

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
DOCKET NUMBERS: 50-010/50-237/50-249

EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT, SUPPLEMENTAL INFORMATION

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

Licensee: Exelon Nuclear

1. Regulatory Limits

a. Fission and activation gases:

Dose Rate

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

Dose Gamma Radiation (each unit)

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

Beta Radiation (each unit)

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

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

Dose Rate

- 1) Less than 1500 mrem/year.

Dose (each unit)

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

d. Liquid effluents (each unit):

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

2. Maximum Permissible Concentration

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

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

3. Average Energy

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

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4. Measurement and Approximations of Total Radioactivity

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

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

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

- d. Liquid Effluents:

The river discharge tank is analyzed for gamma-emitting nuclides by gamma spectroscopy and for tritium by liquid scintillation prior to discharge. A representative portion of this sample is saved and composited with other discharges that occur during the sampling period. 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.

- e. Estimated Total Errors

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

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

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

- g. Estimation of Data/Corrections:

The Units 2/3 Main Chimney particulate and iodine sampling was interrupted on July 21, 2007 from 1415 to 1800 due to personnel error (inadvertent mis-positioning of a flow control switch). The particulate and iodine activities are determined by applying the measured concentrations for the balance of the sampling period to the time period that sampling was interrupted.

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

a. Liquid - Radwaste Liquid Effluents

1. Number of batch releases: 4
2. Total time period for batch releases: 1.18E+03 minutes
3. Maximum time period for a batch release: 4.84E+02 minutes
4. Average time period for a batch release: 2.95E+02 minutes
5. Minimum time period for a batch release: 1.50E+01 minutes
6. Average stream flow during periods of release of effluent into a flowing stream: 1.89E+05 lpm

b. Liquid - Containment Cooling Service Water (LPCI)

1. Number of batch releases: 95
2. Total time period for batch releases: 1.18E+02 minutes
3. Maximum time period for a batch release: 1.24E+00 minutes
4. Average time period for a batch release: 1.24E+00 minutes
5. Minimum time period for a batch release: 1.24E+00 minutes
6. Average stream flow during periods of release of effluent into a flowing stream: 1.24E+06 lpm

c. Gaseous - None

6. Abnormal Releases*

a. Liquid

1. Number of releases: 1
2. Total activity released: 1.56E+02 Ci

b. Gaseous

1. Number of releases: 2
2. Total activity released: 4.70E-03 Ci

a.1 Tritium was detected in the Unit 2 Service Water system effluent during routine monthly sampling on November 12, 2007. No other nuclides were detected. For conservatism, it is assumed that the detected tritium concentration was released for the entire time between the preceding sample drawn October 15, 2007 at 1407 and the succeeding sample drawn December 17, 2007 at 0705. No activity was detected in the preceding or succeeding samples. The release volume is calculated from this time period and the estimated flow rate of the system (3.00E+04 gallons per minute). For this event, an estimated 1.56E+02 Curies of tritium was released.

b.1 An unplanned actuation of the Unit 2 Isolation Condenser occurred at 2317 on May 4, 2007, due to a reactor scram and Group I isolation. In the past, activity was detected on the shell side of the condenser / heat exchanger, which vents directly to the atmosphere. As a result, actuation of this system prompts sampling and isotopic analysis of the shell side contents and the downspouts from roofs under the exhaust. The highest concentrations of activity detected immediately before, during, and after the actuation were used for release calculations. Only tritium and Co-60 were detected. Volume of the release was based on makeup pump run times and changes in shell-side level. For this event, an estimated 1.49E-03 Ci tritium and 1.72E-05 Ci Co-60 were released to the environment as a ground-level gaseous release.

b.2 An access door on a 2/3 Chimney duct was found ajar on June 12, 2007. Investigation concluded the door was ajar for a maximum of 74 hours and the maximum flow was 2000 scfm, and these maximum values were used for calculating the sample volume. Measurements of activity released from the 2/3 Chimney surrounding the event, consisting of tritium, Mn-54, Co-60, I-131, I-133, Xe-135, and Ba-140 were used to estimate the concentration of activity released. For this event, an estimated 3.19E-03 Ci of total activity was released to the environment as a ground-level gaseous release.

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

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7. Unmonitored Releases*
- a. Liquid
 - 1. Number of releases: 1
 - 2. Total activity released: 1.44E-01 Ci
 - b. Gaseous
 - 1. Number of releases: 3
 - 2. Total activity released: 1.86E-04 Ci
 - a.1 Water in on-site storm sewers is routinely sampled and analyzed for tritium content. The highest storm drain concentrations measured during each calendar quarter of 2007 was used to calculate the released activity for each quarter. The total activity released is based on an estimated typical discharge flow of 10 gallons per minute. An estimated 1.44E-01 Ci of tritium was released to the environment during 2007.
 - b.1 The Unit 1 Main Turbine Floor (MTF) is used as an area to work on contaminated equipment. The ventilation system is no longer operational and the floor is at ambient pressure with the outside environment. With radiological work activities being performed on the MTF, the potential exists for airborne activity to be released to the environment through various potential release points. The estimated release through these points is 3.60E-05 Ci of Cs-137 during 2007.
 - b.2 The Unit 2/3 Heating Steam system has low-level contamination present. During operation of the system, some steam is vented directly into the environment. It is estimated that 1.22E-06 Ci of Mn-54 and 9.91E-07 Ci of Co-60 were released for a total estimated activity of 2.21E-06 Ci released to the environment from this system during 2007.
 - b.3 The Chemistry Laboratory Ventilation system exhausts directly into the environment and is not monitored. The estimated activity released to the environment in 2007 is 1.44E-04 Ci of noble gases and 3.86E-06 Ci of iodines and particulates.

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

8. Summary of Offsite Dose Calculation Manual (ODCM) Changes by Dresden Nuclear Power Station (DNPS) in 2007
- Revision 6 of the ODCM was issued on June 7, 2007. The revision implements the standard Exelon format and as a result, the entire layout of the ODCM is changed. The previous version of the DNPS ODCM consisted of a several chapters that were common to all of the former ComEd nuclear stations and then site-specific chapters; therefore most chapters had individual revision numbers. The revision is a single site-specific document. A summary of the changes made is listed in the following table:

Old Section	Rev 6 Section	Description of Change
Throughout document	Throughout document	Changed "Radiological Effluent Technical Standards" or "RETS" to "Radioactive Effluent Controls" or "RECs"
Throughout document	Throughout document	Changed "whole body" to "total body" and updated equation variables to be consistent with NUREG-1302
Throughout document	Throughout document	Relocated sections to comply with CY-AA-170-300 format
RETS	RECs	Formatted to comply with ITS format
1.0	II.1.0	Changed "presents a discussion of" to "contains" for clarification Removed "nuclear" as redundant Added "above background" for clarification Changed "environment" to "public" for clarification Changed "Radiological Effluent Technical Standards (RETS) of all ComEd nuclear power stations" to "Radioactive Effluent Controls (RECs)" to match new format

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Old Section	Rev 6 Section	Description of Change
1.1	II.1.1	Re-wrote section to reflect the new format Removed discussion of ODCM Bases and Reference Document as redundant to material contained in (new) section II.1.4
2.0	II.1.2	Removed first sentence that discusses purpose of a chapter that is no longer a chapter and added "Note:" before the second sentence
2.1	II.1.2.1	Added "above background" for clarification
2.1.1	II.1.2.1	Removed first sentence "This revision of the ODCM addresses the requirements of 10CFR20" as derivational and background information deemed not needed in ODCM Updated table reference
2.1.2	NA	Removed paragraphs that describe the source of design criteria as derivational and background information deemed not needed in ODCM
2.1.4	II.1.2.1	Updated section reference
2.1.5	II.1.2.1	Added $\leq 20K$ tritium to discussion of 40CFR141 limits
2.2	NA	Deleted section describing the history and section descriptions as derivational and background information deemed not needed in ODCM
2.4	II.1.2.3	Updated table references
2.5	II.1.2.4	Updated table references Updated maximum individual description to match Regulatory Guide (RG) 1.109 Added paragraph to develop a more accurate model in the event dose or dose rate approached limits
Table 2-1	Table 1-1	Replaced references to equations with ODCM sections Added footnote concerning 10CFR20 compliance demonstrated by 40CFR190 compliance
Table 2-2	Table 1-2	Updated table references Combined non-noble gas airborne effluents (tritium, particulates, iodine) into one Dose Component
Table 2-3	Table 1-3	Updated equation references Removed Annual average concentration limits for liquid effluents from table Added footnote concerning 10CFR20 compliance demonstrated by 40CFR190 compliance and the potential need to address dose from on-site activity to members of the public Changed liquid effluent total gaseous activity limit from Table C-6 values to $2E-4$ per NUREG-1302
Figure 2-1	Table 1-4	Updated text section and table references Changed liquid effluent total gaseous activity limit from Table C-6 values to $2E-4$ per NUREG-1302 Removed footnote 1 definition of "monthly" that is contained in RECs Removed footnote 2 generic references
3.0 - 3.2	II.1.2.5 - II.1.2.5.3	Updated figure references Added "External" to clarify type of exposure Removed last paragraph as derivational and background information deemed not needed in ODCM
3.3	II.1.2.5.4, II.5.0	Removed generic references
Figure 3-1	Figure 1-1	Removed exposure pathways not considered in dose calculations
4.0 - 4.3	II.4.1.4, II.4.1.8	Moved explanation of airborne effluent radionuclide categories to II.4.1.8 Moved description of gaseous effluent release point designations to II.4.1.4 Removed remainder of sections as derivational and background information deemed not needed in ODCM
4.4.1	II.5.1.4	Updated equation reference
4.4.2	NA	Removed as redundant (to later information in II.5.3)
Table 4-1	Table 4-18	Removed generic references

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Old Section	Rev 6 Section	Description of Change
Table 4-2	NA	Removed as derivational and background information deemed not needed in ODCM
5.0, 5.1	NA	Removed as derivational and background information deemed not needed in ODCM
5.2 – 5.3.1	NA	Removed as redundant to what is contained in the RECs
6.0 – 6.3	NA	Removed as administrative information deemed not needed in ODCM
Chapter 7	II.1.4	Removed generic references not applicable to Dresden Updated revision of reference 101 Added references 104, 106, 107
A.0	II.4.1.1-4.1.3	Removed 4 th paragraph as derivational and background information deemed not needed in ODCM
A.1.1	II.4.1.4	Added description of gaseous effluent release point designations (from old 4.1.4) Removed last sentence as redundant information (to new II.2.2.1)
A.1.2.1	II.4.2.2.1, II.4.1.7	Changed variable A to Q in equation Last paragraph moved to II.4.1.7
A.1.2.2	II.4.2.2.2, II.4.1.7	Changed variable A to Q in equation Removed last paragraph as redundant to II.4.1.7
A.1.2.3	II.4.2.2.3	Changed variable A to Q in equation
A.1.2.4	II.4.2.2.4	Changed variable A to Q in equation Changed Beta Skin Dose Factor variable to L _i to be consistent with RG 1.109 Added equation term definitions for easier reference
A.1.3.1	II.4.2.1.1, II.4.2.1.2	Changed variable Q to 'Q dot.' Added equation term definitions for easier reference Second to last paragraph removed as redundant to information provided in the RECs
A.1.3.2	II.4.2.1.3	Changed variable Q to 'Q dot.' Added equation term definitions for easier reference Last two paragraphs removed as redundant to information provided in the RECs
A.1.4	II.4.2.3, II.4.1.7	Updated variables to RG 1.109 terms Combined multiple-part equations into single equations Removed last paragraph as redundant to II.4.1.7 Removed last sentence as derivational and background information deemed not needed in ODCM
A.1.4.1	II.4.2.3.1	Updated variables to RG 1.109 terms and table references
A.1.4.2	II.4.2.3.2	Updated variables to RG 1.109 terms and table references
A.1.4.3	II.4.2.3.3	Updated variables to RG 1.109 terms and table references Removed last paragraph of A.1.4.3 as redundant to note of Table 4-5
A.1.5	II.4.2.1.4	Updated variables to RG 1.109 terms and table references
A.1.6	II.4.1.5 - 4.1.7	Rewritten to direct to RECs
A.2.2	II.3.2	Updated RECs quote in 3 rd Requirement paragraph to match RECs Removed "10" from equation and relocated it to ECL definition
A.2.3	II.3.2.4	Updated variables to RG 1.109 terms
A.2.4	II.3.1.4	Rewritten to add Dresden specifics
A.2.6	NA	Removed as redundant to new II.3.4.2
A.2.7	II.3.1.5	Rewritten to add Dresden specifics
A.4	NA	Removed as redundant to new II.5.1.1
A.4.1 - A.4.3	II.5.4.1 – 5.4.3	Added dose from on-site storage facilities to DDE calculation
A.6	II.3.4.2	Added information on nearest downstream community water system (Peoria)
Table A-1	Table 1.1-1	Added Equation, TS, and RECs reference columns, added TS row. Added dose / component / limit lines for completeness.
Table A-2	II.2.2.1	Deleted non-Dresden data as generic data not needed in the ODCM
Table A-3	II.3.4.2	Deleted non-Dresden data as generic data not needed in the ODCM
Table A-4	NA	Removed as redundant to new II.5.5.2

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Old Section	Rev 6 Section	Description of Change
B.0, B.1	II.4.3.2	Corrected the variable for stack JFD Changed variable Q to 'Q dot.'
B.2	II.4.3.3	Changed variables Q to 'Q dot.'
B.3	II.4.3.4	Changed variables Q to 'Q dot.' Defined 2.032 used in equations
B.4	II.4.3.5	Changed variables Q and d to 'Q dot' and 'd dot.'
B.5	II.4.3.6	Changed variables Q to 'Q dot.'
B.6	II.4.3.7	Changed name "Whole Body Dose Factor" to "Gamma Total Body Dose Factor."
B.7 – B.13	NA	Sections removed as redundant to information already contained in the ODCM
B.14 – B.16, Table B-1	NA	Sections removed as derivational and background information deemed not needed in ODCM
Figures B-5, B-6	NA	Removed as derivational and background information deemed not needed in ODCM
C.1 – C.3	II.1.3	Removed note as derivational and background information deemed not needed in ODCM
Table C-1	Table 4-14	Updated variables to be consistent with revision and NUREG-1302
Table C-2	Table 1-5	Updated variables to be consistent with revision and NUREG-1302 Added note to clarify that Fish and Water usage factors are in units per hour (usage factors were not changed)
Table C-3	Table 4-15	Updated variables to be consistent with revision and NUREG-1302
Table C-6	NA	Removed table. Limits for entrained gaseous activity in liquid releases is now contained in the RECs in compliance with NUREG-1302.
Table C-8	Table 3-3	Removed "to be Used in the Absence of Site-Specific Data" from the title
Table C-9	Table 4-12	Removed "Beta Air and Skin" from table title Changed variables to match text and RG 1.109 / NUREG-0133 Added other factors from table B-1 of RG 1.109
Table C-10	Table 4-13	Corrected Pd-109 and Cd-109 element names
10.1	II.2.2	Added default flow values for Units 2 and 3 RB Vent (in II.2.2.4.3) Revised default flow values for Unit 1 Chimney per EC007314 (in II.2.2.4.3)
10.2	II.2.1	Revised variables to match those in text and RG 1.109/NUREG-1302 (in II.2.1.3.1) Added clarifying information that the LRW monitor setpoint is based on gamma activity (in II.2.1.3.1) Corrected equation (new 2-2) by removing "(Maximum Permissible Concentration (MPC))"
Figure 10-1	Figure 2-2	Implemented changes per Engineering Change 007314 (no flow from offgas filter building ventilation) Implemented changes per Engineering Change 334472 (no flow from fuel building ventilation)
Chapter 11	II.6.0	Removed sampling and analysis requirements as redundant to the RECs Clarified purpose of the section as sampling / monitoring locations only Relocated remaining applicable footnotes to section II.6.1
Table 11-1	Table 6-1	Updated all sampling locations with GPS survey data Added more detailed descriptions of sampling locations Added airborne sampler D-56 in sector G Replaced airborne sampler D-13 with D-55 in sector A Replaced surface water indicator D-51 (weekly grab) with D-21 (compositor) Replaced surface water control D-54 (weekly grab) with D-57 (compositor)
Figure 11-1	Figure 6-1	Updated map to match Table 6-1
Figure 11-2	Figure 6-2	Updated map to match Table 6-1

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12.1	I.1.1	Added TS definition for ACTION Added "or repair" to definition of CONTINUOUS SAMPLING Revised definition of DOSE EQUIVALENT IODINE-131 to refer to TS Removed definition for FREQUENCY as redundant to other information in the RECs Removed definition for IMMEDIATE as redundant to other information in the RECs Added NUREG-1302 definition of GASEOUS RADWASTE TREATMENT SYSTEM Revised definition of MODE to refer to TS Revised definition of ODCM to match NUREG-1302 Added NUREG-1302 definition of PURGE – PURGING Added definition for RECs Revised RATED THERMAL POWER definition to match TS Added definition of REPORTABLE EVENT Added definition of RESTRICTED AREA similar to the new UNRESTRICTED AREA definition from NUREG-1302 Added NUREG-1302 definition of SITE BOUNDARY Revised definition of SOURCE CHECK to match NUREG-1302 Added NUREG-1302 definition of UNRESTRICTED AREA Added NUREG-1302 definition of VENTILATION EXHAUST TREATMENT SYSTEM Added NUREG-1302 definition of VENTING
Table 12.1-1	NA	Removed as background or derivational data not needed in the ODCM
Table 12.1-2	NA	Removed as background or derivational data not needed in the ODCM
12.2.A	I.12.2.1	Combined tables 12.2-1 and 12.2-2 into new Table 12.2-1 and RSR 12.2.1
12.2.B.1.4	NA	Removed - NUREG-1302 does not allow 2/3 Chimney sampling to be out of service for 48 hours for servicing the high-range noble gas monitor.
Table 12.2-1 Table 12.2-2	Table 12.2-1 I.12.2.1 C,D	Tables combined and put in ITS format. Removed footnote 1 from Table 12.2-1 that allowed release when flow is inadequate or the monitor is underranged Changed "Source check shall consist of observing instrument response during a discharge" to "Perform SOURCE CHECK, which may be performed by observing instrument response during a discharge" to allow performance of surveillance without discharging
Table 12.2-3 Table 12.2-4	Table 12.2-2 I.12.2.2 C, D, E, F, G, H, I, J	Tables combined and put in ITS format Added Chemical Cleaning Building Ventilation particulate and iodine monitoring and surveillance requirements to table
12.3.A.1	REC 12.3.1 I.12.3.1 A	Reduced maximum gaseous activity limits to a total of 2E-4 µCi/ml to conform to NUREG-1302 guidance.
12.3.A.2 – 12.3.A.2.2	REC 12.3.2.1	Rewritten to comply with NUREG-1302 (changed limits from site values to per reactor values).
12.3.A.2.4	I.12.5.1 B	Rewritten to comply with NUREG-1302
12.3.A.3	REC 12.3.3	Added NRC special report in the event limits are exceeded and treatment equipment is not in operation per NUREG-1302
Table 12.3-1	Table 12.3-1	Table deleted. Reduced maximum gaseous activity limits to a total of 2E-4 µCi/ml to conform to NUREG-1302 guidance. Values in table are no longer used.
Table 12.3-2	Table 12.3-2	Combined Unit 1 Table with Units 2 and 3 Table Added note that RSR 12.0.2 and 12.0.3 apply to sampling and analysis frequencies Removed 'alternate LLD Methodology' Removed footnote 3 concerning service water analysis frequency if the alarm setpoint of the service water is exceeded. Note is not contained in NUREG-1302 Removed last line of footnote 6 concerning reporting of non-detected nuclides
12.3.C.1, .2, .3	B 12.3.1, .2, .3	Added verbiage from NUREG-1302 and TS implementation information
12.3.C.4	NA	Deleted as derivational and background information deemed not needed in ODCM

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12.4.A.1	REC 12.4.1 I.12.4.1 A	Changed 'less than' to 'less than or equal to' consistent with NUREG-1302 and TS
12.4.A.4.3, 12.4.A.4.4	NA	Removed. Operation of the recombiner is controlled per section 5.5.8 of the TS and not contained in NUREG-1302
12.4.A.5	NA	Removed. Air ejector outlet activity is controlled per section 3.7.6 of the TS and not contained in NUREG-1302
12.4.B.5	NA	Deleted as information redundant to TS
Table 12.4-1	Table 12.4-1	Corrected "Noble Gases" row to indicate this applies to a continuous noble gas monitor Combined Unit 1 and Units 2 and 3 tables Noted that tritium is in oxide form per NUREG-1302 Changed 2/3 RB Vent stack noble gas continuous monitor LLD requirement to 1E-6 per NUREG-1302 Added note that RSRs 12.0.2 and 12.0.3 apply to sampling and analysis frequencies Removed "Alternate LLD Methodology" Removed requirement to increase Unit 1 noble gas sampling greater than requirements of NUREG-1302 if >1% of ODCM limits
12.4.C	B 12.4	Added verbiage from NUREG-1302 and TS implementation information
12.5.1.A.3	I.12.6.1 F	Reporting requirements revised to match NUREG-1302
12.5.1.D	B 12.6.1	Added paragraph to clarify the definition of the drinking water pathway in terms of EPA regulations (40CFR141)
Table 12.5-1	Table 12.6-1	Reworded Direct Radiation verbiage to match NUREG-1302 Removed X00 Series TLD descriptions as not necessary Updated TLD ranges with more accurate GPS data Removed special interest TLDs that are no longer effective (members of the public are not routinely allowed on site) Changed airborne iodine sampling and analysis from biweekly to weekly and removed note defining biweekly Changed far-field sampler analysis from conditional to weekly and removed note discussing conditional analysis Changed air sampler ranges to match existing locations Reduced well monitoring from 3 to 2 to match NUREG-1302 guidance Changed sampling and collection frequency and type and frequency of analysis to match verbiage of NUREG-1302 for Direct Radiation, Radioiodines, Surface Water, Drinking Water, and Food Products Changed Milk sampling frequency from bi-weekly to semi-monthly to match NUREG-1302 Changed Fish control description to match NUREG-1302 Added verbiage and definitions to the table notes to match NUREG-1302
Table 12.5-2	Table 12.6-2	Added note that the reporting limits for parent-daughter pairs applies to the total of the pair.
Table 12.5-3	Table 12.6-3	Changed I-131 LLD format to match NUREG-1302 Revised note 1 to match NUREG-1302 Revised LLD methodology to match that of NUREG-1302 Removed "Alternate LLD Methodology"
12.5.2.A	REC 12.6.2	Updated distance from 10 km to 8 km to match NUREG-1302.
12.5.2.C	B 12.6.2	Added paragraph to explain deviation from NUREG-1302 guidance (all gardens and milk animals are not included in LUC)
12.5.3.A	I.12.6.3	Updated verbiage to match NUREG-1302 and added use of equivalent media
12.6.1	I.12.9.1	Replaced specifics with "Records and / or logs shall be kept in a manner convenient for review and shall be retained per site procedures."

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT, SUPPLEMENTAL INFORMATION

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

Licensee: Exelon Nuclear

Old Section	Rev 6 Section	Description of Change
12.6.2	I.12.9.4	Removed requirement to provide quarterly summaries (not required per NUREG-0472) in AREOR Changed desired format from RG 4.8 to BTP, 1979 Reworded some sections to comply with NUREG-0472
12.6.2.2.b	I.12.9.4.1, .3	Moved requirement to ARERR to match NUREG-0472
12.6.2.2.e	I.12.9.4.2	Moved requirement to ARERR to match NUREG-0472
12.6.2.2.g	I.12.9.4.4	Moved requirement to ARERR to match NUREG-0472
12.6.4	I.12.9.5	Updated title from Independent Technical Review to PORC Added the requirement to evaluate the change related to maximum exposure to the general population per NUREG-0472
F.1	NA	Removed as not necessary in a Dresden-specific ODCM
Table F-1	II.3.5, Table 3-2	Relocated, converted some of the table data to text
Table F-3	Table 4-1	Updated table with most recent land use census data and GPS survey
Table F-4	Table 4-2	Removed note that mixed mode applies only to Units 2/3. The Chem Cleaning vent is a mixed mode release
Table F-6	Table 4-5	Updated table with most recent land use census data and GPS survey
Table F-7	Table 4-6	Changed title from "unrestricted area" to "site" to match use of NUREG-1302 definition
NA	RECs	Added the following sections and Bases to clarify performance requirements: 1.2, Logical Connectors 1.3, Completion Times 1.4, Frequency 1.5, REC and RSR Implementation 12.0, REC Applicability
NA	I.12.4, B12.4	Added REC and Bases for Mark I Containment to capture venting and purging methodology of NUREG-1302
NA	I.12.5, B12.5	Added RECs and Bases for Total Dose to implement requirements of 40CFR190 and 10CFR20
NA	I.12.6.1 E	Added ACTION to implement methodology of NUREG-1302
NA	I.12.6.1 G	Added ACTION to implement methodology of NUREG-1302
NA	I.12.6.2 A C	Added ACTIONS to implement methodology of NUREG-1302
NA	I.12.7	Added REC and Bases to comply with CY-AA-170-300 formatting
NA	I.12.8	Added REC and Bases to institutionalize groundwater and storm sewer monitoring
NA	Bases	Added verbiage from NUREG-1302 and to illustrate TS compliance
NA	II.1.2.1 II.5.1.2	Added sections discussing requirements concerning the ISFSI
NA	II.3.2.3	Added section stating that liquid effluent concentrations are controlled in section II.2.1

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GASEOUS EFFLUENTS – SUMMATION OF ALL RELEASES

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

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

1. Total release	Ci	1.76E+02	8.75E+01	1.77E+01	1.74E+01	1.31E+01
2. Average release rate for period	μCi/sec	2.27E+01	1.11E+01	2.23E+00	2.18E+00	
3. Percent of Technical specification limit	%	*	*	*	*	

B. Iodines

1. Total iodine-131	Ci	9.69E-05	2.53E-04	2.82E-04	2.02E-04	2.60E+01
2. Average release rate for period (I-131)	μCi/sec	1.25E-05	3.21E-05	3.54E-05	2.54E-05	
3. Percent of technical specification limit	%	*	*	*	*	

C. Particulates

1. Particulates with half-lives > 8 days	Ci	2.14E-04	5.00E-04	5.54E-04	8.54E-04	2.94E+01
2. Average release rate for period	μCi/sec	2.75E-05	6.37E-05	6.97E-05	1.07E-04	
3. Percent of technical specification limit	%	*	*	*	*	
4. Gross alpha radioactivity	Ci	<LLD	<LLD	<LLD	<LLD	

D. Tritium

1. Total release	Ci	3.20E+00	3.99E+00	3.00E+00	2.87E+00	7.56E+00
2. Average release rate for period	μCi/sec	4.12E-01	5.08E-01	3.77E-01	3.61E-01	
3. Percent of technical specification Limit	%	*	*	*	*	

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

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2007
 GASEOUS EFFLUENTS – SUMMATION OF ALL RELEASES

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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. The actual analyses always met the required LLDs.

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2007

UNIT I MAIN CHIMNEY

GASEOUS EFFLUENTS

DOCKET NUMBER: 50-010

XX

GROUND LEVEL RELEASES
SEMI-ELEVATED RELEASES
ELEVATED RELEASES

CONTINUOUS MODE

NUCLIDES RELEASED	UNIT	1 st QTR	2 nd QTR	3 rd QTR	4 th QTR	TOTAL
FISSION GASES						
Ar-41	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
TOTAL	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
IODINES						
I-131	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
TOTAL	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
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	4.36E-06	<LLD	<LLD	1.06E-06	5.42E-06
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	4.54E-07	7.22E-07	2.62E-07	2.79E-07	1.72E-06
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ru-103	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-113	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-124	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-125	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-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
TOTAL	Ci	4.81E-06	7.22E-07	2.62E-07	1.34E-06	7.13E-06

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2007

UNIT 1 MAIN CHIMNEY

GASEOUS EFFLUENTS

DOCKET NUMBER: 50-010

XX

GROUND LEVEL RELEASES
SEMI-ELEVATED RELEASES
ELEVATED RELEASES

BATCH MODE

NUCLIDES RELEASED	UNIT	1 st QTR	2 nd QTR	3 rd QTR	4 th QTR	TOTAL
FISSION GASES						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-133	Ci					
Xe-133m	Ci					
Xe-135	Ci					
Xe-135m	Ci					
Xe-138	Ci					
TOTAL	Ci	None	None	None	None	None
IODINES						
I-131	Ci					
I-133	Ci					
I-135	Ci					
TOTAL	Ci	None	None	None	None	None
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					
Sr-85	Ci					
Zr-95	Ci					
Mo-99	Ci					
Ru-103	Ci					
Ag-110m	Ci					
Sn-113	Ci					
Sb-124	Ci					
Sb-125	Ci					
Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
TOTAL	Ci	None	None	None	None	None

DRESDEN NUCLEAR POWER STATION
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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2007

UNITS 2/3 REACTOR BUILDING VENT

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

XX

GROUND LEVEL RELEASES
SEMI-ELEVATED RELEASES
ELEVATED RELEASES

CONTINUOUS MODE

NUCLIDES RELEASED	UNIT	1 st QTR	2 nd QTR	3 rd QTR	4 th QTR	TOTAL
FISSION GASES						
Ar-41	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	<LLD	2.18E+00	<LLD	<LLD	2.18E+00
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	Ci	<LLD	2.18E+00	<LLD	<LLD	2.18E+00
IODINES						
I-131	Ci	<LLD	7.84E-07	2.57E-06	1.58E-05	1.92E-05
I-133	Ci	<LLD	4.84E-06	<LLD	<LLD	4.84E-06
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
TOTAL	Ci	<LLD	5.62E-06	2.57E-06	1.58E-05	2.40E-05
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	5.60E-05	5.60E-05
Mn-54	Ci	2.63E-05	3.75E-05	2.83E-06	1.22E-04	1.88E-04
Co-57	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	<LLD	<LLD	8.70E-06	8.70E-06
Fe-59	Ci	<LLD	<LLD	<LLD	4.24E-05	4.24E-05
Co-60	Ci	1.64E-05	1.96E-05	8.25E-06	7.01E-05	1.14E-04
Zn-65	Ci	<LLD	<LLD	<LLD	2.81E-05	2.81E-05
Sr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Nb-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ru-103	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
Sb-124	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
Hg-203	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
TOTAL	Ci	4.26E-05	5.72E-05	1.11E-05	3.27E-04	4.38E-04

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UNITS 2/3 REACTOR BUILDING VENT

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

XX

GROUND LEVEL RELEASES
SEMI-ELEVATED RELEASES
ELEVATED RELEASES

BATCH MODE

NUCLIDES RELEASED	UNIT	1 st QTR	2 nd QTR	3 rd QTR	4 th QTR	TOTAL
FISSION GASES						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-133	Ci					
Xe-133m	Ci					
Xe-135	Ci					
Xe-135m	Ci					
Xe-138	Ci					
TOTAL	Ci	None	None	None	None	None
IODINES						
I-131	Ci					
I-133	Ci					
I-135	Ci					
TOTAL	Ci	None	None	None	None	None
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					
Sr-85	Ci					
Zr-95	Ci					
Mo-99	Ci					
Ru-103	Ci					
Ag-110m	Ci					
Sn-113	Ci					
Sb-124	Ci					
Sb-125	Ci					
Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
TOTAL	Ci	None	None	None	None	None

DRESDEN NUCLEAR POWER STATION
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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2007

UNITS 2/3 MAIN CHIMNEY

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

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GROUND LEVEL RELEASES
SEMI-ELEVATED RELEASES
ELEVATED RELEASES

CONTINUOUS MODE

NUCLIDES RELEASED	UNIT	1 st QTR	2 nd QTR	3 rd QTR	4 th QTR	TOTAL
FISSION GASES						
Ar-41	Ci	3.18E+01	8.65E+00	6.08E-01	4.94E-01	4.16E+01
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	1.11E+01	5.39E+00	2.01E-01	2.14E-01	1.69E+01
Kr-87	Ci	2.73E+01	1.11E+01	4.24E-01	4.06E-01	3.92E+01
Kr-88	Ci	3.23E+01	1.48E+01	3.01E-01	2.50E-01	4.77E+01
Xe-131m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	5.21E+00	3.20E+00	6.56E-01	6.72E-01	9.74E+00
Xe-133m	Ci	3.94E-01	1.79E-01	<LLD	<LLD	5.73E-01
Xe-135	Ci	5.69E+01	3.25E+01	4.38E+00	4.28E+00	9.81E+01
Xe-135m	Ci	2.66E+00	2.06E+00	2.10E+00	2.28E+00	9.09E+00
Xe-138	Ci	8.73E+00	7.47E+00	9.04E+00	8.77E+00	3.40E+01
TOTAL	Ci	1.76E+02	8.53E+01	1.77E+01	1.74E+01	2.97E+02
IODINES						
I-131	Ci	9.69E-05	2.52E-04	2.79E-04	1.86E-04	8.14E-04
I-133	Ci	3.63E-04	9.86E-04	1.13E-03	4.60E-04	2.93E-03
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
TOTAL	Ci	4.60E-04	1.24E-03	1.40E-03	6.47E-04	3.75E-03
PARTICULATES						
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	5.35E-05	9.67E-05	5.02E-05	6.81E-05	2.68E-04
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cr-51	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mn-54	Ci	2.81E-05	8.08E-05	8.18E-05	7.56E-05	2.66E-04
Co-57	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	<LLD	<LLD	3.92E-06	3.92E-06
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	3.99E-05	1.07E-04	1.08E-04	8.82E-05	3.43E-04
Zn-65	Ci	<LLD	8.31E-06	<LLD	2.10E-05	2.93E-05
Sr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Y-88	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	2.64E-06	<LLD	2.64E-06
Ru-103	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	2.94E-06	9.80E-06	<LLD	1.27E-05
Sn-113	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-117m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	4.49E-05	1.30E-04	2.90E-04	2.26E-04	6.91E-04
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
TOTAL	Ci	1.66E-04	4.25E-04	5.43E-04	4.83E-04	1.62E-03

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UNITS 2/3 MAIN CHIMNEY

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

XX

GROUND LEVEL RELEASES
SEMI-ELEVATED RELEASES
ELEVATED RELEASES

BATCH MODE

NUCLIDES RELEASED	UNIT	1 st QTR	2 nd QTR	3 rd QTR	4 th QTR	TOTAL
FISSION GASES						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-133	Ci					
Xe-133m	Ci					
Xe-135	Ci					
Xe-135m	Ci					
Xe-138	Ci					
TOTAL	Ci	None	None	None	None	None
IODINES						
I-131	Ci					
I-133	Ci					
I-135	Ci					
TOTAL	Ci	None	None	None	None	None
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					
Sr-85	Ci					
Zr-95	Ci					
Mo-99	Ci					
Ru-103	Ci					
Ag-110m	Ci					
Sn-113	Ci					
Sb-124	Ci					
Sb-125	Ci					
Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
TOTAL	Ci	None	None	None	None	None

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2007

CHEMICAL CLEANING BUILDING

GASEOUS EFFLUENTS

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

XX

GROUND LEVEL RELEASES
SEMI-ELEVATED RELEASES
ELEVATED RELEASES

CONTINUOUS MODE

NUCLIDES RELEASED	UNIT	1 st QTR	2 nd QTR	3 rd QTR	4 th QTR	TOTAL
FISSION GASES						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-133	Ci					
Xe-133m	Ci					
Xe-135	Ci					
Xe-135m	Ci					
Xe-138	Ci					
TOTAL	Ci	None	None	None	None	None
IODINES						
I-131	Ci				<LLD	<LLD
I-133	Ci				<LLD	<LLD
I-135	Ci				<LLD	<LLD
TOTAL	Ci	None	None	None	<LLD	<LLD
PARTICULATES						
Fe-55	Ci				<LLD	<LLD
Sr-89	Ci				<LLD	<LLD
Sr-90	Ci				<LLD	<LLD
Cr-51	Ci				<LLD	<LLD
Mn-54	Ci				<LLD	<LLD
Co-57	Ci				<LLD	<LLD
Co-58	Ci				<LLD	<LLD
Fe-59	Ci				<LLD	<LLD
Co-60	Ci				4.62E-07	4.62E-07
Zn-65	Ci				<LLD	<LLD
Sr-85	Ci				<LLD	<LLD
Zr-95	Ci				<LLD	<LLD
Mo-99	Ci				<LLD	<LLD
Ru-103	Ci				<LLD	<LLD
Ag-110m	Ci				<LLD	<LLD
Sn-113	Ci				<LLD	<LLD
Sb-124	Ci				<LLD	<LLD
Sb-125	Ci				<LLD	<LLD
Cs-134	Ci				<LLD	<LLD
Cs-137	Ci				<LLD	<LLD
Ba-140	Ci				<LLD	<LLD
Ce-141	Ci				<LLD	<LLD
Ce-144	Ci				<LLD	<LLD
TOTAL	Ci	None	None	None	4.62E-07	4.62E-07

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CHEMICAL CLEANING BUILDING

GASEOUS EFFLUENTS

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

XX

GROUND LEVEL RELEASES
SEMI-ELEVATED RELEASES
ELEVATED RELEASES

BATCH MODE

NUCLIDES RELEASED	UNIT	1 st QTR	2 nd QTR	3 rd QTR	4 th QTR	TOTAL
FISSION GASES						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-133	Ci					
Xe-133m	Ci					
Xe-135	Ci					
Xe-135m	Ci					
Xe-138	Ci					
TOTAL	Ci	None	None	None	None	None
IODINES						
I-131	Ci					
I-133	Ci					
I-135	Ci					
TOTAL	Ci	None	None	None	None	None
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					
Sr-85	Ci					
Zr-95	Ci					
Mo-99	Ci					
Ru-103	Ci					
Ag-110m	Ci					
Sn-113	Ci					
Sb-124	Ci					
Sb-125	Ci					
Cs-134	Ci					
Cs-137	Ci					
Ba-140	Ci					
Ce-141	Ci					
Ce-144	Ci					
TOTAL	Ci	None	None	None	None	None

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LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

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

Units	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Est. Total Error, %
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A. Fission and activation products						
1. Total release (not including H-3, gases, alpha)	Ci	1.77E-03	<LLD	<LLD	3.64E-02	1.95E+01
2. Average diluted concentration during period	µCi/ml	7.21E-11	<LLD	<LLD	1.03E-09	
3. Percent of applicable limit	%	*	*	*	*	

B. Tritium						
1. Total release	Ci	1.03E+00	6.99E-02	4.01E-02	1.58E+02	2.37E+00
2. Average diluted concentration during period	µCi/ml	4.21E-08	6.82E-10	8.00E-11	4.46E-06	
3. Percent of applicable limit	%	*	*	*	*	

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

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

E. Volume of waste released (prior to dilution)	Liters	5.61E+06	5.35E+06	5.38E+06	1.03E+10	1.00E+00
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F. Volume of dilution water used during period	Liters	2.45E+10	1.02E+11	5.01E+11	2.51E+10	5.00E+00
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* Applicable limits have been removed from the Technical Specifications. The comparison to ODCM limits is contained in the Radiological Impact on Man section of this report. Total liquid release data are provided which include fission and activation products, tritium, and dissolved and entrained gases.

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 LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

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

TABLE OF LOWER LIMITS OF DETECTABILITY
 FOR LIQUID EFFLUENTS

1.	FISSION/ACTIVATION GASES	$\mu\text{Ci/ml}$
	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	$\mu\text{Ci/ml}$
	I-131	1.00E-06
3.	PARTICULATES	$\mu\text{Ci/ml}$
	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	$\mu\text{Ci/ml}$
	H-3	1.00E-05
	Gross Alpha	1.00E-07

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

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2007

UNITS 2/3 RADWASTE LIQUID EFFLUENTS

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

BATCH MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Total
Fe-55	Ci	5.65E-04			3.53E-02	3.58E-02
Sr-89	Ci	<LLD			<LLD	<LLD
Sr-90	Ci	<LLD			<LLD	<LLD
I-131	Ci	<LLD			<LLD	<LLD
I-132	Ci	<LLD			<LLD	<LLD
I-133	Ci	<LLD			<LLD	<LLD
I-134	Ci	<LLD			<LLD	<LLD
I-135	Ci	<LLD			<LLD	<LLD
Cr-51	Ci	1.31E-04			<LLD	1.31E-04
Mn-54	Ci	4.41E-04			5.23E-04	9.64E-04
Co-58	Ci	1.99E-05			4.01E-05	6.00E-05
Fe-59	Ci	1.45E-04			5.22E-05	1.97E-04
Co-60	Ci	1.95E-04			3.62E-04	5.57E-04
Zn-65	Ci	2.05E-04			1.31E-04	3.36E-04
As-76	Ci	<LLD			<LLD	<LLD
Zr-95	Ci	<LLD			<LLD	<LLD
Sr-91	Ci	<LLD			<LLD	<LLD
Mo-99	Ci	<LLD			<LLD	<LLD
Tc-99m	Ci	<LLD			<LLD	<LLD
Ru-103	Ci	<LLD			<LLD	<LLD
Ag-110m	Ci	5.39E-05			1.95E-05	7.34E-05
Sb-125	Ci	<LLD			2.24E-05	2.24E-05
Cs-134	Ci	<LLD			<LLD	<LLD
Cs-136	Ci	<LLD			<LLD	<LLD
Cs-137	Ci	1.33E-05			<LLD	1.33E-05
Ba-139	Ci	<LLD			<LLD	<LLD
Ba-140	Ci	<LLD			<LLD	<LLD
La-140	Ci	<LLD			<LLD	<LLD
Ce-141	Ci	<LLD			<LLD	<LLD
(above) Total	Ci	1.77E-03	None	None	3.64E-02	3.82E-02
H-3	Ci	1.02E+00			1.62E+00	2.64E+00
Kr-87	Ci	<LLD			<LLD	<LLD
Kr-88	Ci	<LLD			<LLD	<LLD
Xe-133	Ci	<LLD			<LLD	<LLD
Xe-133m	Ci	<LLD			<LLD	<LLD
Xe-135	Ci	<LLD			<LLD	<LLD
Xe-138	Ci	<LLD			<LLD	<LLD

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2007

UNITS 2/3 RADWASTE LIQUID EFFLUENTS

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

CONTINUOUS MODE

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

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UNITS 2/3 CONTAINMENT COOLING SERVICE WATER

DOCKET NUMBERS: 50-237/50-249

		BATCH MODE				
	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Total
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-131	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-132	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cr-51	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mn-54	Ci	<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	3.29E-06	3.29E-06
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
As-76	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-91	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Tc-99m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ru-103	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-124	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-136	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba-139	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
La-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Np-239	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
(above) Total	Ci	<LLD	<LLD	<LLD	3.29E-06	3.29E-06
H-3	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

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UNITS 2/3 CONTAINMENT COOLING SERVICE WATER

DOCKET NUMBERS: 50-237/50-249

CONTINUOUS MODE

	Unit	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Total
Fe-55	Ci					
Sr-89	Ci					
Sr-90	Ci					
I-131	Ci					
I-132	Ci					
I-133	Ci					
I-134	Ci					
I-135	Ci					
Cr-51	Ci					
Mn-54	Ci					
Co-58	Ci					
Fe-59	Ci					
Co-60	Ci					
Zn-65	Ci					
As-76	Ci					
Zr-95	Ci					
Sr-91	Ci					
Mo-99	Ci					
Tc-99m	Ci					
Ru-103	Ci					
Ag-110m	Ci					
Sb-124	Ci					
Cs-134	Ci					
Cs-136	Ci					
Cs-137	Ci					
Cs-138	Ci					
Ba-140	Ci					
La-140	Ci					
Ce-141	Ci					
Np-239	Ci					
(above) Total	Ci	None	None	None	None	None
H-3	Ci					
Kr-87	Ci					
Kr-88	Ci					
Xe-133	Ci					
Xe-135	Ci					
Xe-138	Ci					

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2007
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

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

I. Type of Waste	Unit	12-month Period	Est. Total Error, %
a. Spent resins, filter sludges / filters, evaporator bottoms, etc.	m ³	1.66E+02	2.50E+01
	Ci	1.09E+03	
b. Dry compressible waste, contaminated equipment, etc. (includes some contaminated liquids)	m ³	1.09E+03	2.50E+01
	Ci	9.60E-01	
c. Irradiated components, control rods, etc.	m ³	3.27E+00	2.50E+01
	Ci	1.54E+04	
d. Other (describe) - Contaminated Oil, Contaminated Soil, Waste Metals, Combined Packages	m ³	8.63E+01	2.50E+01
	Ci	2.00E+01	

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

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

	Percent %	Curies
Fe-55	5.67E+01	6.17E+02
Co-60	2.27E+01	2.47E+02
Mn-54	9.47E+00	1.03E+02
Zn-65	7.06E+00	7.67E+01
Ni-63	2.13E+00	2.31E+01
Cs-137	2.10E+00	2.24E+01

Shipment type: LSA, Type A, Type B

Solidification agent or absorbent: None

b. Dry compressible waste, contaminated equipment, etc.

	Percent %	Curies
Mn-54	5.19E+01	4.98E-01
Co-60	2.37E+01	2.28E-01
Fe-55	6.08E+00	5.83E-02
Fe-59	5.38E+00	5.16E-02
Cs-137	4.89E+00	4.70E-02
Ni-63	3.34E+00	3.20E-02
Cr-51	1.21E+00	1.16E-02

Shipment type: LSA

Solidification agent or absorbent: None

c. Irradiated components, control rods, etc.

	Percent %	Curies
Fe-55	5.43E+01	8.37E+03
Co-60	3.45E+01	5.31E+03
Ta-182	4.61E+00	7.11E+02
Ni-63	4.22E+00	6.50E+02
Mn-54	2.21E+00	3.40E+02

Shipment type: Type B

Solidification agent or absorbent: None

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2007
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

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

d. Other - Contaminated Oil, Contaminated Soil, Waste Metals, Combined Packages

	<u>Percent %</u>	<u>Curies</u>
Fe-55	4.16E+01	8.33E+00
Mn-54	3.74E+01	7.49E+00
Co-60	1.71E+01	3.42E+00
Fe-59	1.19E+00	2.39E-01
Zn-65	1.09E+00	2.18E-01

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

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
40	Motor freight (exclusive use only)	Energy Solutions – Bear Creek Road, Oak Ridge, TN
14	Motor freight (exclusive use only)	Energy Solutions – Envirocare, Clive, UT
6	Motor freight (exclusive use only)	Energy Solutions – Gallaher Road, Kingston, TN
6	Motor freight (exclusive use only)	Studsvik Processing Facility, Erwin, TN
2	Motor freight (exclusive use only)	Energy Solutions – Barnwell, SC

B. IRRADIATED FUEL SHIPMENTS (Disposition)

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

C. CHANGES TO THE PROCESS CONTROL PROGRAM (PCP)

1. Revision 4 of RW-AA-100, "Process Control Program for Radioactive Wastes" was issued on March 27, 2007. This revision did not constitute a significant change to the PCP because it implemented administrative enhancements only. The enhancements implemented include the requirement to document changes to the PCP in this report, the addition of references, and clarification of existing requirements for review and approval of vendor procedures.
2. Revision 5 of RW-AA-100, "Process Control Program for Radioactive Wastes" was issued on June 12, 2007. The revision added "compression dewatering" to the list of available techniques in the definition for Liquid Waste Processing Systems and added "Oil Dry absorbent material added to a container to absorb liquids" to the list in the definition of Waste Streams. These changes do not constitute a significant change to the PCP. The revision also implemented an editorial clarification of existing requirements for review and approval of vendor procedures.

No major changes were made to the DNPS radioactive liquid, gaseous, or solid waste treatment systems in 2007.

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RADIOLOGICAL IMPACT ON MAN*

A. UNIT 1

Docket Number: 50-010

1. Airborne Releases

	Quarterly Limit	Maximum Doses from Airborne Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Gamma Air (mrad)	5.0 mrad	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	10.0 mrad	0.00E+00 (e)
Beta Air (mrad)	10.0 mrad	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	20.0 mrad	0.00E+00 (e)
Total Body (mrem)	2.5 mrem	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	5.0 mrem	0.00E+00 (e)
Skin (mrem)	7.5 mrem	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	0.00E+00(e)	15.0 mrem	0.00E+00 (e)
Organ (mrem)	7.5 mrem	6.74E-07(i)	1.89E-06(c)	2.20E-06(c)	7.86E-04(i,c)	15.0 mrem	7.88E-04 (c)
Critical Organ		Lung	Lung	GI_LLI	Liver (i) Bone (c)		Liver

	Quarterly Limit	Percentage of Quarterly Limit				Yearly Limit	Percentage of Annual Limit
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Gamma Air	5.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00	10.0 mrad	0.00E+00
Beta Air	10.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00	20.0 mrad	0.00E+00
Total Body	2.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.0 mrem	0.00E+00
Skin	7.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00	15.0 mrem	0.00E+00
Organ	7.5 mrem	8.99E-06	2.52E-05	2.93E-05	1.05E-02	15.0 mrem	5.25E-03

2. Liquid Releases

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

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

3. Direct Radiation

The maximum calculated direct radiation exposure to a member of the public due to Unit 1 turbine building skyshine was 0 mrem during 2007 (Unit 1 is permanently shutdown).

4. Total Dose Assessment

The maximum calculated Total Effective Dose Equivalent exposure to a member of the public as the result of Unit 1 operations during 2007 is 7.80E-04 mrem. The maximum calculated Committed Effective Dose Equivalent exposure to a member of the public as the result of Unit 1 operations during 2007 is 9.95E-06 mrem.

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

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B. UNIT 2

Docket Number: 50-237

1. Airborne Releases

	Quarterly Limit	Maximum Doses from Airborne Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Gamma Air (mrad)	5.0 mrad	3.98E-03 (e)	1.22E-03 (e)	9.77E-05 (e)	5.35E-05 (e)	10.0 mrad	5.35E-03 (e)
Beta Air (mrad)	10.0 mrad	3.01E-04 (e)	9.31E-05 (e)	6.50E-06 (e)	3.65E-06 (e)	20.0 mrad	4.04E-04 (e)
Total Body (mrem)	2.5 mrem	6.06E-03 (e)	1.85E-03 (e)	7.37E-05 (e)	4.04E-05 (e)	5.0 mrem	7.99E-03 (e)
Skin (mrem)	7.5 mrem	3.34E-03 (e)	1.02E-03 (e)	8.09E-05 (e)	4.44E-05 (e)	15.0 mrem	4.48E-03 (e)
Organ (mrem)	7.5 mrem	7.24E-05 (c)	1.60E-03 (c)	9.84E-04 (c)	4.16E-04 (c)	15.0 mrem	3.07E-03 (c)
Critical Organ		Lung	Thyroid	Thyroid	Thyroid		Thyroid

	Quarterly Limit	Percentage of Quarterly Limit				Yearly Limit	Percentage of Annual Limit
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Gamma Air	5.0 mrad	7.96E-02	2.44E-02	1.95E-03	1.07E-03	10.0 mrad	5.35E-02
Beta Air	10.0 mrad	3.01E-03	9.31E-04	6.50E-05	3.65E-05	20.0 mrad	2.02E-03
Total Body	2.5 mrem	2.42E-01	7.40E-02	2.95E-03	1.62E-03	5.0 mrem	1.60E-01
Skin	7.5 mrem	4.45E-02	1.36E-02	1.08E-03	5.92E-04	15.0 mrem	2.99E-02
Organ	7.5 mrem	9.65E-04	2.13E-02	1.31E-02	5.55E-03	15.0 mrem	2.05E-02

2. Liquid Releases

	Quarterly Limit	Maximum Doses from Liquid Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Total Body (mrem)	1.5 mrem	8.13E-06 (a)	None	None	9.88E-04 (c)	3.0 mrem	9.96E-04 (c)
Organ (mrem)	5.0 mrem	1.41E-05 (a)	None	None	9.98E-04 (c)	10.0 mrem	1.01E-03 (c)
Critical Organ		Liver	None	None	Liver		Liver

	Quarterly Limit	Percentage of Quarterly Limit				Yearly Limit	Percentage of Annual Limit
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Total Body	1.5 mrem	5.42E-04	0.00E+00	0.00E+00	6.59E-02	3.0 mrem	3.32E-02
Organ	5.0 mrem	2.82E-04	0.00E+00	0.00E+00	2.00E-02	10.0 mrem	1.01E-02

3. Direct Radiation

The calculated direct radiation exposure to a member of the public due to Unit 2 turbine building skyshine was 3.96E+00 mrem during 2007.

4. Total Dose Assessment

The maximum calculated Total Effective Dose Equivalent exposure to a member of the public as the result of Unit 2 operations during 2007 is 3.97E+00 mrem. The maximum calculated Committed Effective Dose Equivalent exposure to a member of the public as the result of Unit 2 operations during 2007 is 1.51E-03 mrem.

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

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C. UNIT 3

DOCKET NUMBER: 50-249

1. Airborne Releases

	Quarterly Limit	Maximum Doses from Airborne Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Gamma Air (mrad)	5.0 mrad	1.70E-04 (e)	6.18E-04 (e)	2.44E-04 (e)	2.75E-04 (e)	10.0 mrad	1.31E-03 (e)
Beta Air (mrad)	10.0 mrad	9.49E-06 (e)	8.02E-05 (e)	1.66E-05 (e)	1.87E-05 (e)	20.0 mrad	1.21E-04 (e)
Total Body (mrem)	2.5 mrem	1.28E-04 (e)	9.44E-04 (e)	1.84E-04 (e)	2.07E-04 (e)	5.0 mrem	1.21E-03 (e)
Skin (mrem)	7.5 mrem	1.39E-04 (e)	5.28E-04 (e)	2.02E-04 (e)	2.28E-04 (e)	15.0 mrem	1.10E-03 (e)
Organ (mrem)	7.5 mrem	4.21E-04 (a)	2.45E-03 (c)	3.63E-03 (c)	1.78E-03 (c)	15.0 mrem	8.23E-03 (c)
Critical Organ		GI LLI	Thyroid	Thyroid	Thyroid		Thyroid

	Quarterly Limit	Percentage of Quarterly Limit				Yearly Limit	Percentage of Annual Limit
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Gamma Air	5.0 mrad	3.40E-03	1.24E-02	4.88E-03	5.50E-03	10.0 mrad	1.31E-02
Beta Air	10.0 mrad	9.49E-05	8.02E-04	1.66E-04	1.87E-04	20.0 mrad	6.05E-04
Total Body	2.5 mrem	5.12E-03	3.78E-02	7.36E-03	8.28E-03	5.0 mrem	2.42E-02
Skin	7.5 mrem	1.85E-03	7.04E-03	2.69E-03	3.04E-03	15.0 mrem	7.33E-03
Organ	7.5 mrem	5.61E-03	3.27E-02	4.84E-02	2.37E-02	15.0 mrem	5.49E-02

2. Liquid Releases

	Quarterly Limit	Maximum Doses from Liquid Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Total Body (mrem)	1.5 mrem	8.13E-06 (a)	None	None	1.21E-05 (c)	3.0 mrem	1.97E-05 (c)
Organ (mrem)	5.0 mrem	1.41E-05 (a)	None	None	2.23E-05 (c)	10.0 mrem	3.47E-05 (c)
Critical Organ		Liver	None	None	Bone		Liver

	Quarterly Limit	Percentage of Quarterly Limit				Yearly Limit	Percentage of Annual Limit
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Total Body	1.5 mrem	5.42E-04	0.00E+00	0.00E+00	8.07E-04	3.0 mrem	6.57E-04
Organ	5.0 mrem	2.82E-04	0.00E+00	0.00E+00	4.46E-04	10.0 mrem	3.47E-04

3. Direct Radiation

The maximum calculated direct radiation exposure to a member of the public due to Unit 3 turbine building skyshine was 4.30E+00 mrem during 2007.

4. Total Dose Assessment

The maximum calculated Total Effective Dose Equivalent exposure to a member of the public as the result of Unit 3 operations during 2007 is 4.30E+00 mrem. The maximum calculated Committed Effective Dose Equivalent exposure to a member of the public as the result of Unit 3 operations during 2007 is 2.90E-03 mrem.

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

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D. 40CFR190 Compliance

The General Electric Morris Operation (GEMO) facility is physically located near Dresden Station and is considered in the evaluation of the uranium fuel cycle on members of the public in the general environment for 40CFR190 compliance. The sum of the maximum doses from the units at Dresden Station is $8.27\text{E}+00$ mrem. Per the 2007 GEMO 10CFR72.44(d)(3) report, the maximum dose that could be received from that facility is calculated to be $4.26\text{E}-01$ mrem. A conservative estimate of the maximum dose to a member of the public in the general environment as a result of the uranium fuel cycle in the area surrounding Dresden Station is $8.70\text{E}+00$ mrem, and the dose limits of 40CFR190 (annual dose equivalent does not exceed 25 millirems to the whole body, 75 millirems to the thyroid, and 25 millirems to any other organ) are not approached or exceeded.

E. Equipment Out of Service

The Units 2/3 Main Chimney particulate and iodine sampling and noble gas monitoring were interrupted on July 21, 2007 from 1415 to 1800. A switch controlling flow to the in-service monitoring and sampling equipment was mispositioned due to personnel error, rendering on-line particulate and iodine sampling and noble gas monitoring inoperable. During this time, continuous particulate and iodine sampling was not performed as required by the ODCM. Compensatory noble gas sampling was not required due to the short duration. Monitoring was restored immediately upon discovery of the event. The particulate and iodine activity released during this event is determined as described in section 4.g of this report.

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METEOROLOGICAL DATA

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1. The following table represents the percentage of valid hours of recoverable meteorological data for 2007:

Parameter	Percentage of valid parameter hours in 2007				
	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Year
35 ft. Wind Speed	97.8%	100.0%	99.9%	99.0%	99.2%
150 ft. Wind Speed	100.0%	100.0%	99.9%	98.2%	99.5%
300 ft. Wind Speed	99.1%	100.0%	99.9%	97.3%	99.1%
35 ft. Wind Direction	99.4%	100.0%	99.9%	99.5%	99.7%
150 ft. Wind Direction	100.0%	100.0%	99.9%	99.0%	99.7%
300 ft. Wind Direction	99.8%	100.0%	99.9%	98.5%	99.5%
35 ft. Temperature	99.9%	100.0%	99.9%	98.4%	99.5%
150-35 ft. delta T	99.9%	100.0%	99.9%	97.1%	99.2%
300-35 ft. delta T	99.9%	100.0%	99.9%	97.1%	99.2%

2. Dresden station was able to achieve an average of 99.4% meteorological data recovery for the year. This exceeds the minimum criterion of 90% delineated in Regulatory Guide 1.23.
3. The remaining pages of this report contain the Dresden Station meteorological site quarterly joint-frequency wind rose tables for 2007.

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METEOROLOGICAL DATA

Period: January through March 2007

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

All Stabilities

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	2	2	7	16	8	2	4	1	0	0	42
NNE	0	1	3	6	30	13	4	4	8	0	0	69
NE	0	0	1	7	27	29	17	10	10	0	0	101
ENE	0	1	1	2	17	12	7	0	0	0	0	40
E	0	1	2	4	33	23	17	24	25	8	0	137
ESE	0	1	4	3	19	33	20	22	19	6	1	128
SE	0	2	5	1	7	12	8	3	3	0	0	41
SSE	0	1	6	4	12	9	8	5	10	0	0	55
S	0	2	6	8	23	26	31	19	37	18	0	170
SSW	0	1	9	15	30	24	35	26	36	8	1	185
SW	0	2	8	12	25	20	34	27	28	10	4	170
WSW	0	2	9	4	15	14	27	23	23	6	11	134
W	1	1	9	14	44	77	51	24	28	8	1	258
WNW	0	1	10	19	35	88	46	52	33	0	0	284
NW	0	3	6	18	51	42	28	9	14	0	0	171
NNW	0	1	3	8	24	26	35	9	0	0	0	106
Tot	1	22	84	132	408	456	370	261	275	64	18	2091

Hours of Calm 7
Hours of Variable Direction 1
Hours of Valid Data 2099
Hours of Missing Data 61
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class A - Extremely Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)										Total	
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0		>10.00
N	0	0	0	0	1	4	1	0	0	0	0	6
NNE	0	0	0	0	0	1	1	0	0	0	0	2
NE	0	0	0	0	0	2	1	2	0	0	0	5
ENE	0	0	0	0	0	2	2	0	0	0	0	4
E	0	0	0	0	0	0	4	1	0	0	0	5
ESE	0	0	0	0	0	0	1	2	3	0	0	6
SE	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	1	0	2	0	0	3
SW	0	0	0	0	0	2	0	1	5	1	0	9
WSW	0	0	0	0	1	0	0	3	6	0	0	10
W	0	0	0	0	0	0	2	2	6	4	1	15
WNW	0	0	0	0	0	4	10	9	11	0	0	34
NW	0	0	0	0	0	5	9	2	5	0	0	21
NNW	0	0	0	0	1	7	10	2	0	0	0	20
Tot	0	0	0	0	3	27	42	24	38	5	1	140

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 140
Hours of Missing Data 61
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class B - Moderately Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	1	0	0	0	0	0	1
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	1	0	0	0	0	0	1
ESE	0	0	0	0	0	0	3	1	0	0	0	4
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	2	0	3	0	0	5
SW	0	0	0	0	0	0	1	0	2	0	0	3
WSW	0	0	0	0	1	0	1	1	2	0	0	5
W	0	0	0	0	0	1	2	1	3	0	0	7
WNW	0	0	0	0	0	4	3	5	2	0	0	14
NW	0	0	0	0	0	1	0	0	1	0	0	2
NNW	0	0	0	0	0	0	0	0	0	0	0	0
Tot	0	0	0	0	1	10	13	8	13	0	0	45

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 45
Hours of Missing Data 61
Hours in Period 2160

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METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class C - Slightly Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	1	0	1	0	0	0	2
NE	0	0	0	0	3	0	1	0	0	0	0	4
ENE	0	0	0	0	4	0	0	0	0	0	0	4
E	0	0	0	0	0	1	1	0	0	0	0	2
ESE	0	0	0	0	0	0	3	1	3	0	0	7
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	1	1	1	0	0	0	4
SSW	0	0	0	0	0	0	3	2	2	0	0	7
SW	0	0	0	0	0	0	1	1	2	0	0	4
WSW	0	0	0	0	0	0	5	1	0	0	0	6
W	0	0	0	0	0	4	4	1	0	2	0	11
WNW	0	0	0	0	1	5	1	4	2	0	0	13
NW	0	0	0	0	0	3	2	1	2	0	0	8
NNW	0	0	0	0	0	0	2	0	0	0	0	2
Tot	0	0	0	0	9	15	25	13	11	2	0	75

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 75
Hours of Missing Data 61
Hours in Period 2160

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METEOROLOGICAL DATA

Period: January through March 2007

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

Stability Class D - Neutral

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	1	3	9	2	1	4	1	0	0	22
NNE	0	1	2	4	20	9	3	2	8	0	0	49
NE	0	0	1	3	19	21	13	8	10	0	0	75
ENE	0	1	0	1	11	9	5	0	0	0	0	27
E	0	0	2	4	22	17	12	23	24	8	0	112
ESE	0	1	1	2	5	20	13	14	8	6	1	71
SE	0	0	0	0	0	2	4	0	1	0	0	7
SSE	0	1	3	0	7	3	4	4	3	0	0	25
S	0	0	1	1	6	13	22	6	17	8	0	74
SSW	0	0	1	1	7	11	11	14	15	1	0	61
SW	0	0	2	0	8	3	16	11	14	5	4	63
WSW	0	0	3	2	6	8	15	16	12	6	11	79
W	0	0	2	1	22	32	24	15	17	2	0	115
WNW	0	0	0	4	14	24	16	26	16	0	0	100
NW	0	0	2	2	16	19	12	5	6	0	0	62
NNW	0	0	0	2	8	12	16	7	0	0	0	45
Tot	0	5	21	30	180	205	187	155	152	36	16	987

Hours of Calm	0
Hours of Variable Direction	1
Hours of Valid Data	988
Hours of Missing Data	61
Hours in Period	2160

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METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class E - Slightly Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	1	4	6	2	0	0	0	0	0	14
NNE	0	0	1	2	10	1	0	1	0	0	0	15
NE	0	0	0	4	5	6	1	0	0	0	0	16
ENE	0	0	1	1	2	1	0	0	0	0	0	5
E	0	1	0	0	10	4	0	0	1	0	0	16
ESE	0	0	3	0	11	12	0	4	5	0	0	35
SE	0	2	5	1	6	10	3	3	2	0	0	32
SSE	0	0	3	4	5	5	4	1	7	0	0	29
S	0	2	3	5	16	11	8	12	20	10	0	87
SSW	0	0	3	6	14	13	18	10	14	7	1	86
SW	0	0	1	5	8	12	16	14	5	4	0	65
WSW	0	1	3	1	6	6	5	1	3	0	0	26
W	1	1	6	10	21	40	19	5	2	0	0	105
WNW	0	0	10	13	19	51	16	8	2	0	0	119
NW	0	2	4	14	31	14	5	1	0	0	0	71
NNW	0	1	2	6	14	7	7	0	0	0	0	37
Tot	1	11	46	76	184	195	102	60	61	21	1	758

Hours of Calm 2
Hours of Variable Direction 0
Hours of Valid Data 760
Hours of Missing Data 61
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class F - Moderately Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)										Total	
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0		>10.00
N	0	0	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	1	0	0	0	0	0	0	1
ESE	0	0	0	1	3	1	0	0	0	0	0	5
SE	0	0	0	0	1	0	0	0	0	0	0	1
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	2	2	0	0	0	0	0	0	0	4
SSW	0	1	5	7	6	0	0	0	0	0	0	19
SW	0	1	2	4	8	3	0	0	0	0	0	18
WSW	0	0	2	1	1	0	1	1	0	0	0	6
W	0	0	1	3	1	0	0	0	0	0	0	5
WNW	0	1	0	2	1	0	0	0	0	0	0	4
NW	0	0	0	2	4	0	0	0	0	0	0	6
NNW	0	0	1	0	1	0	0	0	0	0	0	2
Tot	0	3	13	22	27	4	1	1	0	0	0	71

Hours of Calm 2
Hours of Variable Direction 0
Hours of Valid Data 73
Hours of Missing Data 61
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class G - Extremely Stable

Elevations: Winds 35ft Stability 150ft

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

Hours of Calm 3
Hours of Variable Direction 0
Hours of Valid Data 18
Hours of Missing Data 61
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: January through March 2007

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	3	4	15	12	6	6	4	0	51
NNE	0	0	0	3	4	7	27	13	7	4	7	72
NE	0	0	1	2	11	14	16	19	17	6	4	90
ENE	0	0	1	0	13	15	13	10	0	0	0	52
E	0	0	1	0	9	14	20	15	28	25	10	122
ESE	0	0	0	4	3	10	23	31	35	14	8	128
SE	0	0	6	1	6	6	14	14	5	1	0	53
SSE	0	0	1	6	4	12	14	5	8	9	1	60
S	0	0	0	3	3	29	14	27	25	26	21	148
SSW	0	0	0	1	7	17	29	37	52	32	12	187
SW	0	0	1	2	4	26	24	28	65	28	17	195
WSW	0	0	4	4	10	13	14	11	41	20	23	140
W	0	2	0	2	23	26	65	50	58	24	12	262
WNW	0	0	1	1	15	24	43	73	68	57	7	289
NW	0	0	0	2	11	28	47	48	39	16	4	195
NNW	0	0	0	1	6	14	22	19	47	2	0	111
Tot	0	2	17	35	133	270	397	406	501	268	126	2155

Hours of Calm 1
Hours of Variable Direction 1
Hours of Valid Data 2157
Hours of Missing Data 3
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class A - Extremely Unstable.

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	2	2	2	1	0	0	7
NNE	0	0	0	0	0	0	1	0	1	0	0	2
NE	0	0	0	0	0	0	2	1	2	0	0	5
ENE	0	0	0	0	0	0	3	1	0	0	0	4
E	0	0	0	0	0	0	1	3	1	0	0	5
ESE	0	0	0	0	0	0	0	2	4	0	0	6
SE	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	1	0	1	1	0	3
SW	0	0	0	0	0	1	1	0	2	2	2	8
WSW	0	0	0	0	0	1	0	0	6	4	0	11
W	0	0	0	0	0	0	1	0	3	6	4	14
WNW	0	0	0	0	0	0	2	11	5	15	2	35
NW	0	0	0	0	0	0	0	11	5	5	1	22
NNW	0	0	0	0	0	0	7	1	11	0	0	19
Tot	0	0	0	0	0	4	21	32	42	33	9	141

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 141
Hours of Missing Data 3
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class B - Moderately Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	1	0	0	1
NE	0	0	0	0	0	0	0	0	1	0	0	1
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	1	0	0	0	0	1
ESE	0	0	0	0	0	0	0	3	1	0	0	4
SE	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	1	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	1	1	2	1	0	5
SW	0	0	0	0	0	0	0	1	1	1	0	3
WSW	0	0	0	0	0	1	0	1	2	2	0	6
W	0	0	0	0	0	0	1	1	3	2	0	7
WNW	0	0	0	0	0	0	3	2	4	4	0	13
NW	0	0	0	0	0	0	1	1	1	1	0	4
NNW	0	0	0	0	0	0	0	0	0	0	0	0
Tot	0	0	0	0	0	2	8	10	16	11	0	47

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 47
Hours of Missing Data 3
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class C - Slightly Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)										Total	
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0		>10.00
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	1	1	0	0	2
NE	0	0	0	0	1	2	0	0	0	0	0	3
ENE	0	0	0	0	3	1	0	1	0	0	0	5
E	0	0	0	0	0	0	1	1	0	0	0	2
ESE	0	0	0	0	0	0	1	1	3	1	0	6
SE	0	0	0	0	0	0	2	0	0	0	0	2
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	1	2	0	0	1	0	0	4
SSW	0	0	0	0	0	1	2	3	1	2	0	9
SW	0	0	0	0	0	0	0	2	2	2	0	6
WSW	0	0	0	0	0	0	2	2	2	0	0	6
W	0	0	0	0	0	0	4	3	2	0	2	11
WNW	0	0	0	0	0	1	4	1	2	3	1	12
NW	0	0	0	0	0	1	0	3	1	2	1	8
NNW	0	0	0	0	0	0	0	1	2	0	0	3
Tot	0	0	0	0	5	8	16	19	17	10	4	79

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 79
Hours of Missing Data 3
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class D - Neutral

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	1	1	6	4	0	4	4	0	21
NNE	0	0	0	2	3	6	17	8	4	3	7	50
NE	0	0	1	0	6	8	11	15	13	6	4	64
ENE	0	0	0	0	8	10	10	7	0	0	0	35
E	0	0	1	0	9	9	13	10	27	25	9	103
ESE	0	0	0	3	3	7	15	14	23	7	8	80
SE	0	0	3	0	2	1	5	2	0	1	0	14
SSE	0	0	1	0	1	7	4	1	3	3	0	20
S	0	0	0	1	1	9	8	19	8	14	6	66
SSW	0	0	0	0	2	8	7	11	21	10	3	62
SW	0	0	1	2	1	12	6	11	24	12	9	78
WSW	0	0	2	2	4	2	3	3	26	11	22	75
W	0	1	0	0	6	13	33	17	25	12	6	113
WNW	0	0	0	0	4	9	16	14	30	29	3	105
NW	0	0	0	0	3	8	12	15	24	7	2	71
NNW	0	0	0	0	2	5	8	8	24	2	0	49
Tot	0	1	10	11	56	120	172	155	256	146	79	1006

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 1007
Hours of Missing Data 3
Hours in Period 2160

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METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class E - Slightly Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	2	2	6	5	4	1	0	0	20
NNE	0	0	0	0	1	1	9	4	0	1	0	16
NE	0	0	0	2	3	4	3	3	1	0	0	16
ENE	0	0	1	0	2	4	0	1	0	0	0	8
E	0	0	0	0	0	5	4	1	0	0	1	11
ESE	0	0	0	1	0	3	7	11	4	6	0	32
SE	0	0	3	1	4	5	4	9	5	0	0	31
SSE	0	0	0	5	2	3	4	4	5	6	1	30
S	0	0	0	2	1	15	5	6	16	12	15	72
SSW	0	0	0	1	4	5	16	18	27	18	9	98
SW	0	0	0	0	1	9	9	7	33	11	6	76
WSW	0	0	2	1	1	4	6	4	5	2	1	26
W	0	1	0	2	10	7	25	29	24	4	0	102
WNW	0	0	1	0	7	14	17	44	27	6	1	117
NW	0	0	0	2	7	17	28	16	8	1	0	79
NNW	0	0	0	1	2	6	7	9	10	0	0	35
Tot	0	1	7	20	47	108	149	170	166	67	34	769

Hours of Calm	1
Hours of Variable Direction	0
Hours of Valid Data	770
Hours of Missing Data	3
Hours in Period	2160

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METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class F - Moderately Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	1	0	0	0	0	1
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	1	0	0	0	0	0	0	1
ENE	0	0	0	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	3	3	0	0	0	6
SSE	0	0	0	1	1	2	5	0	0	0	0	9
S	0	0	0	0	0	2	1	2	0	0	0	5
SSW	0	0	0	0	1	3	2	2	0	0	0	8
SW	0	0	0	0	2	3	8	6	2	0	0	21
WSW	0	0	0	1	1	3	1	1	0	1	0	8
W	0	0	0	0	4	4	1	0	1	0	0	10
WNW	0	0	0	1	2	0	1	1	0	0	0	5
NW	0	0	0	0	0	2	6	2	0	0	0	10
NNW	0	0	0	0	0	2	0	0	0	0	0	2
Tot	0	0	0	3	12	21	29	17	3	1	0	86

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 86
Hours of Missing Data 3
Hours in Period 2160

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METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class G - Extremely Stable

Elevations: Winds 150ft Stability 150ft

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

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 27
Hours of Missing Data 3
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: January through March 2007

All Stabilities

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)										Total	
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0		>10.00
N	0	0	0	0	4	5	9	15	16	5	3	57
NNE	0	0	0	0	4	3	14	15	14	5	13	68
NE	0	1	2	0	7	7	16	13	23	16	4	89
ENE	0	0	1	1	8	13	16	11	3	0	0	53
E	0	0	0	1	4	8	8	19	24	26	30	120
ESE	0	0	0	3	3	5	11	20	42	24	13	121
SE	0	0	3	2	2	4	6	14	11	5	0	47
SSE	0	0	1	1	5	8	12	4	18	10	5	64
S	0	0	0	1	2	11	15	16	34	28	43	150
SSW	0	0	0	1	5	4	14	18	62	27	39	170
SW	0	0	0	4	3	13	16	19	48	65	33	201
WSW	0	0	2	0	4	8	13	16	41	25	28	137
W	0	0	1	5	10	11	48	52	70	42	32	271
WNW	0	0	0	0	7	13	15	38	82	84	25	264
NW	0	0	1	2	6	11	28	46	74	20	15	203
NNW	0	0	0	0	3	3	14	26	60	14	0	120
Tot	0	1	11	21	77	127	255	342	622	396	283	2135

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 2136
Hours of Missing Data 24
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class A - Extremely Unstable

Elevations: Winds 300ft Stability 300ft

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

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 21
Hours of Missing Data 24
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class B - Moderately Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)										Total	
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0		>10.00
N	0	0	0	0	0	0	1	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	1	1	0	0	2
ENE	0	0	0	0	0	0	1	2	0	0	0	3
E	0	0	0	0	0	0	0	1	1	0	0	2
ESE	0	0	0	0	0	0	0	0	1	0	0	1
SE	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	1	0	0	0	0	2	3
WSW	0	0	0	0	0	0	0	0	1	2	0	3
W	0	0	0	0	0	0	0	0	1	3	2	6
WNW	0	0	0	0	0	0	0	6	2	5	1	14
NW	0	0	0	0	0	0	0	2	2	0	3	7
NNW	0	0	0	0	0	0	0	1	4	0	0	5
Tot	0	0	0	0	0	1	2	13	13	10	8	47

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 47
Hours of Missing Data 24
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class C - Slightly Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	0	2	1	0	0	3
NNE	0	0	0	0	0	0	0	0	1	0	0	1
NE	0	0	0	0	0	0	1	0	0	1	0	2
ENE	0	0	0	0	0	0	0	1	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	1	3	1	0	5
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	1	0	0	0	0	0	1
SSW	0	0	0	0	0	0	1	0	2	1	1	5
SW	0	0	0	0	1	0	1	0	1	3	3	9
WSW	0	0	0	0	0	0	0	0	3	2	0	5
W	0	0	0	0	0	0	1	1	2	6	3	13
WNW	0	0	0	0	0	1	0	2	3	9	1	16
NW	0	0	0	0	0	0	0	2	3	1	2	8
NNW	0	0	0	0	0	0	3	1	5	0	0	9
Tot	0	0	0	0	1	2	7	12	24	24	10	80

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 80
Hours of Missing Data 24
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class D - Neutral

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)										Total	
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0		>10.00
N	0	0	0	0	2	3	5	6	6	2	3	27
NNE	0	0	0	0	3	3	11	10	10	4	13	54
NE	0	0	1	0	7	5	13	12	21	13	4	76
ENE	0	0	1	1	8	11	12	8	3	0	0	44
E	0	0	0	1	3	7	8	12	22	26	30	109
ESE	0	0	0	3	2	4	10	15	25	21	10	90
SE	0	0	2	2	1	3	3	8	2	1	0	22
SSE	0	0	1	1	1	5	5	2	6	7	5	33
S	0	0	0	0	0	7	11	11	25	13	29	96
SSW	0	0	0	1	1	3	11	11	27	14	17	85
SW	0	0	0	4	0	5	10	7	26	24	18	94
WSW	0	0	1	0	2	5	3	6	32	19	25	93
W	0	0	1	3	6	4	33	43	43	23	21	177
WNW	0	0	0	0	4	8	14	22	38	47	23	156
NW	0	0	0	0	4	4	13	22	39	16	10	108
NNW	0	0	0	0	1	1	6	14	24	8	0	54
Tot	0	0	7	16	45	78	168	209	349	238	208	1318

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 1319
Hours of Missing Data 24
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class E - Slightly Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	2	2	2	6	8	3	0	23
NNE	0	0	0	0	1	0	1	4	3	1	0	10
NE	0	1	1	0	0	1	2	0	1	0	0	6
ENE	0	0	0	0	0	2	3	0	0	0	0	5
E	0	0	0	0	1	1	0	2	1	0	0	5
ESE	0	0	0	0	1	1	1	4	12	2	3	24
SE	0	0	1	0	1	1	3	6	8	3	0	23
SSE	0	0	0	0	4	3	7	1	8	3	0	26
S	0	0	0	0	2	3	3	5	9	14	13	49
SSW	0	0	0	0	2	0	2	6	31	11	21	73
SW	0	0	0	0	0	6	5	11	15	24	10	71
WSW	0	0	1	0	1	1	8	8	3	2	3	27
W	0	0	0	2	3	3	6	6	22	9	3	54
WNW	0	0	0	0	3	3	1	5	35	20	0	67
NW	0	0	1	2	2	6	13	15	20	1	0	60
NNW	0	0	0	0	2	2	4	8	22	5	0	43
Tot	0	1	4	4	25	35	61	87	198	98	53	566

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 566
Hours of Missing Data 24
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class F - Moderately Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)										Total	
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0		>10.00
N	0	0	0	0	0	0	0	1	1	0	0	2
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	2	0	2
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	1	0	0	1
SE	0	0	0	0	0	0	0	0	1	1	0	2
SSE	0	0	0	0	0	0	0	1	4	0	0	5
S	0	0	0	1	0	0	1	0	0	1	1	4
SSW	0	0	0	0	2	1	0	1	2	1	0	7
SW	0	0	0	0	1	1	0	1	6	8	0	17
WSW	0	0	0	0	1	2	2	1	1	0	0	7
W	0	0	0	0	1	0	7	1	2	1	0	12
WNW	0	0	0	0	0	0	0	0	1	0	0	1
NW	0	0	0	0	0	1	1	3	8	2	0	15
NNW	0	0	0	0	0	0	1	0	4	1	0	6
Tot	0	0	0	1	5	5	12	9	31	17	1	81

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 81
Hours of Missing Data 24
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: January through March 2007

Stability Class G - Extremely Stable

Elevations: Winds 300ft Stability 300ft

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

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 22
Hours of Missing Data 24
Hours in Period 2160

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2007

All Stabilities

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	7	14	8	15	2	0	0	0	0	0	46
NNE	0	8	12	15	27	14	9	1	1	0	0	87
NE	0	6	19	11	35	43	25	7	1	0	0	147
ENE	0	3	6	25	64	37	16	4	4	0	0	159
E	0	4	9	25	54	60	37	25	13	0	0	227
ESE	0	4	7	13	32	18	10	14	14	3	0	115
SE	0	6	8	5	25	32	12	9	1	0	0	98
SSE	0	5	11	12	40	37	11	16	12	0	0	144
S	0	4	8	13	34	33	35	16	20	12	3	178
SSW	0	5	13	22	24	17	10	6	19	19	14	149
SW	0	6	14	16	42	19	15	9	7	6	2	136
WSW	0	4	11	15	27	17	23	8	5	2	0	112
W	0	6	9	17	30	28	17	4	10	3	0	124
WNW	0	9	9	8	38	32	30	24	23	7	0	180
NW	0	18	21	8	26	18	21	14	20	0	0	146
NNW	0	11	17	14	21	29	7	5	0	0	0	104
Tot	0	106	188	227	534	436	278	162	150	52	19	2152

Hours of Calm 31
Hours of Variable Direction 1
Hours of Valid Data 2184
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class A - Extremely Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	2	3	2	0	0	0	0	0	7
NNE	0	0	0	3	4	1	4	0	0	0	0	12
NE	0	0	0	3	2	22	14	2	0	0	0	43
ENE	0	0	0	2	9	11	6	0	0	0	0	28
E	0	0	0	2	4	10	2	9	1	0	0	28
ESE	0	0	0	0	6	3	2	2	0	1	0	14
SE	0	0	0	0	4	6	1	2	0	0	0	13
SSE	0	0	0	0	4	2	1	4	0	0	0	11
S	0	0	0	1	1	4	3	2	5	0	0	16
SSW	0	0	1	2	1	2	1	0	3	3	0	13
SW	0	0	0	1	5	1	1	4	2	1	0	15
WSW	0	0	0	1	5	6	9	3	2	1	0	27
W	0	0	0	0	0	5	1	2	4	0	0	12
WNW	0	0	0	0	7	3	9	11	0	0	0	30
NW	0	0	0	0	6	7	3	4	13	0	0	33
NNW	0	0	1	1	2	14	2	2	0	0	0	22
Tot	0	0	2	18	63	99	59	47	30	6	0	324

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 324
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class B - Moderately Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)										Total	
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0		>10.00
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	2	0	0	0	0	0	0	2
NE	0	0	1	1	0	2	2	1	0	0	0	7
ENE	0	0	0	2	2	3	1	0	0	0	0	8
E	0	0	1	2	2	1	3	0	0	0	0	9
ESE	0	0	0	0	2	0	1	0	2	0	0	5
SE	0	0	1	0	2	1	1	0	0	0	0	5
SSE	0	0	0	0	0	3	2	4	0	0	0	9
S	0	0	0	0	1	1	1	1	0	0	0	4
SSW	0	0	2	0	1	1	1	0	3	1	0	9
SW	0	0	0	0	1	1	1	0	0	1	0	4
WSW	0	0	1	0	1	3	3	1	0	0	0	9
W	0	0	0	1	0	2	0	0	0	0	0	3
WNW	0	0	0	0	2	3	0	0	2	1	0	8
NW	0	0	0	1	2	2	1	3	1	0	0	10
NNW	0	0	1	1	1	0	0	1	0	0	0	4
Tot	0	0	7	8	19	23	17	11	8	3	0	96

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 96
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class C - Slightly Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	1	0	0	0	0	0	1	0	0	2
NE	0	0	0	0	0	0	1	0	0	0	0	1
ENE	0	0	0	0	2	2	0	0	0	0	0	4
E	0	0	0	1	0	0	1	1	0	0	0	3
ESE	0	0	0	0	2	1	1	0	2	1	0	7
SE	0	0	1	0	2	3	0	0	0	0	0	6
SSE	0	0	1	0	1	1	2	2	2	0	0	9
S	0	0	0	0	3	1	1	1	0	1	0	7
SSW	0	0	0	2	0	3	0	0	1	1	1	8
SW	0	0	1	0	1	2	1	0	0	0	0	5
WSW	0	0	0	0	2	0	0	1	3	0	0	6
W	0	0	0	0	0	1	3	0	0	0	0	4
WNW	0	0	0	0	6	3	3	2	1	3	0	18
NW	0	0	0	1	0	0	1	1	1	0	0	4
NNW	0	0	0	1	1	1	1	0	0	0	0	4
Tot	0	0	4	5	20	18	15	8	11	6	1	88

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 89
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class D - Neutral

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)										Total	
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0		>10.00
N	0	0	5	2	0	0	0	0	0	0	0	7
NNE	0	0	2	2	7	10	1	1	0	0	0	23
NE	0	0	2	1	16	17	7	4	0	0	0	47
ENE	0	0	0	3	19	17	8	4	2	0	0	53
E	0	0	4	6	21	33	25	10	11	0	0	110
ESE	0	0	2	0	6	5	2	8	9	1	0	33
SE	0	2	1	2	3	8	3	2	0	0	0	21
SSE	0	0	1	2	4	15	4	5	2	0	0	33
S	0	0	1	3	5	7	12	3	6	3	2	42
SSW	0	0	2	5	8	5	3	2	3	5	10	43
SW	0	0	0	3	5	7	2	2	0	2	2	23
WSW	0	0	1	5	9	4	7	2	0	1	0	29
W	0	0	2	3	16	14	8	2	6	3	0	54
WNW	0	1	1	3	11	19	13	10	20	3	0	81
NW	0	1	3	4	4	4	7	6	5	0	0	34
NNW	0	0	3	3	3	9	4	2	0	0	0	24
Tot	0	4	30	47	137	174	106	63	64	18	14	657

Hours of Calm 2
Hours of Variable Direction 0
Hours of Valid Data 659
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class E - Slightly Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	3	6	3	11	0	0	0	0	0	0	23
NNE	0	3	9	9	14	3	4	0	0	0	0	42
NE	0	2	12	6	17	2	1	0	1	0	0	41
ENE	0	0	4	18	32	4	1	0	2	0	0	61
E	0	1	4	13	26	16	6	5	1	0	0	72
ESE	0	2	0	5	10	6	4	4	1	0	0	32
SE	0	1	1	1	8	11	6	5	1	0	0	34
SSE	0	1	8	7	22	14	0	1	8	0	0	61
S	0	1	2	8	11	13	18	9	9	8	1	80
SSW	0	1	3	7	11	6	5	3	9	9	3	57
SW	0	0	4	5	10	6	9	3	5	2	0	44
WSW	0	1	3	4	6	1	4	1	0	0	0	20
W	0	3	3	10	14	5	5	0	0	0	0	40
WNW	0	1	4	4	9	4	5	1	0	0	0	28
NW	0	3	4	0	14	5	9	0	0	0	0	35
NNW	0	4	8	6	11	3	0	0	0	0	0	32
Tot	0	27	75	106	226	99	77	32	37	19	4	702

Hours of Calm 4
Hours of Variable Direction 0
Hours of Valid Data 706
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class F - Moderately Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	1	1	1	0	0	0	0	0	0	4
NNE	0	2	0	1	0	0	0	0	0	0	0	3
NE	0	3	4	0	0	0	0	0	0	0	0	7
ENE	0	2	2	0	0	0	0	0	0	0	0	4
E	0	1	0	0	1	0	0	0	0	0	0	2
ESE	0	2	5	6	5	3	0	0	0	0	0	21
SE	0	2	1	2	6	3	1	0	0	0	0	15
SSE	0	3	0	3	9	2	2	0	0	0	0	19
S	0	1	4	0	12	7	0	0	0	0	0	24
SSW	0	4	4	4	2	0	0	1	0	0	0	15
SW	0	4	5	4	6	2	1	0	0	0	0	22
WSW	0	3	4	2	2	3	0	0	0	0	0	14
W	0	1	2	3	0	1	0	0	0	0	0	7
WNW	0	4	2	1	3	0	0	0	0	0	0	10
NW	0	6	9	0	0	0	0	0	0	0	0	15
NNW	0	4	3	1	2	2	0	0	0	0	0	12
Tot	0	43	46	28	49	23	4	1	0	0	0	194

Hours of Calm 11
Hours of Variable Direction 0
Hours of Valid Data 205
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class G - Extremely Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	3	2	0	0	0	0	0	0	0	0	5
NNE	0	3	0	0	0	0	0	0	0	0	0	3
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	2	0	1	0	0	0	0	0	0	0	3
ESE	0	0	0	2	1	0	0	0	0	0	0	3
SE	0	1	3	0	0	0	0	0	0	0	0	4
SSE	0	1	1	0	0	0	0	0	0	0	0	2
S	0	2	1	1	1	0	0	0	0	0	0	5
SSW	0	0	1	2	1	0	0	0	0	0	0	4
SW	0	2	4	3	14	0	0	0	0	0	0	23
WSW	0	0	2	3	2	0	0	0	0	0	0	7
W	0	2	2	0	0	0	0	0	0	0	0	4
WNW	0	3	2	0	0	0	0	0	0	0	0	5
NW	0	8	5	2	0	0	0	0	0	0	0	15
NNW	0	3	1	1	1	0	0	0	0	0	0	6
Tot	0	32	24	15	20	0	0	0	0	0	0	91

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

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: April through June 2007

All Stabilities

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	2	2	5	10	16	15	7	3	0	0	60
NNE	0	1	5	9	14	13	21	21	18	4	0	106
NE	0	0	3	4	22	19	25	27	30	4	0	134
ENE	0	1	3	13	50	55	29	11	11	3	0	176
E	0	1	2	9	28	33	37	42	59	10	5	226
ESE	0	2	1	4	10	20	15	14	18	13	3	100
SE	0	1	5	3	21	18	24	19	13	2	0	106
SSE	0	2	3	3	15	33	30	17	10	6	0	119
S	0	0	1	6	23	22	17	47	57	20	17	210
SSW	0	1	0	5	16	30	17	15	12	12	32	140
SW	0	1	2	4	19	18	23	14	29	11	12	133
WSW	0	0	5	5	22	19	19	26	20	2	5	123
W	0	0	6	3	14	26	24	21	17	8	4	123
WNW	0	0	2	8	18	31	25	29	35	22	22	192
NW	0	2	5	2	15	18	14	12	33	32	4	137
NNW	0	3	2	3	12	16	14	16	24	5	0	95
Tot	0	17	47	86	309	387	349	338	389	154	104	2180

Hours of Calm 3
Hours of Variable Direction 1
Hours of Valid Data 2184
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class A - Extremely Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	2	3	3	1	0	0	0	10
NNE	0	0	0	0	2	1	5	1	5	1	0	15
NE	0	0	0	0	2	3	11	13	15	1	0	45
ENE	0	0	0	1	4	9	8	2	0	0	0	24
E	0	0	0	2	3	2	4	3	11	0	0	25
ESE	0	0	0	0	3	5	2	1	1	0	1	13
SE	0	0	0	0	4	4	4	0	3	0	0	15
SSE	0	0	0	0	3	0	3	1	2	0	0	9
S	0	0	0	1	1	2	2	4	5	3	0	18
SSW	0	0	0	0	3	1	1	1	1	2	2	11
SW	0	0	0	1	5	1	1	1	4	3	1	17
WSW	0	0	0	0	4	4	5	6	5	1	2	27
W	0	0	0	0	0	1	3	2	2	4	0	12
WNW	0	0	0	0	0	5	1	2	11	5	0	24
NW	0	0	0	0	0	6	5	3	7	16	2	39
NNW	0	0	0	0	1	2	4	7	5	1	0	20
Tot	0	0	0	6	37	49	62	48	77	37	8	324

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 324
Hours of Missing Data 0
Hours in Period 2184

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METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class B - Moderately Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	1	0	1	0	1	0	0	0	3
NE	0	0	0	1	2	1	1	1	3	0	0	9
ENE	0	0	0	1	1	1	2	1	0	0	0	6
E	0	0	1	0	4	0	1	2	1	0	0	9
ESE	0	0	0	0	1	0	0	1	0	2	0	4
SE	0	0	1	0	2	1	2	0	0	0	0	6
SSE	0	0	0	0	0	1	2	2	1	0	0	6
S	0	0	0	0	1	0	1	1	4	0	0	7
SSW	0	0	0	2	0	1	0	1	2	0	1	7
SW	0	0	0	1	1	1	1	1	0	1	1	7
WSW	0	0	0	0	0	1	3	2	2	0	0	8
W	0	0	0	0	1	0	2	0	0	0	0	3
WNW	0	0	0	0	0	1	3	0	0	1	2	7
NW	0	0	0	0	3	2	0	0	3	4	0	12
NNW	0	0	0	0	0	1	0	0	0	1	0	2
Tot	0	0	2	6	16	12	18	13	16	9	4	96

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 96
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class C - Slightly Unstable

Elevations: Winds 150ft Stability 150ft

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

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 89
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class D - Neutral

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	1	0	1	3	0	0	0	0	0	6
NNE	0	0	1	3	1	2	3	9	8	1	0	28
NE	0	0	0	2	2	4	10	8	11	2	0	39
ENE	0	0	1	1	12	19	13	7	8	2	0	63
E	0	0	0	3	7	11	14	24	33	7	5	104
ESE	0	0	0	1	2	5	3	4	10	7	1	33
SE	0	1	2	0	6	3	3	2	3	0	0	20
SSE	0	1	1	2	3	9	9	3	4	0	0	32
S	0	0	0	1	3	8	5	8	11	3	6	45
SSW	0	0	0	0	7	5	4	4	3	1	14	38
SW	0	0	2	2	5	4	4	2	5	0	5	29
WSW	0	0	1	1	9	5	2	5	5	0	1	29
W	0	0	1	1	3	8	10	9	8	4	4	48
WNW	0	0	0	2	8	5	8	17	16	15	16	87
NW	0	0	3	1	2	3	0	3	10	8	2	32
NNW	0	0	0	1	4	2	2	0	14	2	0	25
Tot	0	3	13	21	75	96	90	105	149	52	54	658

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 659
Hours of Missing Data 0
Hours in Period 2184

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Period: April through June 2007

Stability Class E - Slightly Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	0	2	6	9	4	3	0	0	25
NNE	0	0	2	1	7	8	13	10	5	1	0	47
NE	0	0	2	0	15	9	3	5	0	1	0	35
ENE	0	0	1	6	27	25	5	1	3	1	0	69
E	0	1	0	2	11	16	17	12	13	3	0	75
ESE	0	0	1	1	3	7	8	5	7	2	0	34
SE	0	0	0	2	3	3	6	12	6	2	0	34
SSE	0	0	1	0	3	15	11	8	0	6	0	44
S	0	0	1	3	8	7	6	20	28	13	10	96
SSW	0	1	0	0	2	13	9	6	5	8	13	57
SW	0	0	0	0	4	7	4	4	14	7	5	45
WSW	0	0	1	1	2	4	4	2	4	0	0	18
W	0	0	2	1	3	8	8	7	6	0	0	35
WNW	0	0	0	3	3	9	9	4	5	1	0	34
NW	0	0	1	1	4	1	6	6	13	1	0	33
NNW	0	2	1	0	3	3	6	8	1	1	0	25
Tot	0	4	14	21	100	141	124	114	113	47	28	706
Hours of Calm												0
Hours of Variable Direction												0
Hours of Valid Data												706
Hours of Missing Data												0
Hours in Period												2184

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METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class F - Moderately Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)										Total	
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0		>10.00
N	0	0	0	3	3	1	2	2	0	0	0	11
NNE	0	0	1	1	1	1	0	0	0	0	0	4
NE	0	0	0	1	1	0	0	0	0	0	0	2
ENE	0	1	1	4	4	0	0	0	0	0	0	10
E	0	0	0	1	2	3	0	0	0	0	0	6
ESE	0	1	0	2	1	2	1	3	0	0	0	10
SE	0	0	2	0	3	4	5	5	1	0	0	20
SSE	0	1	0	1	3	5	4	2	1	0	0	17
S	0	0	0	0	4	2	3	12	8	0	0	29
SSW	0	0	0	1	0	8	1	3	0	1	0	14
SW	0	1	0	0	2	4	8	0	2	0	0	17
WSW	0	0	2	1	2	2	1	5	3	0	0	16
W	0	0	1	0	3	7	1	1	0	0	0	13
WNW	0	0	1	2	4	3	2	2	0	0	0	14
NW	0	2	0	0	2	3	3	0	0	0	0	10
NNW	0	0	1	0	2	5	0	1	2	0	0	11
Tot	0	6	9	17	37	50	31	36	17	1	0	204

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 205
Hours of Missing Data 0
Hours in Period 2184

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METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class G - Extremely Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	0	1	2	3	1	0	0	0	0	8
NNE	0	1	1	2	3	0	0	0	0	0	0	7
NE	0	0	1	0	0	1	0	0	0	0	0	2
ENE	0	0	0	0	1	0	0	0	0	0	0	1
E	0	0	1	1	0	0	0	0	0	0	0	2
ESE	0	1	0	0	0	0	0	0	0	0	0	1
SE	0	0	0	0	2	2	1	0	0	0	0	5
SSE	0	0	1	0	2	2	0	0	0	0	0	5
S	0	0	0	0	5	0	0	0	0	0	0	5
SSW	0	0	0	1	4	1	0	0	0	0	0	6
SW	0	0	0	0	2	1	4	4	4	0	0	15
WSW	0	0	1	1	2	2	4	6	0	0	0	16
W	0	0	2	1	4	0	0	0	0	0	0	7
WNW	0	0	1	1	3	2	1	0	0	0	0	8
NW	0	0	1	0	3	3	0	0	0	0	0	7
NNW	0	1	0	2	1	3	1	0	1	0	0	9
Tot	0	4	9	10	34	20	12	10	5	0	0	104

Hours of Calm 1
Hours of Variable Direction 0
Hours of Valid Data 105
Hours of Missing Data 0
Hours in Period 2184

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METEOROLOGICAL DATA

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

Period: April through June 2007

All Stabilities

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	1	0	2	9	6	5	11	12	3	0	49
NNE	0	0	1	5	3	9	13	17	47	10	1	106
NE	0	0	2	5	10	27	25	26	40	11	3	149
ENE	0	1	4	5	27	53	44	27	14	7	3	185
E	0	0	1	3	19	18	25	34	51	40	17	208
ESE	0	0	2	1	9	18	10	11	20	22	11	104
SE	0	2	3	2	20	7	18	14	32	5	2	105
SSE	0	1	1	6	4	14	28	25	26	10	8	123
S	0	1	1	3	13	17	18	17	45	53	37	205
SSW	0	0	0	1	11	7	15	18	24	18	43	137
SW	0	1	0	7	8	10	20	14	31	17	19	127
WSW	0	0	2	3	17	14	13	16	36	17	5	123
W	0	2	1	4	6	8	24	17	35	10	11	118
WNW	0	1	2	6	15	19	21	36	47	29	32	208
NW	0	0	1	4	8	13	15	13	28	37	18	137
NNW	0	0	4	2	10	12	14	9	25	18	1	95
Tot	0	10	25	59	189	252	308	305	513	307	211	2179

Hours of Calm	4
Hours of Variable Direction	1
Hours of Valid Data	2184
Hours of Missing Data	0
Hours in Period	2184

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class A - Extremely Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	1	2	0	0	3
NE	0	0	0	0	1	0	2	5	8	2	0	18
ENE	0	0	0	0	1	1	4	2	0	0	0	8
E	0	0	0	0	0	0	1	1	2	2	0	6
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	1	0	0	1	1	0	0	3
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	1	1	0	0	0	1	0	3
WSW	0	0	0	0	2	1	0	0	2	0	0	5
W	0	0	0	0	0	0	0	0	0	1	1	2
WNW	0	0	0	0	0	0	0	0	2	4	0	6
NW	0	0	0	0	0	0	1	1	5	3	6	16
NNW	0	0	0	0	0	0	1	2	3	0	0	6
Tot	0	0	0	0	6	3	9	13	25	13	7	76

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 76
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class B - Moderately Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	1	1	0	1	0	0	0	3
NNE	0	0	0	0	0	0	0	2	1	0	0	3
NE	0	0	0	0	0	1	2	5	4	2	0	14
ENE	0	0	0	0	2	3	2	1	0	0	0	8
E	0	0	0	0	1	0	2	1	2	4	0	10
ESE	0	0	0	0	0	4	1	0	1	0	0	6
SE	0	0	0	0	2	0	1	0	1	0	0	4
SSE	0	0	0	0	1	0	0	0	1	0	0	2
S	0	0	0	0	0	1	0	1	1	3	1	7
SSW	0	0	0	1	1	0	0	0	1	0	2	5
SW	0	0	0	0	0	0	1	0	2	1	1	5
WSW	0	0	0	0	1	2	0	2	3	0	1	9
W	0	0	0	1	0	0	2	0	0	2	0	5
WNW	0	0	0	0	0	0	2	0	2	5	0	9
NW	0	0	0	0	0	1	3	3	2	4	1	14
NNW	0	0	0	0	0	0	1	1	1	0	0	3
Tot	0	0	0	2	9	13	17	17	22	21	6	107

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 107
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class C - Slightly Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	1	1	2	1	0	0	0	6
NNE	0	0	0	1	1	1	2	1	1	2	1	10
NE	0	0	0	0	1	1	2	3	5	0	0	12
ENE	0	0	1	1	1	1	3	1	1	0	0	9
E	0	0	0	2	2	0	3	1	3	1	0	12
ESE	0	0	0	0	3	3	1	2	0	1	3	13
SE	0	0	0	0	2	1	2	1	1	0	0	7
SSE	0	0	0	1	0	1	4	1	5	0	0	12
S	0	0	0	0	1	1	2	3	2	2	2	13
SSW	0	0	0	0	1	0	0	1	1	2	1	6
SW	0	0	0	0	1	1	0	1	3	0	1	7
WSW	0	0	0	0	3	1	2	1	4	2	2	15
W	0	0	0	0	1	0	1	3	2	1	0	8
WNW	0	0	0	0	0	2	1	4	2	2	1	12
NW	0	0	0	0	1	1	2	0	1	2	2	9
NNW	0	0	0	0	0	2	3	0	2	2	0	9
Tot	0	0	1	6	19	17	30	24	33	17	13	160

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 160
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class D - Neutral

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	1	2	2	0	4	0	0	10
NNE	0	0	1	3	0	1	4	5	20	4	0	38
NE	0	0	2	2	2	9	11	10	21	7	3	67
ENE	0	0	1	3	12	28	19	17	11	7	3	101
E	0	0	0	1	11	10	11	16	35	27	17	128
ESE	0	0	0	0	2	6	1	4	9	13	7	42
SE	0	1	2	1	7	6	10	3	7	1	0	38
SSE	0	1	0	3	2	7	14	8	7	4	2	48
S	0	0	0	3	7	10	8	8	16	9	10	71
SSW	0	0	0	0	7	3	6	5	8	4	29	62
SW	0	1	0	6	5	3	6	5	7	1	7	41
WSW	0	0	2	2	7	6	8	7	9	5	2	48
W	0	0	0	3	3	5	13	8	17	2	10	61
WNW	0	0	0	1	7	7	13	17	30	17	31	123
NW	0	0	0	1	4	5	4	3	7	27	9	60
NNW	0	0	1	1	6	5	2	4	3	16	0	38
Tot	0	3	9	31	83	113	132	120	211	144	130	976

Hours of Calm	1
Hours of Variable Direction	1
Hours of Valid Data	978
Hours of Missing Data	0
Hours in Period	2184

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class E - Slightly Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	3	0	1	6	7	1	0	18
NNE	0	0	0	1	2	4	6	5	17	4	0	39
NE	0	0	0	2	2	15	6	3	2	0	0	30
ENE	0	0	2	0	9	17	16	6	2	0	0	52
E	0	0	1	0	3	6	8	13	8	6	0	45
ESE	0	0	2	1	3	4	5	5	9	7	1	37
SE	0	0	1	1	6	0	4	9	17	3	2	43
SSE	0	0	0	0	0	1	6	6	11	5	6	35
S	0	1	0	0	2	2	5	4	23	32	24	93
SSW	0	0	0	0	2	2	8	11	10	7	10	50
SW	0	0	0	0	1	3	10	6	8	12	10	50
WSW	0	0	0	1	4	3	3	4	3	6	0	24
W	0	0	1	0	2	3	7	4	14	4	0	35
WNW	0	0	1	2	2	2	4	9	4	0	0	24
NW	0	0	1	0	1	2	2	2	9	1	0	18
NNW	0	0	0	1	1	3	2	1	15	0	0	23
Tot	0	1	9	9	43	67	93	94	159	88	53	616

Hours of Calm 3
Hours of Variable Direction 0
Hours of Valid Data 619
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class F - Moderately Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	0	0	2	2	0	3	0	1	0	9
NNE	0	0	0	0	0	3	1	2	6	0	0	12
NE	0	0	0	1	3	1	2	0	0	0	0	7
ENE	0	1	0	0	2	3	0	0	0	0	0	6
E	0	0	0	0	2	2	0	2	1	0	0	7
ESE	0	0	0	0	1	0	2	0	1	1	0	5
SE	0	1	0	0	2	0	1	0	3	1	0	8
SSE	0	0	0	2	0	5	4	9	2	1	0	23
S	0	0	0	0	1	2	3	1	3	6	0	16
SSW	0	0	0	0	0	1	1	1	4	5	0	12
SW	0	0	0	0	0	0	1	1	6	1	0	9
WSW	0	0	0	0	0	0	0	2	15	3	0	20
W	0	0	0	0	0	0	1	2	2	0	0	5
WNW	0	0	0	1	3	5	1	4	3	1	0	18
NW	0	0	0	0	2	4	3	3	4	0	0	16
NNW	0	0	1	0	1	1	5	1	0	0	1	10
Tot	0	3	1	4	19	29	25	31	50	20	1	183

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 183
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: April through June 2007

Stability Class G - Extremely Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	1	0	0	0	1	1	0	3
NNE	0	0	0	0	0	0	0	1	0	0	0	1
NE	0	0	0	0	1	0	0	0	0	0	0	1
ENE	0	0	0	1	0	0	0	0	0	0	0	1
E	0	0	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	2	0	0	2
SSE	0	0	1	0	1	0	0	1	0	0	0	3
S	0	0	1	0	2	1	0	0	0	1	0	5
SSW	0	0	0	0	0	1	0	0	0	0	1	2
SW	0	0	0	1	0	2	2	1	5	1	0	12
WSW	0	0	0	0	0	1	0	0	0	1	0	2
W	0	2	0	0	0	0	0	0	0	0	0	2
WNW	0	1	1	2	3	3	0	2	4	0	0	16
NW	0	0	0	3	0	0	0	1	0	0	0	4
NNW	0	0	2	0	2	1	0	0	1	0	0	6
Tot	0	3	5	7	10	10	2	6	13	4	1	61

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 61
Hours of Missing Data 0
Hours in Period 2184

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2007

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	24	31	17	9	2	0	1	0	0	0	84
NNE	0	16	33	22	13	3	1	0	0	0	0	88
NE	0	11	18	34	51	13	1	0	0	0	0	128
ENE	0	9	6	25	71	5	0	0	0	0	0	116
E	1	9	21	24	66	24	1	0	0	0	0	146
ESE	0	7	17	13	42	28	5	3	0	0	0	115
SE	0	8	8	6	37	35	22	1	0	0	0	117
SSE	0	5	10	15	57	27	19	8	2	0	0	143
S	0	8	13	14	54	34	26	20	19	1	0	189
SSW	0	9	22	23	35	46	26	14	15	0	0	190
SW	0	7	23	40	43	27	18	10	18	0	0	186
WSW	0	9	17	27	41	14	7	8	7	0	0	130
W	0	3	9	25	36	20	7	4	2	0	0	106
WNW	0	8	28	18	46	17	12	3	1	0	0	133
NW	0	16	36	15	37	10	1	0	0	0	0	115
NNW	0	36	35	26	38	5	1	0	0	0	0	141
Tot	1	185	327	344	676	310	147	72	64	1	0	2127

Hours of Calm 76
Hours of Variable Direction 2
Hours of Valid Data 2205
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class A - Extremely Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	8	4	0	0	0	0	0	0	13
NNE	0	0	4	13	8	3	0	0	0	0	0	28
NE	0	0	3	11	28	4	1	0	0	0	0	47
ENE	0	0	0	6	31	3	0	0	0	0	0	40
E	0	0	2	7	15	8	0	0	0	0	0	32
ESE	0	0	2	0	5	8	0	0	0	0	0	15
SE	0	0	0	0	4	2	3	0	0	0	0	9
SSE	0	1	0	2	18	2	4	2	0	0	0	29
S	0	0	2	1	11	8	10	5	4	0	0	41
SSW	0	0	1	1	8	20	17	10	11	0	0	68
SW	0	1	2	2	8	12	10	7	15	0	0	57
WSW	0	0	3	7	26	5	4	7	5	0	0	57
W	0	0	3	3	14	9	4	4	2	0	0	39
WNW	0	0	3	5	22	10	8	1	1	0	0	50
NW	0	0	1	5	20	4	1	0	0	0	0	31
NNW	0	0	3	6	19	2	0	0	0	0	0	30
Tot	0	2	30	77	241	100	62	36	38	0	0	586

Hours of Calm	0
Hours of Variable Direction	1
Hours of Valid Data	587
Hours of Missing Data	3
Hours in Period	2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class B - Moderately Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	0	0	0	0	0	0	0	1
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	1	0	3	1	0	0	0	0	0	5
ENE	0	0	0	0	4	0	0	0	0	0	0	4
E	0	0	1	1	1	0	0	0	0	0	0	3
ESE	0	0	0	0	0	0	0	1	0	0	0	1
SE	0	2	0	0	0	1	1	0	0	0	0	4
SSE	0	0	0	0	1	1	2	1	0	0	0	5
S	0	0	0	0	0	1	1	1	0	0	0	3
SSW	0	0	1	0	2	2	0	1	0	0	0	6
SW	0	1	0	0	0	1	0	0	1	0	0	3
WSW	0	0	0	2	2	2	0	0	1	0	0	7
W	0	0	0	1	2	2	0	0	0	0	0	5
WNW	0	0	0	0	1	1	0	1	0	0	0	3
NW	0	0	1	0	2	1	0	0	0	0	0	4
NNW	0	0	0	0	0	0	0	0	0	0	0	0
Tot	0	3	4	5	18	13	4	5	2	0	0	54

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

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class C - Slightly Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	0	0	0	0	0	0	0	0	1
NNE	0	0	1	0	1	0	0	0	0	0	0	2
NE	0	1	0	0	2	0	0	0	0	0	0	3
ENE	0	0	0	0	3	0	0	0	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	0	0	0	2
SE	0	0	0	2	2	1	1	0	0	0	0	6
SSE	0	0	0	0	2	3	0	0	0	0	0	5
S	0	0	0	1	1	2	0	3	1	0	0	8
SSW	0	0	1	0	1	1	2	0	1	0	0	6
SW	0	0	0	0	0	0	2	1	0	0	0	3
WSW	0	0	0	0	1	1	0	0	1	0	0	3
W	0	0	1	0	3	3	1	0	0	0	0	8
WNW	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	1	0	0	0	0	0	1
NNW	0	0	0	4	0	0	0	0	0	0	0	4
Tot	0	1	4	7	18	13	6	4	3	0	0	56

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 56
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class D - Neutral

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	3	3	1	0	1	0	0	0	0	0	8
NNE	0	2	4	4	2	0	1	0	0	0	0	13
NE	0	2	1	4	3	4	0	0	0	0	0	14
ENE	0	0	1	3	10	1	0	0	0	0	0	15
E	0	0	1	3	13	2	1	0	0	0	0	20
ESE	0	1	3	1	2	4	2	0	0	0	0	13
SE	0	1	1	2	2	4	7	0	0	0	0	17
SSE	0	0	1	4	8	3	2	0	0	0	0	18
S	0	0	2	0	13	5	6	7	12	0	0	45
SSW	0	0	1	5	4	13	2	0	1	0	0	26
SW	0	0	1	2	8	6	2	1	2	0	0	22
WSW	0	1	1	4	3	3	1	1	0	0	0	14
W	0	0	1	5	4	4	0	0	0	0	0	14
WNW	0	1	5	3	8	2	1	1	0	0	0	21
NW	0	2	3	2	4	2	0	0	0	0	0	13
NNW	0	2	4	4	6	2	0	0	0	0	0	18
Tot	0	15	33	47	90	56	25	10	15	0	0	291

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 291
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class E - Slightly Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	6	11	6	4	1	0	1	0	0	0	29
NNE	0	7	15	5	2	0	0	0	0	0	0	29
NE	0	2	11	17	13	4	0	0	0	0	0	47
ENE	0	4	5	14	23	1	0	0	0	0	0	47
E	1	5	13	11	30	14	0	0	0	0	0	74
ESE	0	2	4	5	21	14	2	2	0	0	0	50
SE	0	3	3	2	20	23	10	1	0	0	0	62
SSE	0	1	5	6	20	16	11	5	2	0	0	66
S	0	1	7	8	21	14	9	4	2	1	0	67
SSW	0	4	6	8	19	9	4	3	2	0	0	55
SW	0	2	8	16	8	7	4	1	0	0	0	46
WSW	0	1	6	7	7	3	2	0	0	0	0	26
W	0	0	3	10	13	2	2	0	0	0	0	30
WNW	0	1	6	8	14	4	2	0	0	0	0	35
NW	0	5	7	4	9	2	0	0	0	0	0	27
NNW	0	6	14	8	13	1	1	0	0	0	0	43
Tot	1	50	124	135	237	115	47	17	6	1	0	733

Hours of Calm 11
Hours of Variable Direction 1
Hours of Valid Data 745
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class F - Moderately Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	11	10	1	1	0	0	0	0	0	0	23
NNE	0	7	9	0	0	0	0	0	0	0	0	16
NE	0	3	2	2	2	0	0	0	0	0	0	9
ENE	0	4	0	2	0	0	0	0	0	0	0	6
E	0	2	4	2	6	0	0	0	0	0	0	14
ESE	0	4	7	6	13	1	1	0	0	0	0	32
SE	0	1	3	0	8	4	0	0	0	0	0	16
SSE	0	1	4	3	8	2	0	0	0	0	0	18
S	0	5	1	4	8	4	0	0	0	0	0	22
SSW	0	4	6	7	1	1	1	0	0	0	0	20
SW	0	0	7	16	12	1	0	0	0	0	0	36
WSW	0	1	4	5	2	0	0	0	0	0	0	12
W	0	1	1	4	0	0	0	0	0	0	0	6
WNW	0	1	11	2	1	0	1	0	0	0	0	16
NW	0	4	14	4	2	0	0	0	0	0	0	24
NNW	0	18	9	3	0	0	0	0	0	0	0	30
Tot	0	67	92	61	64	13	3	0	0	0	0	300

Hours of Calm 30
Hours of Variable Direction 0
Hours of Valid Data 330
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class G - Extremely Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	4	5	0	0	0	0	0	0	0	0	9
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	3	0	0	0	0	0	0	0	0	0	3
ENE	0	1	0	0	0	0	0	0	0	0	0	1
E	0	2	0	0	0	0	0	0	0	0	0	2
ESE	0	0	1	1	0	0	0	0	0	0	0	2
SE	0	1	1	0	1	0	0	0	0	0	0	3
SSE	0	2	0	0	0	0	0	0	0	0	0	2
S	0	2	1	0	0	0	0	0	0	0	0	3
SSW	0	1	6	2	0	0	0	0	0	0	0	9
SW	0	3	5	4	7	0	0	0	0	0	0	19
WSW	0	6	3	2	0	0	0	0	0	0	0	11
W	0	2	0	2	0	0	0	0	0	0	0	4
WNW	0	5	3	0	0	0	0	0	0	0	0	8
NW	0	5	10	0	0	0	0	0	0	0	0	15
NNW	0	10	5	1	0	0	0	0	0	0	0	16
Tot	0	47	40	12	8	0	0	0	0	0	0	107

Hours of Calm 35
Hours of Variable Direction 0
Hours of Valid Data 142
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2007

All Stabilities

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	2	1	7	21	30	17	6	4	0	1	89
NNE	0	0	5	9	23	26	26	11	6	1	0	107
NE	0	1	7	6	56	35	15	9	5	0	0	134
ENE	0	3	5	12	60	55	4	0	0	0	0	139
E	0	2	6	8	40	35	38	15	1	0	0	145
ESE	0	5	9	8	14	16	25	12	5	0	0	94
SE	0	4	6	6	20	33	37	29	10	0	0	145
SSE	0	5	1	3	25	38	21	18	21	3	0	135
S	0	0	7	6	26	35	28	38	37	14	1	192
SSW	0	2	2	8	35	41	58	32	25	11	0	214
SW	0	5	7	6	36	37	32	21	24	16	0	184
WSW	0	3	5	17	39	29	20	10	9	9	1	142
W	0	1	4	10	25	30	24	9	8	2	0	113
WNW	0	2	4	6	23	37	19	13	10	5	0	119
NW	0	1	2	12	26	34	21	15	9	1	0	121
NNW	0	2	4	5	20	32	26	21	9	1	0	120
Tot	0	38	75	129	489	543	411	259	183	63	3	2193

Hours of Calm 10
Hours of Variable Direction 2
Hours of Valid Data 2205
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class A - Extremely Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	7	3	2	0	1	0	0	14
NNE	0	0	1	4	9	7	12	6	2	0	0	41
NE	0	0	1	2	17	11	5	3	3	0	0	42
ENE	0	0	0	4	18	19	2	0	0	0	0	43
E	0	0	1	1	7	9	6	0	0	0	0	24
ESE	0	0	0	0	0	7	1	0	0	0	0	8
SE	0	0	1	0	4	2	0	3	0	0	0	10
SSE	0	1	0	0	14	7	4	2	1	0	0	29
S	0	0	0	1	10	3	7	10	7	2	0	40
SSW	0	0	0	0	6	14	11	16	14	7	0	68
SW	0	0	2	2	8	8	7	5	14	12	0	58
WSW	0	0	2	5	15	19	3	3	6	6	0	59
W	0	0	3	3	5	8	5	3	6	2	0	35
WNW	0	0	0	3	4	16	3	9	4	3	0	42
NW	0	0	0	7	6	13	8	2	4	0	0	40
NNW	0	0	1	1	5	11	11	3	1	0	0	33
Tot	0	1	12	34	135	157	87	65	63	32	0	586

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 587
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class B - Moderately Unstable

Elevations: Winds 150ft Stability 150ft

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

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

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class C - Slightly Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	0	0	0	0	0	0	0	1
NNE	0	0	0	0	1	0	1	2	0	0	0	4
NE	0	0	0	0	0	1	0	0	0	0	0	1
ENE	0	1	0	0	0	2	0	0	0	0	0	3
E	0	0	0	0	0	1	0	0	0	0	0	1
ESE	0	0	0	0	1	0	1	0	0	0	0	2
SE	0	0	0	1	4	1	1	0	0	0	0	7
SSE	0	0	0	0	0	4	0	0	0	0	0	4
S	0	0	0	1	1	2	0	0	3	1	0	8
SSW	0	0	0	1	0	1	1	2	0	1	0	6
SW	0	0	0	0	0	0	0	1	2	0	0	3
WSW	0	0	0	0	0	1	1	1	0	0	1	4
W	0	0	0	1	1	3	1	1	0	0	0	7
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	3	1	0	0	0	0	0	4
Tot	0	1	0	5	11	17	6	7	6	2	1	56

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 56
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class D - Neutral

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	0	1	3	3	2	0	1	0	0	11
NNE	0	0	0	1	2	0	0	2	3	1	0	9
NE	0	0	2	0	6	3	2	0	0	0	0	13
ENE	0	1	1	2	6	10	1	0	0	0	0	21
E	0	0	0	0	3	7	7	2	0	0	0	19
ESE	0	1	2	1	1	1	3	1	0	0	0	10
SE	0	0	1	2	1	4	2	4	2	0	0	16
SSE	0	0	0	2	4	5	4	1	1	0	0	17
S	0	0	0	2	4	6	3	5	11	10	0	41
SSW	0	0	0	2	9	4	12	3	0	1	0	31
SW	0	1	0	0	5	8	3	3	2	2	0	24
WSW	0	0	0	3	3	2	4	0	1	1	0	14
W	0	0	0	0	4	3	2	3	0	0	0	12
WNW	0	0	4	0	8	5	5	0	1	1	0	24
NW	0	1	0	1	1	2	2	4	0	0	0	11
NNW	0	0	0	1	7	0	2	6	2	0	0	18
Tot	0	5	10	18	67	63	54	34	24	16	0	291

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 291
Hours of Missing Data 3
Hours in Period 2208

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METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class E - Slightly Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	3	3	6	9	5	2	0	1	29
NNE	0	0	3	3	5	9	5	1	1	0	0	27
NE	0	0	1	2	17	13	7	4	2	0	0	46
ENE	0	1	2	4	27	22	1	0	0	0	0	57
E	0	0	2	2	16	13	21	12	1	0	0	67
ESE	0	1	5	6	9	5	14	9	4	0	0	53
SE	0	1	2	1	4	15	22	15	6	0	0	66
SSE	0	1	0	1	6	16	8	12	17	3	0	64
S	0	0	5	0	8	18	12	11	15	1	1	71
SSW	0	2	1	0	11	12	15	10	8	2	0	61
SW	0	1	0	1	15	9	12	7	5	1	0	51
WSW	0	0	0	2	4	3	4	3	2	1	0	19
W	0	0	0	0	8	9	9	2	2	0	0	30
WNW	0	1	0	2	8	9	10	4	4	0	0	38
NW	0	0	1	0	10	4	3	6	3	1	0	28
NNW	0	0	1	1	2	7	8	10	6	1	0	36
Tot	0	8	23	28	153	170	160	111	78	10	2	743

Hours of Calm	1
Hours of Variable Direction	1
Hours of Valid Data	745
Hours of Missing Data	3
Hours in Period	2208

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METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class F - Moderately Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	0	1	6	10	4	1	0	0	0	23
NNE	0	0	1	1	5	7	6	0	0	0	0	20
NE	0	0	1	0	14	5	1	0	0	0	0	21
ENE	0	0	2	2	5	0	0	0	0	0	0	9
E	0	1	1	3	10	3	4	1	0	0	0	23
ESE	0	1	1	1	3	3	6	2	0	0	0	17
SE	0	0	1	2	7	11	9	5	2	0	0	37
SSE	0	1	1	0	0	4	5	2	0	0	0	13
S	0	0	2	1	2	6	5	10	1	0	0	27
SSW	0	0	1	2	7	5	12	1	2	0	0	30
SW	0	1	1	1	4	9	9	5	1	0	0	31
WSW	0	1	1	1	8	2	2	1	0	0	0	16
W	0	0	0	2	0	3	4	0	0	0	0	9
WNW	0	1	0	0	2	5	0	0	1	0	0	9
NW	0	0	1	2	3	9	8	2	1	0	0	26
NNW	0	0	1	2	1	7	3	2	0	0	0	16
Tot	0	7	15	21	77	89	78	32	8	0	0	327

Hours of Calm 3
Hours of Variable Direction 0
Hours of Valid Data 330
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class G - Extremely Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5- 1.0	1.1- 1.5	1.6- 2.0	2.1- 3.0	3.1- 4.0	4.1- 5.0	5.1- 6.0	6.1- 8.0	8.1- 10.0	>10.00	
N	0	0	1	0	2	7	0	0	0	0	0	10
NNE	0	0	0	0	1	3	1	0	0	0	0	5
NE	0	1	2	1	2	1	0	0	0	0	0	7
ENE	0	0	0	0	1	0	0	0	0	0	0	1
E	0	1	2	1	4	1	0	0	0	0	0	9
ESE	0	2	1	0	0	0	0	0	0	0	0	3
SE	0	2	1	0	0	0	2	1	0	0	0	6
SSE	0	1	0	0	0	1	0	0	0	0	0	2
S	0	0	0	1	1	0	0	0	0	0	0	2
SSW	0	0	0	2	1	2	7	0	0	0	0	12
SW	0	1	4	2	4	3	0	0	0	0	0	14
WSW	0	2	2	5	6	2	6	0	0	0	0	23
W	0	1	1	4	5	3	1	0	0	0	0	15
WNW	0	0	0	1	1	2	0	0	0	0	0	4
NW	0	0	0	2	4	4	0	0	0	0	0	10
NNW	0	2	1	0	2	6	2	0	0	0	0	13
Tot	0	13	15	19	34	35	19	1	0	0	0	136

Hours of Calm 6
Hours of Variable Direction 0
Hours of Valid Data 142
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2007

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	6	14	14	11	9	18	8	1	82
NNE	0	3	1	2	13	17	25	21	26	4	0	112
NE	0	2	2	4	21	33	23	23	23	0	0	131
ENE	0	1	4	5	39	62	28	7	0	0	0	146
E	0	1	6	11	18	36	24	20	24	1	0	141
ESE	0	1	5	5	17	12	12	11	20	8	0	91
SE	0	4	6	7	16	14	17	24	44	8	0	140
SSE	0	1	4	1	18	19	20	26	36	16	2	143
S	0	1	5	6	14	15	23	31	43	45	13	196
SSW	0	2	3	6	18	33	37	36	49	23	6	213
SW	0	4	4	6	20	21	26	22	59	24	5	191
WSW	0	3	6	8	36	33	17	14	14	11	4	146
W	0	0	2	4	19	30	20	17	21	5	2	120
WNW	0	2	3	6	11	23	31	18	18	8	2	122
NW	0	1	1	4	14	20	22	17	31	7	1	118
NNW	0	3	2	6	13	10	17	19	31	6	0	107
Tot	0	29	55	87	301	392	353	315	457	174	36	2199

Hours of Calm	4
Hours of Variable Direction	2
Hours of Valid Data	2205
Hours of Missing Data	3
Hours in Period	2208

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class A - Extremely Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	3	2	2	1	1	1	0	0	10
NNE	0	0	0	1	2	5	7	2	3	0	0	20
NE	0	0	1	0	5	10	5	1	0	0	0	22
ENE	0	0	0	0	11	11	0	0	0	0	0	22
E	0	0	0	2	4	2	0	0	0	0	0	8
ESE	0	0	0	0	0	3	1	0	0	0	0	4
SE	0	0	0	0	3	1	1	0	0	0	0	5
SSE	0	0	0	0	2	2	0	2	1	0	0	7
S	0	0	0	0	0	1	1	0	1	0	0	3
SSW	0	0	0	0	1	0	8	6	5	2	1	23
SW	0	0	0	0	1	0	2	3	2	4	1	13
WSW	0	0	0	0	6	6	1	1	3	5	1	23
W	0	0	1	1	2	5	3	0	3	2	2	19
WNW	0	0	0	1	3	4	5	1	4	0	1	19
NW	0	0	0	1	1	8	9	5	3	2	0	29
NNW	0	0	1	2	3	4	6	5	1	0	0	22
Tot	0	0	3	11	46	64	50	27	27	15	6	249

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 249
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class B - Moderately Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	3	2	0	0	0	0	0	5
NNE	0	0	0	1	3	3	0	3	1	0	0	11
NE	0	0	0	1	2	3	0	2	2	0	0	10
ENE	0	0	0	0	7	6	1	0	0	0	0	14
E	0	0	0	2	2	2	3	0	0	0	0	9
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	1	0	0	0	0	1
SSE	0	0	0	0	5	3	1	1	1	0	0	11
S	0	0	0	0	3	1	2	3	3	4	0	16
SSW	0	0	0	2	1	3	2	5	9	1	0	23
SW	0	0	0	0	2	1	3	1	5	4	0	16
WSW	0	0	1	1	5	6	2	0	1	2	0	18
W	0	0	0	1	0	0	1	0	1	0	0	3
WNW	0	0	0	0	1	2	1	3	0	1	1	9
NW	0	0	0	0	3	0	1	1	0	1	0	6
NNW	0	0	0	0	1	2	0	1	0	0	0	4
Tot	0	0	1	8	38	34	18	20	23	13	1	156

Hours of Calm 0
Hours of Variable Direction 1
Hours of Valid Data 157
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class C - Slightly Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	2	1	0	0	0	0	0	3
NNE	0	0	0	0	1	1	2	1	0	0	0	5
NE	0	0	1	2	0	3	1	0	2	0	0	9
ENE	0	0	0	1	2	2	2	0	0	0	0	7
E	0	0	0	0	2	2	2	2	0	0	0	8
ESE	0	0	1	0	0	0	1	0	0	0	0	2
SE	0	0	1	0	1	3	2	2	1	0	0	10
SSE	0	0	0	0	5	2	0	1	2	0	0	10
S	0	0	0	0	3	0	2	6	2	0	1	14
SSW	0	0	0	1	4	5	3	4	2	3	0	22
SW	0	0	1	0	2	3	6	0	3	6	1	22
WSW	0	1	1	2	5	5	2	1	1	1	0	19
W	0	0	0	1	2	0	2	3	1	1	0	10
WNW	0	0	0	0	0	2	3	1	2	0	0	8
NW	0	0	0	0	2	1	2	1	1	0	0	7
NNW	0	0	0	0	0	0	2	0	1	0	0	3
Tot	0	1	5	7	31	30	32	22	18	11	2	159

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 159
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class D - Neutral

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)										Total	
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0		>10.00
N	0	0	0	1	4	3	3	1	1	2	0	15
NNE	0	0	0	0	3	4	6	5	4	3	0	25
NE	0	1	0	1	5	2	2	6	3	0	0	20
ENE	0	0	2	1	9	21	13	1	0	0	0	47
E	0	1	2	4	2	12	9	0	7	0	0	37
ESE	0	0	0	1	1	2	1	6	3	0	0	14
SE	0	2	2	3	5	3	5	4	4	0	0	28
SSE	0	0	0	0	4	8	7	4	4	0	0	27
S	0	0	0	1	5	8	5	4	13	18	8	62
SSW	0	1	1	2	7	10	12	5	3	1	3	45
SW	0	1	0	2	4	6	4	7	9	4	1	38
WSW	0	1	1	3	9	3	3	6	3	2	2	33
W	0	0	0	0	4	7	5	4	5	1	0	26
WNW	0	1	2	2	4	8	8	6	3	2	0	36
NW	0	0	0	2	3	2	5	0	8	1	0	21
NNW	0	1	0	1	2	1	4	3	10	1	0	23
Tot	0	9	10	24	71	100	92	62	80	35	14	497

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 497
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class E - Slightly Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)										Total	
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0		>10.00
N	0	0	0	2	3	4	4	5	13	5	1	37
NNE	0	2	1	0	2	3	8	6	7	0	0	29
NE	0	1	0	0	6	9	10	7	11	0	0	44
ENE	0	0	1	3	9	22	12	6	0	0	0	53
E	0	0	2	2	4	10	7	15	14	1	0	55
ESE	0	0	4	3	13	5	6	5	11	6	0	53
SE	0	0	1	2	5	6	7	13	19	6	0	59
SSE	0	0	3	0	0	4	7	15	21	15	2	67
S	0	0	1	2	3	5	11	15	18	17	4	76
SSW	0	0	0	0	4	11	7	10	26	13	0	71
SW	0	0	2	0	8	8	6	7	27	4	2	64
WSW	0	1	3	0	6	9	4	2	4	1	1	31
W	0	0	0	0	4	9	4	5	6	1	0	29
WNW	0	0	0	3	2	3	11	3	8	4	0	34
NW	0	0	1	0	5	5	1	4	14	3	1	34
NNW	0	0	1	0	4	2	2	5	12	4	0	30
Tot	0	4	20	17	78	115	107	123	211	80	11	766

Hours of Calm 1
Hours of Variable Direction 1
Hours of Valid Data 768
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class F - Moderately Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	0	0	2	3	2	3	1	0	12
NNE	0	1	0	0	2	1	1	0	10	1	0	16
NE	0	0	0	0	2	6	4	6	3	0	0	21
ENE	0	1	1	0	0	0	0	0	0	0	0	2
E	0	0	2	0	4	8	3	3	2	0	0	22
ESE	0	1	0	1	3	2	3	0	6	2	0	18
SE	0	1	2	2	2	1	1	5	17	2	0	33
SSE	0	1	1	0	2	0	5	3	7	1	0	20
S	0	1	2	2	0	0	2	3	6	6	0	22
SSW	0	1	1	1	1	3	2	3	2	3	2	19
SW	0	2	1	2	1	2	3	4	12	2	0	29
WSW	0	0	0	2	4	1	2	2	2	0	0	13
W	0	0	1	1	5	6	3	2	5	0	0	23
WNW	0	0	1	0	1	4	2	3	1	1	0	13
NW	0	0	0	1	0	2	4	3	4	0	0	14
NNW	0	2	0	0	1	0	2	5	7	1	0	18
Tot	0	11	13	12	28	38	40	44	87	20	2	295

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 295
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: July through September 2007

Stability Class G - Extremely Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	1	4	1	0	0	6
NE	0	0	0	0	1	0	1	1	2	0	0	5
ENE	0	0	0	0	1	0	0	0	0	0	0	1
E	0	0	0	1	0	0	0	0	1	0	0	2
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	1	0	0	0	0	0	0	3	0	0	4
SSE	0	0	0	1	0	0	0	0	0	0	0	1
S	0	0	2	1	0	0	0	0	0	0	0	3
SSW	0	0	1	0	0	1	3	3	2	0	0	10
SW	0	1	0	2	2	1	2	0	1	0	0	9
WSW	0	0	0	0	1	3	3	2	0	0	0	9
W	0	0	0	0	2	3	2	3	0	0	0	10
WNW	0	1	0	0	0	0	1	1	0	0	0	3
NW	0	1	0	0	0	2	0	3	1	0	0	7
NNW	0	0	0	3	2	1	1	0	0	0	0	7
Tot	0	4	3	8	9	11	14	17	11	0	0	77

Hours of Calm 3
Hours of Variable Direction 0
Hours of Valid Data 80
Hours of Missing Data 3
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

Period: October through December 2007

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

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	11	13	11	17	8	3	2	4	0	0	69
NNE	0	5	9	11	27	13	10	6	0	0	0	81
NE	0	4	6	6	17	17	7	5	0	0	0	62
ENE	0	1	8	7	19	1	1	2	0	0	0	39
E	0	4	5	8	32	23	7	1	0	0	0	80
ESE	0	4	8	10	38	34	17	11	3	0	0	125
SE	0	3	6	2	33	12	12	11	6	3	0	88
SSE	0	4	6	18	59	48	31	16	16	3	1	202
S	0	5	10	20	52	41	33	22	26	7	2	218
SSW	0	8	13	19	37	31	28	23	10	7	8	184
SW	0	5	15	30	40	28	13	14	8	3	1	157
WSW	0	2	10	16	17	16	7	16	10	7	15	116
W	0	7	17	9	27	22	22	22	20	1	0	147
WNW	0	9	15	19	38	35	42	32	29	0	0	219
NW	0	7	17	14	42	31	25	24	14	0	0	174
NNW	0	8	24	39	45	19	9	12	1	1	0	158
Tot	0	87	182	239	540	379	267	219	147	32	27	2119

Hours of Calm 6
Hours of Variable Direction 1
Hours of Valid Data 2126
Hours of Missing Data 82
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class A - Extremely Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	4	1	1	0	0	0	0	7
NNE	0	0	1	1	1	1	0	0	0	0	0	4
NE	0	0	0	0	2	0	1	2	0	0	0	5
ENE	0	0	2	0	0	0	0	2	0	0	0	4
E	0	0	0	1	0	2	0	0	0	0	0	3
ESE	0	0	0	1	0	1	1	0	0	0	0	3
SE	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	3	0	0	0	0	0	3
S	0	0	0	1	0	4	5	5	1	0	0	16
SSW	0	0	0	0	0	3	5	2	0	0	0	10
SW	0	0	1	2	4	4	0	6	1	0	0	18
WSW	0	0	1	3	5	5	1	2	2	0	1	20
W	0	0	0	0	1	1	0	4	1	0	0	7
WNW	0	0	0	0	3	2	9	6	3	0	0	23
NW	0	0	0	2	1	6	5	12	3	0	0	29
NNW	0	0	0	3	4	0	1	2	0	0	0	10
Tot	0	0	5	15	25	33	29	43	11	0	1	162

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 162
Hours of Missing Data 82
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class B - Moderately Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	1	1	2	1	0	0	0	0	5
NNE	0	0	1	0	1	1	0	0	0	0	0	3
NE	0	0	0	0	0	0	1	0	0	0	0	1
ENE	0	0	0	2	0	0	1	0	0	0	0	3
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	1	0	0	0	1
SSE	0	0	0	0	1	2	1	0	0	0	0	4
S	0	0	0	0	0	1	2	1	0	0	0	4
SSW	0	0	0	0	2	1	0	1	0	1	2	7
SW	0	0	0	0	1	1	0	1	1	0	0	4
WSW	0	0	0	0	0	1	0	0	0	0	1	2
W	0	0	0	1	0	0	0	1	1	0	0	3
WNW	0	0	0	0	0	0	0	4	0	0	0	4
NW	0	0	0	0	1	0	2	2	1	0	0	6
NNW	0	0	0	1	3	0	1	0	0	0	0	5
Tot	0	0	1	5	10	9	9	11	3	1	3	52

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 52
Hours of Missing Data 82
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class C - Slightly Unstable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	1	0	0	0	0	0	0	0	1
NE	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	1	0	0	0	0	0	0	1
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	1	1	0	0	0	0	2
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	1	0	4	2	1	0	0	0	8
SSW	0	0	0	0	1	1	3	1	1	0	2	9
SW	0	0	0	0	0	0	0	2	0	0	0	2
WSW	0	0	0	0	1	1	1	0	0	0	2	5
W	0	0	0	0	1	2	0	1	0	0	0	4
WNW	0	0	0	1	1	0	1	0	0	0	0	3
NW	0	0	0	0	0	1	1	0	1	0	0	3
NNW	0	0	0	1	1	0	1	1	0	0	0	4
Tot	0	0	0	4	6	10	10	6	2	0	4	42

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 42
Hours of Missing Data 82
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class D - Neutral

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	5	7	7	2	1	2	4	0	0	29
NNE	0	2	1	4	20	11	8	6	0	0	0	52
NE	0	1	1	3	9	13	3	3	0	0	0	33
ENE	0	0	2	0	12	0	0	0	0	0	0	14
E	0	0	0	1	19	13	7	1	0	0	0	41
ESE	0	0	1	1	13	13	8	6	2	0	0	44
SE	0	1	1	1	7	2	4	6	0	2	0	24
SSE	0	0	1	1	13	15	21	5	8	2	0	66
S	0	0	0	2	8	13	10	4	10	4	1	52
SSW	0	1	1	4	14	12	12	8	3	4	4	63
SW	0	2	1	3	8	8	5	2	2	3	1	35
WSW	0	0	2	0	5	3	2	4	6	7	11	40
W	0	2	7	3	14	11	14	13	15	1	0	80
WNW	0	4	5	3	10	13	10	15	19	0	0	79
NW	0	1	4	2	13	10	10	6	8	0	0	54
NNW	0	2	6	13	16	7	4	9	1	1	0	59
Tot	0	17	38	48	188	146	119	90	78	24	17	765

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 765
Hours of Missing Data 82
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class E - Slightly Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	4	7	2	5	3	0	0	0	0	0	21
NNE	0	3	5	4	5	0	2	0	0	0	0	19
NE	0	2	4	1	6	4	2	0	0	0	0	19
ENE	0	0	3	5	6	1	0	0	0	0	0	15
E	0	1	3	6	13	8	0	0	0	0	0	31
ESE	0	1	1	5	22	20	8	5	1	0	0	63
SE	0	1	3	0	20	8	7	4	6	1	0	50
SSE	0	2	2	10	36	27	9	11	8	1	1	107
S	0	2	4	8	30	16	13	11	15	3	1	103
SSW	0	4	4	7	15	13	8	11	6	2	0	70
SW	0	1	3	6	7	8	8	3	4	0	0	40
WSW	0	1	3	7	4	5	3	10	2	0	0	35
W	0	3	4	5	11	8	8	3	3	0	0	45
WNW	0	1	4	13	21	16	21	7	7	0	0	90
NW	0	2	6	3	27	14	7	4	1	0	0	64
NNW	0	3	10	10	19	12	2	0	0	0	0	56
Tot	0	31	66	92	247	163	98	69	53	7	2	828

Hours of Calm	1
Hours of Variable Direction	1
Hours of Valid Data	830
Hours of Missing Data	82
Hours in Period	2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class F - Moderately Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	4	0	0	0	0	0	0	0	0	0	4
NNE	0	0	0	1	0	0	0	0	0	0	0	1
NE	0	0	1	2	0	0	0	0	0	0	0	3
ENE	0	1	0	0	0	0	0	0	0	0	0	1
E	0	1	2	0	0	0	0	0	0	0	0	3
ESE	0	1	2	3	2	0	0	0	0	0	0	8
SE	0	0	1	1	6	1	0	0	0	0	0	9
SSE	0	0	2	7	9	1	0	0	0	0	0	19
S	0	1	5	6	12	3	1	0	0	0	0	28
SSW	0	2	8	6	4	1	0	0	0	0	0	21
SW	0	1	5	13	18	7	0	0	0	0	0	44
WSW	0	0	0	3	2	1	0	0	0	0	0	6
W	0	0	4	0	0	0	0	0	0	0	0	4
WNW	0	3	5	2	3	4	1	0	0	0	0	18
NW	0	3	4	5	0	0	0	0	0	0	0	12
NNW	0	2	5	10	2	0	0	0	0	0	0	19
Tot	0	19	44	59	58	18	2	0	0	0	0	200

Hours of Calm 2
Hours of Variable Direction 0
Hours of Valid Data 202
Hours of Missing Data 82
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class G - Extremely Stable

Elevations: Winds 35ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	2	1	0	0	0	0	0	0	0	0	3
NNE	0	0	1	0	0	0	0	0	0	0	0	1
NE	0	1	0	0	0	0	0	0	0	0	0	1
ENE	0	0	1	0	0	0	0	0	0	0	0	1
E	0	2	0	0	0	0	0	0	0	0	0	2
ESE	0	2	4	0	1	0	0	0	0	0	0	7
SE	0	1	1	0	0	0	0	0	0	0	0	2
SSE	0	2	1	0	0	0	0	0	0	0	0	3
S	0	2	1	2	2	0	0	0	0	0	0	7
SSW	0	1	0	2	1	0	0	0	0	0	0	4
SW	0	1	5	6	2	0	0	0	0	0	0	14
WSW	0	1	4	3	0	0	0	0	0	0	0	8
W	0	2	2	0	0	0	0	0	0	0	0	4
WNW	0	1	1	0	0	0	0	0	0	0	0	2
NW	0	1	3	2	0	0	0	0	0	0	0	6
NNW	0	1	3	1	0	0	0	0	0	0	0	5
Tot	0	20	28	16	6	0	0	0	0	0	0	70

Hours of Calm 3
Hours of Variable Direction 0
Hours of Valid Data 73
Hours of Missing Data 82
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

All Stabilities

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	2	4	4	25	18	8	6	14	3	4	88
NNE	0	0	3	5	11	13	14	14	14	10	0	84
NE	0	1	1	7	11	9	11	12	10	1	0	63
ENE	0	0	0	6	14	16	2	0	1	0	0	39
E	0	0	1	5	9	14	18	12	6	0	0	65
ESE	0	0	1	7	9	24	24	27	20	0	0	112
SE	0	1	2	1	11	27	18	14	19	7	3	103
SSE	0	0	2	2	12	35	51	35	28	13	4	182
S	0	1	2	3	14	37	63	40	41	22	15	238
SSW	0	0	1	3	22	39	40	32	31	8	15	191
SW	0	0	5	4	14	29	32	17	37	4	8	150
WSW	0	0	3	4	18	21	12	7	19	14	27	125
W	0	0	3	10	17	34	22	18	40	25	1	170
WNW	0	1	2	8	11	17	25	34	47	34	15	194
NW	0	0	0	5	14	18	32	29	32	30	8	168
NNW	0	2	1	3	16	20	37	11	33	12	1	136
Tot	0	8	31	77	228	371	409	308	392	183	101	2108

Hours of Calm 1
Hours of Variable Direction 1
Hours of Valid Data 2110
Hours of Missing Data 98
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class A - Extremely Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	2	2	1	1	2	2	1	0	12
NNE	0	0	0	0	1	0	0	1	0	0	0	2
NE	0	0	0	0	1	1	0	0	4	0	0	6
ENE	0	0	0	2	0	0	0	0	1	0	0	3
E	0	0	0	1	0	0	2	0	0	0	0	3
ESE	0	0	0	0	1	0	1	1	0	0	0	3
SE	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	1	2	0	0	0	0	3
S	0	0	0	0	1	2	4	3	5	1	0	16
SSW	0	0	0	0	1	2	4	4	0	0	0	11
SW	0	0	0	1	3	2	2	0	6	1	0	15
WSW	0	0	0	1	5	5	2	1	3	1	1	19
W	0	0	0	2	1	2	0	0	5	2	0	12
WNW	0	0	0	1	2	2	1	4	7	6	0	23
NW	0	0	0	0	1	0	1	4	7	11	2	26
NNW	0	0	0	0	2	2	2	0	3	0	0	9
Tot	0	0	1	10	21	20	22	20	43	23	3	163

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 163
Hours of Missing Data 98
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class B - Moderately Unstable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	2	0	1	0	3	0	0	6
NNE	0	0	1	0	0	0	1	1	0	0	0	3
NE	0	0	0	0	0	0	0	1	1	0	0	2
ENE	0	0	0	1	1	0	0	0	0	0	0	2
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	1	0	0	2
SSE	0	0	0	0	1	0	3	0	0	0	0	4
S	0	0	0	0	0	0	1	1	1	0	0	3
SSW	0	0	0	0	0	3	0	0	1	0	3	7
SW	0	0	0	0	0	2	1	0	2	0	0	5
WSW	0	0	0	0	0	0	0	0	0	0	1	1
W	0	0	0	1	0	0	0	0	1	1	0	3
WNW	0	0	0	0	0	0	0	0	4	0	0	4
NW	0	0	0	0	0	1	0	0	1	3	1	6
NNW	0	0	0	0	0	2	1	0	1	0	0	4
Tot	0	0	1	2	4	9	8	3	16	4	5	52

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 52
Hours of Missing Data 98
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class C - Slightly Unstable

Elevations: Winds 150ft Stability 150ft

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

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 41
Hours of Missing Data 98
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class D - Neutral

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	1	0	11	5	3	1	3	2	4	30
NNE	0	0	1	2	3	11	11	9	10	10	0	57
NE	0	0	0	2	3	5	7	9	3	1	0	30
ENE	0	0	0	1	6	9	1	0	0	0	0	17
E	0	0	0	0	2	10	9	8	6	0	0	35
ESE	0	0	0	2	2	11	6	15	8	0	0	44
SE	0	0	2	0	4	5	2	4	6	0	2	25
SSE	0	0	0	1	4	12	14	19	9	6	2	67
S	0	0	0	0	5	6	11	9	10	7	7	55
SSW	0	0	1	1	12	13	8	7	9	2	8	61
SW	0	0	0	1	3	6	7	4	5	0	6	32
WSW	0	0	1	1	3	2	4	0	6	4	23	44
W	0	0	1	5	4	13	12	11	18	17	0	81
WNW	0	1	0	3	3	6	6	7	12	19	12	69
NW	0	0	0	3	5	5	6	8	13	7	5	52
NNW	0	2	0	2	11	5	9	3	9	9	1	51
Tot	0	3	7	24	81	124	116	114	127	84	70	750

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 750
Hours of Missing Data 98
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class E - Slightly Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	0	1	6	8	3	2	6	0	0	27
NNE	0	0	1	2	5	1	2	3	4	0	0	18
NE	0	0	1	5	6	3	4	2	2	0	0	23
ENE	0	0	0	1	6	7	1	0	0	0	0	15
E	0	0	0	3	7	4	7	4	0	0	0	25
ESE	0	0	1	2	6	13	17	11	12	0	0	62
SE	0	1	0	0	3	12	6	9	12	7	1	51
SSE	0	0	1	0	4	21	26	16	19	7	2	96
S	0	1	1	2	5	15	33	14	23	14	8	116
SSW	0	0	0	1	5	15	15	10	19	6	2	73
SW	0	0	0	1	4	7	7	6	15	3	2	45
WSW	0	0	1	0	6	5	1	1	9	9	0	32
W	0	0	1	1	5	10	8	7	14	5	1	52
WNW	0	0	1	1	3	7	15	19	21	9	3	79
NW	0	0	0	1	5	9	17	16	10	8	0	66
NNW	0	0	1	0	3	7	11	5	18	2	0	47
Tot	0	3	9	21	79	144	173	125	184	70	19	827

Hours of Calm 1
Hours of Variable Direction 1
Hours of Valid Data 829
Hours of Missing Data 98
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class F - Moderately Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	1	2	0	3	4	0	1	0	0	0	11
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	1	0	0	1	0	0	0	0	0	0	2
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	1	0	0	0	0	0	0	0	1
ESE	0	0	0	3	0	0	0	0	0	0	0	3
SE	0	0	0	0	3	5	5	0	0	0	0	13
SSE	0	0	1	1	3	1	6	0	0	0	0	12
S	0	0	0	1	2	11	11	11	1	0	0	37
SSW	0	0	0	0	3	4	10	7	0	0	0	24
SW	0	0	1	0	4	8	10	6	7	0	0	36
WSW	0	0	0	1	2	3	2	4	1	0	0	13
W	0	0	1	0	5	4	0	0	0	0	0	10
WNW	0	0	1	1	1	1	3	4	3	0	0	14
NW	0	0	0	1	0	3	6	0	0	0	0	10
NNW	0	0	0	0	0	3	10	2	1	0	0	16
Tot	0	2	6	9	27	47	63	35	13	0	0	202

Hours of Calm	0
Hours of Variable Direction	0
Hours of Valid Data	202
Hours of Missing Data	98
Hours in Period	2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class G - Extremely Stable

Elevations: Winds 150ft Stability 150ft

Wind Direction Sector	Wind Speed Range (m/s)										Total	
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0		>10.00
N	0	0	0	1	1	0	0	0	0	0	0	2
NNE	0	0	0	1	2	0	0	0	0	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	1	0	0	0	0	0	0	0	0	1
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	1	1	3	5	0	0	0	0	10
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	1	0	0	1	1	0	0	0	0	3
SSW	0	0	0	1	1	0	2	2	0	0	0	6
SW	0	0	4	1	0	4	5	1	0	0	0	15
WSW	0	0	1	1	1	6	2	0	0	0	0	11
W	0	0	0	1	1	5	0	0	0	0	0	7
WNW	0	0	0	2	1	0	0	0	0	0	0	3
NW	0	0	0	0	3	0	1	1	0	0	0	5
NNW	0	0	0	1	0	1	3	1	0	0	0	6
Tot	0	0	7	11	11	20	19	5	0	0	0	73

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 73
Hours of Missing Data 98
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

All Stabilities

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	11	12	9	10	31	15	8	96
NNE	0	0	2	2	8	10	13	18	14	12	5	84
NE	0	1	2	3	7	10	10	11	21	7	1	73
ENE	0	0	1	7	7	16	11	2	1	0	0	45
E	0	0	0	3	6	7	8	11	12	4	0	51
ESE	0	0	1	1	5	9	10	13	25	9	0	73
SE	0	0	2	2	6	9	15	18	36	19	6	113
SSE	0	0	0	2	9	15	25	33	43	15	14	156
S	0	0	0	1	12	12	25	35	80	44	37	246
SSW	0	0	3	2	9	14	36	31	64	37	23	219
SW	0	0	1	5	6	13	20	20	50	16	12	143
WSW	0	0	5	4	11	15	13	9	28	20	35	140
W	0	0	0	6	9	16	26	15	35	29	11	147
WNW	0	0	1	3	6	11	16	22	46	47	36	188
NW	0	1	4	1	13	9	11	19	59	38	29	184
NNW	0	1	0	1	5	15	12	19	43	27	7	130
Tot	0	3	22	43	130	193	260	286	588	339	224	2088

Hours of Calm	0
Hours of Variable Direction	0
Hours of Valid Data	2088
Hours of Missing Data	120
Hours in Period	2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class A - Extremely Unstable

Elevations: Winds 300ft Stability 300ft

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

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 27
Hours of Missing Data 120
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class B - Moderately Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	2	1	0	0	1	1	0	5
NNE	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	1	0	0	0	1	0	2
ENE	0	0	0	1	0	0	0	0	1	0	0	2
E	0	0	0	1	0	0	0	0	0	0	0	1
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	1	0	0	0	0	1
S	0	0	0	0	0	0	1	0	4	0	0	5
SSW	0	0	0	0	0	0	1	2	2	0	0	5
SW	0	0	0	0	1	1	0	0	2	0	0	4
WSW	0	0	0	2	2	2	2	0	1	0	0	9
W	0	0	0	0	1	0	1	0	1	1	0	4
WNW	0	0	0	0	0	1	0	0	3	2	0	6
NW	0	0	0	0	1	0	0	2	4	3	2	12
NNW	0	0	0	0	1	0	0	0	0	0	0	1
Tot	0	0	0	4	8	6	7	4	19	8	2	58

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 58
Hours of Missing Data 120
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class C - Slightly Unstable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	1	1	1	0	1	0	4
NNE	0	0	1	1	1	0	0	1	0	0	0	4
NE	0	0	0	0	1	0	0	1	0	0	0	2
ENE	0	0	0	1	0	0	0	0	0	0	0	1
E	0	0	0	0	0	0	0	1	0	0	0	1
ESE	0	0	0	0	1	0	0	2	0	0	0	3
SE	0	0	0	0	0	0	1	0	0	0	0	1
SSE	0	0	0	0	0	0	1	0	0	0	0	1
S	0	0	0	0	1	1	6	2	2	1	0	13
SSW	0	0	0	0	0	2	0	5	3	0	2	12
SW	0	0	0	0	0	0	1	0	3	1	0	5
WSW	0	0	0	0	0	0	1	2	0	1	3	7
W	0	0	0	1	1	0	0	0	0	1	1	4
WNW	0	0	0	0	1	1	0	0	0	0	1	3
NW	0	0	0	1	1	0	0	1	3	8	1	15
NNW	0	0	0	0	0	1	0	1	2	1	0	5
Tot	0	0	1	4	7	6	11	17	13	14	8	81

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 81
Hours of Missing Data 120
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class D -- Neutral

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	8	9	5	2	11	8	7	50
NNE	0	0	1	0	4	7	9	11	8	12	5	57
NE	0	0	1	0	2	3	7	6	17	4	1	41
ENE	0	0	0	1	2	14	8	2	0	0	0	27
E	0	0	0	0	4	5	6	7	10	3	0	35
ESE	0	0	0	1	3	5	9	9	17	5	0	49
SE	0	0	1	2	2	4	5	1	16	6	5	42
SSE	0	0	0	1	1	9	10	21	22	10	13	87
S	0	0	0	0	6	8	12	9	20	14	17	86
SSW	0	0	1	1	6	8	23	8	12	10	14	83
SW	0	0	0	3	2	6	10	4	13	2	6	46
WSW	0	0	1	1	3	2	6	3	4	8	28	56
W	0	0	0	3	5	9	15	7	17	23	9	88
WNW	0	0	1	3	4	3	9	11	21	20	33	105
NW	0	0	1	0	5	4	8	5	18	19	21	81
NNW	0	1	0	1	3	5	7	12	13	19	6	67
Tot	0	1	7	17	60	101	149	118	219	163	165	1000

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 1000
Hours of Missing Data 120
Hours in Period 2208

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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class E - Slightly Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	1	1	3	4	9	4	1	23
NNE	0	0	0	0	2	3	2	5	4	0	0	16
NE	0	1	1	2	4	4	3	4	1	2	0	22
ENE	0	0	1	4	4	2	3	0	0	0	0	14
E	0	0	0	2	2	1	2	3	2	1	0	13
ESE	0	0	1	0	1	4	0	2	8	4	0	20
SE	0	0	0	0	3	3	8	14	15	8	1	52
SSE	0	0	0	1	3	3	8	8	17	5	1	46
S	0	0	0	1	4	2	6	23	43	24	20	123
SSW	0	0	0	1	3	1	8	10	35	19	7	84
SW	0	0	1	1	2	3	7	13	14	9	6	56
WSW	0	0	3	1	4	5	2	1	10	9	4	39
W	0	0	0	1	2	3	5	5	13	4	1	34
WNW	0	0	0	0	1	3	3	8	19	20	1	55
NW	0	0	0	0	2	3	3	9	30	6	2	55
NNW	0	0	0	0	1	3	5	4	15	3	0	31
Tot	0	1	7	14	39	44	68	113	235	118	44	683

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 683
Hours of Missing Data 120
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class F - Moderately Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	0	2	9	1	0	12
NNE	0	0	0	1	1	0	2	0	2	0	0	6
NE	0	0	0	1	0	1	0	0	0	0	0	2
ENE	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	1	0	1	1	0	3	1	5	0	12
SSE	0	0	0	0	5	1	5	4	3	0	0	18
S	0	0	0	0	1	1	0	1	11	5	0	19
SSW	0	0	2	0	0	3	4	5	11	8	0	33
SW	0	0	0	1	1	1	2	3	16	2	0	26
WSW	0	0	1	0	1	2	2	2	13	0	0	21
W	0	0	0	0	0	2	5	3	1	0	0	11
WNW	0	0	0	0	0	3	3	2	0	3	0	11
NW	0	0	3	0	1	1	0	2	2	0	0	9
NNW	0	0	0	0	0	3	0	1	8	1	1	14
Tot	0	0	7	3	11	19	23	28	77	25	1	194

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 194
Hours of Missing Data 120
Hours in Period 2208

DRESDEN NUCLEAR POWER STATION
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METEOROLOGICAL DATA

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

Period: October through December 2007

Stability Class G - Extremely Stable

Elevations: Winds 300ft Stability 300ft

Wind Direction Sector	Wind Speed Range (m/s)											Total
	<0.50	0.5-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-8.0	8.1-10.0	>10.00	
N	0	0	0	0	0	0	0	1	1	0	0	2
NNE	0	0	0	0	0	0	0	1	0	0	0	1
NE	0	0	0	0	0	1	0	0	0	0	0	1
ENE	0	0	0	0	1	0	0	0	0	0	0	1
E	0	0	0	0	0	1	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	1	0	4	0	0	6
SSE	0	0	0	0	0	2	0	0	1	0	0	3
S	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	1	1	0	0	2
SW	0	0	0	0	0	2	0	0	2	2	0	6
WSW	0	0	0	0	0	2	0	1	0	0	0	3
W	0	0	0	1	0	1	0	0	1	0	0	3
WNW	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	1	0	0	3	1	0	0	0	0	0	5
NNW	0	0	0	0	0	3	0	0	5	3	0	11
Tot	0	1	0	1	4	14	1	4	15	5	0	45

Hours of Calm 0
Hours of Variable Direction 0
Hours of Valid Data 45
Hours of Missing Data 120
Hours in Period 2208