



Dresden Nuclear Power Station
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10 CFR 50.36a (a)(2)

April 25, 2016

SVPLTR: #16-0018

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Dresden Nuclear Power Station, Units 1, 2, and 3
Facility Operating License No. DPR-2
Renewed Facility Operation License Nos. DPR-19 and DPR-25
NRC Docket Nos. 50-010, 50-237, and 50-249

Subject: Dresden Nuclear Power Station 2015 Radioactive Effluent Release Report and
Offsite Dose Calculation Manual

The Radioactive Effluent Release Report for January through December 2015 for Dresden Nuclear Power Station (DNPS) is submitted in accordance with Sections 6.9.A.4 and 5.6.3, "Radioactive Effluent Release Report," of the DNPS Unit 1 and Units 2 and 3 Technical Specifications, respectively and 10 CFR 50.36a (a)(2), "Technical specifications on effluents from nuclear power reactors."

Should you have any questions concerning this letter, please contact Bruce Franzen, Regulatory Assurance Manager, at (815) 416-2800.

Respectfully,

A handwritten signature in black ink, appearing to read "P. Karaba", with a cursive flourish.

Peter J. Karaba
Site Vice President
Dresden Nuclear Power Station

Attachments: DNPS 2015 Annual Radioactive Effluent Release Report

cc: Regional Administrator – NRC Region III
NRC Senior Resident Inspector, Dresden Nuclear Power Station

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DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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. Effluent Concentration Limits

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 $2.00\text{E-}04 \mu\text{Ci/ml}$ 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:
- d. Tritium:
- e. Gross Alpha

The 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, the measured flow at the release points is used to calculate the curies released. For the Chemical Cleaning Building effluent, the design basis flows are used to calculate curies released.

- f. Carbon-14:

Carbon-14 activity released is estimated 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.

- g. 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, Fe-55, and Ni-63. Results from the quarter are conservatively applied for each month of the quarter. Batch release volume is based on LPCI heat exchanger volume.

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h. 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.

i. 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.

5. Batch Releases (does not include Abnormal / Unmonitored Releases described below in points 6 and 7)

a. Liquid - Radwaste Liquid Effluents - None

Liquid - CCSW/LPCI

(1) Number of batch releases:	2
(2) Total time period for batch releases:	9.40E+02 minutes
(3) Maximum time period for a batch release:	7.05E+02 minutes
(4) Average time period for a batch release:	4.70E+02 minutes
(5) Minimum time period for a batch release:	2.35E+02 minutes
(6) Average stream flow during periods of release of effluent into a flowing stream:	1.64E+04 lpm

b. Gaseous - None

6. Abnormal Releases (reported in Summation of all Releases tables as well as in Radiological Impact on Man section)

a. Liquid

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

b. Gaseous

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

7. Unmonitored Releases (reported in Summation of all Releases tables as well as in Radiological Impact on Man section)

a. Liquid

(1) Number of releases:	1 (Storm Sewer System)
(2) Total activity released:	6.58E-01 Ci

Water in on-site storm sewers is routinely sampled and analyzed for tritium content. The highest storm drain concentrations of tritium measured during each month of 2015 were used to calculate the released activity for each month. The total activity released to the environment is based on an estimated typical discharge flow of 10 gallons per minute. Low level tritium was detected throughout the year 2015. The total estimated tritium activity released via the storm sewers in 2015 was 6.58E-01 Ci.

Water in the Sewage Treatment Plant (STP) effluent is routinely sampled and analyzed for tritium, gross alpha, Sr-89, Sr-90, Fe-55, and Ni-63. There were no unmonitored releases during year 2015; all values less than the Lower Limit of Detection (<LLD).

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b. Gaseous

- (1) Number of releases: 4 (Unit 1 Main Turbine Floor and Unit 1 Fuel Building, Chemistry Laboratory Ventilation Effluent, Units 2/3 Heating Steam System, and East Turbine Building Ventilation)
- (2) Total activity released: 4.56E-04 Ci

The Unit 1 Main Turbine Floor is used as an area to work on contaminated equipment. The Unit 1 Fuel Building is used as a storage area and potentially as a work area. The ventilation systems to these areas are no longer operational and the areas are at ambient pressure with the outside environment. The potential exists for airborne activity to be released to the environment through various points. Based on the work normally performed in these areas, an estimated 7.20E-05 Ci of Cs-137 was released via this path during 2015.

The Chemistry Laboratory exhausts directly into the environment via its ventilation system. This release path is not monitored. Based on an evaluation of activities performed in the area, the estimated activity released to the environment from the laboratory in 2015 is 2.13E-04 Ci of noble gases and 1.31E-04 Ci of iodines and particulates.

The Unit 2/3 Heating Steam System has been contaminated in the past. The system continues to contain low-level contamination. During normal operation, the condensate is converted to steam, a portion of which gets vented to the atmosphere. Tritium (H-3) and dissolved Xenon (Xe-138) were detected in 2015. An estimated 3.62E-05 Ci of activity was released to the environment during 2015.

The East Turbine Building Ventilation System exhausts directly into the environment. This release path is not monitored. Low-level removable contamination has been detected in the system in the past. An estimated 3.38E-06 Ci of Co-60 was released to the environment during 2015.

8. Summary of Offsite Dose Calculation Manual (ODCM) Changes by Dresden Nuclear Power Station (DNPS) in 2015:

None: Revision 12 of the ODCM was issued in 2012.

9. Errata:

None

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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

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UNITS 1,2,3

GASEOUS EFFLUENTS

SUMMATION OF ALL RELEASES

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	7.99E+01	2.54E+01	3.13E+01	3.48E+01	1.31E+01
2. Average release rate for period	μCi/sec	1.03E+01	3.23E+00	3.94E+00	4.38E+00	
3. Percent of ODCM annual dose limit	% Whole Body	1.13E-03	1.23E-03	1.41E-03	1.09E-03	
	% Skin	4.21E-05	3.12E-05	3.66E-05	3.48E-05	

B. Iodine-131

1. Total release	Ci	4.95E-04	8.45E-04	1.15E-03	7.62E-04	2.60E+01
2. Average release rate for period	μCi/sec	6.36E-05	1.07E-04	1.45E-04	9.59E-05	
3. Percent of ODCM annual dose limit (*)	%	1.45E-03	1.59E-03	1.63E-03	1.37E-03	

C. Particulates

1. Particulates with half-lives > 8 days	Ci	2.25E-03	3.00E-03	5.38E-03	2.69E-03	2.94E+01
2. Average release rate for period	μCi/sec	2.90E-04	3.82E-04	6.77E-04	3.38E-04	
3. Percent of ODCM annual dose limit (*)	%	1.45E-03	1.59E-03	1.63E-03	1.37E-03	

D. Tritium

1. Total release	Ci	5.29E+00	4.89E-01	2.28E-01	4.34E-01	7.56E+00
2. Average release rate for period	μCi/sec	6.81E-01	6.22E-02	2.87E-02	5.46E-02	
3. Percent of ODCM annual dose limit (*)	%	1.45E-03	1.59E-03	1.63E-03	1.37E-03	

E. Gross Alpha

1. Total release	Ci	<LLD	<LLD	<LLD	<LLD	2.94E+01
2. Average release rate for period	μCi/sec	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3. Percent of ODCM annual dose limit	%	N/A	N/A	N/A	N/A	

F. Carbon-14

1. Total release	Ci	6.76E+00	7.41E+00	7.35E+00	6.28E+00	
2. Average release rate for period	μCi/sec	8.69E-01	9.42E-01	9.25E-01	7.90E-01	

(*): "Percent of ODCM annual dose limit" indicates combined total of Iodine-131, Particulates, and Tritium

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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

UNIT 1 GASEOUS EFFLUENTS SUMMATION OF ALL RELEASES

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	<LLD	<LLD	<LLD	<LLD	1.31E+01
2. Average release rate for period	μCi/sec	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3. Percent of ODCM quarterly dose limit	%γ	N/A	N/A	N/A	N/A	
	%β	N/A	N/A	N/A	N/A	

B. Iodine-131

1. Total release	Ci	<LLD	<LLD	<LLD	<LLD	2.60E+01
2. Average release rate for period	μCi/sec	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3. Percent of ODCM quarterly dose limit (*)	%	N/A	N/A	N/A	N/A	

C. Particulates

1. Particulates with half-lives > 8 days	Ci	1.86E-05	1.83E-05	1.81E-05	1.85E-05	2.94E+01
2. Average release rate for period	μCi/sec	2.40E-06	2.32E-06	2.28E-06	2.33E-06	
3. Percent of ODCM quarterly dose limit (*)	%	6.22E-03	6.19E-03	6.19E-03	6.21E-03	

D. Tritium

1. Total release	Ci	<LLD	<LLD	<LLD	<LLD	7.56E+00
2. Average release rate for period	μCi/sec	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3. Percent of ODCM quarterly dose limit (*)	%	N/A	N/A	N/A	N/A	

E. Gross Alpha

1. Total release	Ci	<LLD	<LLD	<LLD	<LLD	2.94E+01
2. Average release rate for period	μCi/sec	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3. Percent of ODCM quarterly dose limit	%	N/A	N/A	N/A	N/A	

F. Carbon-14

1. Total release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2. Average release rate for period	μCi/sec	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

(*): "Percent of ODCM quarterly dose limit" indicates combined total of Iodine-131, Particulates, and Tritium

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Licensee: Exelon Nuclear

UNIT 2 GASEOUS EFFLUENTS SUMMATION OF ALL RELEASES

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	3.27E+01	5.83E+00	5.49E+00	4.05E+00	1.31E+01
2. Average release rate for period	μCi/sec	4.21E+00	7.42E-01	6.91E-01	5.09E-01	
3. Percent of ODCM quarterly dose limit	%γ	7.14E-03	4.70E-03	4.50E-03	3.08E-03	
	%β	3.40E-03	1.26E-04	1.02E-04	1.02E-04	

B. Iodine-131

1. Total release	Ci	2.61E-04	3.81E-04	5.02E-04	3.58E-04	2.60E+01
2. Average release rate for period	μCi/sec	3.35E-05	4.85E-05	6.31E-05	4.50E-05	
3. Percent of ODCM quarterly dose limit (*)	%	1.39E-01	1.56E-01	1.58E-01	1.27E-01	

C. Particulates

1. Particulates with half-lives > 8 days	Ci	1.16E-03	1.35E-03	2.34E-03	1.49E-03	2.94E+01
2. Average release rate for period	μCi/sec	1.49E-04	1.71E-04	2.95E-04	1.88E-04	
3. Percent of ODCM quarterly dose limit (*)	%	1.39E-01	1.56E-01	1.58E-01	1.27E-01	

D. Tritium

1. Total release	Ci	2.61E+00	2.27E-01	9.41E-02	1.86E-01	7.56E+00
2. Average release rate for period	μCi/sec	3.35E-01	2.88E-02	1.18E-02	2.33E-02	
3. Percent of ODCM quarterly dose limit (*)	%	1.39E-01	1.56E-01	1.58E-01	1.27E-01	

E. Gross Alpha

1. Total release	Ci	<LLD	<LLD	<LLD	<LLD	2.94E+01
2. Average release rate for period	μCi/sec	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3. Percent of ODCM quarterly dose limit	%	N/A	N/A	N/A	N/A	

F. Carbon-14

1. Total release	Ci	3.25E+00	3.70E+00	3.64E+00	2.92E+00	
2. Average release rate for period	μCi/sec	4.18E-01	4.71E-01	4.58E-01	3.67E-01	

(*): "Percent of ODCM quarterly dose limit" indicates combined total of Iodine-131, Particulates, and Tritium

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UNIT 3

GASEOUS EFFLUENTS

SUMMATION OF ALL RELEASES

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	4.72E+01	1.96E+01	2.58E+01	3.08E+01	1.31E+01
2. Average release rate for period	μCi/sec	6.07E+00	2.49E+00	3.25E+00	3.87E+00	
3. Percent of ODCM quarterly dose limit	%γ	1.15E-02	1.18E-02	1.49E-02	1.52E-02	
	%β	4.39E-03	3.01E-04	3.53E-04	5.43E-04	

B. Iodine-131

1. Total release	Ci	2.34E-04	4.64E-04	6.52E-04	4.05E-04	2.60E+01
2. Average release rate for period	μCi/sec	3.01E-05	5.90E-05	8.20E-05	5.09E-05	
3. Percent of ODCM quarterly dose limit (*)	%	1.48E-01	1.58E-01	1.65E-01	1.43E-01	

C. Particulates

1. Particulates with half-lives > 8 days	Ci	1.08E-03	1.64E-03	3.02E-03	1.17E-03	2.94E+01
2. Average release rate for period	μCi/sec	1.39E-04	2.08E-04	3.80E-04	1.47E-04	
3. Percent of ODCM quarterly dose limit (*)	%	1.48E-01	1.58E-01	1.65E-01	1.43E-01	

D. Tritium

1. Total release	Ci	2.69E+00	2.63E-01	1.34E-01	2.48E-01	7.56E+00
2. Average release rate for period	μCi/sec	3.45E-01	3.34E-02	1.69E-02	3.12E-02	
3. Percent of ODCM quarterly dose limit (*)	%	1.48E-01	1.58E-01	1.65E-01	1.43E-01	

E. Gross Alpha

1. Total release	Ci	<LLD	<LLD	<LLD	<LLD	2.94E+01
2. Average release rate for period	μCi/sec	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3. Percent of ODCM quarterly dose limit	%	N/A	N/A	N/A	N/A	

F. Carbon-14

1. Total release	Ci	3.51E+00	3.71E+00	3.71E+00	3.36E+00	
2. Average release rate for period	μCi/sec	4.51E-01	4.72E-01	4.67E-01	4.23E-01	

(*): "Percent of ODCM quarterly dose limit" indicates combined total of Iodine-131, Particulates, and Tritium

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TABLE OF LOWER LIMITS OF DETECTABILITY
FOR GASEOUS EFFLUENTS

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

The above values are the ODCM-required LLDs.

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GASEOUS EFFLUENTS

UNITS 1,2,3 GROUND (*) GROUND RELEASES CONTINUOUS MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci	<LLD	<LLD	<LLD	3.91E-07	3.91E-07
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	<LLD	<LLD	<LLD	1.70E-06	1.70E-06
Kr-87	Ci	<LLD	<LLD	<LLD	7.90E-06	7.90E-06
Kr-88	Ci	<LLD	<LLD	<LLD	5.86E-06	5.86E-06
Xe-131m	Ci	<LLD	<LLD	<LLD	6.37E-09	6.37E-09
Xe-133	Ci	<LLD	<LLD	<LLD	2.38E-06	2.38E-06
Xe-133m	Ci	<LLD	<LLD	<LLD	2.79E-05	2.79E-05
Xe-135	Ci	<LLD	<LLD	<LLD	6.89E-06	6.89E-06
Xe-135m	Ci	<LLD	<LLD	<LLD	3.29E-05	3.29E-05
Xe-138	Ci	<LLD	<LLD	<LLD	1.53E-04	1.53E-04
Total for period	Ci	<LLD	<LLD	<LLD	2.39E-04	2.39E-04
2. Iodines and Halogens						
Br-82	Ci	<LLD	<LLD	<LLD	2.79E-09	2.79E-09
Br-84	Ci	<LLD	<LLD	<LLD	3.66E-10	3.66E-10
I-131	Ci	<LLD	<LLD	<LLD	2.21E-10	2.21E-10
I-132	Ci	<LLD	<LLD	<LLD	3.40E-11	3.40E-11
I-133	Ci	<LLD	<LLD	<LLD	3.87E-10	3.87E-10
I-134	Ci	<LLD	<LLD	<LLD	2.92E-07	2.92E-07
I-135	Ci	<LLD	<LLD	<LLD	2.04E-10	2.04E-10
Total for period	Ci	<LLD	<LLD	<LLD	2.96E-07	2.96E-07
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	1.35E-07	1.35E-07
Mn-54	Ci	<LLD	<LLD	<LLD	1.61E-07	1.61E-07
Co-57	Ci	<LLD	<LLD	<LLD	2.60E-10	2.60E-10
Co-58	Ci	<LLD	<LLD	<LLD	5.62E-08	5.62E-08
Fe-59	Ci	<LLD	<LLD	<LLD	3.80E-08	3.80E-08
Co-60	Ci	<LLD	<LLD	<LLD	3.78E-06	3.78E-06
Zn-65	Ci	<LLD	<LLD	<LLD	6.44E-08	6.44E-08
Nb-95	Ci	<LLD	<LLD	<LLD	4.67E-09	4.67E-09
Zr-95	Ci	<LLD	<LLD	<LLD	3.54E-09	3.54E-09
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	1.35E-08	1.35E-08
Sn-113	Ci	<LLD	<LLD	<LLD	9.12E-10	9.12E-10
Sn-117m	Ci	<LLD	<LLD	<LLD	1.35E-08	1.35E-08
Te-123m	Ci	<LLD	<LLD	<LLD	1.39E-08	1.39E-08
Sb-124	Ci	<LLD	<LLD	<LLD	9.14E-09	9.14E-09
Sb-125	Ci	<LLD	<LLD	<LLD	1.50E-09	1.50E-09

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	1.80E-05	1.80E-05	1.80E-05	1.80E-05	7.20E-05
Ba-140	Ci	<LLD	<LLD	<LLD	2.33E-09	2.33E-09
Ce-141	Ci	<LLD	<LLD	<LLD	5.86E-12	5.86E-12
Ce-144	Ci	<LLD	<LLD	<LLD	1.16E-09	1.16E-09
Hf-181	Ci	<LLD	<LLD	<LLD	1.33E-10	1.33E-10
Total for period	Ci	1.80E-05	1.80E-05	1.80E-05	2.23E-05	7.63E-05
4. Tritium						
Total for period	Ci	<LLD	<LLD	<LLD	1.05E-05	1.05E-05
5. Gross Alpha						
Total for period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
6. Carbon-14						
Total for period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

(*): The values in this table represent Unit 1 Main Turbine Floor and Unit 1 Fuel Building, Chemistry Laboratory Ventilation Effluent, East Turbine Building Ventilation System, and Units 2/3 Heating Steam System unmonitored effluents.

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNITS 1,2,3 GROUND (*) GROUND RELEASES BATCH MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-131m	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 and Halogens						
Br-82	Ci					
Br-84	Ci					
I-131	Ci					
I-132	Ci					
I-133	Ci					
I-134	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-57	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Nb-95	Ci					
Zr-95	Ci					
Mo-99	Ci					
Ag-110m	Ci					
Sn-113	Ci					
Sn-117m	Ci					
Te-123m	Ci					
Sb-124	Ci					
Sb-125	Ci					

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Hf-181	Ci					
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
4. Tritium						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
5. Gross Alpha						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
6. Carbon-14						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No batch releases via this effluent path

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNIT 1 GROUND (*) GROUND RELEASES CONTINUOUS MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci	N/A	N/A	N/A	N/A	N/A
Kr-85	Ci	N/A	N/A	N/A	N/A	N/A
Kr-85m	Ci	N/A	N/A	N/A	N/A	N/A
Kr-87	Ci	N/A	N/A	N/A	N/A	N/A
Kr-88	Ci	N/A	N/A	N/A	N/A	N/A
Xe-131m	Ci	N/A	N/A	N/A	N/A	N/A
Xe-133	Ci	N/A	N/A	N/A	N/A	N/A
Xe-133m	Ci	N/A	N/A	N/A	N/A	N/A
Xe-135	Ci	N/A	N/A	N/A	N/A	N/A
Xe-135m	Ci	N/A	N/A	N/A	N/A	N/A
Xe-138	Ci	N/A	N/A	N/A	N/A	N/A
Total for period	Ci	None	None	None	None	None
2. Iodines and Halogens						
Br-82	Ci	N/A	N/A	N/A	N/A	N/A
Br-84	Ci	N/A	N/A	N/A	N/A	N/A
I-131	Ci	N/A	N/A	N/A	N/A	N/A
I-132	Ci	N/A	N/A	N/A	N/A	N/A
I-133	Ci	N/A	N/A	N/A	N/A	N/A
I-134	Ci	N/A	N/A	N/A	N/A	N/A
I-135	Ci	N/A	N/A	N/A	N/A	N/A
Total for period	Ci	None	None	None	None	None
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-57	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	<LLD	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Nb-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-113	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-117m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Te-123m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-124	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-125	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	1.80E-05	1.80E-05	1.80E-05	1.80E-05	7.20E-05
Ba-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Hf-181	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	1.80E-05	1.80E-05	1.80E-05	1.80E-05	7.20E-05
4. Tritium						
Total for period	Ci	None	None	None	None	None
5. Gross Alpha						
Total for period	Ci	None	None	None	None	None
6. Carbon-14						
Total for period	Ci	None	None	None	None	None

(*): The values in this table represent Unit 1 Main Turbine Floor and Unit 1 Fuel Building unmonitored effluent.

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNIT 1 GROUND (*)		GROUND RELEASES				BATCH MODE
Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-131m	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 and Halogens						
Br-82	Ci					
Br-84	Ci					
I-131	Ci					
I-132	Ci					
I-133	Ci					
I-134	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-57	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Nb-95	Ci					
Zr-95	Ci					
Mo-99	Ci					
Ag-110m	Ci					
Sn-113	Ci					
Sn-117m	Ci					
Te-123m	Ci					
Sb-124	Ci					
Sb-125	Ci					

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Hf-181	Ci					
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
4. Tritium						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
5. Gross Alpha						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
6. Carbon-14						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No batch releases via this effluent path

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNIT 2 GROUND (*) GROUND RELEASES CONTINUOUS MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci	<LLD	<LLD	<LLD	1.10E-07	1.10E-07
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	<LLD	<LLD	<LLD	1.23E-07	1.23E-07
Kr-87	Ci	<LLD	<LLD	<LLD	9.70E-07	9.70E-07
Kr-88	Ci	<LLD	<LLD	<LLD	5.12E-07	5.12E-07
Xe-131m	Ci	<LLD	<LLD	<LLD	9.75E-10	9.75E-10
Xe-133	Ci	<LLD	<LLD	<LLD	2.26E-08	2.26E-08
Xe-133m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci	<LLD	<LLD	<LLD	6.37E-07	6.37E-07
Xe-135m	Ci	<LLD	<LLD	<LLD	5.00E-06	5.00E-06
Xe-138	Ci	<LLD	<LLD	<LLD	2.20E-05	2.20E-05
Total for period	Ci	<LLD	<LLD	<LLD	2.94E-05	2.94E-05
2. Iodines and Halogens						
Br-82	Ci	<LLD	<LLD	<LLD	5.95E-10	5.95E-10
Br-84	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-131	Ci	<LLD	<LLD	<LLD	2.81E-12	2.81E-12
I-132	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-133	Ci	<LLD	<LLD	<LLD	5.51E-11	5.51E-11
I-134	Ci	<LLD	<LLD	<LLD	9.14E-08	9.14E-08
I-135	Ci	<LLD	<LLD	<LLD	7.62E-11	7.62E-11
Total for period	Ci	<LLD	<LLD	<LLD	9.21E-08	9.21E-08
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	8.49E-08	8.49E-08
Mn-54	Ci	<LLD	<LLD	<LLD	7.73E-08	7.73E-08
Co-57	Ci	<LLD	<LLD	<LLD	1.37E-10	1.37E-10
Co-58	Ci	<LLD	<LLD	<LLD	3.06E-08	3.06E-08
Fe-59	Ci	<LLD	<LLD	<LLD	2.20E-08	2.20E-08
Co-60	Ci	<LLD	<LLD	<LLD	3.56E-06	3.56E-06
Zn-65	Ci	<LLD	<LLD	<LLD	2.92E-08	2.92E-08
Nb-95	Ci	<LLD	<LLD	<LLD	1.57E-09	1.57E-09
Zr-95	Ci	<LLD	<LLD	<LLD	1.23E-09	1.23E-09
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	5.81E-09	5.81E-09
Sn-113	Ci	<LLD	<LLD	<LLD	3.75E-10	3.75E-10
Sn-117m	Ci	<LLD	<LLD	<LLD	7.00E-09	7.00E-09
Te-123m	Ci	<LLD	<LLD	<LLD	7.21E-09	7.21E-09
Sb-124	Ci	<LLD	<LLD	<LLD	5.05E-09	5.05E-09
Sb-125	Ci	<LLD	<LLD	<LLD	8.11E-10	8.11E-10

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	<LLD	<LLD	<LLD	6.10E-10	6.10E-10
Ce-141	Ci	<LLD	<LLD	<LLD	1.96E-12	1.96E-12
Ce-144	Ci	<LLD	<LLD	<LLD	6.46E-10	6.46E-10
Hf-181	Ci	<LLD	<LLD	<LLD	1.23E-10	1.23E-10
Total for period	Ci	<LLD	<LLD	<LLD	3.83E-06	3.83E-06
4. Tritium						
Total for period	Ci	None	None	None	None	None
5. Gross Alpha						
Total for period	Ci	None	None	None	None	None
6. Carbon-14						
Total for period	Ci	None	None	None	None	None

(*): The values in this table represent Chemistry Laboratory Ventilation Effluent and East Turbine Building Ventilation System unmonitored effluents.

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

Licensee: Exelon Nuclear

UNIT 2 GROUND (*) GROUND RELEASES BATCH MODE

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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Hf-181	Ci					
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
4. Tritium						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
5. Gross Alpha						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
6. Carbon-14						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No batch releases via this effluent path

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNIT 3 GROUND (*) GROUND RELEASES CONTINUOUS MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci	<LLD	<LLD	<LLD	2.81E-07	2.81E-07
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	<LLD	<LLD	<LLD	1.58E-06	1.58E-06
Kr-87	Ci	<LLD	<LLD	<LLD	6.93E-06	6.93E-06
Kr-88	Ci	<LLD	<LLD	<LLD	5.35E-06	5.35E-06
Xe-131m	Ci	<LLD	<LLD	<LLD	5.40E-09	5.40E-09
Xe-133	Ci	<LLD	<LLD	<LLD	2.36E-06	2.36E-06
Xe-133m	Ci	<LLD	<LLD	<LLD	2.79E-05	2.79E-05
Xe-135	Ci	<LLD	<LLD	<LLD	6.25E-06	6.25E-06
Xe-135m	Ci	<LLD	<LLD	<LLD	2.79E-05	2.79E-05
Xe-138	Ci	<LLD	<LLD	<LLD	1.31E-04	1.31E-04
Total for period	Ci	<LLD	<LLD	<LLD	2.09E-04	2.09E-04
2. Iodines and Halogens						
Br-82	Ci	<LLD	<LLD	<LLD	2.19E-09	2.19E-09
Br-84	Ci	<LLD	<LLD	<LLD	3.66E-10	3.66E-10
I-131	Ci	<LLD	<LLD	<LLD	2.18E-10	2.18E-10
I-132	Ci	<LLD	<LLD	<LLD	3.40E-11	3.40E-11
I-133	Ci	<LLD	<LLD	<LLD	3.32E-10	3.32E-10
I-134	Ci	<LLD	<LLD	<LLD	2.01E-07	2.01E-07
I-135	Ci	<LLD	<LLD	<LLD	1.28E-10	1.28E-10
Total for period	Ci	<LLD	<LLD	<LLD	2.04E-07	2.04E-07
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	5.05E-08	5.05E-08
Mn-54	Ci	<LLD	<LLD	<LLD	8.38E-08	8.38E-08
Co-57	Ci	<LLD	<LLD	<LLD	1.23E-10	1.23E-10
Co-58	Ci	<LLD	<LLD	<LLD	2.56E-08	2.56E-08
Fe-59	Ci	<LLD	<LLD	<LLD	1.60E-08	1.60E-08
Co-60	Ci	<LLD	<LLD	<LLD	2.21E-07	2.21E-07
Zn-65	Ci	<LLD	<LLD	<LLD	3.52E-08	3.52E-08
Nb-95	Ci	<LLD	<LLD	<LLD	3.10E-09	3.10E-09
Zr-95	Ci	<LLD	<LLD	<LLD	2.31E-09	2.31E-09
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	7.70E-09	7.70E-09
Sn-113	Ci	<LLD	<LLD	<LLD	5.37E-10	5.37E-10
Sn-117m	Ci	<LLD	<LLD	<LLD	6.52E-09	6.52E-09
Te-123m	Ci	<LLD	<LLD	<LLD	6.72E-09	6.72E-09
Sb-124	Ci	<LLD	<LLD	<LLD	4.09E-09	4.09E-09
Sb-125	Ci	<LLD	<LLD	<LLD	6.86E-10	6.86E-10

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	<LLD	<LLD	<LLD	1.72E-09	1.72E-09
Ce-141	Ci	<LLD	<LLD	<LLD	3.90E-12	3.90E-12
Ce-144	Ci	<LLD	<LLD	<LLD	5.18E-10	5.18E-10
Hf-181	Ci	<LLD	<LLD	<LLD	9.70E-12	9.70E-12
Total for period	Ci	<LLD	<LLD	<LLD	4.66E-07	4.66E-07
4. Tritium						
Total for period	Ci	None	None	None	1.05E-05	1.05E-05
5. Gross Alpha						
Total for period	Ci	None	None	None	None	None
6. Carbon-14						
Total for period	Ci	None	None	None	None	None

(*): The values in this table represent Chemistry Laboratory Ventilation Effluent and Units 2/3 Heating Steam System unmonitored effluents.

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

Licensee: Exelon Nuclear

UNIT 3 GROUND (*) GROUND RELEASES BATCH MODE

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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Hf-181	Ci					
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
4. Tritium						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
5. Gross Alpha						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
6. Carbon-14						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No batch releases via this effluent path

DRESDEN NUCLEAR POWER STATION
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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNITS 1,2,3 MAIN CHIMNEYS ELEVATED RELEASES CONTINUOUS MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci	1.23E+00	1.35E+00	1.23E+00	1.09E+00	4.90E+00
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	9.50E-01	1.67E+00	2.34E+00	1.94E+00	6.90E+00
Kr-87	Ci	3.38E-01	4.86E-01	6.54E-01	6.09E-01	2.09E+00
Kr-88	Ci	5.17E-01	8.69E-01	1.21E+00	9.88E-01	3.58E+00
Xe-131m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	9.55E+00	6.12E+00	8.76E+00	1.09E+01	3.53E+01
Xe-133m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci	6.71E+00	3.99E+00	5.20E+00	6.55E+00	2.25E+01
Xe-135m	Ci	1.54E+00	2.06E+00	2.41E+00	2.39E+00	8.39E+00
Xe-138	Ci	6.11E+00	8.23E+00	9.53E+00	8.66E+00	3.25E+01
Total for period	Ci	2.69E+01	2.48E+01	3.13E+01	3.31E+01	1.16E+02
2. Iodines and Halogens						
Br-82	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Br-84	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-131	Ci	4.95E-04	8.45E-04	1.15E-03	7.44E-04	3.24E-03
I-132	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-133	Ci	2.71E-03	6.25E-03	8.41E-03	3.51E-03	2.09E-02
I-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-135	Ci	4.63E-03	8.58E-03	1.28E-02	3.58E-03	2.96E-02
Total for period	Ci	7.84E-03	1.57E-02	2.24E-02	7.83E-03	5.37E-02
3. Particulates						
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	6.80E-05	7.52E-05	7.26E-05	8.70E-05	3.03E-04
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cr-51	Ci	5.10E-05	<LLD	<LLD	<LLD	5.10E-05
Mn-54	Ci	2.76E-04	1.74E-04	3.52E-04	2.08E-04	1.01E-03
Co-57	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	2.03E-04	3.64E-04	6.81E-04	2.64E-04	1.51E-03
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	1.01E-03	1.05E-03	1.63E-03	8.74E-04	4.57E-03
Zn-65	Ci	4.47E-04	9.18E-04	2.23E-03	7.67E-04	4.36E-03
Nb-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	1.08E-05	5.48E-05	1.08E-04	3.07E-05	2.04E-04
Sn-113	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-117m	Ci	1.71E-05	3.04E-05	<LLD	<LLD	4.75E-05
Te-123m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-124	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-125	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	1.22E-04	2.92E-04	2.86E-04	2.85E-04	9.84E-04
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Hf-181	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	2.21E-03	2.96E-03	5.35E-03	2.51E-03	1.30E-02
4. Tritium						
Total for period	Ci	4.70E+00	2.65E-01	7.83E-02	1.83E-01	5.22E+00
5. Gross Alpha						
Total for period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
6. Carbon-14						
Total for period	Ci	6.76E+00	7.41E+00	7.35E+00	6.28E+00	2.78E+01

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNITS 1,2,3 MAIN CHIMNEYS (*) ELEVATED RELEASES BATCH MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-131m	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 and Halogens						
Br-82	Ci					
Br-84	Ci					
I-131	Ci					
I-132	Ci					
I-133	Ci					
I-134	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-57	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Nb-95	Ci					
Zr-95	Ci					
Mo-99	Ci					
Ag-110m	Ci					
Sn-113	Ci					
Sn-117m	Ci					
Te-123m	Ci					
Sb-124	Ci					
Sb-125	Ci					

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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Hf-181	Ci					
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
4. Tritium						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
5. Gross Alpha						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
6. Carbon-14						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No batch releases via this effluent path

DRESDEN NUCLEAR POWER STATION
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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNIT 1 MAIN CHIMNEY (*) ELEVATED RELEASES CONTINUOUS MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-131m	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 and Halogens						
Br-82	Ci					
Br-84	Ci					
I-131	Ci					
I-132	Ci					
I-133	Ci					
I-134	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					
Co-57	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Nb-95	Ci					
Zr-95	Ci					
Mo-99	Ci					
Ag-110m	Ci					
Sn-113	Ci					
Sn-117m	Ci					
Te-123m	Ci					
Sb-124	Ci					
Sb-125	Ci					
Cs-134	Ci					

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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Hf-181	Ci					
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
4. Tritium						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
5. Gross Alpha						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
6. Carbon-14						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No continuous releases via this effluent path

DRESDEN NUCLEAR POWER STATION
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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNIT 1 MAIN CHIMNEY (*) ELEVATED RELEASES BATCH MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-131m	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 and Halogens						
Br-82	Ci					
Br-84	Ci					
I-131	Ci					
I-132	Ci					
I-133	Ci					
I-134	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-57	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Nb-95	Ci					
Zr-95	Ci					
Mo-99	Ci					
Ag-110m	Ci					
Sn-113	Ci					
Sn-117m	Ci					
Te-123m	Ci					
Sb-124	Ci					
Sb-125	Ci					

DRESDEN NUCLEAR POWER STATION
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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Hf-181	Ci					
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
4. Tritium						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
5. Gross Alpha						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
6. Carbon-14						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No batch releases via this effluent path

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNIT 2 MAIN CHIMNEY ELEVATED RELEASES CONTINUOUS MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci	2.18E-01	2.54E-01	1.47E-01	7.41E-02	6.94E-01
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	8.12E-02	9.42E-02	6.96E-02	2.66E-02	2.72E-01
Kr-87	Ci	1.17E-01	1.30E-01	1.34E-01	9.76E-02	4.79E-01
Kr-88	Ci	7.85E-02	8.26E-02	7.88E-02	5.18E-02	2.92E-01
Xe-131m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	3.00E+00	2.71E-01	2.34E-01	6.86E-02	3.58E+00
Xe-133m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci	2.76E+00	1.28E+00	1.39E+00	1.13E+00	6.55E+00
Xe-135m	Ci	6.05E-01	6.51E-01	6.37E-01	4.50E-01	2.34E+00
Xe-138	Ci	2.63E+00	2.84E+00	2.80E+00	1.88E+00	1.02E+01
Total for period	Ci	9.49E+00	5.60E+00	5.49E+00	3.78E+00	2.44E+01
2. Iodines and Halogens						
Br-82	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Br-84	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-131	Ci	2.61E-04	3.81E-04	5.00E-04	3.51E-04	1.49E-03
I-132	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-133	Ci	1.46E-03	2.80E-03	3.65E-03	1.90E-03	9.81E-03
I-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-135	Ci	2.51E-03	3.84E-03	5.62E-03	2.33E-03	1.43E-02
Total for period	Ci	4.23E-03	7.02E-03	9.77E-03	4.58E-03	2.56E-02
3. Particulates						
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	3.58E-05	3.49E-05	3.09E-05	3.73E-05	1.39E-04
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cr-51	Ci	2.70E-05	<LLD	<LLD	<LLD	2.70E-05
Mn-54	Ci	1.41E-04	7.80E-05	1.50E-04	1.14E-04	4.83E-04
Co-57	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	1.03E-04	1.63E-04	2.93E-04	1.60E-04	7.18E-04
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	5.18E-04	4.77E-04	7.09E-04	4.83E-04	2.19E-03
Zn-65	Ci	2.37E-04	4.09E-04	9.71E-04	4.66E-04	2.08E-03
Nb-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	5.56E-06	2.43E-05	4.50E-05	1.86E-05	9.34E-05
Sn-113	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-117m	Ci	1.02E-05	1.40E-05	<LLD	<LLD	2.43E-05
Te-123m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-124	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-125	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

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EFFLUENT AND WASTE DISPOSAL SUMMARY
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Facility: Dresden Nuclear Power Station Units 1,2,3

Licensee: Exelon Nuclear

Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	6.65E-05	1.30E-04	1.41E-04	1.47E-04	4.84E-04
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Hf-181	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	1.14E-03	1.33E-03	2.34E-03	1.43E-03	6.24E-03
4. Tritium						
Total for period	Ci	2.32E+00	1.21E-01	3.96E-02	8.23E-02	2.56E+00
5. Gross Alpha						
Total for period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
6. Carbon-14						
Total for period	Ci	3.25E+00	3.70E+00	3.64E+00	2.92E+00	1.35E+01

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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNIT 2 MAIN CHIMNEY (*) ELEVATED RELEASES BATCH MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-131m	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 and Halogens						
Br-82	Ci					
Br-84	Ci					
I-131	Ci					
I-132	Ci					
I-133	Ci					
I-134	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-57	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Nb-95	Ci					
Zr-95	Ci					
Mo-99	Ci					
Ag-110m	Ci					
Sn-113	Ci					
Sn-117m	Ci					
Te-123m	Ci					
Sb-124	Ci					
Sb-125	Ci					

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Hf-181	Ci					
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
4. Tritium						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
5. Gross Alpha						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
6. Carbon-14						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No batch releases via this effluent path

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNIT 3 MAIN CHIMNEY ELEVATED RELEASES CONTINUOUS MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci	1.01E+00	1.10E+00	1.08E+00	1.02E+00	4.20E+00
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	8.69E-01	1.58E+00	2.27E+00	1.92E+00	6.63E+00
Kr-87	Ci	2.21E-01	3.56E-01	5.20E-01	5.11E-01	1.61E+00
Kr-88	Ci	4.38E-01	7.86E-01	1.13E+00	9.36E-01	3.29E+00
Xe-131m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	6.55E+00	5.85E+00	8.53E+00	1.08E+01	3.18E+01
Xe-133m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci	3.95E+00	2.71E+00	3.81E+00	5.43E+00	1.59E+01
Xe-135m	Ci	9.32E-01	1.40E+00	1.77E+00	1.94E+00	6.04E+00
Xe-138	Ci	3.48E+00	5.39E+00	6.73E+00	6.78E+00	2.24E+01
Total for period	Ci	1.74E+01	1.92E+01	2.58E+01	2.94E+01	9.18E+01
2. Iodines and Halogens						
Br-82	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Br-84	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-131	Ci	2.34E-04	4.64E-04	6.51E-04	3.93E-04	1.74E-03
I-132	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-133	Ci	1.25E-03	3.44E-03	4.76E-03	1.61E-03	1.11E-02
I-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-135	Ci	2.12E-03	4.74E-03	7.22E-03	1.25E-03	1.53E-02
Total for period	Ci	3.61E-03	8.65E-03	1.26E-02	3.25E-03	2.81E-02
3. Particulates						
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	3.22E-05	4.03E-05	4.17E-05	4.96E-05	1.64E-04
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cr-51	Ci	2.40E-05	<LLD	<LLD	<LLD	2.40E-05
Mn-54	Ci	1.35E-04	9.57E-05	2.02E-04	9.35E-05	5.27E-04
Co-58	Ci	9.99E-05	2.01E-04	3.89E-04	1.04E-04	7.93E-04
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-57	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	4.95E-04	5.76E-04	9.19E-04	3.91E-04	2.38E-03
Zn-65	Ci	2.10E-04	5.09E-04	1.26E-03	3.00E-04	2.27E-03
Nb-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	5.25E-06	3.04E-05	6.31E-05	1.22E-05	1.11E-04
Sn-113	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-117m	Ci	6.93E-06	1.63E-05	<LLD	<LLD	2.33E-05
Te-123m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-124	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-125	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	5.51E-05	1.62E-04	1.45E-04	1.38E-04	5.00E-04
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Hf-181	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	1.06E-03	1.63E-03	3.01E-03	1.09E-03	6.80E-03
4. Tritium						
Total for period	Ci	2.38E+00	1.44E-01	3.88E-02	1.00E-01	2.66E+00
5. Gross Alpha						
Total for period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
6. Carbon-14						
Total for period	Ci	3.51E+00	3.71E+00	3.71E+00	3.36E+00	1.43E+01

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNIT 3 MAIN CHIMNEY (*) ELEVATED RELEASES BATCH MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-131m	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 and Halogens						
Br-82	Ci					
Br-84	Ci					
I-131	Ci					
I-132	Ci					
I-133	Ci					
I-134	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-57	Ci					
Co-60	Ci					
Zn-65	Ci					
Nb-95	Ci					
Zr-95	Ci					
Mo-99	Ci					
Ag-110m	Ci					
Sn-113	Ci					
Sn-117m	Ci					
Te-123m	Ci					
Sb-124	Ci					
Sb-125	Ci					

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Hf-181	Ci					
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
4. Tritium						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
5. Gross Alpha						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
6. Carbon-14						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No batch releases via this effluent path

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNITS 1,2,3 (*) MIXED MODE RELEASES CONTINUOUS MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
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-131m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	5.30E+01	6.05E-01	<LLD	1.69E+00	5.53E+01
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	5.30E+01	6.05E-01	<LLD	1.69E+00	5.53E+01
2. Iodines and Halogens						
Br-82	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Br-84	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-131	Ci	<LLD	<LLD	2.75E-06	1.81E-05	2.09E-05
I-132	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-133	Ci	7.82E-06	6.30E-06	<LLD	5.17E-06	1.93E-05
I-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	7.82E-06	6.30E-06	2.75E-06	2.33E-05	4.01E-05
3. Particulates						
Cr-51	Ci	5.44E-06	<LLD	<LLD	4.83E-05	5.37E-05
Mn-54	Ci	<LLD	1.46E-06	<LLD	1.32E-05	1.46E-05
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-57	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	<LLD	<LLD	4.04E-06	4.04E-06
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	2.15E-05	1.97E-05	1.03E-05	7.77E-05	1.29E-04
Zn-65	Ci	<LLD	<LLD	<LLD	4.61E-06	4.61E-06
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Nb-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-113	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-117m	Ci	<LLD	<LLD	<LLD	8.23E-07	8.23E-07
Te-123m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-124	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-125	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

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
Hf-181	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	2.69E-05	2.12E-05	1.03E-05	1.49E-04	2.07E-04
4. Tritium						
Total for period	Ci	5.98E-01	2.24E-01	1.50E-01	2.51E-01	1.22E+00
5. Gross Alpha						
Total for period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
6. Carbon-14						
Total for period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

(*): Units 1,2,3 mixed modes releases include Unit 1 Chemical Cleaning Building, Unit 2 Reactor Building Vent and Unit 3 Reactor Building Vent.

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNITS 1,2,3 (*) MIXED MODE RELEASES BATCH MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-131m	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 and Halogens						
Br-82	Ci					
Br-84	Ci					
I-131	Ci					
I-132	Ci					
I-133	Ci					
I-134	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-57	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Nb-95	Ci					
Zr-95	Ci					
Mo-99	Ci					
Ag-110m	Ci					
Sn-113	Ci					
Sn-117m	Ci					
Te-123m	Ci					
Sb-124	Ci					
Sb-125	Ci					

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Hf-181	Ci					
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
4. Tritium						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
5. Gross Alpha						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
6. Carbon-14						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): Units 1,2,3 mixed modes releases include Unit 1 Chemical Cleaning Building, Unit 2 Reactor Building Vent and Unit 3 Reactor Building Vent. No batch releases via these effluent paths.

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNIT 1 CHEMICAL CLEANING BUILDING MIXED MODE RELEASES CONTINUOUS MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci	N/A	N/A	N/A	N/A	N/A
Kr-85	Ci	N/A	N/A	N/A	N/A	N/A
Kr-85m	Ci	N/A	N/A	N/A	N/A	N/A
Kr-87	Ci	N/A	N/A	N/A	N/A	N/A
Kr-88	Ci	N/A	N/A	N/A	N/A	N/A
Xe-131m	Ci	N/A	N/A	N/A	N/A	N/A
Xe-133	Ci	N/A	N/A	N/A	N/A	N/A
Xe-133m	Ci	N/A	N/A	N/A	N/A	N/A
Xe-135	Ci	N/A	N/A	N/A	N/A	N/A
Xe-135m	Ci	N/A	N/A	N/A	N/A	N/A
Xe-138	Ci	N/A	N/A	N/A	N/A	N/A
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
2. Iodines and Halogens						
Br-82	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Br-84	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
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-57	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	6.27E-07	2.53E-07	1.26E-07	5.09E-07	1.52E-06
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Nb-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-113	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-117m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Te-123m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-124	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-125	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

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
Hf-181	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	6.27E-07	2.53E-07	1.26E-07	5.09E-07	1.52E-06
4. Tritium						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
5. Gross Alpha						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
6. Carbon-14						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): Analysis not required per Dresden Station ODCM

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNIT 1 CHEMICAL CLEANING BUILDING (*) MIXED MODE RELEASES BATCH MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-131m	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 and Halogens						
Br-82	Ci					
Br-84	Ci					
I-131	Ci					
I-132	Ci					
I-133	Ci					
I-134	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-57	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Nb-95	Ci					
Zr-95	Ci					
Mo-99	Ci					
Ag-110m	Ci					
Sn-113	Ci					
Sn-117m	Ci					
Te-123m	Ci					
Sb-124	Ci					
Sb-125	Ci					

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January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Hf-181	Ci					
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
4. Tritium						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
5. Gross Alpha						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
6. Carbon-14						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No batch releases via this effluent path

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNIT 2 REACTOR BUILDING VENT MIXED MODE RELEASES CONTINUOUS MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
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-131m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	2.32E+01	2.30E-01	<LLD	2.72E-01	2.37E+01
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	2.32E+01	2.30E-01	<LLD	2.72E-01	2.37E+01
2. Iodines and Halogens						
Br-82	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Br-84	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-131	Ci	<LLD	<LLD	1.62E-06	6.38E-06	8.00E-06
I-132	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-133	Ci	3.39E-06	3.77E-06	<LLD	1.85E-06	9.01E-06
I-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	3.39E-06	3.77E-06	1.62E-06	8.23E-06	1.70E-05
3. Particulates						
Cr-51	Ci	<LLD	<LLD	<LLD	2.04E-05	2.04E-05
Mn-54	Ci	<LLD	1.46E-06	<LLD	5.71E-06	7.17E-06
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-57	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	<LLD	<LLD	1.71E-06	1.71E-06
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	1.16E-05	1.47E-05	4.65E-06	3.43E-05	6.52E-05
Zn-65	Ci	<LLD	<LLD	<LLD	1.95E-06	1.95E-06
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Nb-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-113	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-117m	Ci	<LLD	<LLD	<LLD	3.48E-07	3.48E-07
Te-123m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-124	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-125	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

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
Hf-181	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	1.16E-05	1.61E-05	4.65E-06	6.44E-05	9.68E-05
4. Tritium						
Total for period	Ci	2.90E-01	1.06E-01	5.46E-02	1.03E-01	5.53E-01
5. Gross Alpha						
Total for period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
6. Carbon-14						
Total for period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNIT 2 REACTOR BUILDING VENT (*) MIXED MODE RELEASES BATCH MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-131m	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 and Halogens						
Br-82	Ci					
Br-84	Ci					
I-131	Ci					
I-132	Ci					
I-133	Ci					
I-134	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-57	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Nb-95	Ci					
Zr-95	Ci					
Mo-99	Ci					
Ag-110m	Ci					
Sn-113	Ci					
Sn-117m	Ci					
Te-123m	Ci					
Sb-124	Ci					
Sb-125	Ci					

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Hf-181	Ci					
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
4. Tritium						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
5. Gross Alpha						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
6. Carbon-14						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No batch releases via this effluent path

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNIT 3 REACTOR BUILDING VENT MIXED MODE RELEASES CONTINUOUS MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
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-131m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	2.97E+01	3.75E-01	<LLD	1.42E+00	3.15E+01
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	2.97E+01	3.75E-01	<LLD	1.42E+00	3.15E+01
2. Iodines and Halogens						
Br-82	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Br-84	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-131	Ci	<LLD	<LLD	1.14E-06	1.17E-05	1.29E-05
I-132	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-133	Ci	4.43E-06	2.53E-06	<LLD	3.32E-06	1.03E-05
I-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	4.43E-06	2.53E-06	1.14E-06	1.50E-05	2.31E-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	5.44E-06	<LLD	<LLD	2.79E-05	3.33E-05
Mn-54	Ci	<LLD	<LLD	<LLD	7.45E-06	7.45E-06
Co-57	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	<LLD	<LLD	2.33E-06	2.33E-06
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	9.20E-06	4.79E-06	5.56E-06	4.29E-05	6.25E-05
Zn-65	Ci	<LLD	<LLD	<LLD	2.66E-06	2.66E-06
Nb-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-113	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-117m	Ci	<LLD	<LLD	<LLD	4.75E-07	4.75E-07
Te-123m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-124	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-125	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

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
Hf-181	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for period	Ci	1.46E-05	4.79E-06	5.56E-06	8.37E-05	1.09E-04
4. Tritium						
Total for period	Ci	3.08E-01	1.19E-01	9.52E-02	1.48E-01	6.70E-01
5. Gross Alpha						
Total for period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
6. Carbon-14						
Total for period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

GASEOUS EFFLUENTS

UNIT 3 REACTOR BUILDING VENT (*) MIXED MODE RELEASES BATCH MODE

Nuclides Released	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	ANNUAL
1. Fission and Activation Gases						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-131m	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 and Halogens						
Br-82	Ci					
Br-84	Ci					
I-131	Ci					
I-132	Ci					
I-133	Ci					
I-134	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-57	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Nb-95	Ci					
Zr-95	Ci					
Mo-99	Ci					
Ag-110m	Ci					
Sn-113	Ci					
Sn-117m	Ci					
Te-123m	Ci					
Sb-124	Ci					
Sb-125	Ci					
Cs-134	Ci					

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
Hf-181	Ci					
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
4. Tritium						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
5. Gross Alpha						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)
6. Carbon-14						
Total for period	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No batch releases via this effluent path

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

UNITS 1,2,3 (*) LIQUID EFFLUENTS SUMMATION OF ALL RELEASES

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	<LLD	<LLD	3.19E-03	<LLD	1.95E+01
2. Average diluted concentration during period	µCi/ml	0.00E+00	0.00E+00	1.35E-12	0.00E+00	
3. Percent of applicable dose limit - organ	% (**)	N/A	N/A	7.36E-03	N/A	

B. Tritium

1. Total release	Ci	1.81E-01	1.36E-01	3.06E+00	2.30E-01	2.37E+00
2. Average diluted concentration during period	µCi/ml	7.92E-11	5.87E-11	1.30E-09	9.83E-11	
3. Percent of applicable dose limit - whole body	% (**)	4.42E-05	3.31E-05	1.57E-02	5.61E-05	

C. Dissolved and entrained gases

1. Total release	Ci	<LLD	<LLD	6.48E-05	<LLD	2.03E+01
2. Average diluted concentration during period	µCi/ml	0.00E+00	0.00E+00	2.75E-14	0.00E+00	
3. Percent of applicable dose limit - organ	% (**)	N/A	N/A	7.36E-03	N/A	

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	4.91E+06	4.96E+06	2.05E+07	5.01E+06
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F. Volume of dilution water used during period	Liters	2.29E+12	2.32E+12	2.36E+12	2.34E+12
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(*): The values in these tables include Storm Sewer System unmonitored effluent path, and Containment Cooling Service Water batch releases.

(**): These percentages are calculated referencing the quarterly "per unit" limits

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

UNIT 1 LIQUID EFFLUENTS SUMMATION OF ALL RELEASES

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	<LLD	<LLD	<LLD	<LLD	1.95E+01
2. Average diluted concentration during period	μCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3. Percent of applicable dose limit - organ	%	N/A	N/A	N/A	N/A	

B. Tritium

1. Total release	Ci	<LLD	<LLD	<LLD	<LLD	2.37E+00
2. Average diluted concentration during period	μCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3. Percent of applicable dose limit - whole body	%	N/A	N/A	N/A	N/A	

C. Dissolved and entrained gases

1. Total release	Ci	<LLD	<LLD	<LLD	<LLD	2.03E+01
2. Average diluted concentration during period	μCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3. Percent of applicable dose limit - organ	%	N/A	N/A	N/A	N/A	

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	N/A	N/A	N/A	N/A
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F. Volume of dilution water used during period	Liters	N/A	N/A	N/A	N/A
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DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

UNIT 2 (*) LIQUID EFFLUENTS SUMMATION OF ALL RELEASES

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	<LLD	<LLD	<LLD	<LLD	1.95E+01
2. Average diluted concentration during period	µCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3. Percent of applicable dose limit - organ	%	N/A	N/A	N/A	N/A	

B. Tritium

1. Total release	Ci	9.07E-02	6.80E-02	5.54E-02	1.15E-01	2.37E+00
2. Average diluted concentration during period	µCi/ml	7.92E-11	5.87E-11	4.73E-11	9.83E-11	
3. Percent of applicable dose limit - whole body	%	2.21E-05	1.65E-05	1.35E-05	2.80E-05	

C. Dissolved and entrained gases

1. Total release	Ci	<LLD	<LLD	<LLD	<LLD	2.03E+01
2. Average diluted concentration during period	µCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3. Percent of applicable dose limit - organ	%	N/A	N/A	N/A	N/A	

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	2.45E+06	2.48E+06	2.51E+06	2.51E+06
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F. Volume of dilution water used during period	Liters	1.15E+12	1.16E+12	1.17E+12	1.17E+12
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(*): The values in these tables include the Storm Sewer System unmonitored effluent path. The Storm Sewer System is 50% allocated to Unit 2.

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

UNIT 3 (*) LIQUID EFFLUENTS SUMMATION OF ALL RELEASES

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	<LLD	<LLD	3.19E-03	<LLD	1.95E+01
2. Average diluted concentration during period	µCi/ml	0.00E+00	0.00E+00	2.69E-12	0.00E+00	
3. Percent of applicable dose limit - organ	%	N/A	N/A	7.36E-03	N/A	

B. Tritium

1. Total release	Ci	9.07E-02	6.80E-02	3.00E+00	1.15E-01	2.37E+00
2. Average diluted concentration during period	µCi/ml	7.92E-11	5.87E-11	2.53E-09	9.83E-11	
3. Percent of applicable dose limit - whole body	%	2.21E-05	1.65E-05	1.57E-02	2.80E-05	

C. Dissolved and entrained gases

1. Total release	Ci	<LLD	<LLD	6.48E-05	<LLD	2.03E+01
2. Average diluted concentration during period	µCi/ml	0.00E+00	0.00E+00	5.45E-14	0.00E+00	
3. Percent of applicable dose limit - organ	%	N/A	N/A	7.36E-03	N/A	

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	2.45E+06	2.48E+06	1.80E+07	2.51E+06
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F. Volume of dilution water used during period	Liters	1.15E+12	1.16E+12	1.19E+12	1.17E+12
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(*): The values in these tables include the Storm Sewer System unmonitored effluent path and Containment Cooling Service Water batch releases. The Storm Sewer System is 50% allocated to Unit 3.

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015
EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

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.

DRESDEN NUCLEAR POWER STATION
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DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

LIQUID EFFLUENTS

UNIT 1 SEWAGE TREATMENT PLANT (*)

CONTINUOUS MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Annual
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-133	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	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	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-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

H-3	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

(*): The Sewage Treatment Plant is 100% allocated to Unit 1.

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

LIQUID EFFLUENTS

UNIT 1 SEWAGE TREATMENT PLANT (*)

BATCH MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Annual
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
I-131	Ci					
I-133	Ci					
I-135	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Zr-95	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-140	Ci					
Ce-141	Ci					
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					
Total	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No batch releases via this effluent path

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

LIQUID EFFLUENTS

UNIT 2 STORM SEWER SYSTEM (*)

CONTINUOUS MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Annual
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-133	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	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	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-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

H-3	Ci	9.07E-02	6.80E-02	5.54E-02	1.15E-01	3.29E-01
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
Total	Ci	9.07E-02	6.80E-02	5.54E-02	1.15E-01	3.29E-01

(*): The Storm Sewer System is 50% allocated to Unit 2.

DRESDEN NUCLEAR POWER STATION
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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

LIQUID EFFLUENTS

UNIT 2 STORM SEWER SYSTEM (*)

BATCH MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Annual
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
I-131	Ci					
I-133	Ci					
I-135	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Zr-95	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-140	Ci					
Ce-141	Ci					
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					
Total	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No batch releases via this effluent path

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

LIQUID EFFLUENTS

UNIT 3 STORM SEWER SYSTEM (*)

CONTINUOUS MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Annual
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-133	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	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	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-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

H-3	Ci	9.07E-02	6.80E-02	5.54E-02	1.15E-01	3.29E-01
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
Total	Ci	9.07E-02	6.80E-02	5.54E-02	1.15E-01	3.29E-01

(*): The Storm Sewer System is 50% allocated to Unit 3.

DRESDEN NUCLEAR POWER STATION
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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

LIQUID EFFLUENTS

UNIT 2 STORM SEWER SYSTEM (*)

BATCH MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Annual
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
I-131	Ci					
I-133	Ci					
I-135	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Zr-95	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-140	Ci					
Ce-141	Ci					
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					
Total	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No batch releases via this effluent path

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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EFFLUENT AND WASTE DISPOSAL SUMMARY
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Facility: Dresden Nuclear Power Station Units 1,2,3

Licensee: Exelon Nuclear

LIQUID EFFLUENTS

UNIT 2 RADWASTE (*)

CONTINUOUS MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Annual
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
I-131	Ci					
I-133	Ci					
I-135	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Zr-95	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-140	Ci					
Ce-141	Ci					
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					
Total	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No continuous releases via this effluent path

DRESDEN NUCLEAR POWER STATION
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EFFLUENT AND WASTE DISPOSAL SUMMARY
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Facility: Dresden Nuclear Power Station Units 1,2,3

Licensee: Exelon Nuclear

LIQUID EFFLUENTS

UNIT 2 RADWASTE (*)

BATCH MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Annual
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
I-131	Ci					
I-133	Ci					
I-135	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Zr-95	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-140	Ci					
Ce-141	Ci					
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					
Total	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No batch releases via this effluent path

DRESDEN NUCLEAR POWER STATION
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EFFLUENT AND WASTE DISPOSAL SUMMARY
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Licensee: Exelon Nuclear

LIQUID EFFLUENTS

UNIT 3 RADWASTE (*)

CONTINUOUS MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Annual
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
I-131	Ci					
I-133	Ci					
I-135	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Zr-95	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-140	Ci					
Ce-141	Ci					
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					
Total	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No continuous releases via this effluent path.

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

LIQUID EFFLUENTS

UNIT 3 RADWASTE (*)

BATCH MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Annual
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
I-131	Ci					
I-133	Ci					
I-135	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Zr-95	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-140	Ci					
Ce-141	Ci					
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					
Total	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No batch releases via this effluent path

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

LIQUID EFFLUENTS

UNIT 2 CONTAINMENT COOLING SERVICE WATER (*)

CONTINUOUS MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Annual
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
I-131	Ci					
I-133	Ci					
I-135	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Zr-95	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-140	Ci					
Ce-141	Ci					
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					
Total	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No continuous releases via this effluent path

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

LIQUID EFFLUENTS

UNIT 2 CONTAINMENT COOLING SERVICE WATER

BATCH MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Annual
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-133	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	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	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-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

H-3	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

LIQUID EFFLUENTS

UNIT 3 CONTAINMENT COOLING SERVICE WATER (*)

CONTINUOUS MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Annual
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
I-131	Ci					
I-133	Ci					
I-135	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
Zr-95	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-140	Ci					
Ce-141	Ci					
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					
Total	Ci	None (*)	None (*)	None (*)	None (*)	None (*)

(*): No continuous releases via this effluent path

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

EFFLUENT AND WASTE DISPOSAL SUMMARY
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

LIQUID EFFLUENTS

UNIT 3 CONTAINMENT COOLING SERVICE WATER

BATCH MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Annual
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-133	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	<LLD	<LLD	6.82E-04	<LLD	6.82E-04
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	<LLD	<LLD	1.82E-03	<LLD	1.82E-03
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	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	6.94E-04	<LLD	6.94E-04
Ba-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total	Ci	<LLD	<LLD	3.19E-03	<LLD	3.19E-03

H-3	Ci	<LLD	<LLD	2.95E+00	<LLD	2.95E+00
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	6.48E-05	<LLD	6.48E-05
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total	Ci	<LLD	<LLD	2.95E+00	<LLD	2.95E+00

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

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

1. Types of Waste

Type of Waste	Unit	12-Month Period	Est. Total Error, %
a. Spent resins, filter sludges / filters, evaporator bottoms, etc.	m ³	5.47E+01	+/- 2.50E+01
	Ci	1.70E+02	
b. Dry compressible waste, contaminated equipment, etc.	m ³	1.25E+03	+/- 2.50E+01
	Ci	8.79E+01	
c. Irradiated components, control rods, etc.	m ³	0.00E+00	N/A
	Ci	0.00E+00	
d. Other - Contaminated Oil	m ³	5.66E+00	+/- 2.50E+01
	Ci	2.47E-03	

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

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

Nuclide	Percent %	Curies
Fe-55	42.39	7.20E+01
Co-60	36.15	6.13E+01
Cs-137	14.26	2.42E+01
Zn-65	4.55	7.72E+00
Mn-54	1.85	3.13E+00

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

b. Dry compressible waste, contaminated equipment, etc.

Nuclide	Percent %	Curies
Fe-55	67.67	5.95E+01
Co-60	16.74	1.47E+01
Co-58	8.31	7.31E+00
Mn-54	4.31	3.79E+00
Ni-63	1.43	1.26E+00
Zn-65	1.07	9.44E-01

Shipment type: LSA
Solidification agent or absorbent: None

c. Irradiated components, control rods, etc.

Nuclide	Percent %	Curies
NONE	N/A	N/A

d. Other - Contaminated Oil

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

<u>Nuclide</u>	<u>Percent %</u>	<u>Curies</u>
Co-60	50.58	1.25E-03
Fe-55	28.41	7.03E-04
Mn-54	12.61	3.12E-04
Zn-65	4.80	1.19E-04
Fe-59	1.36	3.36E-05

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
30	Motor freight (exclusive use only)	Energy Solutions - Bear Creek Road, Oak Ridge, TN
12	Motor freight (exclusive use only)	Energy Solutions - Clive, UT
3	Motor freight (exclusive use only)	Waste Control Specialists - Andrew, TX

B. IRRADIATED FUEL SHIPMENTS (DISPOSITION)

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
NONE	N/A	N/A

C. CHANGES TO THE PROCESS CONTROL PROGRAM

No changes were made to the DNPS radioactive liquid, gaseous, or solid waste treatment systems in 2015.

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

RADIOLOGICAL IMPACT ON MAN
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

1. Doses to a Member of the Public due to Liquid Releases in 2015 (from 01/01/2015 to 12/31/2015):

UNITS 1,2,3

Total Body: 2.38E-04 mrem

Organ: 3.69E-04 mrem

UNIT 1

Total Body: N/A

Organ: N/A

UNIT 2

Total Body: 1.20E-06 mrem

Organ: 1.20E-06 mrem

UNIT 3

Total Body: 2.37E-04 mrem

Organ: 3.69E-04 mrem

The above annual liquid dose values are reported per Dresden-site (UNITS 1,2,3) as well as per each individual reactor unit (UNIT 1, UNIT 2, UNIT 3). Regulatory annual liquid dose limits are listed on page 1 section 1.d.3) and section 1.d.4), of this report as well as in Dresden ODCM. The above annual liquid dose values are well below any regulatory limits.

2. Doses to a Member of the Public due to Gaseous Releases in 2015 (from 01/01/2015 to 12/31/2015):

UNITS 1,2,3

Gamma air (fission and activation gases): 3.64E-03 mrad

Beta air (fission and activation gases): 9.26E-04 mrad

Total Body (noble gases): 2.46E-03 mrem

Skin (noble gases): 4.34E-03 mrem

Organ - thyroid (radioiodines/tritium/particulates): 2.00E-01 mrem

UNIT 1

Gamma air (fission and activation gases): N/A

Beta air (fission and activation gases): N/A

Total Body (noble gases): N/A

Skin (noble gases): N/A

Organ - liver (radioiodines/tritium/particulates): 2.71E-03 mrem

UNIT 2

Gamma air (fission and activation gases): 9.71E-04 mrad

Beta air (fission and activation gases): 3.71E-04 mrad

Total Body (noble gases): 6.65E-04 mrem

Skin (noble gases): 1.20E-03 mrem

Organ - thyroid (radioiodines/tritium/particulates): 9.26E-02 mrem

UNIT 3

Gamma air (fission and activation gases): 2.67E-03 mrad

Beta air (fission and activation gases): 5.55E-04 mrad

Total Body (noble gases): 1.79E-03 mrem

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

RADIOLOGICAL IMPACT ON MAN
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Skin (noble gases): 3.15E-03 mrem

Organ - thyroid (radioiodines/tritium/particulates): 1.08E-01 mrem

The above annual gaseous dose values are reported per Dresden-site (UNITS 1,2,3) as well as per each individual reactor unit (UNIT 1, UNIT 2, UNIT 3). Regulatory annual gaseous dose limits are listed on page 1 section 1.a. and section 1.b.,c., of this report as well as in Dresden ODCM. The above annual gaseous dose values are well below any regulatory limits.

- 3: Doses to a Member of the Public due to Direct Radiation in 2015 (from 01/01/2015 to 12/31/2015):

UNITS 1,2,3

Total Body (skyshine): 8.64E+00 mrem

UNITS 1

Total Body (skyshine): N/A

UNITS 2

Total Body (skyshine): 4.19E+00 mrem

UNITS 3

Total Body (skyshine): 4.45E+00 mrem

The above annual direct dose values are reported per Dresden-site (UNITS 1,2,3) as well as per each individual reactor unit (UNIT 1, UNIT 2, UNIT 3). These numbers are calculated per ODCM methodologies, and are used to demonstrate compliance with 40CFR190 total dose limit requirements listed on page 1 section 1.e, of this report as well as in Dresden ODCM.

4. Total body doses to the population and average doses to individuals in the population from all receiving-water-related-pathways are not applicable to Dresden Station. No downstream drinking water pathway exist within the specified distance of 10 kilometers (6.2miles).
5. Total body doses to the population and average doses to individuals in the population from gaseous effluents to a distance of 50 miles from the site are not applicable to Dresden Station.
6. Doses from liquid and gaseous effluent to members of the public due to their activities inside the site boundary for the report period are not applicable to Dresden Station. Any member of the public who is onsite for a significant period of time is issued an Optical Stimulated Luminescent Dosimeter (OSLD) to monitor direct radiation exposure.
7. For the report period, there was no liquid and gaseous effluent radiation monitors and instrumentation unavailability beyond the requirements of the ODCM, including sampling deviation.
8. 40CFR190 / 10CFR72 Compliance:

The General Electric Hitachi Nuclear Energy Morris Operation (GEH Morris Operation) facility is physically

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

RADIOLOGICAL IMPACT ON MAN
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

public in the general environment.

Dresden decommissioning activities (Unit 1) and operations (Units 2 and 3) resulted in a maximum $2.05\text{E-}01$ mrem organ dose and $8.64\text{E+}00$ mrem total body dose. The Radiological Environmental Monitoring Program (REMP) direct radiation monitoring at or near the site boundary demonstrates that total body dose calculations to account for skyshine as found in the ODCM are conservative.

No effluents were released from the Dresden Independent Spent Fuel Storage Installations (ISFSIs) during 2015. REMP direct radiation monitoring at or near the site boundary demonstrates that the ISFSIs do not result in measurable dose to the public.

According to the 2015 GEH Morris Operation 10CFR72.44(d)(3) report, dated 2/22/2016, for the 2015 calendar year, the maximum dose at their site boundary from direct radiation exposure was $4.11\text{E-}01$ mrem. The maximum organ dose from site activities was $1.33\text{E-}02$ mrem for 2015.

Maximum combined total body dose from Dresden Station and GEH Morris Operation activities was $9.27\text{E+}00$ mrem during 2015, which was 37.09 % of the 40CFR190 limit of 25 mrem.

Maximum combined organ dose from Dresden and GEH Morris Operation activities was $2.18\text{E-}01$ mrem during 2015. This was 0.87 % of the 40CFR190 limit of 25 mrem to any organ. The combined thyroid dose was $2.13\text{E-}01$ mrem. This was 0.28 % of the 40CFR190 limit of 75 mrem.

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

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	8	10	13	19	10	23	23	7	0	0	113
NNE	0	5	9	7	16	5	5	9	14	8	1	79
NE	0	6	5	7	18	10	10	2	6	3	0	67
ENE	0	7	3	7	19	13	5	0	0	0	0	54
E	1	8	8	16	40	22	8	4	1	0	0	108
ESE	0	12	9	18	56	30	7	14	4	0	0	150
SE	0	15	13	3	11	7	3	5	7	0	0	64
SSE	0	12	11	18	28	17	6	5	15	0	0	112
S	0	7	11	26	59	31	20	14	22	8	0	198
SSW	0	4	12	14	28	31	18	19	15	2	0	143
SW	0	6	13	17	42	33	23	20	11	3	0	168
WSW	0	2	13	9	31	14	20	8	12	1	0	110
W	0	5	11	19	29	45	34	32	6	0	0	181
WNW	0	1	12	20	46	29	28	33	29	2	0	200
NW	0	4	7	15	25	25	48	36	32	1	1	194
NNW	0	7	5	17	32	42	34	24	25	3	5	194
Tot	1	109	152	226	499	364	292	248	206	31	7	2135

Hours of Calm 22
Hours of Variable Direction 1
Hours of Valid Data 2158
Hours of Missing Data 2
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class A Extremely Unstable based on Lapse Rate

Elevations:: Winds 35ft Stability 150ft

Wind Direction Sector	<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	Total
N	0	0	0	0	0	0	2	2	3	0	0	7
NNE	0	0	0	1	2	1	2	0	2	0	0	8
NE	0	0	1	0	4	1	4	0	0	0	0	10
ENE	0	0	0	0	3	1	4	0	0	0	0	8
E	0	0	0	0	1	0	0	1	0	0	0	2
ESE	0	0	0	0	1	3	3	6	1	0	0	14
SE	0	0	1	0	0	0	0	3	1	0	0	5
SSE	0	0	0	0	0	0	0	0	1	0	0	1
S	0	0	0	2	0	0	1	0	0	0	0	3
SSW	0	0	0	0	0	0	1	0	0	0	0	1
SW	0	0	0	0	0	0	0	4	1	0	0	5
WSW	0	0	1	0	2	0	0	1	4	0	0	8
W	0	0	0	0	0	1	2	2	1	0	0	6
WNW	0	0	0	0	1	0	0	3	2	0	0	6
NW	0	0	0	0	0	1	10	16	3	0	0	30
NNW	0	0	0	0	2	4	6	6	1	0	0	19
Tot	0	0	3	3	16	12	35	44	20	0	0	133

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 134
Hours of Missing Data 2
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class B Moderately Unstable based on Lapse Rate

Elevations:: Winds 35ft Stability 150ft

Wind Direction Sector	<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	Total
N	0	0	0	0	1	0	1	0	1	0	0	3
NNE	0	0	0	0	0	0	0	1	0	0	0	1
NE	0	1	0	0	0	0	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	0	0	1	0	0	0	1
ESE	0	0	0	0	2	1	0	1	0	0	0	4
SE	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	1	1	0	0	1	0	0	0	3
S	0	0	0	0	0	0	0	0	2	2	0	4
SSW	0	0	0	0	0	0	0	2	0	0	0	2
SW	0	0	0	1	0	1	0	0	1	0	0	3
WSW	0	0	2	0	0	0	2	0	1	0	0	5
W	0	0	0	0	0	1	0	3	0	0	0	4
WNW	0	0	0	0	1	5	1	2	3	0	0	12
NW	0	0	0	0	0	1	1	2	8	0	0	12
NNW	0	0	1	0	1	1	0	1	3	0	3	10
Tot	0	1	3	2	7	11	5	14	19	2	3	67

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 67
Hours of Missing Data 2
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class C Slightly Unstable based on Lapse Rate

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	0	0	1	3	0	0	0	7
NNE	0	0	1	1	1	0	1	0	0	0	0	4
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	1	0	0	0	0	0	0	0	0	1
ESE	0	0	0	1	2	4	1	1	0	0	0	9
SE	0	1	0	0	1	2	0	0	0	0	0	4
SSE	0	0	0	0	1	0	0	0	1	0	0	2
S	0	0	1	2	1	0	1	0	0	0	0	5
SSW	0	0	0	0	0	0	0	1	4	0	0	5
SW	0	0	0	0	2	0	1	3	0	1	0	7
WSW	0	0	0	0	1	0	1	0	1	0	0	3
W	0	0	0	0	1	2	0	0	0	0	0	3
WNW	0	0	1	0	3	3	3	0	1	0	0	11
NW	0	0	0	0	2	1	3	3	2	0	0	11
NNW	0	0	0	0	1	2	0	1	2	1	0	7
Tot	0	1	6	5	17	14	12	12	11	2	0	80

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 80
Hours of Missing Data 2
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class D Neutral based on Lapse Rate

Elevations:: Winds 35ft Stability 150ft

Wind Direction Sector	<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	Total
N	0	0	3	8	9	2	17	17	3	0	0	59
NNE	0	2	4	2	10	3	2	7	12	6	1	49
NE	0	0	1	6	7	7	6	2	6	3	0	38
ENE	0	0	1	3	4	10	1	0	0	0	0	19
E	0	1	2	4	20	13	8	2	1	0	0	51
ESE	0	1	1	2	23	16	1	6	3	0	0	53
SE	0	1	3	0	8	2	2	2	4	0	0	22
SSE	0	3	1	4	8	6	3	3	7	0	0	35
S	0	0	2	5	17	15	9	8	14	6	0	76
SSW	0	2	2	1	10	16	14	11	10	2	0	68
SW	0	0	2	1	9	15	12	4	9	2	0	54
WSW	0	0	1	2	10	8	4	4	4	1	0	34
W	0	0	1	7	7	19	20	21	5	0	0	80
WNW	0	0	0	4	24	9	14	25	23	2	0	101
NW	0	2	3	3	4	6	19	11	18	1	1	68
NNW	0	1	1	4	10	12	18	14	18	2	2	82
Tot	0	13	28	56	180	159	150	137	137	25	4	889

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 890
Hours of Missing Data 2
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class E Slightly Stable based on Lapse Rate

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	3	4	9	8	2	0	0	0	0	29
NNE	0	1	4	2	3	1	0	1	0	2	0	14
NE	0	3	2	1	7	2	0	0	0	0	0	15
ENE	0	3	2	4	10	1	0	0	0	0	0	20
E	0	1	4	10	18	9	0	0	0	0	0	42
ESE	0	3	3	7	25	6	2	0	0	0	0	46
SE	0	7	4	3	1	3	1	0	2	0	0	21
SSE	0	2	5	11	17	11	3	1	6	0	0	56
S	0	1	4	15	31	15	8	6	6	0	0	86
SSW	0	1	3	7	17	14	3	5	1	0	0	51
SW	0	3	6	5	19	14	9	9	0	0	0	65
WSW	0	1	5	4	10	4	12	3	2	0	0	41
W	0	2	6	11	18	21	12	6	0	0	0	76
WNW	0	0	8	12	16	12	10	3	0	0	0	61
NW	0	1	3	5	14	16	15	4	1	0	0	59
NNW	0	3	2	13	17	23	9	2	1	0	0	70
Tot	0	35	64	114	232	160	86	40	19	2	0	752

Hours of Calm 5
Hours of Variable Direction 0
Hours of Valid Data 757
Hours of Missing Data 2
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class F Moderately Stable based on Lapse Rate

Elevations:: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	0	0	0	0	0	1	0	0	0	1
NNE	0	1	0	1	0	0	0	0	0	0	0	2
NE	0	1	0	0	0	0	0	0	0	0	0	1
ENE	0	1	0	0	0	0	0	0	0	0	0	1
E	0	5	1	2	1	0	0	0	0	0	0	9
ESE	0	5	5	8	3	0	0	0	0	0	0	21
SE	0	4	4	0	1	0	0	0	0	0	0	9
SSE	0	5	5	2	1	0	0	0	0	0	0	13
S	0	3	4	1	10	1	1	0	0	0	0	20
SSW	0	1	4	5	1	1	0	0	0	0	0	12
SW	0	1	4	7	10	1	1	0	0	0	0	24
WSW	0	1	4	3	6	2	1	0	0	0	0	17
W	0	0	4	1	3	0	0	0	0	0	0	8
WNW	0	0	3	3	1	0	0	0	0	0	0	7
NW	0	0	1	6	5	0	0	0	0	0	0	12
NNW	0	0	1	0	1	0	1	0	0	0	0	3
Tot	0	28	40	39	43	5	4	1	0	0	0	160

Hours of Calm 3
Hours of Variable Direction 0
Hours of Valid Data 163
Hours of Missing Data 2
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class G Extremely Stable based on Lapse Rate

Elevations:: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	5	2	0	0	0	0	0	0	0	0	7
NNE	0	1	0	0	0	0	0	0	0	0	0	1
NE	0	1	1	0	0	0	0	0	0	0	0	2
ENE	0	3	0	0	0	0	0	0	0	0	0	3
E	1	1	0	0	0	0	0	0	0	0	0	2
ESE	0	3	0	0	0	0	0	0	0	0	0	3
SE	0	2	1	0	0	0	0	0	0	0	0	3
SSE	0	2	0	0	0	0	0	0	0	0	0	2
S	0	3	0	1	0	0	0	0	0	0	0	4
SSW	0	0	3	1	0	0	0	0	0	0	0	4
SW	0	2	1	3	2	2	0	0	0	0	0	10
WSW	0	0	0	0	2	0	0	0	0	0	0	2
W	0	3	0	0	0	1	0	0	0	0	0	4
WNW	0	1	0	1	0	0	0	0	0	0	0	2
NW	0	1	0	1	0	0	0	0	0	0	0	2
NNW	0	3	0	0	0	0	0	0	0	0	0	3
Tot	1	31	8	7	4	3	0	0	0	0	0	54

Hours of Calm 13
Hours of Variable Direction 0
Hours of Valid Data 67
Hours of Missing Data 2
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

All Stabilities

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	4	10	18	16	14	25	30	1	0	118
NNE	0	1	10	3	15	10	3	5	23	10	7	87
NE	0	2	0	4	12	11	8	8	4	5	3	57
ENE	0	1	0	3	17	9	12	10	0	0	0	52
E	0	3	2	2	13	28	24	12	6	0	0	90
ESE	0	3	4	3	11	42	28	13	19	4	0	127
SE	1	1	2	3	20	17	8	9	5	7	0	73
SSE	0	3	2	3	13	15	13	8	10	10	0	77
S	0	0	8	10	25	35	24	23	22	17	7	171
SSW	0	4	6	6	18	37	53	32	26	9	3	194
SW	0	2	7	12	18	32	26	36	39	12	4	188
WSW	0	2	7	10	20	14	21	13	27	14	2	130
W	0	5	2	5	24	27	27	40	56	4	0	190
WNW	0	2	4	7	29	31	26	30	45	31	6	211
NW	0	5	4	5	12	19	29	31	66	30	4	205
NNW	0	1	4	2	17	30	20	43	40	19	9	185
Tot	1	35	66	88	282	373	336	338	418	173	45	2155

Hours of Calm 2
Hours of Variable Direction 1
Hours of Valid Data 2158
Hours of Missing Data 2
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class A Extremely Unstable based on Lapse Rate

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	1	2	4	0	0	8
NNE	0	0	0	1	1	0	0	1	2	1	0	6
NE	0	0	0	0	2	2	2	4	0	0	0	10
ENE	0	0	0	0	4	0	3	3	0	0	0	10
E	0	0	0	0	1	0	0	0	1	0	0	2
ESE	0	0	0	0	1	2	1	3	5	1	0	13
SE	0	0	0	1	0	0	0	2	2	1	0	6
SSE	0	0	0	0	0	0	0	0	1	0	0	1
S	0	0	0	0	1	0	0	0	0	0	0	1
SSW	0	0	0	1	0	0	1	1	0	0	0	3
SW	0	0	0	0	0	0	0	0	5	0	0	5
WSW	0	0	1	0	1	1	0	0	1	4	0	8
W	0	0	0	0	0	0	1	2	2	0	0	5
WNW	0	0	0	0	1	0	0	0	2	3	1	7
NW	0	0	0	0	1	1	0	9	17	3	0	31
NNW	0	0	0	0	1	2	1	6	6	1	0	17
Tot	0	0	1	3	15	8	10	33	48	14	1	133

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 134
Hours of Missing Data 2
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class B Moderately Unstable based on Lapse Rate

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	1	0	0	3
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	1	0	0	1	0	0	0	2
E	0	0	0	0	0	0	0	0	1	0	0	1
ESE	0	0	0	0	0	2	0	0	1	0	0	3
SE	0	0	0	0	0	1	0	0	0	0	0	1
SSE	0	0	0	0	1	0	0	0	1	0	0	2
S	0	0	0	1	0	0	0	0	0	3	0	4
SSW	0	0	0	0	0	0	0	0	0	1	0	1
SW	0	0	0	0	0	0	1	0	2	1	0	4
WSW	0	0	1	2	0	0	1	1	0	1	0	6
W	0	0	0	0	0	1	0	0	3	0	0	4
WNW	0	0	0	0	1	3	1	2	2	2	1	12
NW	0	0	0	0	0	1	0	1	2	8	0	12
NNW	0	0	2	0	1	1	0	0	3	1	3	11
Tot	0	0	3	3	5	9	3	6	17	17	4	67

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 67
Hours of Missing Data 2
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class C Slightly Unstable based on Lapse Rate

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	1	0	0	1	3	0	0	9
NNE	0	0	0	0	0	1	0	1	0	0	0	2
NE	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	1	0	0	0	0	0	1
E	0	0	1	0	0	0	0	0	0	0	0	1
ESE	0	0	0	0	0	5	1	0	2	0	0	8
SE	0	0	0	0	2	1	1	0	0	0	0	4
SSE	0	0	0	0	1	0	0	0	1	0	0	2
S	0	0	1	2	1	0	1	0	0	0	0	5
SSW	0	0	0	1	0	0	0	0	4	1	0	6
SW	0	0	0	0	1	0	0	1	3	0	1	6
WSW	0	0	0	0	1	2	0	1	1	0	0	5
W	0	0	0	0	1	0	1	1	0	0	0	3
WNW	0	0	0	1	0	3	3	2	1	0	0	10
NW	0	0	0	0	2	1	1	3	3	2	0	12
NNW	0	0	0	0	0	2	0	0	2	0	2	6
Tot	0	0	4	6	10	16	8	10	20	3	3	80

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 80
Hours of Missing Data 2
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class D Neutral based on Lapse Rate

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	<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	Total
N	0	0	1	4	9	6	4	14	20	1	0	59
NNE	0	0	4	2	11	3	2	2	18	9	5	56
NE	0	0	0	3	6	4	4	4	4	5	3	33
ENE	0	0	0	2	5	2	8	6	0	0	0	23
E	0	1	1	0	6	16	11	8	4	0	0	47
ESE	0	0	0	1	6	19	12	2	8	3	0	51
SE	0	0	0	0	8	6	0	4	2	4	0	24
SSE	0	1	2	2	3	4	5	1	5	5	0	28
S	0	0	4	3	10	18	7	7	11	11	5	76
SSW	0	1	1	2	5	9	23	13	14	5	2	75
SW	0	1	3	2	5	7	12	13	8	5	3	59
WSW	0	0	2	2	5	2	6	4	8	2	2	33
W	0	0	1	1	9	6	6	19	32	4	0	78
WNW	0	0	2	3	9	16	10	9	29	24	4	106
NW	0	1	1	2	2	4	4	7	28	15	3	67
NNW	0	0	0	0	6	9	8	12	20	16	4	75
Tot	0	5	22	29	105	131	122	125	211	109	31	890

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 890
Hours of Missing Data 2
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class E Slightly Stable based on Lapse Rate

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	<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	Total
N	0	0	0	3	6	10	9	7	2	0	0	37
NNE	0	0	5	0	2	5	1	1	1	0	2	17
NE	0	1	0	1	4	5	2	0	0	0	0	13
ENE	0	1	0	0	7	6	1	0	0	0	0	15
E	0	2	0	2	4	9	13	3	0	0	0	33
ESE	0	1	2	1	4	11	14	7	3	0	0	43
SE	0	1	1	1	6	5	7	2	1	2	0	26
SSE	0	0	0	1	5	6	6	7	2	5	0	32
S	0	0	2	3	10	16	15	14	11	3	2	76
SSW	0	0	5	2	9	25	22	16	6	2	1	88
SW	0	0	0	4	4	15	8	15	17	6	0	69
WSW	0	0	1	1	4	4	6	4	11	6	0	37
W	0	3	0	1	7	14	15	17	18	0	0	75
WNW	0	1	1	3	13	9	12	16	11	2	0	68
NW	0	1	3	3	4	7	13	10	16	2	1	60
NNW	0	0	1	2	6	15	10	23	8	1	0	66
Tot	0	11	21	28	95	162	154	142	107	29	6	755

Hours of Calm 2
Hours of Variable Direction 0
Hours of Valid Data 757
Hours of Missing Data 2
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class F Moderately Stable based on Lapse Rate

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	1	0	0	3
NE	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	1	0	0	0	0	0	0	0	1
E	0	0	0	0	2	3	0	1	0	0	0	6
ESE	0	1	1	0	0	3	0	1	0	0	0	6
SE	0	0	1	1	3	4	0	1	0	0	0	10
SSE	0	2	0	0	3	5	2	0	0	0	0	12
S	0	0	0	1	2	1	1	2	0	0	0	7
SSW	0	2	0	0	3	2	6	2	2	0	0	17
SW	0	1	1	3	4	7	3	7	1	0	0	27
WSW	0	2	2	3	6	2	7	2	3	1	0	28
W	0	1	1	3	3	6	4	1	1	0	0	20
WNW	0	0	1	0	3	0	0	1	0	0	0	5
NW	0	0	0	0	1	4	9	1	0	0	0	15
NNW	0	0	0	0	1	1	1	2	1	0	0	6
Tot	0	10	7	12	31	39	33	21	9	1	0	163

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 163
Hours of Missing Data 2
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class G Extremely Stable based on Lapse Rate

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	0	0	0	0	0	0	0	2
NNE	0	0	1	0	1	0	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	0	0	0	0	0	0	0	0	0
ESE	0	1	1	1	0	0	0	0	0	0	0	3
SE	1	0	0	0	1	0	0	0	0	0	0	2
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	1	0	1	0	0	0	0	0	0	2
SSW	0	1	0	0	1	1	1	0	0	0	0	4
SW	0	0	3	3	4	3	2	0	3	0	0	18
WSW	0	0	0	2	3	3	1	1	3	0	0	13
W	0	1	0	0	4	0	0	0	0	0	0	5
WNW	0	1	0	0	2	0	0	0	0	0	0	3
NW	0	3	0	0	2	1	2	0	0	0	0	8
NNW	0	1	1	0	2	0	0	0	0	0	0	4
Tot	1	9	8	7	21	8	6	1	6	0	0	67

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 67
Hours of Missing Data 2
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

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	4	3	8	12	17	55	19	2	123
NNE	0	0	2	4	10	13	9	10	19	8	8	83
NE	0	1	3	1	9	10	8	7	4	3	11	57
ENE	0	1	1	2	11	13	7	22	2	0	0	59
E	0	4	1	1	4	18	18	17	17	4	0	84
ESE	0	0	1	2	7	29	17	8	21	12	1	98
SE	0	1	1	2	14	17	10	20	19	11	1	96
SSE	0	2	5	4	8	10	10	5	13	7	4	68
S	0	0	0	5	10	15	15	15	34	29	13	136
SSW	0	1	4	5	7	11	20	37	58	21	13	177
SW	0	2	3	13	12	8	27	31	54	19	10	179
WSW	0	2	6	3	14	12	27	14	34	32	11	155
W	0	2	2	3	17	10	16	29	57	34	2	172
WNW	0	1	1	3	14	22	24	25	59	49	19	217
NW	0	1	1	1	13	15	6	21	75	45	14	192
NNW	0	3	3	0	9	16	15	27	65	32	24	194
Tot	0	21	37	53	162	227	241	305	586	325	133	2090

Hours of Calm 1
Hours of Variable Direction 1
Hours of Valid Data 2092
Hours of Missing Data 68
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class A Extremely Unstable based on Lapse Rate

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	1	2	1	0	4
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	2	0	0	5	0	0	0	7
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	1	0	0	3	0	0	4
SE	0	0	0	0	0	0	0	0	3	0	1	4
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	1	1	0	2
W	0	0	0	0	0	0	0	0	1	0	0	1
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	0	0	0	3	3	0	0	6
Tot	0	0	0	0	2	1	0	9	15	2	1	30

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 30
Hours of Missing Data 68
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class B Moderately Unstable based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

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

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 49
Hours of Missing Data 68
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class C Slightly Unstable based on Lapse Rate

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	1	2	2	0	6
NNE	0	0	1	0	2	0	0	0	1	1	0	5
NE	0	0	0	0	1	1	0	0	0	0	0	2
ENE	0	0	0	0	1	0	0	1	0	0	0	2
E	0	0	1	0	0	2	0	0	1	0	0	4
ESE	0	0	0	0	0	5	1	1	2	1	0	10
SE	0	0	0	0	1	4	1	1	0	0	0	7
SSE	0	0	0	0	1	0	0	0	3	0	0	4
S	0	0	0	0	0	0	0	0	0	3	0	3
SSW	0	0	0	1	1	0	0	0	0	0	0	2
SW	0	0	0	0	0	0	0	0	5	3	0	8
WSW	0	0	0	0	1	1	1	0	0	1	0	4
W	0	0	0	0	0	0	1	2	2	0	0	5
WNW	0	0	0	0	0	1	0	1	4	2	6	14
NW	0	0	0	0	0	1	1	6	8	2	2	20
NNW	0	0	0	0	1	1	2	1	3	1	5	14
Tot	0	0	2	2	9	16	7	14	31	16	13	110

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 110
Hours of Missing Data 68
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class D Neutral based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

Wind Direction Sector	<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	Total
N	0	0	2	3	2	6	4	6	36	11	1	71
NNE	0	0	0	3	6	11	5	4	12	7	7	55
NE	0	0	3	0	4	7	3	4	4	3	11	39
ENE	0	0	0	1	5	6	4	13	2	0	0	31
E	0	2	0	1	4	12	15	11	14	3	0	62
ESE	0	0	0	1	1	15	12	4	8	8	1	50
SE	0	1	1	1	6	6	5	2	4	6	0	32
SSE	0	0	2	1	2	3	4	3	3	7	4	29
S	0	0	0	5	7	3	10	8	14	16	11	74
SSW	0	0	3	3	5	10	13	17	22	11	7	91
SW	0	0	0	8	6	4	16	12	18	6	8	78
WSW	0	1	3	2	6	6	15	9	7	9	5	63
W	0	1	0	1	9	6	8	11	28	18	2	84
WNW	0	1	1	3	8	17	15	14	35	37	13	144
NW	0	1	0	1	7	9	2	10	53	38	12	133
NNW	0	1	2	0	5	11	9	8	30	25	19	110
Tot	0	8	17	34	83	132	140	136	290	205	101	1146

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 1146
Hours of Missing Data 68
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class E Slightly Stable based on Lapse Rate

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	7	8	13	4	0	34
NNE	0	0	1	1	1	1	3	4	4	0	0	15
NE	0	0	0	0	3	1	3	0	0	0	0	7
ENE	0	1	1	0	2	5	1	1	0	0	0	11
E	0	1	0	0	0	3	3	4	1	0	0	12
ESE	0	0	1	1	5	5	4	2	5	0	0	23
SE	0	0	0	0	4	5	1	17	11	4	0	42
SSE	0	1	2	0	2	6	4	1	5	0	0	21
S	0	0	0	0	2	12	4	6	20	10	2	56
SSW	0	0	0	1	0	0	7	18	31	8	5	70
SW	0	0	1	4	2	3	7	11	24	8	2	62
WSW	0	0	1	1	1	3	6	4	16	12	5	49
W	0	0	1	0	3	2	2	9	20	13	0	50
WNW	0	0	0	0	6	3	7	7	19	9	0	51
NW	0	0	1	0	3	3	1	2	3	2	0	15
NNW	0	1	1	0	1	1	3	8	17	4	0	36
Tot	0	4	11	8	35	54	63	102	189	74	14	554

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 555
Hours of Missing Data 68
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class F Moderately Stable based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	0	0	0	1	0	0	2	0	1	4
NNE	0	0	0	0	0	1	1	1	0	0	1	4
NE	0	1	0	0	1	1	0	1	0	0	0	4
ENE	0	0	0	0	0	0	1	0	0	0	0	1
E	0	0	0	0	0	0	0	2	0	0	0	2
ESE	0	0	0	0	0	0	0	0	2	2	0	4
SE	0	0	0	0	3	1	2	0	1	0	0	7
SSE	0	0	1	1	2	1	2	1	2	0	0	10
S	0	0	0	0	0	0	1	1	0	0	0	2
SSW	0	1	0	0	1	1	0	1	3	2	1	10
SW	0	1	0	0	3	1	2	5	5	2	0	19
WSW	0	1	1	0	5	2	5	1	7	4	1	27
W	0	0	0	2	5	2	4	4	5	3	0	25
WNW	0	0	0	0	0	1	2	3	1	1	0	8
NW	0	0	0	0	2	1	1	2	5	2	0	13
NNW	0	0	0	0	1	2	0	5	8	2	0	18
Tot	0	4	2	3	23	15	21	27	41	18	4	158

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 158
Hours of Missing Data 68
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jan - Mar for years 2015 - 2015

Stability Class G Extremely Stable based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

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

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 44
Hours of Missing Data 68
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

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	5	6	9	21	13	8	4	0	0	0	66
NNE	0	4	8	14	28	32	19	9	20	5	0	139
NE	0	3	11	15	93	69	30	14	3	0	0	238
ENE	0	5	12	24	91	47	6	0	1	0	0	186
E	0	4	6	9	39	28	8	5	3	0	0	102
ESE	0	13	3	3	27	12	13	12	4	0	0	87
SE	0	15	11	6	26	20	15	6	3	0	0	102
SSE	0	11	14	23	43	51	19	14	6	1	0	182
S	0	9	15	13	42	36	23	18	30	5	1	192
SSW	0	5	12	18	40	26	24	17	20	7	1	170
SW	0	7	14	15	39	30	19	13	18	3	0	158
WSW	0	1	8	16	28	37	18	9	12	6	0	135
W	0	4	8	13	14	15	16	11	26	18	1	126
WNW	0	1	13	8	23	12	11	18	13	1	2	102
NW	0	5	18	8	23	13	22	13	6	0	0	108
NNW	0	6	14	10	24	13	10	1	0	0	0	78
Tot	0	98	173	204	601	454	261	164	165	46	5	2171

Hours of Calm 10
Hours of Variable Direction 3
Hours of Valid Data 2184
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class A Extremely Unstable based on Lapse Rate

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	3	5	1	4	2	0	0	0	16
NNE	0	0	1	2	3	1	8	6	5	0	0	26
NE	0	0	0	2	15	20	8	6	3	0	0	54
ENE	0	0	2	5	23	13	2	0	0	0	0	45
E	0	0	0	2	3	1	1	0	3	0	0	10
ESE	0	0	0	0	4	1	0	1	2	0	0	8
SE	0	0	1	1	6	2	1	1	0	0	0	12
SSE	0	0	0	2	3	8	1	0	0	0	0	14
S	0	0	0	0	3	7	2	0	6	0	0	18
SSW	0	0	2	1	9	3	3	1	1	0	0	20
SW	0	0	1	3	1	3	2	2	11	0	0	23
WSW	0	0	1	2	7	17	8	2	4	1	0	42
W	0	0	0	1	1	0	5	2	4	4	0	17
WNW	0	0	0	0	2	3	5	6	6	0	0	22
NW	0	0	0	1	3	6	8	5	4	0	0	27
NNW	0	0	1	0	4	6	2	0	0	0	0	13
Tot	0	0	10	25	92	92	60	34	49	5	0	367

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 367
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class B Moderately Unstable based on Lapse Rate

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	1	1	0	0	0	0	2
NNE	0	0	2	2	2	1	1	0	2	0	0	10
NE	0	0	0	1	5	4	2	0	0	0	0	12
ENE	0	0	1	1	3	2	1	0	0	0	0	8
E	0	0	0	0	0	1	0	0	0	0	0	1
ESE	0	0	0	0	0	0	0	0	1	0	0	1
SE	0	0	0	0	0	1	2	1	1	0	0	5
SSE	0	0	0	0	1	7	0	0	0	0	0	8
S	0	0	0	0	0	0	0	1	1	0	0	2
SSW	0	0	0	0	1	0	1	0	1	0	0	3
SW	0	0	0	0	1	1	0	1	0	0	0	3
WSW	0	0	1	1	2	2	3	2	0	0	0	11
W	0	0	0	1	3	0	0	1	2	1	0	8
WNW	0	0	0	0	0	0	1	1	2	0	1	5
NW	0	1	1	1	0	0	3	2	1	0	0	9
NNW	0	0	0	0	2	1	1	0	0	0	0	4
Tot	0	1	5	7	20	21	16	9	11	1	1	92

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 92
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class C Slightly Unstable based on Lapse Rate

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	1	0	1	0	0	0	0	2
NE	0	0	0	0	1	2	2	0	0	0	0	5
ENE	0	0	0	0	0	2	0	0	0	0	0	2
E	0	0	0	0	2	0	0	0	0	0	0	2
ESE	0	0	0	1	1	0	0	2	0	0	0	4
SE	0	0	1	1	2	0	1	1	1	0	0	7
SSE	0	0	0	1	3	2	0	0	1	0	0	7
S	0	1	0	1	2	0	0	1	1	0	0	6
SSW	0	0	1	1	0	1	0	1	1	0	0	5
SW	0	0	0	0	3	0	1	1	0	0	0	5
WSW	0	0	0	0	3	4	1	0	0	0	0	8
W	0	0	0	0	3	1	0	0	1	1	0	6
WNW	0	0	0	0	0	0	1	1	1	0	0	3
NW	0	0	0	0	0	1	0	2	0	0	0	3
NNW	0	0	0	0	0	2	1	0	0	0	0	3
Tot	0	1	2	5	21	15	8	9	6	1	0	68

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 68
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class D Neutral based on Lapse Rate

Elevations:: Winds 35ft Stability 150ft

Wind Direction Sector	<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	Total
N	0	1	2	1	4	2	2	1	0	0	0	13
NNE	0	0	1	3	10	11	5	2	12	3	0	47
NE	0	0	3	4	45	30	13	7	0	0	0	102
ENE	0	1	1	3	37	23	2	0	1	0	0	68
E	0	0	4	1	7	8	3	3	0	0	0	26
ESE	0	0	0	0	0	2	6	2	1	0	0	11
SE	0	0	0	1	3	3	5	3	1	0	0	16
SSE	0	0	3	2	4	4	8	4	3	1	0	29
S	0	2	5	1	9	8	3	8	9	3	0	48
SSW	0	1	1	2	5	6	4	6	11	4	0	40
SW	0	0	3	3	6	7	5	4	3	2	0	33
WSW	0	1	3	4	6	8	3	2	6	2	0	35
W	0	1	0	1	6	8	4	6	17	12	1	56
WNW	0	0	0	1	4	5	3	5	4	1	1	24
NW	0	2	2	0	8	3	7	2	0	0	0	24
NNW	0	0	2	2	1	1	2	0	0	0	0	8
Tot	0	9	30	29	155	129	75	55	68	28	2	580

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 580
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class E Slightly Stable based on Lapse Rate

Elevations:: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	2	4	12	7	1	1	0	0	0	27
NNE	0	0	3	7	11	18	4	1	1	2	0	47
NE	0	1	6	8	27	13	5	1	0	0	0	61
ENE	0	0	5	15	28	7	1	0	0	0	0	56
E	0	3	2	5	27	18	4	2	0	0	0	61
ESE	0	3	0	1	19	9	7	7	0	0	0	46
SE	0	6	4	2	9	8	5	0	0	0	0	34
SSE	0	1	2	11	24	25	10	10	2	0	0	85
S	0	1	6	8	21	16	17	8	13	2	1	93
SSW	0	1	2	9	13	13	15	9	6	2	1	71
SW	0	0	6	5	18	13	11	5	3	1	0	62
WSW	0	0	2	7	7	4	3	3	2	3	0	31
W	0	0	4	7	0	6	7	2	2	0	0	28
WNW	0	0	5	7	16	4	1	5	0	0	0	38
NW	0	0	5	2	7	3	4	2	1	0	0	24
NNW	0	2	3	3	8	2	3	1	0	0	0	22
Tot	0	18	57	101	247	166	98	57	30	10	2	786

Hours of Calm 0
Hours of Variable Direction 2
Hours of Valid Data 788
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class F Moderately Stable based on Lapse Rate

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	1	1	0	1	0	0	0	0	0	6
NNE	0	2	1	0	1	1	0	0	0	0	0	5
NE	0	1	2	0	0	0	0	0	0	0	0	3
ENE	0	1	2	0	0	0	0	0	0	0	0	3
E	0	0	0	1	0	0	0	0	0	0	0	1
ESE	0	4	2	1	3	0	0	0	0	0	0	10
SE	0	5	5	1	5	6	1	0	0	0	0	23
SSE	0	7	7	7	8	5	0	0	0	0	0	34
S	0	2	3	3	6	5	1	0	0	0	0	20
SSW	0	1	5	4	10	3	1	0	0	1	0	25
SW	0	3	2	2	7	6	0	0	1	0	0	21
WSW	0	0	1	2	3	2	0	0	0	0	0	8
W	0	0	3	3	1	0	0	0	0	0	0	7
WNW	0	0	5	0	1	0	0	0	0	0	0	6
NW	0	2	4	1	4	0	0	0	0	0	0	11
NNW	0	1	3	4	8	1	1	0	0	0	0	18
Tot	0	32	46	30	57	30	4	0	1	1	0	201

Hours of Calm 3
Hours of Variable Direction 0
Hours of Valid Data 204
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class G Extremely Stable based on Lapse Rate

Elevations:: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	0	0	0	1	0	0	0	0	0	2
NNE	0	2	0	0	0	0	0	0	0	0	0	2
NE	0	1	0	0	0	0	0	0	0	0	0	1
ENE	0	3	1	0	0	0	0	0	0	0	0	4
E	0	1	0	0	0	0	0	0	0	0	0	1
ESE	0	6	1	0	0	0	0	0	0	0	0	7
SE	0	4	0	0	1	0	0	0	0	0	0	5
SSE	0	3	2	0	0	0	0	0	0	0	0	5
S	0	3	1	0	1	0	0	0	0	0	0	5
SSW	0	2	1	1	2	0	0	0	0	0	0	6
SW	0	4	2	2	3	0	0	0	0	0	0	11
WSW	0	0	0	0	0	0	0	0	0	0	0	0
W	0	3	1	0	0	0	0	0	0	0	0	4
WNW	0	1	3	0	0	0	0	0	0	0	0	4
NW	0	0	6	3	1	0	0	0	0	0	0	10
NNW	0	3	5	1	1	0	0	0	0	0	0	10
Tot	0	37	23	7	9	1	0	0	0	0	0	77

Hours of Calm 7
Hours of Variable Direction 1
Hours of Valid Data 85
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

All Stabilities

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	3	6	18	11	16	10	6	1	0	71
NNE	0	0	2	5	24	17	24	25	19	14	5	135
NE	0	0	4	6	42	71	53	29	27	0	0	232
ENE	0	2	3	5	52	67	41	12	2	1	0	185
E	0	1	2	6	11	22	26	18	12	4	0	102
ESE	0	2	1	3	8	17	21	10	19	3	0	84
SE	0	1	1	4	17	14	18	17	10	2	0	84
SSE	0	0	3	4	16	36	36	29	18	6	1	149
S	0	0	4	5	20	37	25	32	41	18	15	197
SSW	0	1	2	6	22	29	33	29	35	19	9	185
SW	0	0	5	10	17	24	29	26	37	19	7	174
WSW	0	3	3	4	29	21	25	24	23	11	9	152
W	0	1	1	7	21	30	9	13	19	18	27	146
WNW	0	0	5	2	12	22	18	11	18	14	7	109
NW	0	0	1	6	10	17	18	15	30	7	2	106
NNW	0	1	3	2	10	16	18	16	4	0	0	70
Tot	0	12	43	81	329	451	410	316	320	137	82	2181

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

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class A Extremely Unstable based on Lapse Rate

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	6	3	3	2	1	0	0	17
NNE	0	0	0	0	5	1	0	6	12	1	0	25
NE	0	0	0	2	11	11	13	8	12	0	0	57
ENE	0	0	0	0	9	15	11	1	1	0	0	37
E	0	0	0	1	3	3	2	0	3	1	0	13
ESE	0	0	0	1	1	4	1	0	1	2	0	10
SE	0	0	0	0	4	2	1	1	1	0	0	9
SSE	0	0	0	0	3	5	5	1	0	0	0	14
S	0	0	0	1	1	4	4	2	3	3	0	18
SSW	0	0	0	0	6	6	3	3	0	0	0	18
SW	0	0	0	3	2	0	3	2	5	10	1	26
WSW	0	0	0	1	7	8	10	7	5	4	1	43
W	0	0	0	0	0	1	0	3	3	3	4	14
WNW	0	0	0	0	1	2	3	3	6	8	0	23
NW	0	0	0	1	2	2	3	8	9	4	1	30
NNW	0	0	0	1	3	1	5	3	0	0	0	13
Tot	0	0	0	13	64	68	67	50	62	36	7	367

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 367
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class B Moderately Unstable based on Lapse Rate

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	<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	Total
N	0	0	0	0	0	0	1	0	1	0	0	2
NNE	0	0	0	3	1	2	1	0	1	2	0	10
NE	0	0	0	1	2	5	3	1	1	0	0	13
ENE	0	0	0	1	0	2	2	1	0	0	0	6
E	0	0	0	0	1	0	1	0	0	0	0	2
ESE	0	0	0	0	0	0	0	0	1	0	0	1
SE	0	0	0	0	0	1	1	1	1	1	0	5
SSE	0	0	0	0	0	4	3	0	0	0	0	7
S	0	0	0	0	0	0	1	0	2	0	0	3
SSW	0	0	0	0	0	1	0	1	1	0	0	3
SW	0	0	0	0	0	1	1	0	1	0	0	3
WSW	0	0	0	2	0	2	2	2	3	0	0	11
W	0	0	1	0	1	3	0	0	1	2	1	9
WNW	0	0	0	0	0	0	0	0	1	0	3	4
NW	0	0	0	1	0	0	0	1	4	0	1	7
NNW	0	1	0	0	1	1	1	2	0	0	0	6
Tot	0	1	1	8	6	22	17	9	18	5	5	92

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 92
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class C Slightly Unstable based on Lapse Rate

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	1	0	0	0	1
NNE	0	0	0	0	1	0	0	1	0	0	0	2
NE	0	0	0	0	1	0	1	2	0	0	0	4
ENE	0	0	0	0	0	0	1	2	0	0	0	3
E	0	0	0	0	1	0	0	0	0	0	0	1
ESE	0	0	0	0	1	1	0	0	2	0	0	4
SE	0	0	0	0	4	0	0	1	1	1	0	7
SSE	0	0	1	0	3	1	2	0	0	0	0	7
S	0	0	0	0	3	0	0	1	1	1	0	6
SSW	0	0	1	0	0	1	0	0	2	0	0	4
SW	0	0	0	2	1	2	0	0	2	0	0	7
WSW	0	0	0	0	2	0	3	2	0	0	0	7
W	0	0	0	0	2	1	1	0	0	0	2	6
WNW	0	0	0	0	0	1	0	1	1	0	1	4
NW	0	0	0	0	0	0	1	0	2	0	0	3
NNW	0	0	0	0	0	0	1	1	0	0	0	2
Tot	0	0	2	2	19	7	10	12	11	2	3	68

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 68
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class D Neutral based on Lapse Rate

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	<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	Total
N	0	0	2	0	3	1	0	2	1	0	0	9
NNE	0	0	1	0	8	7	9	7	4	10	3	49
NE	0	0	1	2	9	39	24	11	10	0	0	96
ENE	0	1	2	1	15	28	21	5	0	1	0	74
E	0	0	2	2	1	4	7	5	4	2	0	27
ESE	0	0	0	1	0	2	2	4	6	0	0	15
SE	0	0	0	0	1	2	3	3	5	0	0	14
SSE	0	0	0	2	0	4	2	4	8	3	1	24
S	0	0	0	3	5	7	4	5	9	4	6	43
SSW	0	1	0	3	3	3	7	3	6	10	4	40
SW	0	0	3	2	2	6	5	4	5	5	3	35
WSW	0	2	1	0	7	4	6	6	5	4	5	40
W	0	0	0	1	3	4	3	4	9	10	20	54
WNW	0	0	2	1	2	6	3	3	5	3	3	28
NW	0	0	0	2	1	3	5	2	10	1	0	24
NNW	0	0	2	0	1	2	0	3	0	0	0	8
Tot	0	4	16	20	61	122	101	71	87	53	45	580

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 580
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class E Slightly Stable based on Lapse Rate

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	3	5	10	4	2	1	0	27
NNE	0	0	1	0	6	5	14	10	2	1	2	41
NE	0	0	1	1	18	16	12	7	4	0	0	59
ENE	0	0	0	2	27	22	6	3	1	0	0	61
E	0	1	0	2	5	15	16	13	5	1	0	58
ESE	0	1	0	0	5	10	18	6	9	1	0	50
SE	0	1	0	2	4	5	10	6	2	0	0	30
SSE	0	0	0	0	3	14	21	17	9	3	0	67
S	0	0	2	1	3	13	14	15	22	10	9	89
SSW	0	0	0	0	7	15	16	13	24	9	4	88
SW	0	0	1	2	7	11	13	13	17	4	2	70
WSW	0	0	1	0	5	4	4	4	8	3	3	32
W	0	1	0	1	6	11	3	5	6	3	0	36
WNW	0	0	0	0	2	11	11	4	5	3	0	36
NW	0	0	1	1	3	7	3	3	5	2	0	25
NNW	0	0	0	1	2	7	1	3	3	0	0	17
Tot	0	4	7	15	106	171	172	126	124	41	20	786

Hours of Calm 0
Hours of Variable Direction 2
Hours of Valid Data 788
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class F Moderately Stable based on Lapse Rate

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	1	2	1	1	1	0	0	7
NNE	0	0	0	0	1	2	0	1	0	0	0	4
NE	0	0	2	0	1	0	0	0	0	0	0	3
ENE	0	1	1	1	1	0	0	0	0	0	0	4
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	1	1	1	1	0	0	0	0	0	0	4
SE	0	0	1	2	2	3	3	4	0	0	0	15
SSE	0	0	0	1	5	7	3	7	1	0	0	24
S	0	0	1	0	2	10	2	9	4	0	0	28
SSW	0	0	1	1	6	3	7	8	2	0	1	29
SW	0	0	1	1	3	3	5	5	7	0	1	26
WSW	0	1	0	0	3	1	0	3	2	0	0	10
W	0	0	0	1	3	8	2	1	0	0	0	15
WNW	0	0	1	0	5	2	1	0	0	0	0	9
NW	0	0	0	0	2	3	4	1	0	0	0	10
NNW	0	0	1	0	1	3	7	3	1	0	0	16
Tot	0	3	11	8	37	47	35	43	18	0	2	204

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 204
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class G Extremely Stable based on Lapse Rate

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	0	2	5	0	1	0	0	0	0	8
NNE	0	0	0	2	2	0	0	0	0	0	0	4
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	1	0	0	0	0	0	0	0	1
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	2	1	0	1	0	0	0	4
SSE	0	0	2	1	2	1	0	0	0	0	0	6
S	0	0	1	0	6	3	0	0	0	0	0	10
SSW	0	0	0	2	0	0	0	1	0	0	0	3
SW	0	0	0	0	2	1	2	2	0	0	0	7
WSW	0	0	1	1	5	2	0	0	0	0	0	9
W	0	0	0	4	6	2	0	0	0	0	0	12
WNW	0	0	2	1	2	0	0	0	0	0	0	5
NW	0	0	0	1	2	2	2	0	0	0	0	7
NNW	0	0	0	0	2	2	3	1	0	0	0	8
Tot	0	0	6	15	36	14	8	5	0	0	0	84

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 85
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

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	1	3	13	7	11	11	17	7	0	70
NNE	0	0	3	4	9	14	14	28	30	16	11	129
NE	0	0	2	5	24	34	52	46	41	15	1	220
ENE	0	1	1	3	44	59	60	24	9	2	0	203
E	0	2	1	5	13	15	21	18	19	11	2	107
ESE	0	0	2	1	7	7	13	13	17	15	0	75
SE	0	0	0	2	14	7	12	20	23	4	0	82
SSE	0	0	2	2	12	21	24	14	39	12	5	131
S	0	0	0	3	6	10	25	21	68	38	34	205
SSW	0	1	2	5	12	19	14	23	38	30	25	169
SW	0	2	3	5	11	13	21	39	45	44	14	197
WSW	0	0	5	7	19	18	25	22	37	19	12	164
W	0	2	1	1	15	16	21	14	20	18	41	149
WNW	0	0	5	0	5	12	20	9	23	19	14	107
NW	0	0	0	6	5	5	18	14	45	10	6	109
NNW	0	2	1	3	6	10	14	7	16	4	2	65
Tot	0	10	29	55	215	267	365	323	487	264	167	2182

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

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class A Extremely Unstable based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	0	0	2	2	1	2	0	0	0	7
NNE	0	0	0	0	2	1	0	1	7	0	0	11
NE	0	0	0	0	4	1	0	5	5	1	0	16
ENE	0	0	0	0	4	7	5	0	0	0	0	16
E	0	0	0	1	2	5	0	0	0	2	1	11
ESE	0	0	0	0	1	4	1	0	0	2	0	8
SE	0	0	0	0	1	2	0	1	0	0	0	4
SSE	0	0	0	0	2	2	3	0	0	0	0	7
S	0	0	0	0	1	1	2	0	2	1	0	7
SSW	0	0	0	0	1	2	0	0	0	0	0	3
SW	0	0	0	1	1	0	1	0	0	4	1	8
WSW	0	0	0	0	0	0	1	0	0	3	1	5
W	0	0	0	0	1	0	0	0	0	1	0	2
WNW	0	0	0	0	0	0	0	0	2	0	0	2
NW	0	0	0	1	1	1	0	0	4	0	0	7
NNW	0	0	0	1	0	1	0	0	0	0	0	2
Tot	0	0	0	4	23	29	14	9	20	14	3	116

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 116
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class B Moderately Unstable based on Lapse Rate

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	2	1	0	2	0	0	0	6
NNE	0	0	0	1	0	0	0	1	3	2	0	7
NE	0	0	0	1	3	3	5	4	2	3	0	21
ENE	0	0	0	0	4	6	4	3	0	0	0	17
E	0	0	0	0	3	0	1	0	1	0	0	5
ESE	0	0	0	0	0	0	0	0	0	1	0	1
SE	0	0	0	0	2	1	0	2	1	0	0	6
SSE	0	0	0	0	1	3	3	0	1	0	0	8
S	0	0	0	0	0	1	2	0	1	2	0	6
SSW	0	0	0	0	1	1	3	3	0	0	0	8
SW	0	0	0	0	0	0	2	1	2	7	0	12
WSW	0	0	1	0	0	1	3	1	6	1	0	13
W	0	0	0	0	0	0	1	1	4	2	4	12
WNW	0	0	0	0	0	0	1	1	3	2	1	8
NW	0	0	0	1	0	1	0	4	2	3	0	11
NNW	0	0	0	1	0	1	3	1	0	0	0	6
Tot	0	0	1	5	16	19	28	24	26	23	5	147

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 147
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class C Slightly Unstable based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	0	0	1	0	2	0	0	0	0	3
NNE	0	0	0	1	0	0	0	0	3	3	0	7
NE	0	0	0	1	3	3	3	3	5	2	0	20
ENE	0	0	0	0	4	8	6	0	1	0	0	19
E	0	0	0	0	2	0	2	0	0	0	0	4
ESE	0	0	0	0	1	0	0	0	0	2	0	3
SE	0	0	0	1	2	1	1	0	3	2	0	10
SSE	0	0	0	0	1	5	3	1	0	0	1	11
S	0	0	0	1	1	1	3	1	1	2	2	12
SSW	0	0	0	0	1	4	0	1	0	1	0	7
SW	0	0	0	1	0	1	0	0	3	1	0	6
WSW	0	0	1	0	5	4	8	7	4	0	0	29
W	0	0	0	0	0	0	0	1	1	2	2	6
WNW	0	0	0	0	1	2	1	0	3	4	6	17
NW	0	0	0	0	1	1	1	2	5	1	2	13
NNW	0	1	0	0	2	1	2	2	2	0	0	10
Tot	0	1	1	5	25	31	32	18	31	20	13	177

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 177
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class D Neutral based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

Wind Direction Sector	<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	Total
N	0	0	1	0	5	2	1	2	3	2	0	16
NNE	0	0	3	1	3	8	7	16	7	9	11	65
NE	0	0	0	2	11	23	36	23	28	6	1	130
ENE	0	0	0	1	23	27	33	18	6	2	0	110
E	0	2	1	4	4	7	13	12	14	7	1	65
ESE	0	0	1	1	1	2	3	4	8	7	0	27
SE	0	0	0	0	2	2	2	4	8	1	0	19
SSE	0	0	1	0	1	4	6	5	14	7	2	40
S	0	0	0	2	3	4	10	5	19	7	12	62
SSW	0	0	0	2	6	3	5	7	10	13	10	56
SW	0	0	2	3	4	6	7	10	10	7	7	56
WSW	0	0	1	4	7	6	8	7	14	5	9	61
W	0	2	1	0	8	9	6	4	10	10	35	85
WNW	0	0	3	0	1	3	10	3	5	11	7	43
NW	0	0	0	3	1	0	8	3	19	6	3	43
NNW	0	0	0	0	0	2	4	3	3	0	0	12
Tot	0	4	14	23	80	108	159	126	178	100	98	890

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 890
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class E Slightly Stable based on Lapse Rate

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	4	1	13	0	0	20
NNE	0	0	0	0	1	2	2	10	9	2	0	26
NE	0	0	0	1	3	4	7	11	1	3	0	30
ENE	0	1	1	1	8	11	12	3	2	0	0	39
E	0	0	0	0	1	2	5	6	4	2	0	20
ESE	0	0	0	0	4	1	9	9	8	3	0	34
SE	0	0	0	1	4	1	9	10	9	1	0	35
SSE	0	0	0	0	2	5	4	7	17	5	2	42
S	0	0	0	0	0	3	6	12	37	16	20	94
SSW	0	1	1	1	2	4	5	9	22	13	14	72
SW	0	2	0	0	2	1	10	23	21	21	6	86
WSW	0	0	1	2	4	4	3	4	10	8	2	38
W	0	0	0	1	5	2	5	6	3	3	0	25
WNW	0	0	0	0	2	4	6	3	9	2	0	26
NW	0	0	0	0	0	2	4	4	12	0	1	23
NNW	0	1	1	0	2	3	4	0	3	2	1	17
Tot	0	5	4	7	42	49	95	118	180	81	46	627

Hours of Calm 0
Hours of Variable Direction 2
Hours of Valid Data 629
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class F Moderately Stable based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

Wind Direction Sector	<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	Total
N	0	0	0	2	1	1	1	3	1	5	0	14
NNE	0	0	0	1	3	2	3	0	0	0	0	9
NE	0	0	2	0	0	0	0	0	0	0	0	2
ENE	0	0	0	1	1	0	0	0	0	0	0	2
E	0	0	0	0	1	1	0	0	0	0	0	2
ESE	0	0	1	0	0	0	0	0	1	0	0	2
SE	0	0	0	0	3	0	0	3	2	0	0	8
SSE	0	0	1	2	2	0	4	1	7	0	0	17
S	0	0	0	0	1	0	2	2	7	10	0	22
SSW	0	0	0	1	1	5	1	3	6	3	1	21
SW	0	0	0	0	4	5	1	4	9	4	0	27
WSW	0	0	1	0	2	2	2	0	3	2	0	12
W	0	0	0	0	1	5	6	2	2	0	0	16
WNW	0	0	0	0	1	3	2	2	1	0	0	9
NW	0	0	0	0	1	0	4	1	3	0	0	9
NNW	0	0	0	0	1	1	0	0	5	1	1	9
Tot	0	0	5	7	23	25	26	21	47	25	2	181

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 181
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Apr - Jun for years 2015 - 2015

Stability Class G Extremely Stable based on Lapse Rate

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	2	1	0	0	0	4
NNE	0	0	0	0	0	1	2	0	1	0	0	4
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	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	3	2	1	0	0	0	0	6
S	0	0	0	0	0	0	0	1	1	0	0	2
SSW	0	0	1	1	0	0	0	0	0	0	0	2
SW	0	0	1	0	0	0	0	1	0	0	0	2
WSW	0	0	0	1	1	1	0	3	0	0	0	6
W	0	0	0	0	0	0	3	0	0	0	0	3
WNW	0	0	2	0	0	0	0	0	0	0	0	2
NW	0	0	0	1	1	0	1	0	0	0	0	3
NNW	0	0	0	1	1	1	1	1	3	1	0	9
Tot	0	0	4	4	6	6	11	7	5	1	0	44

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 44
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

All Stabilities

Elevations:: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	9	8	7	25	28	14	3	1	0	0	95
NNE	0	5	9	18	32	14	9	7	15	0	0	109
NE	1	10	16	17	42	28	10	6	6	0	0	136
ENE	1	7	13	27	51	3	0	0	0	0	0	102
E	0	4	10	24	65	25	1	0	0	0	0	129
ESE	0	20	13	25	35	14	3	0	0	0	0	110
SE	0	20	13	14	38	37	14	2	0	0	0	138
SSE	0	9	22	23	60	52	10	13	0	0	0	189
S	0	15	28	31	65	41	32	25	9	0	0	246
SSW	0	10	35	32	37	19	17	6	5	0	0	161
SW	0	6	29	34	44	21	19	10	10	0	0	173
WSW	0	4	13	19	33	24	11	6	1	0	0	111
W	0	11	21	17	32	14	9	11	12	0	0	127
WNW	0	10	19	19	27	32	18	10	0	0	0	135
NW	0	11	16	8	12	12	9	5	0	0	0	73
NNW	0	13	18	12	43	26	14	7	0	0	0	133
Tot	2	164	283	327	641	390	190	111	59	0	0	2167

Hours of Calm 26
Hours of Variable Direction 2
Hours of Valid Data 2195
Hours of Missing Data 13
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class A Extremely Unstable based on Lapse Rate

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	1	0	0	0	0	4
NNE	0	0	0	5	1	1	2	0	0	0	0	9
NE	0	0	1	1	5	9	2	3	2	0	0	23
ENE	0	0	1	1	11	1	0	0	0	0	0	14
E	0	0	0	4	4	8	1	0	0	0	0	17
ESE	0	0	1	1	0	1	0	0	0	0	0	3
SE	0	1	0	1	2	0	0	0	0	0	0	4
SSE	0	0	0	1	8	4	1	0	0	0	0	14
S	0	0	2	1	6	8	3	2	0	0	0	22
SSW	0	1	1	4	1	7	1	0	0	0	0	15
SW	0	0	2	3	3	4	4	4	6	0	0	26
WSW	0	0	1	0	10	7	6	1	0	0	0	25
W	0	1	4	1	8	2	0	0	0	0	0	16
WNW	0	1	1	2	6	10	11	2	0	0	0	33
NW	0	1	1	0	1	3	2	1	0	0	0	9
NNW	0	0	1	2	5	8	4	3	0	0	0	23
Tot	0	5	16	27	72	75	38	16	8	0	0	257

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 257
Hours of Missing Data 13
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class B Moderately Unstable based on Lapse Rate

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	1	0	1	1	0	0	1	0	0	4
NE	0	0	0	1	1	2	1	0	1	0	0	6
ENE	0	0	0	0	2	1	0	0	0	0	0	3
E	0	0	0	1	2	3	0	0	0	0	0	6
ESE	0	0	0	0	2	0	0	0	0	0	0	2
SE	0	1	0	0	2	0	0	0	0	0	0	3
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	1	1	1	4	0	0	0	7
SSW	0	0	0	0	0	1	1	1	0	0	0	3
SW	0	0	2	1	5	3	1	0	2	0	0	14
WSW	0	0	0	1	5	3	1	1	0	0	0	11
W	0	0	0	1	0	2	2	1	5	0	0	11
WNW	0	0	0	0	2	0	3	3	0	0	0	8
NW	0	0	0	0	0	1	2	1	0	0	0	4
NNW	0	0	1	0	0	2	2	1	0	0	0	6
Tot	0	1	4	5	24	20	15	12	9	0	0	90

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 90
Hours of Missing Data 13
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class C Slightly Unstable based on Lapse Rate

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	0	1	0	1	0	0	0	0	2
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	1	0	1	0	0	0	0	0	2
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	1	1	2	0	0	0	0	0	4
SSE	0	0	0	3	1	0	0	1	0	0	0	5
S	0	0	2	0	2	0	2	0	0	0	0	6
SSW	0	0	0	2	2	1	0	0	0	0	0	5
SW	0	0	0	0	3	3	4	0	1	0	0	11
WSW	0	0	0	0	2	1	0	1	0	0	0	4
W	0	0	0	0	2	1	0	3	3	0	0	9
WNW	0	0	0	0	0	6	1	1	0	0	0	8
NW	0	0	0	0	2	1	1	0	0	0	0	4
NNW	0	0	0	0	1	0	2	1	0	0	0	4
Tot	0	0	2	7	19	17	12	8	4	0	0	69

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 69
Hours of Missing Data 13
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class D Neutral based on Lapse Rate

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	5	13	7	1	0	0	0	28
NNE	0	1	1	1	6	6	3	5	7	0	0	30
NE	0	3	5	5	7	7	4	2	2	0	0	35
ENE	0	2	0	6	12	1	0	0	0	0	0	21
E	0	0	1	8	11	6	0	0	0	0	0	26
ESE	0	1	3	5	5	1	0	0	0	0	0	15
SE	0	0	1	4	10	7	3	1	0	0	0	26
SSE	0	0	2	2	10	8	4	9	0	0	0	35
S	0	0	7	5	13	13	11	12	4	0	0	65
SSW	0	0	1	2	9	3	14	3	4	0	0	36
SW	0	0	3	1	8	4	2	1	1	0	0	20
WSW	0	0	1	7	9	10	2	2	0	0	0	31
W	0	0	2	3	6	2	3	4	4	0	0	24
WNW	0	0	0	2	9	8	1	3	0	0	0	23
NW	0	1	1	1	3	6	2	1	0	0	0	15
NNW	0	0	2	2	9	6	3	1	0	0	0	23
Tot	0	8	31	55	132	101	59	45	22	0	0	453

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 453
Hours of Missing Data 13
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class E Slightly Stable based on Lapse Rate

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	4	3	15	13	4	2	1	0	0	45
NNE	0	1	4	11	18	6	3	2	7	0	0	52
NE	0	3	6	9	28	9	3	0	1	0	0	59
ENE	0	2	10	19	26	0	0	0	0	0	0	57
E	0	2	6	7	43	6	0	0	0	0	0	64
ESE	0	6	4	10	17	7	2	0	0	0	0	46
SE	0	6	10	4	15	25	10	1	0	0	0	71
SSE	0	3	13	12	28	30	5	3	0	0	0	94
S	0	3	8	11	23	15	14	7	5	0	0	86
SSW	0	0	8	10	19	7	1	2	1	0	0	48
SW	0	2	3	6	13	7	8	5	0	0	0	44
WSW	0	0	4	2	5	2	2	1	1	0	0	17
W	0	4	7	7	10	6	4	3	0	0	0	41
WNW	0	2	7	6	8	8	2	1	0	0	0	34
NW	0	0	6	5	5	1	2	2	0	0	0	21
NNW	0	1	4	5	26	9	3	1	0	0	0	49
Tot	0	38	104	127	299	151	63	30	16	0	0	828

Hours of Calm 7
Hours of Variable Direction 0
Hours of Valid Data 835
Hours of Missing Data 13
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class F Moderately Stable based on Lapse Rate

Elevations:: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	5	2	3	2	0	0	0	0	0	0	12
NNE	0	3	3	1	5	0	0	0	0	0	0	12
NE	1	2	3	0	0	0	0	0	0	0	0	6
ENE	1	3	2	1	0	0	0	0	0	0	0	7
E	0	1	3	3	5	1	0	0	0	0	0	13
ESE	0	9	3	6	10	4	1	0	0	0	0	33
SE	0	10	2	4	8	3	1	0	0	0	0	28
SSE	0	1	7	5	13	10	0	0	0	0	0	36
S	0	9	6	10	18	4	1	0	0	0	0	48
SSW	0	3	19	12	6	0	0	0	0	0	0	40
SW	0	3	14	19	12	0	0	0	0	0	0	48
WSW	0	4	5	6	2	1	0	0	0	0	0	18
W	0	3	7	5	5	1	0	0	0	0	0	21
WNW	0	1	8	9	2	0	0	0	0	0	0	20
NW	0	2	6	1	1	0	0	0	0	0	0	10
NNW	0	4	4	3	2	1	0	0	0	0	0	14
Tot	2	63	94	88	91	25	3	0	0	0	0	366

Hours of Calm 13
Hours of Variable Direction 0
Hours of Valid Data 379
Hours of Missing Data 13
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class G Extremely Stable based on Lapse Rate

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	1	0	0	0	0	0	0	0	0	2
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	2	1	1	0	0	0	0	0	0	0	4
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	1	0	0	0	0	0	0	0	0	0	1
ESE	0	4	2	3	1	1	0	0	0	0	0	11
SE	0	2	0	0	0	0	0	0	0	0	0	2
SSE	0	5	0	0	0	0	0	0	0	0	0	5
S	0	3	3	4	2	0	0	0	0	0	0	12
SSW	0	6	6	2	0	0	0	0	0	0	0	14
SW	0	1	5	4	0	0	0	0	0	0	0	10
WSW	0	0	2	3	0	0	0	0	0	0	0	5
W	0	3	1	0	1	0	0	0	0	0	0	5
WNW	0	6	3	0	0	0	0	0	0	0	0	9
NW	0	7	2	1	0	0	0	0	0	0	0	10
NNW	0	8	6	0	0	0	0	0	0	0	0	14
Tot	0	49	32	18	4	1	0	0	0	0	0	104

Hours of Calm 6
Hours of Variable Direction 2
Hours of Valid Data 112
Hours of Missing Data 13
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

All Stabilities

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	1	1	12	29	24	19	8	1	0	95
NNE	0	1	1	6	18	18	12	12	10	17	0	95
NE	0	4	6	11	23	29	36	10	9	1	0	129
ENE	0	2	7	11	39	26	8	0	0	0	0	93
E	0	0	10	9	34	38	49	6	0	0	0	146
ESE	0	3	3	8	30	15	18	10	2	0	0	89
SE	0	2	6	3	20	34	32	25	7	0	0	129
SSE	0	4	8	12	33	35	37	30	18	0	0	177
S	0	0	15	10	33	50	65	35	31	8	0	247
SSW	0	2	5	13	30	58	27	22	10	4	0	171
SW	0	2	9	8	33	49	35	21	13	13	2	185
WSW	0	3	7	12	38	33	16	10	17	1	0	137
W	0	4	8	10	23	27	17	15	12	11	0	127
WNW	1	4	6	10	25	29	30	20	20	1	0	146
NW	0	1	2	6	22	15	11	9	9	1	0	76
NNW	0	6	8	1	21	27	16	20	8	0	0	107
Tot	1	38	102	131	434	512	433	264	174	58	2	2149

Hours of Calm 5
Hours of Variable Direction 0
Hours of Valid Data 2154
Hours of Missing Data 54
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class A Extremely Unstable based on Lapse Rate

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	2	1	0	0	0	5
NNE	0	0	0	3	3	0	1	2	1	0	0	10
NE	0	0	0	1	5	2	8	2	4	0	0	22
ENE	0	0	0	0	8	3	1	0	0	0	0	12
E	0	0	1	2	2	4	6	0	0	0	0	15
ESE	0	0	0	0	1	0	1	2	0	0	0	4
SE	0	0	0	0	2	0	0	0	0	0	0	2
SSE	0	0	1	0	8	4	3	0	0	0	0	16
S	0	0	3	1	2	5	9	1	2	0	0	23
SSW	0	0	0	4	1	3	5	1	0	0	0	14
SW	0	0	3	1	2	2	3	4	4	5	1	25
WSW	0	0	0	2	8	5	6	3	4	0	0	28
W	0	0	2	3	7	1	2	0	0	0	0	15
WNW	0	0	1	1	4	7	5	6	9	0	0	33
NW	0	0	0	0	2	2	1	3	1	0	0	9
NNW	0	1	2	1	2	3	8	3	4	0	0	24
Tot	0	1	13	19	59	41	61	28	29	5	1	257

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 257
Hours of Missing Data 54
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class B Moderately Unstable based on Lapse Rate

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	0	0	0	1	0	0	1	0	0	2
NNE	0	0	0	0	1	0	1	0	0	2	0	4
NE	0	0	0	0	0	2	1	1	0	0	0	4
ENE	0	0	0	0	1	2	1	0	0	0	0	4
E	0	0	0	0	2	1	3	0	0	0	0	6
ESE	0	0	0	0	2	0	0	0	0	0	0	2
SE	0	0	0	0	2	0	0	0	0	0	0	2
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	1	0	1	1	1	0	2	0	0	6
SSW	0	0	1	0	1	0	1	2	3	0	0	8
SW	0	0	0	0	1	5	1	1	0	2	0	10
WSW	0	0	1	1	4	4	1	1	1	0	0	13
W	0	0	0	0	0	2	0	2	1	5	0	10
WNW	0	0	0	0	1	1	1	1	3	1	0	8
NW	0	0	0	0	1	1	0	1	2	0	0	5
NNW	0	0	1	0	0	0	2	1	2	0	0	6
Tot	0	0	4	1	17	20	13	10	15	10	0	90

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 90
Hours of Missing Data 54
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class C Slightly Unstable based on Lapse Rate

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	0	0	0	1
NNE	0	0	0	0	0	1	0	1	0	0	0	2
NE	0	0	0	0	1	0	2	0	1	0	0	4
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	1	0	0	0	0	0	0	0	1
SE	0	0	0	0	1	3	0	0	0	0	0	4
SSE	0	0	0	1	1	0	0	0	1	0	0	3
S	0	0	2	1	2	0	1	1	0	0	0	7
SSW	0	0	0	0	1	1	0	0	0	0	0	2
SW	0	0	0	2	1	3	2	4	1	1	0	14
WSW	0	0	0	0	1	1	1	0	1	0	0	4
W	0	0	0	0	1	1	1	1	2	3	0	9
WNW	0	0	0	0	0	1	3	2	1	0	0	7
NW	0	0	0	0	0	2	1	1	0	0	0	4
NNW	0	0	0	0	0	1	0	3	1	0	0	5
Tot	0	0	2	6	10	14	12	13	8	4	0	69

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 69
Hours of Missing Data 54
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015
METEOROLOGICAL DATA
DOCKET NUMBERS: 50-010/50-237/50-249

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class D Neutral based on Lapse Rate

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	<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	Total
N	0	0	0	0	5	7	8	8	2	0	0	30
NNE	0	0	0	1	2	8	6	3	4	9	0	33
NE	0	3	1	4	4	3	7	3	3	0	0	28
ENE	0	1	2	2	8	7	1	0	0	0	0	21
E	0	0	0	3	11	7	6	0	0	0	0	27
ESE	0	0	1	3	9	2	0	1	0	0	0	16
SE	0	0	1	1	4	8	4	6	1	0	0	25
SSE	0	1	1	3	5	6	5	3	9	0	0	33
S	0	0	2	3	10	10	15	9	12	3	0	64
SSW	0	0	0	1	5	6	4	12	4	3	0	35
SW	0	0	1	1	5	6	4	3	0	1	1	22
WSW	0	0	1	4	9	6	6	2	3	0	0	31
W	0	0	1	2	3	5	1	4	4	3	0	23
WNW	0	0	0	0	4	4	7	3	4	0	0	22
NW	0	0	0	1	4	0	5	3	2	0	0	15
NNW	0	1	3	0	3	5	2	5	1	0	0	20
Tot	0	6	14	29	91	90	81	65	49	19	1	445

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 445
Hours of Missing Data 54
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class E Slightly Stable based on Lapse Rate

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	<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	Total
N	0	0	0	1	4	17	12	10	5	1	0	50
NNE	0	0	0	1	10	7	3	6	5	6	0	38
NE	0	0	3	6	11	20	18	4	1	1	0	64
ENE	0	0	4	6	21	14	5	0	0	0	0	50
E	0	0	4	2	14	21	29	6	0	0	0	76
ESE	0	2	0	2	13	10	10	1	1	0	0	39
SE	0	1	3	2	4	13	26	17	3	0	0	69
SSE	0	0	2	5	13	20	26	15	7	0	0	88
S	0	0	3	2	9	26	17	12	13	5	0	87
SSW	0	1	1	0	13	20	9	4	3	1	0	52
SW	0	0	3	2	9	10	8	4	8	4	0	48
WSW	0	0	0	2	5	5	1	3	8	1	0	25
W	0	1	2	3	7	6	7	7	5	0	0	38
WNW	1	4	0	3	8	3	7	8	3	0	0	37
NW	0	0	0	1	6	6	2	1	4	1	0	21
NNW	0	0	1	0	10	16	3	7	0	0	0	37
Tot	1	9	26	38	157	214	183	105	66	20	0	819

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 819
Hours of Missing Data 54
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class F Moderately Stable based on Lapse Rate

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	<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	Total
N	0	0	1	0	0	2	2	0	0	0	0	5
NNE	0	1	1	1	1	2	1	0	0	0	0	7
NE	0	0	2	0	2	2	0	0	0	0	0	6
ENE	0	0	1	3	1	0	0	0	0	0	0	5
E	0	0	1	1	4	5	4	0	0	0	0	15
ESE	0	1	0	2	4	3	5	5	1	0	0	21
SE	0	1	1	0	4	9	2	2	3	0	0	22
SSE	0	1	3	2	5	5	3	12	1	0	0	32
S	0	0	3	2	8	8	19	11	2	0	0	53
SSW	0	1	2	7	7	26	7	1	0	0	0	51
SW	0	2	1	1	10	16	17	5	0	0	0	52
WSW	0	0	0	0	7	11	1	1	0	0	0	20
W	0	1	2	2	1	8	5	1	0	0	0	20
WNW	0	0	4	4	4	13	7	0	0	0	0	32
NW	0	1	1	2	3	3	2	0	0	0	0	12
NNW	0	3	1	0	6	2	1	1	0	0	0	14
Tot	0	12	24	27	67	115	76	39	7	0	0	367

Hours of Calm 3
Hours of Variable Direction 0
Hours of Valid Data 370
Hours of Missing Data 54
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class G Extremely Stable based on Lapse Rate

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	0	0	0	2	0	0	0	0	0	2
NNE	0	0	0	0	1	0	0	0	0	0	0	1
NE	0	1	0	0	0	0	0	0	0	0	0	1
ENE	0	1	0	0	0	0	0	0	0	0	0	1
E	0	0	4	0	1	0	0	0	0	0	0	5
ESE	0	0	2	0	1	0	2	1	0	0	0	6
SE	0	0	1	0	3	1	0	0	0	0	0	5
SSE	0	2	1	1	1	0	0	0	0	0	0	5
S	0	0	1	1	1	0	3	1	0	0	0	7
SSW	0	0	1	1	2	2	1	2	0	0	0	9
SW	0	0	1	1	5	7	0	0	0	0	0	14
WSW	0	3	5	3	4	1	0	0	0	0	0	16
W	0	2	1	0	4	4	1	0	0	0	0	12
WNW	0	0	1	2	4	0	0	0	0	0	0	7
NW	0	0	1	2	6	1	0	0	0	0	0	10
NNW	0	1	0	0	0	0	0	0	0	0	0	1
Tot	0	10	19	11	33	18	7	4	0	0	0	102

Hours of Calm 2
Hours of Variable Direction 0
Hours of Valid Data 104
Hours of Missing Data 54
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

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	4	5	22	19	25	4	1	85
NNE	0	0	1	3	6	12	15	12	17	15	3	84
NE	0	1	4	4	17	19	19	25	30	7	2	128
ENE	0	2	4	9	27	27	16	12	2	1	0	100
E	0	2	3	9	23	28	21	25	22	1	0	134
ESE	0	2	3	4	22	21	10	10	14	2	0	88
SE	0	2	5	6	15	16	24	17	26	3	0	114
SSE	1	2	4	8	17	19	35	22	37	10	1	156
S	0	3	7	12	15	18	36	28	87	25	4	235
SSW	0	1	3	2	24	27	29	44	61	10	2	203
SW	0	0	6	5	18	25	29	35	45	11	9	183
WSW	0	0	6	11	27	35	26	17	28	10	3	163
W	0	3	7	6	19	18	20	18	22	12	11	136
WNW	0	0	2	8	10	18	13	24	42	15	0	132
NW	0	0	5	4	7	12	14	10	21	3	1	77
NNW	0	4	3	2	16	12	28	14	17	4	0	100
Tot	1	24	66	93	267	312	357	332	496	133	37	2118

Hours of Calm 5
Hours of Variable Direction 0
Hours of Valid Data 2123
Hours of Missing Data 85
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class A Extremely Unstable based on Lapse Rate

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	1	0	0	0	1
NNE	0	0	0	1	2	0	0	0	0	0	0	3
NE	0	0	0	0	3	1	1	4	1	0	0	10
ENE	0	0	0	0	1	3	0	0	0	0	0	4
E	0	0	0	1	2	2	3	1	0	0	0	9
ESE	0	0	0	0	1	0	1	1	0	0	0	3
SE	0	0	0	0	2	0	0	0	0	0	0	2
SSE	0	0	0	0	4	3	0	1	0	0	0	8
S	0	0	0	0	3	2	5	2	0	0	0	12
SSW	0	0	0	0	1	0	2	0	0	0	0	3
SW	0	0	0	0	2	0	0	2	0	2	1	7
WSW	0	0	0	1	0	0	0	1	1	0	0	3
W	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	1	0	0	0	0	0	0	1
NNW	0	0	0	0	2	1	1	1	1	0	0	6
Tot	0	0	0	3	24	12	13	14	3	2	1	72

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 72
Hours of Missing Data 85
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class B Moderately Unstable based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	1	0	0	1	1	0	3	0	0	0	6
NNE	0	0	0	0	1	1	0	0	0	0	0	2
NE	0	0	0	0	1	0	2	2	1	0	0	6
ENE	0	0	0	0	4	1	0	1	0	0	0	6
E	0	0	0	1	1	0	2	1	0	0	0	5
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	1	0	0	1	0	0	0	0	0	0	2
SSE	0	0	0	0	1	0	0	1	0	0	0	2
S	0	0	0	1	0	1	0	0	2	0	0	4
SSW	0	0	0	1	0	3	0	0	0	0	0	4
SW	0	0	0	0	0	0	1	0	0	1	2	4
WSW	0	0	0	0	3	2	1	1	1	1	0	9
W	0	0	1	0	2	0	1	0	0	0	0	4
WNW	0	0	1	1	0	0	0	2	1	0	0	5
NW	0	0	0	0	0	0	0	2	2	0	0	4
NNW	0	1	1	0	1	0	4	1	1	2	0	11
Tot	0	3	3	4	16	9	11	14	8	4	2	74

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 74
Hours of Missing Data 85
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class C Slightly Unstable based on Lapse Rate

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	1	0	1	0	0	0	0	2
NE	0	0	0	2	2	1	1	3	3	4	0	16
ENE	0	0	1	0	2	0	1	0	0	0	0	4
E	0	0	0	0	1	1	2	0	0	0	0	4
ESE	0	0	0	0	0	1	1	0	0	0	0	2
SE	0	0	2	0	0	0	0	0	1	0	0	3
SSE	0	0	0	0	1	0	3	0	1	0	0	5
S	0	0	1	0	2	2	3	1	1	0	0	10
SSW	0	0	0	0	2	0	2	3	1	0	0	8
SW	0	0	2	2	1	1	2	2	4	2	1	17
WSW	0	0	2	1	1	10	4	3	2	1	0	24
W	0	0	1	1	5	2	0	1	0	4	5	19
WNW	0	0	0	1	3	2	3	4	9	3	0	25
NW	0	0	0	0	0	0	0	0	4	0	0	4
NNW	0	0	0	0	0	1	2	3	2	0	0	8
Tot	0	0	9	7	21	21	25	20	28	14	6	151

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 151
Hours of Missing Data 85
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class D Neutral based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

Wind Direction Sector	<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	Total
N	0	1	2	0	1	3	11	5	14	0	1	38
NNE	0	0	0	1	1	9	6	7	5	14	3	46
NE	0	0	3	2	8	13	8	8	12	3	2	59
ENE	0	1	2	4	7	10	4	1	0	1	0	30
E	0	1	2	3	13	15	8	8	2	0	0	52
ESE	0	0	0	3	13	9	2	0	0	0	0	27
SE	0	1	3	2	6	9	9	4	4	1	0	39
SSE	0	0	0	3	4	6	14	6	13	3	0	49
S	0	0	2	6	5	7	12	11	29	5	0	77
SSW	0	0	1	0	12	7	9	14	10	5	1	59
SW	0	0	3	1	5	10	6	8	6	3	1	43
WSW	0	0	1	5	12	5	11	3	5	4	1	47
W	0	1	1	1	7	7	6	3	6	5	6	43
WNW	0	0	1	0	1	7	3	7	12	6	0	37
NW	0	0	0	2	1	4	8	4	6	3	1	29
NNW	0	2	1	1	4	4	9	2	8	2	0	33
Tot	0	7	22	34	100	125	126	91	132	55	16	708

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 708
Hours of Missing Data 85
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class E Slightly Stable based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	0	0	1	0	11	9	10	4	0	35
NNE	0	0	0	1	1	2	8	4	10	1	0	27
NE	0	0	1	0	2	2	7	6	13	0	0	31
ENE	0	0	1	4	13	11	11	10	2	0	0	52
E	0	0	1	4	4	10	6	15	20	1	0	61
ESE	0	1	3	1	4	7	5	7	7	1	0	36
SE	0	0	0	2	3	4	14	13	16	1	0	53
SSE	0	0	1	4	5	9	14	9	21	6	1	70
S	0	1	3	3	1	5	11	10	42	15	4	95
SSW	0	1	1	0	3	9	12	18	25	4	1	74
SW	0	0	0	1	2	6	14	11	11	3	4	52
WSW	0	0	1	0	5	9	5	3	9	4	2	38
W	0	0	1	2	3	4	6	8	14	3	0	41
WNW	0	0	0	3	2	8	5	3	15	5	0	41
NW	0	0	1	0	1	3	3	1	3	0	0	12
NNW	0	1	0	0	3	2	10	5	5	0	0	26
Tot	0	4	14	25	53	91	142	132	223	48	12	744

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 744
Hours of Missing Data 85
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class F Moderately Stable based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

Wind Direction Sector	<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	Total
N	0	0	1	0	1	1	0	1	1	0	0	5
NNE	0	0	1	0	0	0	0	1	2	0	0	4
NE	0	1	0	0	1	1	0	2	0	0	0	5
ENE	0	1	0	1	0	2	0	0	0	0	0	4
E	0	1	0	0	1	0	0	0	0	0	0	2
ESE	0	1	0	0	3	4	1	2	5	1	0	17
SE	0	0	0	2	1	3	1	0	3	1	0	11
SSE	1	2	3	1	2	1	4	5	2	1	0	22
S	0	2	1	1	4	1	5	4	13	5	0	36
SSW	0	0	1	1	4	6	3	8	21	1	0	45
SW	0	0	1	1	6	8	5	10	21	0	0	52
WSW	0	0	2	4	6	9	5	3	8	0	0	37
W	0	2	3	1	1	3	6	6	2	0	0	24
WNW	0	0	0	2	3	1	2	8	5	1	0	22
NW	0	0	3	2	2	3	3	3	6	0	0	22
NNW	0	0	1	1	6	4	2	1	0	0	0	15
Tot	1	10	17	17	41	47	37	54	89	10	0	323

Hours of Calm 4
Hours of Variable Direction 0
Hours of Valid Data 327
Hours of Missing Data 85
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Jul - Sep for years 2015 - 2015

Stability Class G Extremely Stable based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	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	1	0	0	0	0	0	0	1
ESE	0	0	0	0	1	0	0	0	2	0	0	3
SE	0	0	0	0	2	0	0	0	2	0	0	4
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	1	0	0	0	0	0	0	0	1
SSW	0	0	0	0	2	2	1	1	4	0	0	10
SW	0	0	0	0	2	0	1	2	3	0	0	8
WSW	0	0	0	0	0	0	0	3	2	0	0	5
W	0	0	0	1	1	2	1	0	0	0	0	5
WNW	0	0	0	1	1	0	0	0	0	0	0	2
NW	0	0	1	0	2	2	0	0	0	0	0	5
NNW	0	0	0	0	0	0	0	1	0	0	0	1
Tot	0	0	1	3	12	7	3	7	13	0	0	46

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 47
Hours of Missing Data 85
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

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	3	2	3	19	11	14	9	3	0	0	64
NNE	0	2	3	7	23	12	17	11	13	3	0	91
NE	0	1	4	15	28	20	17	24	21	1	0	131
ENE	0	0	1	7	31	15	6	7	3	0	0	70
E	0	1	3	4	14	35	14	8	3	0	0	82
ESE	1	2	4	8	12	24	23	16	1	0	0	91
SE	0	6	2	4	8	18	14	16	18	12	3	101
SSE	0	2	11	13	47	35	31	14	22	11	4	190
S	0	3	11	26	81	55	56	31	63	26	2	354
SSW	0	4	9	19	39	18	17	16	35	15	2	174
SW	0	7	10	16	31	33	15	16	18	1	3	150
WSW	0	4	8	9	21	35	17	18	21	4	4	141
W	0	9	12	11	40	51	40	40	46	10	3	262
WNW	0	13	17	17	36	29	19	21	10	5	0	167
NW	0	6	8	7	16	10	19	7	5	0	0	78
NNW	0	1	7	4	9	14	15	1	6	0	0	57
Tot	1	64	112	170	455	415	334	255	288	88	21	2203

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

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class A Extremely Unstable based on Lapse Rate

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	4	1	0	5
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	1	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	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	1	1	2	2	0	0	0	6
NNW	0	0	0	0	0	0	3	0	0	0	0	3
Tot	0	0	0	0	1	2	5	2	4	1	0	15

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 15
Hours of Missing Data 4
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class B Moderately Unstable based on Lapse Rate

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	1	2	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	1	0	0	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	0	0	0	0
SSW	0	0	0	0	0	1	1	0	0	0	0	2
SW	0	0	0	0	1	1	0	1	0	0	0	3
WSW	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	1	0	0	0	1
WNW	0	0	0	0	1	0	1	0	0	0	0	2
NW	0	0	0	0	0	0	1	1	0	0	0	2
NNW	0	0	0	0	0	1	0	0	0	0	0	1
Tot	0	0	0	0	2	3	4	4	2	0	0	15

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 15
Hours of Missing Data 4
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class C Slightly Unstable based on Lapse Rate

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	0	0	1	0	0	0	0	2
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	1	1	0	1	4	0	0	7
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	1	0	0	0	0	0	1
SE	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	1	0	0	0	0	0	1
S	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	1	3	0	4
SW	0	0	0	0	1	0	0	3	1	0	0	5
WSW	0	0	0	0	0	3	0	3	0	0	0	6
W	0	0	0	0	1	0	2	0	2	0	0	5
WNW	0	0	0	0	1	0	1	0	2	1	0	5
NW	0	0	0	0	1	1	1	0	0	0	0	3
NNW	0	0	0	0	0	1	1	0	0	0	0	2
Tot	0	0	0	1	5	8	6	7	10	4	0	41

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 41
Hours of Missing Data 4
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class D Neutral based on Lapse Rate

Elevations:: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	1	0	1	5	3	4	5	0	0	0	19
NNE	0	0	2	3	8	4	4	5	8	2	0	36
NE	0	0	1	7	14	4	2	6	8	0	0	42
ENE	0	0	0	1	8	0	0	0	0	0	0	9
E	0	0	0	1	2	2	2	0	0	0	0	7
ESE	0	0	0	0	1	5	6	3	0	0	0	15
SE	0	1	0	2	2	1	0	0	0	0	0	6
SSE	0	0	3	0	5	3	2	1	5	0	0	19
S	0	0	1	2	12	8	9	4	9	4	0	49
SSW	0	0	0	1	8	2	4	3	14	2	0	34
SW	0	0	1	1	5	3	1	8	6	0	0	25
WSW	0	0	0	2	6	13	8	5	1	2	0	37
W	0	1	0	1	6	16	11	12	17	5	0	69
WNW	0	1	0	1	1	4	6	8	5	2	0	28
NW	0	0	0	0	0	1	6	1	0	0	0	8
NNW	0	0	3	1	1	1	2	0	0	0	0	8
Tot	0	4	11	24	84	70	67	61	73	17	0	411

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 411
Hours of Missing Data 4
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class E Slightly Stable based on Lapse Rate

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	10	8	9	4	3	0	0	36
NNE	0	1	0	4	15	8	13	6	5	1	0	53
NE	0	1	1	8	13	15	15	16	3	0	0	72
ENE	0	0	1	6	23	15	6	7	3	0	0	61
E	0	0	2	2	12	33	12	8	3	0	0	72
ESE	0	0	0	2	7	12	14	13	1	0	0	49
SE	0	4	0	2	3	13	14	16	18	12	3	85
SSE	0	0	3	9	20	25	29	13	17	11	4	131
S	0	3	5	14	49	34	43	27	54	22	2	253
SSW	0	2	2	4	16	12	12	13	20	10	2	93
SW	0	3	3	3	10	10	12	4	11	1	3	60
WSW	0	2	1	1	10	18	7	10	20	2	4	75
W	0	1	5	3	30	35	27	27	27	5	3	163
WNW	0	1	1	6	18	25	11	13	3	2	0	80
NW	0	0	0	1	9	6	9	3	5	0	0	33
NNW	0	0	2	3	7	6	9	1	6	0	0	34
Tot	0	18	27	69	252	275	242	181	199	66	21	1350

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 1350
Hours of Missing Data 4
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class F Moderately Stable based on Lapse Rate

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	1	0	4	0	0	0	0	0	0	6
NNE	0	1	1	0	0	0	0	0	0	0	0	2
NE	0	0	2	0	0	0	0	0	0	0	0	2
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	1	1	1	0	0	0	0	0	0	0	3
ESE	1	1	3	6	4	5	2	0	0	0	0	22
SE	0	0	2	0	3	2	0	0	0	0	0	7
SSE	0	0	3	4	22	6	0	0	0	0	0	35
S	0	0	2	9	19	13	4	0	0	0	0	47
SSW	0	2	4	7	14	3	0	0	0	0	0	30
SW	0	3	3	5	8	13	2	0	0	0	0	34
WSW	0	2	4	5	4	1	2	0	0	0	0	18
W	0	5	5	7	3	0	0	0	0	0	0	20
WNW	0	6	7	10	15	0	0	0	0	0	0	38
NW	0	1	1	5	5	1	0	0	0	0	0	13
NNW	0	1	1	0	1	5	0	0	0	0	0	8
Tot	1	24	40	59	102	49	10	0	0	0	0	285

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 285
Hours of Missing Data 4
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class G Extremely Stable based on Lapse Rate

Elevations:: Winds 35ft Stability 150ft

Wind Direction Sector	<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	Total
N	0	1	0	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	1	1	0	0	1	0	0	0	0	0	3
SE	0	1	0	0	0	1	0	0	0	0	0	2
SSE	0	2	2	0	0	0	0	0	0	0	0	4
S	0	0	3	1	1	0	0	0	0	0	0	5
SSW	0	0	3	7	1	0	0	0	0	0	0	11
SW	0	1	3	7	6	6	0	0	0	0	0	23
WSW	0	0	3	1	1	0	0	0	0	0	0	5
W	0	2	2	0	0	0	0	0	0	0	0	4
WNW	0	5	9	0	0	0	0	0	0	0	0	14
NW	0	5	7	1	0	0	0	0	0	0	0	13
NNW	0	0	1	0	0	0	0	0	0	0	0	1
Tot	0	18	34	17	9	8	0	0	0	0	0	86

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 87
Hours of Missing Data 4
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

All Stabilities

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	4	5	8	12	12	17	10	3	0	71
NNE	0	2	1	3	22	13	12	12	18	13	3	99
NE	0	1	4	5	27	15	14	18	35	14	2	135
ENE	0	1	4	2	11	24	16	12	5	4	1	80
E	0	0	1	1	2	13	6	24	23	5	0	75
ESE	0	0	1	3	6	9	9	17	30	1	0	76
SE	0	1	4	3	9	10	13	19	27	12	18	116
SSE	0	0	1	4	18	26	20	37	28	24	16	174
S	0	0	0	2	23	31	49	69	79	47	33	333
SSW	0	0	3	9	19	29	29	21	36	23	20	189
SW	0	0	0	5	12	20	32	13	49	12	8	151
WSW	0	0	3	4	11	19	27	25	28	22	18	157
W	0	3	2	4	12	43	45	36	50	39	20	254
WNW	0	0	1	2	11	24	38	32	29	10	8	155
NW	0	0	1	4	3	16	17	9	17	6	1	74
NNW	0	3	4	5	3	3	5	18	9	5	1	56
Tot	0	11	34	61	197	307	344	379	473	240	149	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
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class A Extremely Unstable based on Lapse Rate

Elevations:: Winds 150ft Stability 150ft

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

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 15
Hours of Missing Data 13
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class B Moderately Unstable based on Lapse Rate

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	1	1	1	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	1	0	0	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	0	0	0	0
SSW	0	0	0	0	0	1	1	0	0	0	0	2
SW	0	0	0	0	0	2	0	0	1	0	0	3
WSW	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	1	0	0	1
WNW	0	0	0	0	0	1	0	1	0	0	0	2
NW	0	0	0	0	0	0	1	0	1	0	0	2
NNW	0	0	0	0	0	0	1	0	0	0	0	1
Tot	0	0	0	0	0	4	4	1	4	1	1	15

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 15
Hours of Missing Data 13
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class C Slightly Unstable based on Lapse Rate

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	<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	Total
N	0	0	0	1	0	0	1	0	0	0	0	2
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	1	0	0	1	1	4	0	7
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	1	0	0	0	0	1
SE	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	1	0	0	0	0	0	1
S	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	1	3	4
SW	0	0	0	0	1	0	0	0	3	1	0	5
WSW	0	0	0	0	0	1	2	1	3	1	0	8
W	0	0	0	0	1	0	0	1	0	1	0	3
WNW	0	0	0	0	0	1	0	1	0	1	2	5
NW	0	0	0	0	0	1	1	1	0	0	0	3
NNW	0	0	0	0	0	0	1	0	1	0	0	2
Tot	0	0	0	1	3	4	6	5	8	9	5	41

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 41
Hours of Missing Data 13
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class D Neutral based on Lapse Rate

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	<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	Total
N	0	0	1	1	3	4	3	4	5	0	0	21
NNE	0	0	1	2	9	2	4	3	6	8	2	37
NE	0	0	2	3	13	7	4	2	8	4	1	44
ENE	0	0	0	1	2	2	0	0	0	0	0	5
E	0	0	0	1	0	3	2	1	2	0	0	9
ESE	0	0	0	0	1	1	4	1	6	0	0	13
SE	0	1	2	1	3	1	0	0	0	0	0	8
SSE	0	0	1	0	6	4	2	2	1	6	0	22
S	0	0	0	1	9	5	9	6	8	5	2	45
SSW	0	0	1	0	5	3	2	2	13	6	2	34
SW	0	0	0	0	3	3	3	1	11	3	0	24
WSW	0	0	0	2	4	9	7	6	7	3	2	40
W	0	1	0	0	0	7	13	8	14	15	6	64
WNW	0	0	0	1	2	0	3	5	12	2	4	29
NW	0	0	0	0	0	0	0	3	4	0	0	7
NNW	0	1	1	1	1	0	1	1	1	0	0	7
Tot	0	3	9	14	61	51	57	45	98	52	19	409

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 409
Hours of Missing Data 13
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class E Slightly Stable based on Lapse Rate

Elevations:: Winds 150ft Stability 150ft

Wind Direction Sector	<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	Total
N	0	0	1	1	3	6	7	13	5	3	0	39
NNE	0	1	0	0	9	10	7	9	12	4	0	52
NE	0	0	1	0	13	8	10	15	25	2	0	74
ENE	0	1	1	1	7	22	16	12	5	4	1	70
E	0	0	1	0	1	9	4	23	21	5	0	64
ESE	0	0	1	2	1	7	2	10	22	1	0	46
SE	0	0	2	1	3	1	11	18	27	12	18	93
SSE	0	0	0	2	6	15	15	28	25	18	16	125
S	0	0	0	1	12	20	26	36	65	42	31	233
SSW	0	0	2	8	11	17	12	12	21	16	15	114
SW	0	0	0	1	6	8	6	6	14	8	8	57
WSW	0	0	0	1	5	5	11	12	14	18	16	82
W	0	0	1	0	8	17	30	27	35	23	14	155
WNW	0	0	0	0	3	10	23	18	17	7	2	80
NW	0	0	0	2	0	6	8	2	10	6	1	35
NNW	0	0	1	1	0	3	2	10	6	5	1	29
Tot	0	2	11	21	88	164	190	251	324	174	123	1348

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 1348
Hours of Missing Data 13
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class F Moderately Stable based on Lapse Rate

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	0	2	1	0	0	0	0	5
NNE	0	0	0	0	2	1	1	0	0	0	0	4
NE	0	0	1	1	0	0	0	0	0	0	0	2
ENE	0	0	2	0	2	0	0	0	0	0	0	4
E	0	0	0	0	1	1	0	0	0	0	0	2
ESE	0	0	0	1	3	1	1	6	2	0	0	14
SE	0	0	0	1	2	7	2	0	0	0	0	12
SSE	0	0	0	2	4	4	3	6	2	0	0	21
S	0	0	0	0	2	5	13	27	6	0	0	53
SSW	0	0	0	1	2	7	10	6	2	0	0	28
SW	0	0	0	2	1	6	16	6	14	0	0	45
WSW	0	0	1	0	0	1	1	4	3	0	0	10
W	0	1	1	3	2	17	2	0	0	0	0	26
WNW	0	0	0	1	3	10	12	7	0	0	0	33
NW	0	0	1	0	1	7	6	1	0	0	0	16
NNW	0	0	1	0	1	0	0	4	1	0	0	7
Tot	0	1	7	14	26	69	68	67	30	0	0	282

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 282
Hours of Missing Data 13
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class G Extremely Stable based on Lapse Rate

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	0	2	0	0	0	0	0	0	4
NNE	0	1	0	1	2	0	0	0	0	0	0	4
NE	0	1	0	1	0	0	0	0	0	0	0	2
ENE	0	0	1	0	0	0	0	0	0	0	0	1
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	1	0	0	0	0	0	0	1
SE	0	0	0	0	1	0	0	1	0	0	0	2
SSE	0	0	0	0	2	2	0	1	0	0	0	5
S	0	0	0	0	0	1	1	0	0	0	0	2
SSW	0	0	0	0	1	1	4	1	0	0	0	7
SW	0	0	0	2	1	1	7	0	6	0	0	17
WSW	0	0	2	1	2	3	6	2	1	0	0	17
W	0	1	0	1	1	2	0	0	0	0	0	5
WNW	0	0	1	0	3	2	0	0	0	0	0	6
NW	0	0	0	2	2	1	0	0	0	0	0	5
NNW	0	2	1	3	1	0	0	0	0	0	0	7
Tot	0	5	7	11	19	13	18	5	7	0	0	85

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 85
Hours of Missing Data 13
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

All Stabilities

Elevations:: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	1	1	5	3	3	7	9	13	9	0	51
NNE	0	1	2	4	9	13	8	16	24	14	9	100
NE	0	0	1	2	21	22	9	10	24	34	16	139
ENE	0	0	2	0	8	16	20	21	11	6	1	85
E	0	0	1	3	3	3	10	9	31	16	6	82
ESE	0	0	0	0	4	4	8	7	20	16	0	59
SE	0	0	4	1	3	8	7	9	23	28	28	111
SSE	0	1	2	1	10	24	14	12	33	16	27	140
S	0	0	0	2	16	15	20	18	79	87	84	321
SSW	0	1	1	6	14	13	13	16	63	48	44	219
SW	0	0	0	2	8	13	15	16	54	38	14	160
WSW	0	0	1	0	5	12	17	20	54	25	32	166
W	1	1	1	1	3	22	22	34	59	44	48	236
WNW	0	2	0	2	5	4	8	36	48	36	13	154
NW	0	1	0	1	9	5	13	21	42	8	3	103
NNW	0	2	4	0	7	2	12	11	19	16	1	74
Tot	1	10	20	30	128	179	203	265	597	441	326	2200

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 2200
Hours of Missing Data 8
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class A Extremely Unstable based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

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

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 1
Hours of Missing Data 8
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class B Moderately Unstable based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

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

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 3
Hours of Missing Data 8
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class C Slightly Unstable based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	1	7	8
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	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	0	0	2
SSW	0	0	0	0	0	0	0	0	0	0	2	2
SW	0	0	0	0	0	1	1	0	1	0	0	3
WSW	0	0	0	0	0	1	0	0	2	1	1	5
W	0	0	0	0	0	0	0	1	3	0	1	5
WNW	0	0	0	0	0	1	0	0	1	0	2	4
NW	0	0	0	0	0	2	1	2	5	0	0	10
NNW	0	0	0	0	0	0	1	2	1	0	0	4
Tot	0	0	0	0	1	5	4	7	13	2	13	45

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 45
Hours of Missing Data 8
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class D Neutral based on Lapse Rate

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	3	3	7	11	8	0	38
NNE	0	0	2	2	8	12	5	11	19	12	9	80
NE	0	0	1	2	17	19	7	7	18	28	7	106
ENE	0	0	0	0	6	15	14	15	8	6	1	65
E	0	0	1	1	0	2	7	5	24	12	6	58
ESE	0	0	0	0	3	0	6	5	16	5	0	35
SE	0	0	4	1	2	4	1	5	14	23	25	79
SSE	0	1	0	1	8	9	3	3	19	10	15	69
S	0	0	0	1	9	12	11	10	22	31	35	131
SSW	0	0	1	4	7	8	3	4	16	19	27	89
SW	0	0	0	1	4	9	6	3	15	16	10	64
WSW	0	0	1	0	3	11	14	12	20	13	22	96
W	0	1	0	1	1	16	19	20	35	34	34	161
WNW	0	0	0	0	4	2	5	15	24	23	9	82
NW	0	0	0	0	2	0	1	5	17	4	2	31
NNW	0	0	2	0	2	0	3	2	10	5	1	25
Tot	0	2	13	17	78	122	108	129	288	249	203	1209

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 1209
Hours of Missing Data 8
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class E Slightly Stable based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

Wind Direction Sector	<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	Total
N	0	0	0	0	0	0	3	2	2	0	0	7
NNE	0	1	0	0	0	0	3	4	4	2	0	14
NE	0	0	0	0	1	2	2	3	5	5	1	19
ENE	0	0	1	0	1	1	6	6	3	0	0	18
E	0	0	0	1	2	0	2	4	7	4	0	20
ESE	0	0	0	0	1	4	2	0	2	4	0	13
SE	0	0	0	0	0	3	2	4	9	3	3	24
SSE	0	0	0	0	0	7	8	9	12	6	12	54
S	0	0	0	0	3	0	6	6	51	44	49	159
SSW	0	0	0	1	7	5	6	8	39	18	15	99
SW	0	0	0	1	3	2	7	10	16	11	4	54
WSW	0	0	0	0	1	0	2	5	14	8	8	38
W	0	0	1	0	1	4	2	5	19	10	13	55
WNW	0	0	0	0	0	0	3	13	18	11	2	47
NW	0	0	0	0	0	0	4	5	13	3	1	26
NNW	0	0	1	0	2	1	6	3	6	6	0	25
Tot	0	1	3	3	22	29	64	87	220	135	108	672

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 672
Hours of Missing Data 8
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class F Moderately Stable based on Lapse Rate

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	0	1	0	0	1	0	4
NNE	0	0	0	0	0	1	0	1	1	0	0	3
NE	0	0	0	0	1	1	0	0	1	0	0	3
ENE	0	0	0	0	1	0	0	0	0	0	0	1
E	0	0	0	0	1	1	1	0	0	0	0	3
ESE	0	0	0	0	0	0	0	1	2	7	0	10
SE	0	0	0	0	1	0	3	0	0	2	0	6
SSE	0	0	1	0	1	5	3	0	2	0	0	12
S	0	0	0	1	2	0	2	1	6	12	0	24
SSW	0	1	0	1	0	0	4	4	8	8	0	26
SW	0	0	0	0	1	1	1	2	17	10	0	32
WSW	0	0	0	0	1	0	1	3	12	2	1	20
W	1	0	0	0	1	2	1	7	1	0	0	13
WNW	0	2	0	2	1	1	0	8	5	2	0	21
NW	0	0	0	0	5	3	6	9	7	1	0	31
NNW	0	0	1	0	3	0	1	4	2	5	0	16
Tot	1	3	2	5	20	15	24	40	64	50	1	225

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 225
Hours of Missing Data 8
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2015 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
January through December 2015

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

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

Licensee: Exelon Nuclear

Joint Frequency Distribution

Site:: Dresden Generating Station

Period:: Months Oct - Dec for years 2015 - 2015

Stability Class G Extremely Stable based on Lapse Rate

Elevations:: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	1	0	1	0	0	0	0	0	0	0	2
NNE	0	0	0	2	1	0	0	0	0	0	0	3
NE	0	0	0	0	2	0	0	0	0	0	0	2
ENE	0	0	1	0	0	0	0	0	0	0	0	1
E	0	0	0	1	0	0	0	0	0	0	0	1
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	1	0	0	0	0	0	1
SSE	0	0	1	0	1	1	0	0	0	0	0	3
S	0	0	0	0	1	2	1	0	0	0	0	4
SSW	0	0	0	0	0	0	0	0	0	3	0	3
SW	0	0	0	0	0	0	0	1	5	1	0	7
WSW	0	0	0	0	0	0	0	0	6	1	0	7
W	0	0	0	0	0	0	0	1	1	0	0	2
WNW	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	1	0	1	2	0	1	0	0	0	0	5
NNW	0	2	0	0	0	1	1	0	0	0	0	4
Tot	0	4	2	5	7	5	3	2	12	5	0	45

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 45
Hours of Missing Data 8
Hours in Period 2208