2	1	0	1	3	3	9	1	0	20
SSW	0	0	1	1	0	2	6	3	2	1	2	18
SW	0	0	1	3	0	2	0	2	2	0	1	11
WSW	0	0	2	0	5	5	1	0	1	3	2	19
W	0	0	3	2	1	2	0	1	0	3	1	13
WNW	0	0	0	1	4	5	3	3	2	0	1	19
NW	0	0	0	0	2	1	2	2	0	2	0	9
NNW	0	0	0	0	0	1	6	2	2	0	0	11
Tot	0	1	9	10	22	29	29	22	23	11	7	163

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 163
Hours of Missing Data 10
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	3	2	5	2	5	3	2	0	23
NNE	0	0	1	0	4	7	2	3	3	1	0	21
NE	0	0	1	1	2	9	13	7	2	0	0	35
ENE	0	2	1	1	9	12	10	1	0	0	0	36
E	0	0	0	0	1	4	5	6	4	0	0	20
ESE	0	0	2	4	4	1	1	3	4	0	0	19
SE	0	2	0	0	3	3	3	4	8	0	0	23
SSE	0	1	2	2	6	7	8	12	5	0	0	43
S	0	1	2	3	5	9	6	11	13	8	1	59
SSW	0	1	3	2	5	6	14	4	14	7	5	61
SW	0	2	0	2	1	9	5	5	1	7	7	39
WSW	0	0	1	1	5	1	4	2	5	3	1	23
W	0	2	3	2	5	7	3	6	8	11	4	51
WNW	0	0	1	1	4	11	8	1	7	4	3	40
NW	0	0	2	2	2	6	4	4	11	2	1	34
NNW	0	1	3	1	5	1	5	3	4	1	0	24
Tot	0	12	23	25	63	98	93	77	92	46	22	551

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 551
Hours of Missing Data 10
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	4	2	7	9	3	0	28
NNE	0	0	0	1	3	5	7	7	7	0	0	30
NE	0	1	1	3	3	5	6	6	3	0	0	28
ENE	0	1	1	2	9	8	5	1	1	0	0	28
E	0	1	2	0	2	4	7	10	15	2	0	43
ESE	0	0	2	2	4	4	9	3	11	2	0	37
SE	0	0	5	5	7	7	8	4	16	0	0	52
SSE	0	0	1	0	8	7	11	5	17	5	0	54
S	0	2	0	0	4	9	4	17	49	27	15	127
SSW	0	0	0	1	8	8	8	10	29	7	16	87
SW	0	0	3	1	3	5	14	8	15	3	5	57
WSW	0	3	1	1	5	1	5	3	10	3	0	32
W	0	0	0	3	5	1	7	3	8	5	0	32
WNW	0	0	2	3	5	4	5	8	17	9	1	54
NW	0	0	2	1	7	5	8	12	9	2	0	46
NNW	0	1	2	2	1	2	9	5	12	3	0	37
Tot	0	9	22	25	77	79	115	109	228	71	37	772

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 772
Hours of Missing Data 10
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	1	0	0	0	0	7	1	0	9
NNE	0	0	0	0	3	2	1	1	4	0	0	11
NE	0	0	0	1	4	2	4	4	1	0	0	16
ENE	0	0	0	2	4	0	0	0	0	0	0	6
E	0	0	0	0	1	1	1	0	1	0	0	4
ESE	0	0	0	0	0	0	0	2	5	0	0	7
SE	0	1	0	0	2	1	1	4	9	0	0	18
SSE	0	0	0	0	3	4	8	5	14	2	0	36
S	0	0	1	0	1	2	5	6	16	6	0	37
SSW	0	0	0	1	1	3	3	4	10	4	0	26
SW	0	1	0	1	4	4	3	2	5	2	0	22
WSW	0	4	0	0	2	4	2	4	5	3	1	25
W	0	0	0	2	3	2	8	6	3	0	0	24
WNW	0	1	0	0	8	3	5	3	0	1	0	21
NW	0	0	1	0	3	5	3	5	19	0	0	36
NNW	0	0	1	0	0	3	1	2	3	2	0	12
Tot	0	7	3	8	39	36	45	48	102	21	1	310

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 310
Hours of Missing Data 10
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2010

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	2	0	0	0	0	2
NE	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	1	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	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	1	0	0	1	0	2
SSW	0	0	0	0	0	0	0	3	0	0	0	3
SW	0	0	0	0	2	0	0	0	2	0	0	4
WSW	0	0	0	0	0	0	0	0	10	0	0	10
W	0	0	0	0	0	2	4	1	0	0	0	7
WNW	0	0	0	0	2	3	0	0	0	0	0	5
NW	0	0	0	0	0	1	1	1	0	0	0	3
NNW	0	0	0	0	0	0	2	0	0	0	0	2
Tot	0	0	0	0	5	6	10	5	12	1	0	39

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 39
Hours of Missing Data 10
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: October through December 2010

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	0	8	9	18	23	17	11	11	0	0	97
NNE	0	2	4	12	15	12	5	8	0	0	0	58
NE	0	0	3	9	24	6	2	0	0	0	0	44
ENE	0	4	4	7	32	15	1	0	0	0	0	63
E	0	0	8	5	19	33	6	2	0	0	0	73
ESE	0	6	7	4	13	14	16	6	6	0	0	72
SE	0	2	9	11	21	13	12	18	18	4	0	108
SSE	0	3	20	14	30	32	19	29	35	6	5	193
S	0	8	17	12	32	27	17	11	23	12	1	160
SSW	0	8	9	11	35	13	12	7	22	17	0	134
SW	0	13	16	11	43	19	9	4	16	8	10	149
WSW	0	11	16	17	23	28	13	18	33	5	3	167
W	0	8	28	18	45	44	20	30	41	6	0	240
WNW	0	16	30	25	40	30	37	32	14	0	0	224
NW	0	10	24	18	39	45	38	23	5	0	0	202
NNW	0	5	9	21	20	25	41	27	21	10	10	189
Tot	0	96	212	204	449	379	265	226	245	68	29	2173

Hours of Calm 3
Hours of Variable Direction 0
Hours of Valid Data 2176
Hours of Missing Data 32
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: October through December 2010

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	4	1	2	0	3	0	0	10
NNE	0	0	0	0	3	4	3	3	0	0	0	13
NE	0	0	0	1	2	1	0	0	0	0	0	4
ENE	0	0	0	1	1	3	0	0	0	0	0	5
E	0	0	0	1	2	10	0	0	0	0	0	13
ESE	0	0	1	0	0	0	0	0	0	0	0	1
SE	0	0	0	0	1	0	0	0	0	0	0	1
SSE	0	0	2	0	1	0	1	1	0	0	0	5
S	0	0	0	0	1	1	2	0	0	0	0	4
SSW	0	0	1	0	1	2	2	0	5	2	0	13
SW	0	0	0	0	2	3	1	1	2	2	2	13
WSW	0	0	0	0	1	13	8	5	8	0	1	36
W	0	0	0	0	5	10	3	4	2	0	0	24
WNW	0	0	1	1	3	5	7	6	0	0	0	23
NW	0	0	0	0	3	10	3	5	4	0	0	25
NNW	0	0	0	0	4	0	0	1	5	0	0	10
Tot	0	0	5	4	34	63	32	26	29	4	3	200

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 200
Hours of Missing Data 32
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 2010

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	0	1	0	0	1	0	0	0	2
NNE	0	0	0	0	0	0	0	1	0	0	0	1
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	1	0	0	0	0	0	0	0	1
SSE	0	0	0	0	0	0	1	3	1	0	0	5
S	0	0	1	0	0	1	1	0	2	1	0	6
SSW	0	0	0	0	0	0	0	0	1	3	0	4
SW	0	0	0	0	0	1	0	1	0	0	1	3
WSW	0	0	0	0	0	2	0	0	1	0	0	3
W	0	0	0	0	0	1	1	0	0	0	0	2
WNW	0	0	0	0	3	1	0	2	0	0	0	6
NW	0	0	0	0	0	0	0	2	0	0	0	2
NNW	0	0	0	0	0	0	1	1	2	0	0	4
Tot	0	0	1	1	4	6	4	11	7	4	1	39

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 39
Hours of Missing Data 32
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 2010

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	1	0	0	1	1	0	0	3
NNE	0	0	0	0	0	1	0	1	0	0	0	2
NE	0	0	0	0	0	1	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	1	0	0	1	0	0	0	0	2
SE	0	0	0	0	0	0	2	0	0	0	0	2
SSE	0	0	0	0	0	0	1	0	0	0	0	1
S	0	0	0	0	0	0	0	1	0	0	0	1
SSW	0	0	0	0	0	0	0	1	1	0	0	2
SW	0	0	0	0	2	1	3	0	0	0	0	6
WSW	0	0	1	1	4	0	0	1	1	0	1	9
W	0	0	0	0	1	1	2	1	0	0	0	5
WNW	0	0	0	0	1	1	2	0	0	0	0	4
NW	0	0	1	0	1	1	0	1	1	0	0	5
NNW	0	0	0	0	0	0	0	0	3	0	0	3
Tot	0	0	2	2	10	6	11	7	7	0	1	46

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 46
Hours of Missing Data 32
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 2010

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	0	2	1	5	3	7	6	7	0	0	31
NNE	0	1	1	1	2	4	1	2	0	0	0	12
NE	0	0	1	4	9	2	1	0	0	0	0	17
ENE	0	0	0	1	6	4	1	0	0	0	0	12
E	0	0	0	1	11	21	5	2	0	0	0	40
ESE	0	1	0	1	3	7	6	3	4	0	0	25
SE	0	0	0	1	1	3	4	1	4	3	0	17
SSE	0	0	2	1	2	3	8	5	13	1	0	35
S	0	0	0	0	2	6	6	4	8	6	0	32
SSW	0	1	1	0	3	3	5	3	4	2	0	22
SW	0	0	3	2	1	7	2	1	12	4	5	37
WSW	0	1	1	4	7	6	3	4	21	4	1	52
W	0	0	1	3	10	17	5	17	34	4	0	91
WNW	0	1	0	5	10	11	13	20	12	0	0	72
NW	0	0	0	4	6	9	14	13	0	0	0	46
NNW	0	2	3	4	2	11	19	8	10	10	10	79
Tot	0	7	15	33	80	117	100	89	129	34	16	620

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 620
Hours of Missing Data 32
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 2010

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	0	3	3	5	19	8	3	0	0	0	41
NNE	0	0	3	8	9	3	1	1	0	0	0	25
NE	0	0	1	4	12	2	1	0	0	0	0	20
ENE	0	3	2	5	24	8	0	0	0	0	0	42
E	0	0	7	3	4	1	1	0	0	0	0	16
ESE	0	3	2	2	1	2	8	3	2	0	0	23
SE	0	1	3	4	12	5	5	17	14	1	0	62
SSE	0	1	4	4	13	24	7	20	21	5	5	104
S	0	2	3	5	19	10	7	6	13	5	1	71
SSW	0	2	0	5	14	6	5	3	11	10	0	56
SW	0	4	0	1	6	4	3	1	2	2	2	25
WSW	0	0	5	2	1	5	2	8	2	1	0	26
W	0	3	3	9	25	15	9	8	5	2	0	79
WNW	0	0	1	6	19	12	15	4	2	0	0	59
NW	0	2	5	3	14	20	21	2	0	0	0	67
NNW	0	2	1	7	6	12	21	17	1	0	0	67
Tot	0	23	43	71	184	148	114	93	73	26	8	783

Hours of Calm 3
Hours of Variable Direction 0
Hours of Valid Data 786
Hours of Missing Data 32
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: October through December 2010

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	0	3	5	2	0	0	0	0	0	0	10
NNE	0	1	0	3	1	0	0	0	0	0	0	5
NE	0	0	1	0	1	0	0	0	0	0	0	2
ENE	0	1	2	0	1	0	0	0	0	0	0	4
E	0	0	1	0	2	1	0	0	0	0	0	4
ESE	0	1	1	0	6	4	1	0	0	0	0	13
SE	0	1	6	4	5	4	1	0	0	0	0	21
SSE	0	0	8	6	13	5	1	0	0	0	0	33
S	0	2	7	4	10	9	1	0	0	0	0	33
SSW	0	0	5	4	12	2	0	0	0	0	0	23
SW	0	4	7	4	14	2	0	0	0	0	0	31
WSW	0	3	6	3	6	2	0	0	0	0	0	20
W	0	2	13	4	4	0	0	0	0	0	0	23
WNW	0	8	10	9	4	0	0	0	0	0	0	31
NW	0	4	7	3	11	5	0	0	0	0	0	30
NNW	0	0	3	8	4	2	0	0	0	0	0	17
Tot	0	27	80	57	96	36	4	0	0	0	0	300

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 300
Hours of Missing Data 32
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 2010

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	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	1	3	0	3	1	0	0	0	0	0	8
SE	0	0	0	1	2	1	0	0	0	0	0	4
SSE	0	2	4	3	1	0	0	0	0	0	0	10
S	0	4	6	3	0	0	0	0	0	0	0	13
SSW	0	5	2	2	5	0	0	0	0	0	0	14
SW	0	5	6	4	18	1	0	0	0	0	0	34
WSW	0	7	3	7	4	0	0	0	0	0	0	21
W	0	3	11	2	0	0	0	0	0	0	0	16
WNW	0	7	18	4	0	0	0	0	0	0	0	29
NW	0	4	11	8	4	0	0	0	0	0	0	27
NNW	0	1	2	2	4	0	0	0	0	0	0	9
Tot	0	39	66	36	41	3	0	0	0	0	0	185

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 185
Hours of Missing Data 32
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 2010

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	3	3	18	22	15	16	19	9	0	106
NNE	0	0	3	5	22	17	14	6	8	0	0	75
NE	0	1	4	6	19	13	11	2	1	0	0	57
ENE	0	2	3	8	22	27	9	1	0	0	0	72
E	0	1	3	1	7	21	20	18	8	1	0	80
ESE	0	1	4	7	5	5	8	12	13	6	2	63
SE	0	5	0	4	7	16	14	17	32	18	3	116
SSE	0	2	2	4	13	10	24	34	43	26	11	169
S	0	1	4	2	17	33	24	27	28	16	14	166
SSW	0	0	3	4	16	23	27	18	13	17	16	137
SW	0	1	6	6	8	21	40	15	11	15	22	145
WSW	0	3	4	4	22	30	36	29	29	26	12	195
W	0	3	3	14	24	40	51	24	46	36	9	250
WNW	0	0	4	7	22	48	30	23	51	10	0	195
NW	0	3	4	13	22	18	35	42	51	4	2	194
NNW	0	2	3	9	6	13	20	43	47	16	18	177
Tot	0	26	53	97	250	357	378	327	400	200	109	2197

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 2197
Hours of Missing Data 11
Hours in Period 2208

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METEOROLOGICAL DATA

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

Period: October through December 2010

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	2	2	3	0	0	3	0	10
NNE	0	0	0	0	3	1	4	3	2	0	0	13
NE	0	0	0	0	2	1	1	0	0	0	0	4
ENE	0	0	0	0	2	3	1	0	0	0	0	6
E	0	0	0	0	0	6	6	0	0	0	0	12
ESE	0	0	0	1	0	0	0	0	0	0	0	1
SE	0	0	0	0	0	1	0	0	0	0	0	1
SSE	0	0	1	0	1	0	0	1	1	0	0	4
S	0	0	0	0	2	2	2	0	0	0	0	6
SSW	0	0	1	0	0	1	1	1	3	3	2	12
SW	0	0	0	1	1	2	3	0	2	0	4	13
WSW	0	0	0	0	2	7	11	8	9	4	1	42
W	0	0	0	2	2	5	4	5	5	1	0	24
WNW	0	0	0	0	2	6	5	5	6	0	0	24
NW	0	0	0	0	0	4	5	1	7	1	0	18
NNW	0	0	0	0	2	2	0	0	3	3	0	10
Tot	0	0	2	4	21	43	46	24	38	15	7	200

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 200
Hours of Missing Data 11
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 2010

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	0	0	0	1	0	0	2
NNE	0	0	0	0	0	0	0	0	1	0	0	1
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	1	0	0	0	0	0	0	0	1
SSE	0	0	0	0	0	0	1	0	5	0	0	6
S	0	0	1	0	0	0	1	1	2	1	1	7
SSW	0	0	0	0	0	0	0	0	0	1	1	2
SW	0	0	0	0	0	1	1	0	1	0	1	4
WSW	0	0	0	0	0	0	1	0	0	1	0	2
W	0	0	0	0	0	0	1	1	0	0	0	2
WNW	0	0	0	0	1	2	1	0	2	0	0	6
NW	0	0	0	0	0	0	0	0	3	0	0	3
NNW	0	0	0	0	0	0	0	1	1	1	0	3
Tot	0	0	1	1	2	3	6	3	16	4	3	39

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 39
Hours of Missing Data 11
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 2010

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	0	0	0	1	1	0	3
NNE	0	0	0	0	0	0	1	0	1	0	0	2
NE	0	0	0	0	0	0	1	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	1	0	0	0	1
ESE	0	0	0	1	0	0	0	0	0	0	0	1
SE	0	0	0	0	0	0	1	1	0	0	0	2
SSE	0	0	0	0	0	0	0	1	0	0	0	1
S	0	0	0	0	0	0	0	0	1	0	0	1
SSW	0	0	0	0	0	0	0	0	1	1	0	2
SW	0	0	0	0	1	1	3	1	0	1	0	7
WSW	0	0	1	0	3	1	0	0	0	1	1	7
W	0	0	0	1	1	0	1	2	1	0	0	6
WNW	0	0	0	1	1	0	1	1	1	0	0	5
NW	0	0	0	0	0	1	1	0	1	1	0	4
NNW	0	0	0	0	0	0	0	0	0	3	0	3
Tot	0	0	1	3	7	3	9	7	7	8	1	46

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 46
Hours of Missing Data 11
Hours in Period 2208

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

Period: October through December 2010

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	1	0	1	2	4	3	2	10	5	0	28
NNE	0	0	1	0	2	3	3	0	2	0	0	11
NE	0	0	2	1	9	3	4	1	0	0	0	20
ENE	0	0	1	1	2	8	4	1	0	0	0	17
E	0	0	0	0	3	11	10	7	6	1	0	38
ESE	0	0	1	2	2	2	4	3	4	4	2	24
SE	0	0	0	0	1	2	3	5	5	4	1	21
SSE	0	0	1	0	4	0	2	6	8	6	1	28
S	0	0	1	0	2	4	5	3	9	7	5	36
SSW	0	0	1	0	2	1	4	4	1	4	1	18
SW	0	0	2	1	1	4	8	1	1	11	14	43
WSW	0	1	1	2	7	7	3	5	14	13	9	62
W	0	0	1	0	5	8	18	5	24	32	4	97
WNW	0	0	0	2	6	10	6	7	25	9	0	65
NW	0	1	1	4	6	2	7	12	16	2	2	53
NNW	0	0	2	4	1	3	10	18	12	7	18	75
Tot	0	3	15	18	55	72	94	80	137	105	57	636

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 636
Hours of Missing Data 11
Hours in Period 2208

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METEOROLOGICAL DATA

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Period: October through December 2010

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	0	1	4	4	9	13	7	0	0	38
NNE	0	0	0	3	8	8	3	3	2	0	0	27
NE	0	0	2	1	6	8	5	1	1	0	0	24
ENE	0	0	0	5	14	15	4	0	0	0	0	38
E	0	1	2	1	4	3	3	10	2	0	0	26
ESE	0	1	3	3	2	2	1	5	9	2	0	28
SE	0	2	0	1	4	6	4	3	24	14	2	60
SSE	0	2	0	1	2	6	12	19	28	20	10	100
S	0	0	0	0	6	13	6	11	14	8	8	66
SSW	0	0	0	1	8	7	15	7	7	8	12	65
SW	0	0	1	0	0	4	3	4	3	3	3	21
WSW	0	2	0	0	1	3	2	5	6	7	1	27
W	0	1	0	4	5	11	22	9	16	3	5	76
WNW	0	0	3	3	4	16	10	9	17	1	0	63
NW	0	2	1	2	3	5	13	20	22	0	0	68
NNW	0	0	0	1	3	7	6	15	30	2	0	64
Tot	0	11	12	27	74	118	118	134	188	68	41	791

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 791
Hours of Missing Data 11
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 2010

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	1	0	5	8	0	0	0	0	0	14
NNE	0	0	1	2	7	3	3	0	0	0	0	16
NE	0	1	0	4	2	1	0	0	0	0	0	8
ENE	0	1	1	1	2	1	0	0	0	0	0	6
E	0	0	0	0	0	1	1	0	0	0	0	2
ESE	0	0	0	0	1	1	2	4	0	0	0	8
SE	0	1	0	2	1	7	4	5	2	0	0	22
SSE	0	0	0	3	4	3	8	6	1	0	0	25
S	0	1	1	0	6	11	9	12	2	0	0	42
SSW	0	0	1	1	4	9	6	6	1	0	0	28
SW	0	1	1	1	4	3	11	3	3	0	0	27
WSW	0	0	0	0	5	7	5	6	0	0	0	23
W	0	1	2	3	4	6	2	2	0	0	0	20
WNW	0	0	0	0	5	4	4	1	0	0	0	14
NW	0	0	2	5	6	3	5	7	2	0	0	30
NNW	0	2	1	1	0	1	1	8	1	0	0	15
Tot	0	8	11	23	56	69	61	60	12	0	0	300

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 300
Hours of Missing Data 11
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 2010

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	2	1	3	4	0	1	0	0	0	11
NNE	0	0	1	0	2	2	0	0	0	0	0	5
NE	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	1	1	1	2	0	0	0	0	0	0	5
E	0	0	1	0	0	0	0	0	0	0	0	1
ESE	0	0	0	0	0	0	1	0	0	0	0	1
SE	0	2	0	0	1	0	2	3	1	0	0	9
SSE	0	0	0	0	2	1	1	1	0	0	0	5
S	0	0	1	2	1	3	1	0	0	0	0	8
SSW	0	0	0	2	2	5	1	0	0	0	0	10
SW	0	0	2	3	1	6	11	6	1	0	0	30
WSW	0	0	2	2	4	5	14	5	0	0	0	32
W	0	1	0	4	7	10	3	0	0	0	0	25
WNW	0	0	1	1	3	10	3	0	0	0	0	18
NW	0	0	0	2	7	3	4	2	0	0	0	18
NNW	0	0	0	3	0	0	3	1	0	0	0	7
Tot	0	4	11	21	35	49	44	19	2	0	0	185

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 185
Hours of Missing Data 11
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: October through December 2010

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	0	3	7	19	10	15	50	27	5	136
NNE	0	0	1	3	6	12	13	14	27	4	0	80
NE	0	3	4	1	11	15	12	4	4	0	0	54
ENE	0	1	4	5	20	22	21	7	0	0	0	80
E	0	0	2	1	2	21	11	11	19	3	0	70
ESE	0	1	2	2	7	3	5	11	20	11	3	65
SE	0	1	7	7	8	3	4	5	12	23	15	85
SSE	0	1	6	2	4	8	9	19	52	34	34	169
S	0	0	2	0	3	5	14	15	41	34	35	149
SSW	0	0	3	4	9	15	20	22	58	25	28	184
SW	1	0	2	2	3	11	13	13	39	13	28	125
WSW	0	1	1	1	8	23	26	20	34	25	30	169
W	0	2	3	2	8	25	30	30	64	48	22	234
WNW	0	0	1	3	11	23	31	31	48	50	9	207
NW	0	1	2	3	14	16	33	38	63	22	0	192
NNW	0	2	0	2	15	6	12	15	57	62	25	196
Tot	1	13	40	41	136	227	264	270	588	381	234	2195

Hours of Calm	0
Hours of Variable Direction	0
Hours of Valid Data	2195
Hours of Missing Data	13
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 2010

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	1	1	1	1	0	1	0	5
NNE	0	0	0	1	2	2	1	2	0	0	0	8
NE	0	0	0	0	0	2	0	0	0	0	0	2
ENE	0	0	0	0	1	1	1	0	0	0	0	3
E	0	0	0	0	0	2	3	2	0	0	0	7
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	1	0	0	1	0	0	0	0	0	2
SSE	0	0	1	0	0	0	0	0	0	0	0	1
S	0	0	0	0	1	0	0	1	0	0	0	2
SSW	0	0	1	0	0	1	0	1	0	2	1	6
SW	0	0	0	0	1	1	2	0	2	1	2	9
WSW	0	0	0	0	0	4	7	3	4	3	1	22
W	0	0	0	0	0	1	0	1	3	1	0	6
WNW	0	0	0	1	1	0	2	1	6	0	0	11
NW	0	0	0	0	0	3	2	1	3	2	0	11
NNW	0	0	0	0	0	1	0	0	0	1	0	2
Tot	0	0	3	2	7	20	19	13	18	11	4	97

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 97
Hours of Missing Data 13
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2010 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: October through December 2010

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	1	0	0	0	2	4
NNE	0	0	0	0	1	0	2	1	2	0	0	6
NE	0	0	0	0	0	0	0	1	0	0	0	1
ENE	0	0	0	0	1	1	1	0	0	0	0	3
E	0	0	0	0	1	2	3	0	0	0	0	6
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	1	4	0	0	5
S	0	0	0	0	0	0	3	1	1	1	0	6
SSW	0	0	0	1	1	0	1	1	2	1	4	11
SW	0	0	0	0	0	1	1	0	1	0	3	6
WSW	0	0	0	0	1	2	5	4	4	1	1	18
W	0	0	0	0	2	1	1	3	1	0	1	9
WNW	0	0	0	0	1	3	2	0	4	1	0	11
NW	0	0	0	0	0	2	2	1	3	0	0	8
NNW	0	0	0	0	1	1	0	0	0	3	0	5
Tot	0	0	0	1	9	14	22	13	22	7	11	99

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 99
Hours of Missing Data 13
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 2010

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	1	0	1	2	1	0	6
NNE	0	0	0	0	0	0	0	0	3	0	0	3
NE	0	0	0	0	0	0	2	0	0	0	0	2
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	1	0	0	0	1
ESE	0	0	0	0	1	0	0	0	0	0	0	1
SE	0	0	0	1	0	0	0	0	0	0	0	1
SSE	0	0	0	0	0	0	0	2	2	1	0	5
S	0	0	0	0	1	0	0	0	1	0	2	4
SSW	0	0	1	0	0	0	1	0	1	1	0	4
SW	0	0	0	0	0	2	1	2	1	0	2	8
WSW	0	0	0	0	2	2	3	1	1	3	2	14
W	0	0	0	0	0	1	2	1	2	0	0	6
WNW	0	0	0	0	1	3	1	2	4	0	0	11
NW	0	0	0	1	0	2	2	1	4	1	0	11
NNW	0	0	0	0	0	0	0	0	1	5	0	6
Tot	0	0	1	2	6	11	12	11	22	12	6	83

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 83
Hours of Missing Data 13
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 2010

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	2	5	4	8	31	11	3	64
NNE	0	0	1	0	2	4	1	2	5	1	0	16
NE	0	0	1	1	2	5	3	0	1	0	0	13
ENE	0	0	1	2	7	9	13	5	0	0	0	37
E	0	0	0	1	0	8	2	3	12	2	0	28
ESE	0	0	2	0	2	3	3	7	14	6	1	38
SE	0	0	1	2	1	1	2	1	5	6	13	32
SSE	0	0	2	2	3	0	3	5	11	15	19	60
S	0	0	1	0	1	0	2	4	10	10	16	44
SSW	0	0	1	0	3	5	4	6	7	6	11	43
SW	0	0	1	1	1	4	4	2	3	5	18	39
WSW	0	0	1	1	2	7	1	1	5	14	21	53
W	0	1	2	2	3	10	13	11	20	41	21	124
WNW	0	0	1	2	4	8	8	18	14	35	8	98
NW	0	1	1	1	6	6	10	12	21	4	0	62
NNW	0	2	0	2	6	1	4	9	29	17	22	92
Tot	0	4	16	17	45	76	77	94	188	173	153	843

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 843
Hours of Missing Data 13
Hours in Period 2208

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METEOROLOGICAL DATA

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

Period: October through December 2010

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	0	4	2	2	12	11	0	31
NNE	0	0	0	1	1	5	4	5	9	2	0	27
NE	0	0	3	0	4	3	4	2	3	0	0	19
ENE	0	1	0	1	5	10	6	2	0	0	0	25
E	0	0	2	0	1	9	3	3	6	1	0	25
ESE	0	0	0	0	2	0	2	4	6	4	2	20
SE	0	0	1	2	3	0	1	2	4	16	2	31
SSE	0	0	1	0	0	2	3	8	19	16	15	64
S	0	0	0	0	0	2	2	4	23	19	17	67
SSW	0	0	0	2	1	7	11	9	26	9	12	77
SW	0	0	0	0	0	1	2	6	9	4	3	25
WSW	0	0	0	0	1	1	3	5	3	0	5	18
W	0	1	0	0	1	5	6	4	14	5	0	36
WNW	0	0	0	0	1	4	13	4	13	14	1	50
NW	0	0	1	0	2	1	7	8	23	12	0	54
NNW	0	0	0	0	3	2	2	5	14	24	2	52
Tot	0	2	8	6	25	56	71	73	184	137	59	621
Hours of Calm												0
Hours of Variable Direction												0
Hours of Valid Data												621
Hours of Missing Data												13
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 2010

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	3	2	6	0	0	2	3	0	16
NNE	0	0	0	1	0	1	1	3	5	0	0	11
NE	0	2	0	0	5	4	3	1	0	0	0	15
ENE	0	0	3	2	4	1	0	0	0	0	0	10
E	0	0	0	0	0	0	0	2	1	0	0	3
ESE	0	0	0	1	1	0	0	0	0	1	0	3
SE	0	1	4	2	3	1	1	2	3	1	0	18
SSE	0	1	2	0	0	5	3	2	12	2	0	27
S	0	0	0	0	0	2	7	5	5	3	0	22
SSW	0	0	0	0	1	1	3	3	15	6	0	29
SW	1	0	1	1	0	2	2	0	16	2	0	25
WSW	0	1	0	0	2	4	2	3	8	1	0	21
W	0	0	1	0	2	1	4	9	17	1	0	35
WNW	0	0	0	0	1	1	4	2	2	0	0	10
NW	0	0	0	1	5	2	4	3	4	1	0	20
NNW	0	0	0	0	5	0	4	1	11	10	0	31
Tot	1	5	11	11	31	31	38	36	101	31	0	296

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 296
Hours of Missing Data 13
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 2010

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	1	2	3	3	0	0	10
NNE	0	0	0	0	0	0	4	1	3	1	0	9
NE	0	1	0	0	0	1	0	0	0	0	0	2
ENE	0	0	0	0	2	0	0	0	0	0	0	2
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	1	0	1	1	0	0	0	0	0	0	3
SE	0	0	0	0	1	0	0	0	0	0	0	1
SSE	0	0	0	0	1	1	0	1	4	0	0	7
S	0	0	1	0	0	1	0	0	1	1	0	4
SSW	0	0	0	1	3	1	0	2	7	0	0	14
SW	0	0	0	0	1	0	1	3	7	1	0	13
WSW	0	0	0	0	0	3	5	3	9	3	0	23
W	0	0	0	0	0	6	4	1	7	0	0	18
WNW	0	0	0	0	2	4	1	4	5	0	0	16
NW	0	0	0	0	1	0	6	12	5	2	0	26
NNW	0	0	0	0	0	1	2	0	2	2	1	8
Tot	0	2	1	2	13	19	25	30	53	10	1	156

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 156
Hours of Missing Data 13
Hours in Period 2208