

DRESDEN NUCLEAR POWER STATION  
2006 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 10-1 and 10-2 from the Offsite Dose Calculation Manual (ODCM).

d. For liquid effluents, allowable release limits are calculated by solving equations 10-3 and 10-4 from 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 and noble gas monitoring were interrupted from 1056 on October 26, 2006 until 1400 on October 27, 2006. Radioactive noble gases measured at the monitor are determined to be less than detectable based on measurements for the current month and the previous three months. The particulate and iodine activities are determined by averaging the measured concentrations for the balance of the month and applying these averages 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: 29
2. Total time period for batch releases: 9.30E+03 minutes
3. Maximum time period for a batch release: 4.22E+02 minutes
4. Average time period for a batch release: 3.21E+02 minutes
5. Minimum time period for a batch release: 7.50E+01 minutes
6. Average stream flow during periods of release of effluent into a flowing stream: 1.51E+05 lpm

b. Liquid - Low Pressure Coolant Injection (LPCI) Cooling

1. Number of batch releases: 60
2. Total time period for batch releases: 7.44E+01 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: 9.46E+04 lpm

c. Gaseous - None

6. Abnormal Releases\*

a. Liquid

1. Number of releases: 1
2. Total activity released: 1.35E-01 Ci

b. Gaseous

1. Number of releases: 1
2. Total activity released: 2.92E-03 Ci

a.1 In January 2006, samples drawn from shallow monitoring well E-3 located near the 2/3 'B' Condensate Storage Tank indicated the presence of leakage in the contaminated 2/3 Condensate Storage System. This leakage was likely contained by remediation efforts (excavation of the leak site and containment of the dirt and groundwater), but to be conservative the leakage is assumed to have entered the site storm sewer system and was released to the environment via the Unit 1 Intake canal. Trending data of the well indicated the leak started no earlier than November 1, 2005, which is used as the leak start date. A leak rate of 1.18E+02 ml/min is estimated to have existed from November 1, 2005 until February 15, 2006, when the leak rate dropped to 5.00E-02 ml/min as the result of isolating the majority of the leak. The leak was stopped on April 8, 2006 when the remaining packing leakage was contained. The tritium concentration of the 2/3 Condensate Storage Tank was used to calculate the released activity. No gamma emitting activity was detected in the groundwater, so the gamma emitting activity is determined to be mechanically filtered by the soil surrounding the leak, which was controlled and disposed of as radioactive, and not released to the environment. An estimated 1.35E-01 Ci of tritium was released during the period from November 1, 2005 until April 8, 2006.

b.1 An unplanned actuation of the Unit 2 Isolation Condenser occurred at 0300 on July 4, 2006, due to a reactor scram and Group I isolation. Recently, tritium 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 concentration of tritium detected was in the shell side of the isolation condenser prior to actuation, and this maximum concentration was used for release calculations. No other nuclides were detected. Volume of the release was based on makeup pump run times and changes in shell-side level. For this event, an estimated total activity of 2.92E-03 Ci of tritium was released to the environment.

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

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

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7. Unmonitored Releases\*
- a. Liquid
    - 1. Number of releases: 1
    - 2. Total activity released: 1.04E+00 Ci
  - b. Gaseous
    - 1. Number of releases: 4
    - 2. Total activity released: 1.92E-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 2006 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 1.04E+00 Ci of tritium was released to the environment during 2006.
- 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 2006.
- b.2 The Chemistry Laboratory Ventilation system exhausts directly into the environment and is not monitored. The estimated activity released to the environment in 2006 is 7.47E-05 Ci of noble gases and 8.11E-06 Ci of iodines and particulates.
- b.3 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 2.55E-07 Ci of Mn-54 and 6.59E-07 Ci of Co-60 were released for a total estimated activity of 9.14E-07 Ci released to the environment from this system during 2006.
- b.4 A planned actuation of the Unit 3 Isolation Condenser occurred November 24, 2006 for surveillance testing. In the past, low-level contamination was introduced into 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. Tritium and Co-60 were detected, and the maximum concentrations measured surrounding the testing were used for release calculations. No other nuclides were detected. Volume of the release was based on changes in shell-side level. For this event, a calculated 6.50E-05 Ci of tritium and 7.09E-06 Ci of Co-60 were released for a calculated total activity of 7.21E-05 Ci released to the environment.
8. Summary of Offsite Dose Calculation Manual (ODCM) Changes by Dresden Nuclear Power Station (DNPS) in 2006
- Chapter 10 of the DNPS ODCM was revised in March of 2006. The revision changes the ODCM description of the Units 2/3 Waste Surge Tank to allow the use of portable waste treatment system tanks to provide input to the Units 2/3 Waste Surge Tank. This change was made to allow the use of portable systems to treat groundwater for liquid discharge via the normal monitored liquid release path.

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

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2006  
GASEOUS EFFLUENTS – SUMMATION OF ALL RELEASES

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| Units | 1 <sup>st</sup><br>Quarter | 2 <sup>nd</sup><br>Quarter | 3 <sup>rd</sup><br>Quarter | 4 <sup>th</sup><br>Quarter | Est. Total<br>Error, % |
|-------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------|
|-------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------|

A. Fission & activation gases

|   |         |          |          |          |          |          |
|---|---------|----------|----------|----------|----------|----------|
| 1. Total release                            | Ci      | 8.35E+00 | 7.71E+00 | 6.59E+01 | 1.77E+02 | 1.24E+01 |
| 2. Average release rate for period          | μCi/sec | 1.07E+00 | 9.81E-01 | 8.29E+00 | 2.23E+01 |          |
| 3. Percent of Technical specification limit | %       | *        | *        | *        | *        |          |

B. Iodines

|   |         |          |          |          |          |          |
|---|---------|----------|----------|----------|----------|----------|
| 1. Total iodine-131                         | Ci      | 6.80E-05 | 1.15E-04 | 1.57E-04 | 1.64E-04 | 3.08E+01 |
| 2. Average release rate for period (I-131)  | μCi/sec | 8.74E-06 | 1.46E-05 | 1.97E-05 | 2.06E-05 |          |
| 3. Percent of technical specification limit | %       | *        | *        | *        | *        |          |

C. Particulates

|   |         |          |          |          |          |          |
|---|---------|----------|----------|----------|----------|----------|
| 1. Particulates with half-lives > 8 days    | Ci      | 3.74E-04 | 2.04E-04 | 7.19E-04 | 1.86E-03 | 2.80E+01 |
| 2. Average release rate for period          | μCi/sec | 4.81E-05 | 2.59E-05 | 9.04E-05 | 2.34E-04 |          |
| 3. Percent of technical specification limit | %       | *        | *        | *        | *        |          |
| 4. Gross alpha radioactivity                | Ci      | <LLD     | <LLD     | <LLD     | <LLD     |          |

D. Tritium

|   |         |          |          |          |          |          |
|---|---------|----------|----------|----------|----------|----------|
| 1. Total release                            | Ci      | 4.43E+00 | 4.91E+00 | 1.04E+01 | 3.16E+00 | 7.55E+00 |
| 2. Average release rate for period          | μCi/sec | 5.70E-01 | 6.25E-01 | 1.31E+00 | 3.97E-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 the 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 2006  
 GASEOUS EFFLUENTS – SUMMATION OF ALL RELEASES

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

TABLE OF LOWER LIMITS OF DETECTABILITY  
 FOR GASEOUS EFFLUENTS

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

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

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2006

UNIT 1 MAIN CHIMNEY

GASEOUS EFFLUENTS

DOCKET NUMBER: 50-010

\_\_\_\_\_ GROUND LEVEL RELEASES  
 \_\_\_\_\_ SEMI-ELEVATED RELEASES  
 \_\_\_\_\_ XX \_\_\_\_\_ ELEVATED RELEASES

CONTINUOUS MODE

| NUCLIDES RELEASED    | UNIT | 1 <sup>st</sup> QTR | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> QTR | TOTAL    |
|----------------------|------|---------------------|---------------------|---------------------|---------------------|----------|
| <b>FISSION GASES</b> |      |                     |                     |                     |                     |          |
| 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     |
| <b>IODINES</b>       |      |                     |                     |                     |                     |          |
| 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     |
| <b>PARTICULATES</b>  |      |                     |                     |                     |                     |          |
| 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   | 4.42E-06            | 3.83E-07            | 5.49E-07            | 1.24E-06            | 6.59E-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   | 9.25E-07            | 7.79E-07            | 1.01E-06            | 8.95E-07            | 3.61E-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   | 5.35E-06            | 1.16E-06            | 1.56E-06            | 2.14E-06            | 1.02E-05 |

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2006

UNIT 1 MAIN CHIMNEY

GASEOUS EFFLUENTS

DOCKET NUMBER: 50-010

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\_\_\_\_\_  
\_\_\_\_\_  
XX

GROUND LEVEL RELEASES  
SEMI-ELEVATED RELEASES  
ELEVATED RELEASES

BATCH MODE

| NUCLIDES RELEASED | UNIT | 1 <sup>st</sup> QTR | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> 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-136            | Ci   |                     |                     |                     |                     |       |
| Cs-137            | Ci   |                     |                     |                     |                     |       |
| Ba-133            | 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 2006

UNITS 2/3 REACTOR BUILDING VENT

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

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XX  
\_\_\_\_\_  
\_\_\_\_\_  
GROUND LEVEL RELEASES  
SEMI-ELEVATED RELEASES  
ELEVATED RELEASES

CONTINUOUS MODE

| NUCLIDES RELEASED    | UNIT | 1 <sup>st</sup> QTR | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> QTR | TOTAL    |
|----------------------|------|---------------------|---------------------|---------------------|---------------------|----------|
| <b>FISSION GASES</b> |      |                     |                     |                     |                     |          |
| 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                | 1.73E+01            | 1.73E+01 |
| Xe-133m              | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Xe-135               | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Xe-135m              | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Xe-138               | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| TOTAL                | Ci   | <LLD                | <LLD                | <LLD                | 1.73E+01            | 1.73E+01 |
| <b>IODINES</b>       |      |                     |                     |                     |                     |          |
| I-131                | Ci   | <LLD                | <LLD                | <LLD                | 1.08E-05            | 1.08E-05 |
| I-133                | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| I-135                | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| TOTAL                | Ci   | <LLD                | <LLD                | <LLD                | 1.08E-05            | 1.08E-05 |
| <b>PARTICULATES</b>  |      |                     |                     |                     |                     |          |
| Fe-55                | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Sr-89                | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Sr-90                | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Cr-51                | Ci   | 5.00E-06            | <LLD                | <LLD                | 2.57E-05            | 3.07E-05 |
| Mn-54                | Ci   | 7.18E-05            | 1.20E-05            | 7.48E-06            | 6.57E-05            | 1.57E-04 |
| Co-57                | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Co-58                | Ci   | <LLD                | <LLD                | <LLD                | 6.17E-07            | 6.17E-07 |
| Fe-59                | Ci   | <LLD                | <LLD                | <LLD                | 1.34E-05            | 1.34E-05 |
| Co-60                | Ci   | 3.37E-05            | 7.37E-06            | 2.55E-05            | 4.91E-05            | 1.16E-04 |
| Zn-65                | Ci   | <LLD                | <LLD                | <LLD                | 1.46E-05            | 1.46E-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-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     |
| Hg-203               | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| TOTAL                | Ci   | 1.11E-04            | 1.94E-05            | 3.30E-05            | 1.69E-04            | 3.32E-04 |

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UNITS 2/3 REACTOR BUILDING VENT

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

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GROUND LEVEL RELEASES  
SEMI-ELEVATED RELEASES  
ELEVATED RELEASES

BATCH MODE

| NUCLIDES RELEASED | UNIT | 1 <sup>st</sup> QTR | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> 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-136            | Ci   |                     |                     |                     |                     |       |
| Cs-137            | Ci   |                     |                     |                     |                     |       |
| Ba-133            | Ci   |                     |                     |                     |                     |       |
| Ba-140            | Ci   |                     |                     |                     |                     |       |
| Ce-141            | Ci   |                     |                     |                     |                     |       |
| Ce-144            | Ci   |                     |                     |                     |                     |       |
| TOTAL             | Ci   | None                | None                | None                | None                | None  |

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GROUND LEVEL RELEASES  
SEMI-ELEVATED RELEASES  
ELEVATED RELEASES

CONTINUOUS MODE

| NUCLIDES RELEASED    | UNIT | 1 <sup>st</sup> QTR | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> QTR | TOTAL    |
|----------------------|------|---------------------|---------------------|---------------------|---------------------|----------|
| <b>FISSION GASES</b> |      |                     |                     |                     |                     |          |
| Ar-41                | Ci   | 2.42E-01            | 2.08E-01            | 2.00E+01            | 3.66E+01            | 5.71E+01 |
| Kr-85                | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Kr-85m               | Ci   | 1.76E-01            | 9.49E-02            | 3.33E+00            | 9.57E+00            | 1.32E+01 |
| Kr-87                | Ci   | 2.90E-01            | 2.83E-01            | 7.19E+00            | 2.30E+01            | 3.07E+01 |
| Kr-88                | Ci   | 2.28E-01            | 1.97E-01            | 8.86E+00            | 2.80E+01            | 3.73E+01 |
| Xe-131m              | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Xe-133               | Ci   | 4.56E-01            | 2.85E-01            | 2.04E+00            | 4.20E+00            | 6.98E+00 |
| Xe-133m              | Ci   | <LLD                | <LLD                | 1.32E-01            | 3.02E-01            | 4.34E-01 |
| Xe-135               | Ci   | 1.14E+00            | 8.07E-01            | 1.72E+01            | 4.98E+01            | 6.90E+01 |
| Xe-135m              | Ci   | 1.19E+00            | 1.20E+00            | 1.54E+00            | 1.98E+00            | 5.90E+00 |
| Xe-138               | Ci   | 4.63E+00            | 4.64E+00            | 5.58E+00            | 6.41E+00            | 2.13E+01 |
| TOTAL                | Ci   | 8.35E+00            | 7.71E+00            | 6.59E+01            | 1.60E+02            | 2.42E+02 |
| <b>IODINES</b>       |      |                     |                     |                     |                     |          |
| I-131                | Ci   | 6.80E-05            | 1.15E-04            | 1.57E-04            | 1.53E-04            | 4.93E-04 |
| I-133                | Ci   | 3.03E-04            | 4.59E-04            | 8.33E-04            | 5.83E-04            | 2.18E-03 |
| I-135                | Ci   | 2.81E-06            | <LLD                | <LLD                | <LLD                | 2.81E-06 |
| TOTAL                | Ci   | 3.74E-04            | 5.74E-04            | 9.90E-04            | 7.36E-04            | 2.67E-03 |
| <b>PARTICULATES</b>  |      |                     |                     |                     |                     |          |
| Fe-55                | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Sr-89                | Ci   | 1.11E-04            | 4.88E-06            | <LLD                | 3.63E-05            | 1.52E-04 |
| Sr-90                | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Cr-51                | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Mn-54                | Ci   | 2.50E-05            | 2.35E-05            | 1.11E-04            | 4.94E-04            | 6.53E-04 |
| Co-57                | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Co-58                | Ci   | <LLD                | <LLD                | 1.55E-05            | 5.95E-05            | 7.50E-05 |
| Fe-59                | Ci   | <LLD                | <LLD                | <LLD                | 1.34E-04            | 1.34E-04 |
| Co-60                | Ci   | 4.04E-05            | 5.75E-05            | 2.19E-04            | 5.99E-04            | 9.16E-04 |
| Zn-65                | Ci   | <LLD                | 2.31E-06            | 9.72E-05            | 1.56E-04            | 2.56E-04 |
| 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                | 1.18E-05            | 8.96E-05            | 7.19E-05            | 1.73E-04 |
| Ru-103               | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Ag-110m              | Ci   | <LLD                | <LLD                | 1.73E-05            | 7.74E-06            | 2.50E-05 |
| Sn-113               | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Sn-117m              | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Cs-136               | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Cs-137               | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Ba-140               | Ci   | 8.20E-05            | 8.23E-05            | 1.34E-04            | 7.82E-05            | 3.76E-04 |
| Hg-203               | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Ce-141               | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Ce-144               | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| TOTAL                | Ci   | 2.58E-04            | 1.82E-04            | 6.84E-04            | 1.64E-03            | 2.76E-03 |

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UNITS 2/3 MAIN CHIMNEY

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

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GROUND LEVEL RELEASES  
SEMI-ELEVATED RELEASES  
ELEVATED RELEASES

**BATCH MODE**

| NUCLIDES RELEASED    | UNIT | 1 <sup>st</sup> QTR | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> QTR | TOTAL |
|----------------------|------|---------------------|---------------------|---------------------|---------------------|-------|
| <b>FISSION GASES</b> |      |                     |                     |                     |                     |       |
| 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  |
| <b>IODINES</b>       |      |                     |                     |                     |                     |       |
| I-131                | Ci   |                     |                     |                     |                     |       |
| I-133                | Ci   |                     |                     |                     |                     |       |
| I-135                | Ci   |                     |                     |                     |                     |       |
| TOTAL                | Ci   | None                | None                | None                | None                | None  |
| <b>PARTICULATES</b>  |      |                     |                     |                     |                     |       |
| 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-136               | Ci   |                     |                     |                     |                     |       |
| Cs-137               | Ci   |                     |                     |                     |                     |       |
| Ba-133               | Ci   |                     |                     |                     |                     |       |
| Ba-140               | Ci   |                     |                     |                     |                     |       |
| Ce-141               | Ci   |                     |                     |                     |                     |       |
| Ce-144               | Ci   |                     |                     |                     |                     |       |
| TOTAL                | Ci   | None                | None                | None                | None                | None  |

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CHEMICAL CLEANING BUILDING

GASEOUS EFFLUENTS

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GROUND LEVEL RELEASES  
 SEMI-ELEVATED RELEASES  
 ELEVATED RELEASES

CONTINUOUS MODE

| NUCLIDES RELEASED    | UNIT | 1 <sup>st</sup> QTR | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> QTR | TOTAL    |
|----------------------|------|---------------------|---------------------|---------------------|---------------------|----------|
| <b>FISSION GASES</b> |      |                     |                     |                     |                     |          |
| 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     |
| <b>IODINES</b>       |      |                     |                     |                     |                     |          |
| 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     |
| <b>PARTICULATES</b>  |      |                     |                     |                     |                     |          |
| Fe-55                | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Sr-89                | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Sr-90                | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Cr-51                | Ci   | <LLD                | <LLD                | <LLD                | <LLD                | <LLD     |
| Mn-54                | Ci   | <LLD                | 1.42E-07            | <LLD                | <LLD                | 1.42E-07 |
| 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   | 2.72E-07            | 9.67E-07            | 6.48E-07            | <LLD                | 1.90E-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   | 2.72E-07            | 1.12E-06            | 6.48E-07            | <LLD                | 2.04E-06 |

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GASEOUS EFFLUENTS

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GROUND LEVEL RELEASES  
SEMI-ELEVATED RELEASES  
ELEVATED RELEASES

**BATCH MODE**

| NUCLIDES RELEASED    | UNIT | 1 <sup>st</sup> QTR | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> QTR | TOTAL |
|----------------------|------|---------------------|---------------------|---------------------|---------------------|-------|
| <b>FISSION GASES</b> |      |                     |                     |                     |                     |       |
| 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  |
| <b>IODINES</b>       |      |                     |                     |                     |                     |       |
| I-131                | Ci   |                     |                     |                     |                     |       |
| I-133                | Ci   |                     |                     |                     |                     |       |
| I-135                | Ci   |                     |                     |                     |                     |       |
| TOTAL                | Ci   | None                | None                | None                | None                | None  |
| <b>PARTICULATES</b>  |      |                     |                     |                     |                     |       |
| 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-136               | Ci   |                     |                     |                     |                     |       |
| Cs-137               | Ci   |                     |                     |                     |                     |       |
| Ba-133               | 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 <sup>st</sup><br>Quarter | 2 <sup>nd</sup><br>Quarter | 3 <sup>rd</sup><br>Quarter | 4 <sup>th</sup><br>Quarter | Est. Total<br>Error, % |
|-------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------|
|-------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------|

A. Fission and activation products

|  |        |          |          |          |          |          |
|--|--------|----------|----------|----------|----------|----------|
| 1. Total release (not including H-3, gases, alpha) | Ci     | 2.42E-03 | 1.63E-03 | 1.92E-02 | 8.10E-03 | 1.83E+01 |
| 2. Average diluted concentration during period     | μCi/ml | 2.38E-08 | 2.52E-09 | 6.40E-08 | 2.16E-08 |          |
| 3. Percent of applicable limit                     | %      | *        | *        | *        | *        |          |

B. Tritium

|  |        |          |          |          |          |          |
|--|--------|----------|----------|----------|----------|----------|
| 1. Total release                               | Ci     | 4.72E+00 | 2.96E+00 | 5.74E-01 | 2.78E+00 | 2.37E+00 |
| 2. Average diluted concentration during period | μCi/ml | 4.64E-05 | 4.57E-06 | 1.92E-06 | 7.44E-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 | 6.75E+05 | 3.91E+06 | 1.63E+06 | 2.23E+06 | 1.00E+00 |
|---|--------|----------|----------|----------|----------|----------|

|  |        |          |          |          |          |          |
|--|--------|----------|----------|----------|----------|----------|
| F. Volume of dilution water used during period | Liters | 1.01E+08 | 6.43E+08 | 2.98E+08 | 3.72E+08 | 5.00E+00 |
|--|--------|----------|----------|----------|----------|----------|

\* Applicable limits have been removed from the Technical Specifications. The comparison to ODCM limits is contained in the Radiological Impact on Man section of the 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 | μCi/ml   |
|    | Kr-87                    | 1.00E-05 |
|    | Kr-88                    | 1.00E-05 |
|    | Xe-133                   | 1.00E-05 |
|    | Xe-133m                  | 1.00E-05 |
|    | Xe-135                   | 1.00E-05 |
|    | Xe-138                   | 1.00E-05 |
| 2. | IODINES                  | μCi/ml   |
|    | I-131                    | 1.00E-06 |
| 3. | PARTICULATES             | μCi/ml   |
|    | Fe-55                    | 1.00E-06 |
|    | Sr-89                    | 5.00E-08 |
|    | Sr-90                    | 5.00E-08 |
|    | Mn-54                    | 5.00E-07 |
|    | Co-58                    | 5.00E-07 |
|    | Fe-59                    | 5.00E-07 |
|    | Co-60                    | 5.00E-07 |
|    | Zn-65                    | 5.00E-07 |
|    | Mo-99                    | 5.00E-07 |
|    | Cs-134                   | 5.00E-07 |
|    | Cs-137                   | 5.00E-07 |
|    | Ce-141                   | 5.00E-07 |
|    | Ce-144                   | 5.00E-06 |
| 4. | OTHER                    | μCi/ml   |
|    | H-3                      | 1.00E-05 |
|    | Gross Alpha              | 1.00E-07 |

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



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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2006

RADWASTE LIQUID EFFLUENTS

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

BATCH MODE

|                  | Unit | 1 <sup>st</sup> Quarter | 2 <sup>nd</sup> Quarter | 3 <sup>rd</sup> Quarter | 4 <sup>th</sup> Quarter | Total    |
|------------------|------|-------------------------|-------------------------|-------------------------|-------------------------|----------|
| Fe-55            | Ci   | <LLD                    | <LLD                    | 6.35E+03                | 9.62E+02                | 7.31E+03 |
| 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                    | 7.15E-04                | 7.15E-04 |
| Mn-54            | Ci   | 9.16E-04                | 3.50E-04                | 1.76E-03                | 1.95E-03                | 4.98E-03 |
| Co-58            | Ci   | <LLD                    | <LLD                    | <LLD                    | 1.21E-04                | 1.21E-04 |
| Fe-59            | Ci   | 1.61E-05                | <LLD                    | <LLD                    | 7.78E-04                | 7.94E-04 |
| Co-60            | Ci   | 1.10E-03                | 1.15E-03                | 1.04E-02                | 1.90E-03                | 1.46E-02 |
| Zn-65            | Ci   | 4.41E-05                | 1.64E-05                | <LLD                    | 1.34E-03                | 1.40E-03 |
| 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   | 3.26E-04                | 1.04E-05                | 1.63E-04                | 1.68E-04                | 6.68E-04 |
| Sb-124           | Ci   | <LLD                    | <LLD                    | <LLD                    | 5.80E+01                | 5.80E+01 |
| Cs-134           | Ci   | <LLD                    | <LLD                    | <LLD                    | <LLD                    | <LLD     |
| Cs-136           | Ci   | <LLD                    | <LLD                    | <LLD                    | <LLD                    | <LLD     |
| Cs-137           | Ci   | 1.02E-05                | 1.08E-04                | 4.86E-04                | 9.96E-05                | 7.04E-04 |
| Ba-139           | Ci   | <LLD                    | <LLD                    | <LLD                    | <LLD                    | <LLD     |
| Ba-140           | Ci   | <LLD                    | <LLD                    | <LLD                    | <LLD                    | <LLD     |
| La-140           | Ci   | <LLD                    | <LLD                    | <LLD                    | <LLD                    | <LLD     |
| Ce-141           | Ci   | <LLD                    | <LLD                    | <LLD                    | <LLD                    | <LLD     |
| (above)<br>Total | Ci   | 2.42E-03                | 1.63E-03                | 1.92E-02                | 8.10E-03                | 3.13E-02 |
| H-3              | Ci   | 3.68E+00                | 2.92E+00                | 5.21E-01                | 2.73E+00                | 9.85E+00 |
| Kr-87            | Ci   | <LLD                    | <LLD                    | <LLD                    | <LLD                    | <LLD     |
| Kr-88            | Ci   | <LLD                    | <LLD                    | <LLD                    | <LLD                    | <LLD     |
| Xe-133           | Ci   | <LLD                    | <LLD                    | <LLD                    | <LLD                    | <LLD     |
| Xe-133m          | 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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RADWASTE LIQUID EFFLUENTS

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

CONTINUOUS MODE

| Unit             |    | 1 <sup>st</sup> Quarter | 2 <sup>nd</sup> Quarter | 3 <sup>rd</sup> Quarter | 4 <sup>th</sup> 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)<br>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 LPCI COOLING SYSTEM LIQUID EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

|                  |      | BATCH MODE              |                         |                         |                         |       |  |
|------------------|------|-------------------------|-------------------------|-------------------------|-------------------------|-------|--|
|                  | Unit | 1 <sup>st</sup> Quarter | 2 <sup>nd</sup> Quarter | 3 <sup>rd</sup> Quarter | 4 <sup>th</sup> 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                    | <LLD                    | <LLD  |  |
| 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)<br>Total | Ci   | <LLD                    | <LLD                    | <LLD                    | <LLD                    | <LLD  |  |
| H-3              | Ci   | <LLD                    | <LLD                    | <LLD                    | <LLD                    | <LLD  |  |
| Kr-87            | Ci   | <LLD                    | <LLD                    | <LLD                    | <LLD                    | <LLD  |  |
| Kr-88            | Ci   | <LLD                    | <LLD                    | <LLD                    | <LLD                    | <LLD  |  |
| Xe-133           | Ci   | <LLD                    | <LLD                    | <LLD                    | <LLD                    | <LLD  |  |
| Xe-135           | Ci   | <LLD                    | <LLD                    | <LLD                    | <LLD                    | <LLD  |  |
| Xe-138           | Ci   | <LLD                    | <LLD                    | <LLD                    | <LLD                    | <LLD  |  |

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UNITS 2/3 LPCI SYSTEM EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

CONTINUOUS MODE

|                  | Unit | 1 <sup>st</sup> Quarter | 2 <sup>nd</sup> Quarter | 3 <sup>rd</sup> Quarter | 4 <sup>th</sup> 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)<br>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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January through December 2006

EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2006  
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

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

| 1. Type of Waste   | Unit           | 12-month Period | Est. Total Error,<br>% |
|--|----------------|-----------------|------------------------|
| a. Spent resins, filter sludges / filters, evaporator bottoms, etc.                          | m <sup>3</sup> | 1.60E+02        | 2.50E+01               |
|  | Ci             | 1.08E+03        |                        |
| b. Dry compressible waste, contaminated equipment, etc. (includes some contaminated liquids) | m <sup>3</sup> | 1.52E+03        | 2.50E+01               |
|  | Ci             | 1.43E+00        |                        |
| c. Irradiated components, control rods, etc.   | m <sup>3</sup> | 4.91E+00        | 2.50E+01               |
|  | Ci             | 3.62E+04        |                        |
| d. Other (describe) - Contaminated Oil, Contaminated Soil, Waste Metals, Combined Packages   | m <sup>3</sup> | 8.79E+02        | 2.50E+01               |
|  | Ci             | 7.41E+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  | 4.78E+01  | 5.16E+02 |
| Co-60  | 2.58E+01  | 2.79E+02 |
| Mn-54  | 1.72E+01  | 1.86E+02 |
| Zn-65  | 4.20E+00  | 4.57E+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   |
|-------|-----------|----------|
| Co-60 | 3.55E+01  | 5.09E-01 |
| Mn-54 | 3.55E+01  | 5.08E-01 |
| H-3   | 1.11E+01  | 1.59E-01 |
| Fe-55 | 8.50E+00  | 1.22E-01 |
| Fe-59 | 2.70E+00  | 3.86E-02 |

Shipment type: LSA  
Solidification agent or absorbent: None

c. Irradiated components, control rods, etc.

|       | Percent % | Curies   |
|-------|-----------|----------|
| Fe-55 | 5.77E+01  | 2.09E+04 |
| Co-60 | 3.67E+01  | 1.33E+04 |
| Ni-63 | 3.27E+00  | 1.18E+03 |
| Mn-54 | 1.96E+00  | 7.09E+02 |

Shipment type: Type B  
Solidification agent or absorbent: None

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EFFLUENT AND WASTE DISPOSAL SUMMARY ANNUAL REPORT 2006  
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

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

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

|        | <u>Percent %</u> | <u>Curies</u> |
|--------|------------------|---------------|
| Ni-59  | 2.98E+01         | 2.21E+01      |
| Fe-55  | 2.36E+01         | 1.75E+01      |
| Mn-54  | 1.54E+01         | 1.14E+01      |
| Cs-137 | 1.52E+01         | 1.13E+01      |
| Co-60  | 8.35E+00         | 6.19E+00      |

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

3. Solid Waste Disposition

| <u>Number of Shipments</u> | <u>Mode of Transportation</u>      | <u>Destination</u>                                |
|----------------------------|------------------------------------|---|
| 69                         | Motor freight (exclusive use only) | Energy Solutions – Gallaher Road, Kingston, TN    |
| 24                         | Motor freight (exclusive use only) | Energy Solutions – Bear Creek Road, Oak Ridge, TN |
| 19                         | Motor freight (exclusive use only) | Energy Solutions – Envirocare, Clive, UT          |
| 11                         | Motor freight (exclusive use only) | Alaron, Wampum, PA                                |
| 6                          | Motor freight (exclusive use only) | Studs vik Processing Facility, Erwin, TN          |
| 5                          | Motor freight (exclusive use only) | CNS Inc., 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)

The station Process Control Program was not changed during 2006.

DRESDEN NUCLEAR POWER STATION  
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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 <sup>st</sup> QTR                  | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> 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        | 2.17E-06(c)                          | 6.17E-06(t)         | 4.81E-06(c)         | 7.84E-04(i,c)         | 15.0 mrem    | 7.94E-04 (c) |
| Critical Organ    |                 | Lung                                 | GI_LLI              | GI_LLI              | Liver (i)<br>Bone (c) |              | Liver        |

|            | Quarterly Limit | Percentage of Quarterly Limit |                     |                     |                     | Yearly Limit | Percentage of Annual Limit |
|------------|-----------------|-------------------------------|---------------------|---------------------|---------------------|--------------|----------------------------|
|            |                 | 1 <sup>st</sup> QTR           | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> 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        | 2.89E-05                      | 8.23E-05            | 6.41E-05            | 1.05E-02            | 15.0 mrem    | 5.29E-03                   |

2. Liquid Releases

|                   | Quarterly Limit | Maximum Doses from Liquid Releases |                     |                     |                     | Yearly Limit | Annual Dose |
|-------------------|-----------------|------------------------------------|---------------------|---------------------|---------------------|--------------|-------------|
|                   |                 | 1 <sup>st</sup> QTR                | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> 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 <sup>st</sup> QTR           | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> 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 2006 (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 2006 is 7.87E-04 mrem. The maximum calculated Committed Effective Dose Equivalent exposure to a member of the public as the result of Unit 1 operations during 2006 is 1.01E-05 mrem.

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

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RADIOLOGICAL IMPACT ON MAN\*

B. UNIT 2

Docket Number: 50-237

1. Airborne Releases

|                   | Quarterly Limit | Maximum Doses from Airborne Releases |                     |                     |                     | Yearly Limit | Annual Dose  |
|-------------------|-----------------|--------------------------------------|---------------------|---------------------|---------------------|--------------|--------------|
|                   |                 | 1 <sup>st</sup> QTR                  | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> QTR |              |              |
| Gamma Air (mrad)  | 5.0 mrad        | 5.86E-05 (e)                         | 6.00E-05 (e)        | 1.50E-03 (e)        | 3.81E-03 (e)        | 10.0 mrad    | 5.43E-03 (e) |
| Beta Air (mrad)   | 10.0 mrad       | 3.67E-06 (e)                         | 3.68E-06 (e)        | 1.02E-04 (e)        | 5.34E-04 (e)        | 20.0 mrad    | 6.38E-04 (e) |
| Total Body (mrem) | 2.5 mrem        | 4.42E-05 (e)                         | 4.53E-05 (e)        | 1.78E-03 (e)        | 5.36E-03 (e)        | 5.0 mrem     | 7.21E-03 (e) |
| Skin (mrem)       | 7.5 mrem        | 4.84E-05 (e)                         | 4.96E-05 (e)        | 1.25E-03 (e)        | 3.26E-03 (e)        | 15.0 mrem    | 4.61E-03 (e) |
| Organ (mrem)      | 7.5 mrem        | 4.79E-04 (a)                         | 3.94E-03 (c)        | 8.32E-03 (c)        | 1.52E-03 (c)        | 15.0 mrem    | 1.42E-02 (c) |
| Critical Organ    |                 | GI LLI                               | Thyroid             | Thyroid             | Thyroid             |              | Thyroid      |

|            | Quarterly Limit | Percentage of Quarterly Limit |                     |                     |                     | Yearly Limit | Percentage of Annual Limit |
|------------|-----------------|-------------------------------|---------------------|---------------------|---------------------|--------------|----------------------------|
|            |                 | 1 <sup>st</sup> QTR           | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> QTR |              |                            |
| Gamma Air  | 5.0 mrad        | 1.17E-03                      | 1.20E-03            | 3.00E-02            | 7.62E-02            | 10.0 mrad    | 5.43E-02                   |
| Beta Air   | 10.0 mrad       | 3.67E-05                      | 3.68E-05            | 1.02E-03            | 5.34E-03            | 20.0 mrad    | 3.19E-03                   |
| Total Body | 2.5 mrem        | 1.77E-03                      | 1.81E-03            | 7.12E-02            | 2.14E-01            | 5.0 mrem     | 1.44E-01                   |
| Skin       | 7.5 mrem        | 6.45E-04                      | 6.61E-04            | 1.67E-02            | 4.35E-02            | 15.0 mrem    | 3.07E-02                   |
| Organ      | 7.5 mrem        | 6.39E-03                      | 5.25E-02            | 1.11E-01            | 2.03E-02            | 15.0 mrem    | 9.47E-02                   |

2. Liquid Releases

|                   | Quarterly Limit | Maximum Doses from Liquid Releases |                     |                     |                     | Yearly Limit | Annual Dose  |
|-------------------|-----------------|------------------------------------|---------------------|---------------------|---------------------|--------------|--------------|
|                   |                 | 1 <sup>st</sup> QTR                | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> QTR |              |              |
| Total Body (mrem) | 1.5 mrem        | 1.36E-05 (c)                       | 2.52E-05 (a)        | 8.40E-05 (a)        | 4.53E-05 (a)        | 3.0 mrem     | 1.66E-04 (a) |
| Organ (mrem)      | 5.0 mrem        | 1.97E-05 (a)                       | 3.60E-05 (c)        | 1.30E-04 (t)        | 8.29E-05 (a)        | 10.0 mrem    | 2.60E-04 (a) |
| Critical Organ    |                 | GI LLI                             | Liver               | Liver               | Liver               |              | Liver        |

|            | Quarterly Limit | Percentage of Quarterly Limit |                     |                     |                     | Yearly Limit | Percentage of Annual Limit |
|------------|-----------------|-------------------------------|---------------------|---------------------|---------------------|--------------|----------------------------|
|            |                 | 1 <sup>st</sup> QTR           | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> QTR |              |                            |
| Total Body | 1.5 mrem        | 9.07E-04                      | 1.68E-03            | 5.60E-03            | 3.02E-03            | 3.0 mrem     | 5.53E-03                   |
| Organ      | 5.0 mrem        | 3.94E-04                      | 7.20E-04            | 2.60E-03            | 1.66E-03            | 10.0 mrem    | 2.60E-03                   |

3. Direct Radiation

The calculated direct radiation exposure to a member of the public due to Unit 2 turbine building skyshine was 4.14E+00 mrem during 2006.

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 2006 is 4.15E+00 mrem. The maximum calculated Committed Effective Dose Equivalent exposure to a member of the public as the result of Unit 2 operations during 2006 is 5.63E-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 <sup>st</sup> QTR                  | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> QTR |              |              |
| Gamma Air (mrad)  | 5.0 mrad        | 1.14E-04 (e)                         | 1.08E-04 (e)        | 1.08E-04 (e)        | 1.12E-04 (e)        | 10.0 mrad    | 4.43E-04 (e) |
| Beta Air (mrad)   | 10.0 mrad       | 7.33E-06 (e)                         | 6.67E-06 (e)        | 6.38E-06 (e)        | 6.17E-06 (e)        | 20.0 mrad    | 2.66E-05 (e) |
| Total Body (mrem) | 2.5 mrem        | 8.63E-05 (e)                         | 8.14E-05 (e)        | 8.18E-05 (e)        | 8.45E-05 (e)        | 5.0 mrem     | 3.34E-04 (e) |
| Skin (mrem)       | 7.5 mrem        | 9.45E-05 (e)                         | 8.90E-05 (e)        | 8.92E-05 (e)        | 9.20E-05 (e)        | 15.0 mrem    | 3.65E-04 (e) |
| Organ (mrem)      | 7.5 mrem        | 5.18E-04 (a)                         | 3.34E-03 (c)        | 7.36E-03 (c)        | 1.44E-03 (c)        | 15.0 mrem    | 1.25E-02 (c) |
| Critical Organ    |                 | GI LLI                               | Thyroid             | Thyroid             | Thyroid             |              | Thyroid      |

|            | Quarterly Limit | Percentage of Quarterly Limit |                     |                     |                     | Yearly Limit | Percentage of Annual Limit |
|------------|-----------------|-------------------------------|---------------------|---------------------|---------------------|--------------|----------------------------|
|            |                 | 1 <sup>st</sup> QTR           | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> QTR |              |                            |
| Gamma Air  | 5.0 mrad        | 2.28E-03                      | 2.16E-03            | 2.16E-03            | 2.24E-03            | 10.0 mrad    | 4.43E-03                   |
| Beta Air   | 10.0 mrad       | 7.33E-05                      | 6.67E-05            | 6.38E-05            | 6.17E-05            | 20.0 mrad    | 1.33E-04                   |
| Total Body | 2.5 mrem        | 3.45E-03                      | 3.26E-03            | 3.27E-03            | 3.38E-03            | 5.0 mrem     | 6.68E-03                   |
| Skin       | 7.5 mrem        | 1.26E-03                      | 1.19E-03            | 1.19E-03            | 1.23E-03            | 15.0 mrem    | 2.43E-03                   |
| Organ      | 7.5 mrem        | 6.91E-03                      | 4.45E-02            | 9.81E-02            | 1.92E-02            | 15.0 mrem    | 8.33E-02                   |

2. Liquid Releases

|                   | Quarterly Limit | Maximum Doses from Liquid Releases |                     |                     |                     | Yearly Limit | Annual Dose  |
|-------------------|-----------------|------------------------------------|---------------------|---------------------|---------------------|--------------|--------------|
|                   |                 | 1 <sup>st</sup> QTR                | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> QTR |              |              |
| Total Body (mrem) | 1.5 mrem        | 1.45E-05 (c)                       | 2.52E-05 (a)        | 8.40E-05 (a)        | 5.03E-05 (a)        | 3.0 mrem     | 1.72E-04 (a) |
| Organ (mrem)      | 5.0 mrem        | 2.03E-05 (a)                       | 3.60E-05 (c)        | 1.30E-04 (t)        | 8.78E-05 (a)        | 10.0 mrem    | 2.66E-04 (a) |
| Critical Organ    |                 | GI LLI                             | Liver               | Liver               | Liver               |              | Liver        |

|            | Quarterly Limit | Percentage of Quarterly Limit |                     |                     |                     | Yearly Limit | Percentage of Annual Limit |
|------------|-----------------|-------------------------------|---------------------|---------------------|---------------------|--------------|----------------------------|
|            |                 | 1 <sup>st</sup> QTR           | 2 <sup>nd</sup> QTR | 3 <sup>rd</sup> QTR | 4 <sup>th</sup> QTR |              |                            |
| Total Body | 1.5 mrem        | 9.67E-04                      | 1.68E-03            | 5.60E-03            | 3.35E-03            | 3.0 mrem     | 5.73E-03                   |
| Organ      | 5.0 mrem        | 4.06E-04                      | 7.20E-04            | 2.60E-03            | 1.76E-03            | 10.0 mrem    | 2.66E-03                   |

3. Direct Radiation

The maximum calculated direct radiation exposure to a member of the public due to Unit 3 turbine building skyshine was 4.08E+00 mrem during 2006.

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 2006 is 4.08E+00 mrem. The maximum calculated Committed Effective Dose Equivalent exposure to a member of the public as the result of Unit 3 operations during 2006 is 5.03E-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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RADIOLOGICAL IMPACT ON MAN\*

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

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 8.23E+00 mrem. Per the 2006 GEMO 10CFR72.44(d)(3) report, the maximum dose that could be received from that facility is calculated to be 4.25E-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 8.66E+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

1. The Unit 3 Service Water Effluent Radiation Monitor was out of service from 0449 on March 27, 2006 until 1320 on April 26, 2006. The monitor was declared inoperable when the sample pump tripped. The monitor was out of service for greater than 30 days due to difficulty locating the cause of the pump trip. Contingency grab sampling and analysis was performed as required during the monitor's inoperability. This inoperability of greater than 30 days is being reported per Dresden ODCM Section 12.2.A.1.3.
2. The Units 2/3 Main Chimney particulate and iodine sampling and noble gas monitoring were interrupted from 1056 on October 26, 2006 until 1400 on October 27, 2006. Primary monitoring equipment was inoperable for a planned surveillance and backup monitoring equipment was left in purge mode due to personnel error, rendering on-line sampling and monitoring inoperable. Contingency sampling was not performed because the station was not aware of the condition. Monitoring was restored immediately upon discovery of the event.

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METEOROLOGICAL DATA

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

1. The following table represents the percentage of valid hours of recoverable meteorological data for 2006:

| Parameter              | Percentage of valid parameter hours in 2006 |                         |                         |                         |       |
|------------------------|---|-------------------------|-------------------------|-------------------------|-------|
|                        | 1 <sup>st</sup> Quarter                     | 2 <sup>nd</sup> Quarter | 3 <sup>rd</sup> Quarter | 4 <sup>th</sup> Quarter | Year  |
| 35 ft. Wind Speed      | 98.4%                                       | 100.0%                  | 99.9%                   | 99.3%                   | 99.4% |
| 150 ft. Wind Speed     | 98.9%                                       | 100.0%                  | 100.0%                  | 99.6%                   | 99.6% |
| 300 ft. Wind Speed     | 98.7%                                       | 100.0%                  | 100.0%                  | 99.6%                   | 99.6% |
|                        |   |                         |                         |                         |       |
| 35 ft. Wind Direction  | 99.8%                                       | 100.0%                  | 100.0%                  | 99.8%                   | 99.9% |
| 150 ft. Wind Direction | 99.8%                                       | 100.0%                  | 100.0%                  | 99.7%                   | 99.9% |
| 300 ft. Wind Direction | 99.8%                                       | 100.0%                  | 100.0%                  | 99.3%                   | 99.8% |
|                        |   |                         |                         |                         |       |
| 35 ft. Temperature     | 99.8%                                       | 100.0%                  | 100.0%                  | 99.8%                   | 99.9% |
|                        |   |                         |                         |                         |       |
| 150-35 ft. delta T     | 99.8%                                       | 100.0%                  | 99.9%                   | 99.5%                   | 99.8% |
| 300-35 ft. delta T     | 99.8%                                       | 100.0%                  | 100.0%                  | 99.8%                   | 99.9% |

2. Dresden station was able to achieve an average of 99.7% 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 2006.

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METEOROLOGICAL DATA

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

Period of Record: January - March 2006  
 Stability Class - Extremely Unstable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 12  | 17   | 1     | 0     | 0    | 30    |
| NNE               | 0                   | 10  | 7    | 3     | 0     | 0    | 20    |
| NE                | 0                   | 7   | 2    | 1     | 0     | 0    | 10    |
| ENE               | 0                   | 2   | 10   | 0     | 0     | 0    | 12    |
| E                 | 0                   | 1   | 4    | 4     | 0     | 0    | 9     |
| ESE               | 0                   | 1   | 1    | 3     | 0     | 0    | 5     |
| SE                | 0                   | 0   | 0    | 2     | 0     | 0    | 2     |
| SSE               | 0                   | 0   | 0    | 13    | 2     | 0    | 15    |
| S                 | 0                   | 0   | 5    | 3     | 0     | 0    | 8     |
| SSW               | 0                   | 0   | 1    | 4     | 2     | 1    | 8     |
| SW                | 0                   | 0   | 0    | 5     | 3     | 2    | 10    |
| WSW               | 0                   | 3   | 15   | 3     | 1     | 0    | 22    |
| W                 | 0                   | 4   | 3    | 4     | 1     | 0    | 12    |
| WNW               | 0                   | 5   | 18   | 6     | 3     | 0    | 32    |
| NW                | 0                   | 3   | 20   | 2     | 0     | 0    | 25    |
| NNW               | 0                   | 13  | 17   | 3     | 0     | 0    | 33    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 61  | 120  | 57    | 12    | 3    | 253   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: January - March 2006  
 Stability Class - Moderately Unstable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 3   | 2    | 0     | 0     | 0    | 5     |
| NNE               | 0                   | 2   | 2    | 0     | 0     | 0    | 4     |
| NE                | 0                   | 4   | 0    | 1     | 0     | 0    | 5     |
| ENE               | 0                   | 0   | 2    | 0     | 0     | 0    | 2     |
| E                 | 0                   | 2   | 0    | 0     | 0     | 0    | 2     |
| ESE               | 0                   | 0   | 0    | 1     | 0     | 0    | 1     |
| SE                | 0                   | 0   | 2    | 0     | 0     | 0    | 2     |
| SSE               | 0                   | 0   | 3    | 4     | 1     | 0    | 8     |
| S                 | 0                   | 0   | 3    | 2     | 0     | 0    | 5     |
| SSW               | 0                   | 0   | 0    | 2     | 0     | 0    | 2     |
| SW                | 0                   | 0   | 0    | 2     | 0     | 0    | 2     |
| WSW               | 0                   | 3   | 2    | 0     | 2     | 1    | 8     |
| W                 | 0                   | 2   | 0    | 0     | 0     | 0    | 2     |
| WNW               | 0                   | 1   | 1    | 0     | 0     | 0    | 2     |
| NW                | 0                   | 5   | 2    | 0     | 0     | 0    | 7     |
| NNW               | 0                   | 2   | 1    | 0     | 0     | 0    | 3     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 24  | 20   | 12    | 3     | 1    | 60    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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Period of Record: January - March 2006  
 Stability Class - Slightly Unstable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 4   | 1    | 0     | 0     | 0    | 5     |
| NNE               | 0                   | 1   | 1    | 0     | 0     | 0    | 2     |
| NE                | 0                   | 1   | 1    | 0     | 0     | 0    | 2     |
| ENE               | 0                   | 1   | 2    | 0     | 0     | 0    | 3     |
| E                 | 0                   | 0   | 1    | 1     | 0     | 0    | 2     |
| ESE               | 0                   | 0   | 0    | 1     | 0     | 0    | 1     |
| SE                | 0                   | 1   | 0    | 3     | 0     | 0    | 4     |
| SSE               | 0                   | 1   | 2    | 3     | 1     | 0    | 7     |
| S                 | 0                   | 1   | 4    | 3     | 0     | 0    | 8     |
| SSW               | 0                   | 0   | 1    | 1     | 0     | 0    | 2     |
| SW                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| WSW               | 0                   | 6   | 5    | 0     | 2     | 0    | 13    |
| W                 | 0                   | 2   | 2    | 0     | 0     | 0    | 4     |
| WNW               | 0                   | 2   | 3    | 2     | 0     | 0    | 7     |
| NW                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NNW               | 0                   | 0   | 2    | 0     | 0     | 0    | 2     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 20  | 25   | 14    | 3     | 0    | 62    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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

Period of Record: January - March 2006  
 Stability Class - Neutral - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 4                   | 26  | 10   | 0     | 0     | 0    | 40    |
| NNE               | 1                   | 20  | 12   | 0     | 0     | 0    | 33    |
| NE                | 3                   | 14  | 31   | 9     | 0     | 0    | 57    |
| ENE               | 2                   | 9   | 15   | 0     | 0     | 0    | 26    |
| E                 | 3                   | 21  | 24   | 0     | 0     | 0    | 48    |
| ESE               | 3                   | 19  | 23   | 7     | 0     | 0    | 52    |
| SE                | 1                   | 7   | 13   | 6     | 0     | 0    | 27    |
| SSE               | 0                   | 1   | 15   | 11    | 4     | 0    | 31    |
| S                 | 1                   | 5   | 12   | 15    | 3     | 0    | 36    |
| SSW               | 1                   | 3   | 10   | 14    | 1     | 0    | 29    |
| SW                | 4                   | 3   | 9    | 9     | 0     | 0    | 25    |
| WSW               | 1                   | 11  | 13   | 10    | 2     | 0    | 37    |
| W                 | 2                   | 21  | 37   | 20    | 12    | 0    | 92    |
| WNW               | 2                   | 26  | 64   | 12    | 0     | 0    | 104   |
| NW                | 4                   | 22  | 50   | 11    | 0     | 0    | 87    |
| NNW               | 1                   | 20  | 42   | 5     | 0     | 0    | 68    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 33                  | 228 | 380  | 129   | 22    | 0    | 792   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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

Period of Record: January - March 2006  
 Stability Class - Slightly Stable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 10                  | 23  | 6    | 0     | 0     | 0    | 39    |
| NNE               | 14                  | 15  | 3    | 0     | 0     | 0    | 32    |
| NE                | 7                   | 8   | 6    | 0     | 0     | 0    | 21    |
| ENE               | 7                   | 17  | 0    | 0     | 0     | 0    | 24    |
| E                 | 3                   | 27  | 22   | 1     | 0     | 0    | 53    |
| ESE               | 6                   | 21  | 16   | 4     | 0     | 0    | 47    |
| SE                | 0                   | 10  | 24   | 4     | 0     | 0    | 38    |
| SSE               | 2                   | 27  | 36   | 16    | 1     | 0    | 82    |
| S                 | 7                   | 19  | 41   | 7     | 1     | 0    | 75    |
| SSW               | 5                   | 15  | 19   | 8     | 1     | 0    | 48    |
| SW                | 4                   | 12  | 16   | 4     | 0     | 0    | 36    |
| WSW               | 2                   | 3   | 3    | 3     | 0     | 0    | 11    |
| W                 | 12                  | 31  | 7    | 1     | 1     | 0    | 52    |
| WNW               | 15                  | 40  | 14   | 4     | 0     | 0    | 73    |
| NW                | 22                  | 46  | 11   | 1     | 0     | 0    | 80    |
| NNW               | 14                  | 30  | 17   | 12    | 0     | 0    | 73    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 130                 | 344 | 241  | 65    | 4     | 0    | 784   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0



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Period of Record: January - March 2006  
 Stability Class - Moderately Stable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 3                   | 0   | 0    | 0     | 0     | 0    | 3     |
| NNE               | 2                   | 0   | 0    | 0     | 0     | 0    | 2     |
| NE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ENE               | 1                   | 0   | 0    | 0     | 0     | 0    | 1     |
| E                 | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| ESE               | 6                   | 4   | 0    | 0     | 0     | 0    | 10    |
| SE                | 2                   | 0   | 0    | 0     | 0     | 0    | 2     |
| SSE               | 1                   | 1   | 0    | 0     | 0     | 0    | 2     |
| S                 | 6                   | 0   | 0    | 0     | 0     | 0    | 6     |
| SSW               | 7                   | 9   | 2    | 0     | 0     | 0    | 18    |
| SW                | 7                   | 18  | 1    | 0     | 0     | 0    | 26    |
| WSW               | 6                   | 9   | 1    | 0     | 0     | 0    | 16    |
| W                 | 7                   | 2   | 0    | 0     | 0     | 0    | 9     |
| WNW               | 4                   | 3   | 0    | 0     | 0     | 0    | 7     |
| NW                | 7                   | 1   | 0    | 0     | 0     | 0    | 8     |
| NNW               | 4                   | 7   | 0    | 0     | 0     | 0    | 11    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 63                  | 55  | 4    | 0     | 0     | 0    | 122   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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

Period of Record: January - March 2006  
 Stability Class - Extremely Stable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NNE               | 1                   | 0   | 0    | 0     | 0     | 0    | 1     |
| NE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ENE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| E                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ESE               | 0                   | 2   | 0    | 0     | 0     | 0    | 2     |
| SE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| S                 | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| SSW               | 2                   | 0   | 0    | 0     | 0     | 0    | 2     |
| SW                | 0                   | 10  | 0    | 0     | 0     | 0    | 10    |
| WSW               | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| W                 | 1                   | 0   | 0    | 0     | 0     | 0    | 1     |
| WNW               | 2                   | 0   | 0    | 0     | 0     | 0    | 2     |
| NW                | 1                   | 0   | 0    | 0     | 0     | 0    | 1     |
| NNW               | 1                   | 4   | 0    | 0     | 0     | 0    | 5     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 8                   | 18  | 0    | 0     | 0     | 0    | 26    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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

Period of Record: January - March 2006  
 Stability Class - Extremely Unstable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 0   | 4    | 4     | 0     | 0    | 8     |
| NNE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ENE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| E                 | 0                   | 0   | 1    | 0     | 0     | 0    | 1     |
| ESE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSE               | 0                   | 0   | 0    | 0     | 2     | 1    | 3     |
| S                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSW               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SW                | 0                   | 0   | 0    | 1     | 1     | 3    | 5     |
| WSW               | 0                   | 0   | 1    | 1     | 0     | 0    | 2     |
| W                 | 0                   | 0   | 0    | 0     | 1     | 1    | 2     |
| WNW               | 0                   | 0   | 1    | 3     | 2     | 3    | 9     |
| NW                | 0                   | 0   | 1    | 5     | 0     | 0    | 6     |
| NNW               | 0                   | 0   | 1    | 3     | 0     | 0    | 4     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 0   | 9    | 17    | 6     | 8    | 40    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 4

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Period of Record: January - March 2006  
Stability Class - Moderately Unstable - 300Ft-35Ft Delta-T (F)  
Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 2   | 1    | 1     | 1     | 0    | 5     |
| NNE               | 0                   | 1   | 3    | 3     | 1     | 0    | 8     |
| NE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ENE               | 0                   | 1   | 1    | 1     | 0     | 0    | 3     |
| E                 | 0                   | 0   | 0    | 1     | 0     | 0    | 1     |
| ESE               | 0                   | 0   | 1    | 1     | 0     | 0    | 2     |
| SE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSE               | 0                   | 0   | 0    | 0     | 2     | 1    | 3     |
| S                 | 0                   | 0   | 1    | 1     | 0     | 0    | 2     |
| SSW               | 0                   | 0   | 0    | 0     | 1     | 1    | 2     |
| SW                | 0                   | 0   | 0    | 1     | 0     | 1    | 2     |
| WSW               | 0                   | 0   | 3    | 1     | 1     | 0    | 5     |
| W                 | 0                   | 0   | 1    | 0     | 0     | 1    | 2     |
| WNW               | 0                   | 0   | 4    | 4     | 3     | 0    | 11    |
| NW                | 0                   | 1   | 1    | 5     | 2     | 0    | 9     |
| NNW               | 0                   | 0   | 7    | 3     | 2     | 0    | 12    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 5   | 23   | 22    | 13    | 4    | 67    |

Hours of calm in this stability class: 0  
Hours of missing wind measurements in this stability class: 1  
Hours of missing stability measurements in all stability classes: 4

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

Period of Record: January - March 2006  
 Stability Class - Slightly Unstable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 2   | 5    | 6     | 1     | 0    | 14    |
| NNE               | 0                   | 3   | 4    | 0     | 3     | 0    | 10    |
| NE                | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| ENE               | 0                   | 0   | 5    | 3     | 1     | 0    | 9     |
| E                 | 0                   | 1   | 1    | 1     | 1     | 0    | 4     |
| ESE               | 0                   | 0   | 0    | 2     | 0     | 0    | 2     |
| SE                | 0                   | 1   | 0    | 3     | 1     | 0    | 5     |
| SSE               | 0                   | 0   | 0    | 4     | 3     | 1    | 8     |
| S                 | 0                   | 0   | 3    | 1     | 4     | 0    | 8     |
| SSW               | 0                   | 0   | 0    | 2     | 3     | 2    | 7     |
| SW                | 0                   | 0   | 0    | 0     | 2     | 1    | 3     |
| WSW               | 0                   | 1   | 7    | 2     | 1     | 0    | 11    |
| W                 | 0                   | 0   | 3    | 2     | 2     | 0    | 7     |
| WNW               | 0                   | 0   | 4    | 5     | 2     | 1    | 12    |
| NW                | 0                   | 0   | 2    | 6     | 0     | 0    | 8     |
| NNW               | 0                   | 0   | 3    | 4     | 0     | 1    | 8     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 9   | 37   | 41    | 24    | 6    | 117   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 1  
 Hours of missing stability measurements in all stability classes: 4

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

Period of Record: January - March 2006  
 Stability Class - Neutral - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 1                   | 5   | 25   | 30    | 6     | 0    | 67    |
| NNE               | 0                   | 5   | 24   | 25    | 6     | 0    | 60    |
| NE                | 0                   | 8   | 17   | 30    | 14    | 0    | 69    |
| ENE               | 1                   | 2   | 30   | 20    | 6     | 0    | 59    |
| E                 | 0                   | 8   | 22   | 24    | 10    | 0    | 64    |
| ESE               | 0                   | 5   | 9    | 14    | 18    | 1    | 47    |
| SE                | 0                   | 2   | 19   | 11    | 15    | 0    | 47    |
| SSE               | 0                   | 1   | 11   | 23    | 16    | 6    | 57    |
| S                 | 0                   | 2   | 12   | 21    | 26    | 5    | 66    |
| SSW               | 1                   | 4   | 5    | 9     | 12    | 3    | 34    |
| SW                | 1                   | 3   | 4    | 8     | 20    | 2    | 38    |
| WSW               | 0                   | 7   | 23   | 10    | 8     | 13   | 61    |
| W                 | 1                   | 7   | 22   | 25    | 23    | 24   | 102   |
| WNW               | 1                   | 3   | 29   | 55    | 40    | 13   | 141   |
| NW                | 1                   | 4   | 25   | 53    | 30    | 4    | 117   |
| NNW               | 1                   | 9   | 20   | 43    | 29    | 14   | 116   |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 8                   | 75  | 297  | 401   | 279   | 85   | 1145  |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 22  
 Hours of missing stability measurements in all stability classes: 4

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

Period of Record: January - March 2006  
 Stability Class - Slightly Stable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 4   | 9    | 12    | 6     | 0    | 31    |
| NNE               | 0                   | 3   | 25   | 11    | 1     | 0    | 40    |
| NE                | 1                   | 8   | 4    | 2     | 0     | 0    | 15    |
| ENE               | 1                   | 7   | 6    | 0     | 0     | 0    | 14    |
| E                 | 1                   | 2   | 8    | 16    | 2     | 0    | 29    |
| ESE               | 2                   | 1   | 7    | 14    | 10    | 0    | 34    |
| SE                | 2                   | 8   | 13   | 27    | 4     | 0    | 54    |
| SSE               | 3                   | 6   | 8    | 18    | 16    | 8    | 59    |
| S                 | 0                   | 3   | 3    | 38    | 18    | 5    | 67    |
| SSW               | 0                   | 2   | 4    | 26    | 18    | 6    | 56    |
| SW                | 1                   | 1   | 5    | 27    | 8     | 1    | 43    |
| WSW               | 0                   | 3   | 7    | 4     | 5     | 2    | 21    |
| W                 | 0                   | 1   | 11   | 19    | 1     | 0    | 32    |
| WNW               | 3                   | 2   | 8    | 19    | 5     | 0    | 37    |
| NW                | 2                   | 1   | 19   | 32    | 4     | 0    | 58    |
| NNW               | 1                   | 2   | 18   | 14    | 4     | 0    | 39    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 17                  | 54  | 155  | 279   | 102   | 22   | 629   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 6  
 Hours of missing stability measurements in all stability classes: 4

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

Period of Record: January - March 2006  
 Stability Class - Moderately Stable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 1                   | 0   | 4    | 6     | 0     | 0    | 11    |
| NNE               | 0                   | 2   | 4    | 4     | 0     | 0    | 10    |
| NE                | 0                   | 0   | 2    | 0     | 0     | 0    | 2     |
| ENE               | 0                   | 3   | 1    | 0     | 0     | 0    | 4     |
| E                 | 0                   | 0   | 1    | 0     | 0     | 0    | 1     |
| ESE               | 1                   | 0   | 0    | 1     | 0     | 0    | 2     |
| SE                | 1                   | 1   | 0    | 2     | 0     | 0    | 4     |
| SSE               | 0                   | 2   | 5    | 2     | 0     | 0    | 9     |
| S                 | 0                   | 0   | 0    | 1     | 0     | 0    | 1     |
| SSW               | 0                   | 0   | 1    | 1     | 0     | 0    | 2     |
| SW                | 2                   | 2   | 0    | 2     | 1     | 0    | 7     |
| WSW               | 0                   | 0   | 4    | 13    | 0     | 0    | 17    |
| W                 | 0                   | 1   | 2    | 13    | 0     | 0    | 16    |
| WNW               | 0                   | 6   | 4    | 1     | 1     | 0    | 12    |
| NW                | 0                   | 2   | 5    | 5     | 0     | 0    | 12    |
| NNW               | 0                   | 1   | 2    | 3     | 0     | 0    | 6     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 5                   | 20  | 35   | 54    | 2     | 0    | 116   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 4



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METEOROLOGICAL DATA

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

Period of Record: January - March 2006  
 Stability Class - Extremely Stable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 0   | 0    | 1     | 0     | 0    | 1     |
| NNE               | 0                   | 0   | 0    | 3     | 0     | 0    | 3     |
| NE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ENE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| E                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ESE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSE               | 0                   | 0   | 2    | 1     | 0     | 0    | 3     |
| S                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSW               | 0                   | 0   | 0    | 1     | 1     | 0    | 2     |
| SW                | 0                   | 0   | 1    | 0     | 0     | 0    | 1     |
| WSW               | 0                   | 1   | 0    | 1     | 0     | 0    | 2     |
| W                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| WNW               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NW                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NNW               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 1   | 3    | 7     | 1     | 0    | 12    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 4

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METEOROLOGICAL DATA

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

Period of Record: April - June 2006  
 Stability Class - Extremely Unstable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 4                   | 30  | 2    | 0     | 0     | 0    | 36    |
| NNE               | 3                   | 26  | 9    | 2     | 0     | 0    | 40    |
| NE                | 3                   | 47  | 16   | 3     | 0     | 0    | 69    |
| ENE               | 0                   | 26  | 7    | 0     | 0     | 0    | 33    |
| E                 | 0                   | 6   | 10   | 2     | 0     | 0    | 18    |
| ESE               | 0                   | 0   | 5    | 8     | 0     | 0    | 13    |
| SE                | 0                   | 6   | 7    | 5     | 0     | 0    | 18    |
| SSE               | 0                   | 13  | 1    | 4     | 0     | 0    | 18    |
| S                 | 1                   | 4   | 19   | 9     | 2     | 0    | 35    |
| SSW               | 1                   | 3   | 17   | 8     | 0     | 0    | 29    |
| SW                | 1                   | 3   | 8    | 2     | 0     | 0    | 14    |
| WSW               | 1                   | 7   | 16   | 2     | 0     | 0    | 26    |
| W                 | 0                   | 8   | 6    | 8     | 0     | 0    | 22    |
| WNW               | 1                   | 10  | 31   | 15    | 0     | 0    | 57    |
| NW                | 1                   | 17  | 18   | 4     | 0     | 0    | 40    |
| NNW               | 1                   | 29  | 7    | 0     | 0     | 0    | 37    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 17                  | 235 | 179  | 72    | 2     | 0    | 505   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: April - June 2006  
 Stability Class - Moderately Unstable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 4                   | 0   | 0    | 0     | 0     | 0    | 4     |
| NNE               | 2                   | 0   | 1    | 0     | 0     | 0    | 3     |
| NE                | 2                   | 8   | 2    | 0     | 0     | 0    | 12    |
| ENE               | 0                   | 2   | 2    | 0     | 0     | 0    | 4     |
| E                 | 0                   | 5   | 1    | 0     | 0     | 0    | 6     |
| ESE               | 1                   | 1   | 5    | 0     | 0     | 0    | 7     |
| SE                | 0                   | 1   | 1    | 1     | 0     | 0    | 3     |
| SSE               | 1                   | 6   | 1    | 2     | 0     | 0    | 10    |
| S                 | 3                   | 2   | 0    | 5     | 0     | 0    | 10    |
| SSW               | 1                   | 1   | 3    | 0     | 0     | 0    | 5     |
| SW                | 0                   | 1   | 2    | 0     | 0     | 0    | 3     |
| WSW               | 1                   | 2   | 0    | 0     | 0     | 0    | 3     |
| W                 | 1                   | 1   | 4    | 0     | 0     | 0    | 6     |
| WNW               | 0                   | 4   | 5    | 1     | 0     | 0    | 10    |
| NW                | 0                   | 1   | 4    | 0     | 0     | 0    | 5     |
| NNW               | 2                   | 1   | 2    | 0     | 0     | 0    | 5     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 18                  | 36  | 33   | 9     | 0     | 0    | 96    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: April - June 2006  
 Stability Class - Slightly Unstable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 2                   | 0   | 0    | 0     | 0     | 0    | 2     |
| NNE               | 0                   | 2   | 0    | 0     | 0     | 0    | 2     |
| NE                | 1                   | 7   | 1    | 0     | 0     | 0    | 9     |
| ENE               | 0                   | 4   | 2    | 0     | 0     | 0    | 6     |
| E                 | 1                   | 0   | 1    | 0     | 0     | 0    | 2     |
| ESE               | 0                   | 1   | 1    | 0     | 0     | 0    | 2     |
| SE                | 0                   | 0   | 3    | 0     | 0     | 0    | 3     |
| SSE               | 0                   | 1   | 2    | 2     | 0     | 0    | 5     |
| S                 | 1                   | 3   | 3    | 0     | 0     | 0    | 7     |
| SSW               | 0                   | 1   | 5    | 1     | 0     | 0    | 7     |
| SW                | 0                   | 0   | 0    | 1     | 0     | 0    | 1     |
| WSW               | 0                   | 5   | 2    | 2     | 0     | 0    | 9     |
| W                 | 0                   | 2   | 1    | 0     | 0     | 0    | 3     |
| WNW               | 0                   | 6   | 0    | 1     | 0     | 0    | 7     |
| NW                | 1                   | 3   | 2    | 2     | 0     | 0    | 8     |
| NNW               | 4                   | 1   | 0    | 0     | 0     | 0    | 5     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 10                  | 36  | 23   | 9     | 0     | 0    | 78    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: April - June 2006  
 Stability Class - Neutral - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 2                   | 8   | 1    | 0     | 0     | 0    | 11    |
| NNE               | 3                   | 14  | 14   | 7     | 0     | 0    | 38    |
| NE                | 7                   | 50  | 30   | 4     | 0     | 0    | 91    |
| ENE               | 3                   | 27  | 8    | 1     | 0     | 0    | 39    |
| E                 | 3                   | 14  | 22   | 16    | 0     | 0    | 55    |
| ESE               | 2                   | 4   | 19   | 24    | 9     | 0    | 58    |
| SE                | 0                   | 7   | 12   | 12    | 9     | 2    | 42    |
| SSE               | 3                   | 8   | 22   | 12    | 2     | 0    | 47    |
| S                 | 3                   | 6   | 18   | 13    | 6     | 0    | 46    |
| SSW               | 2                   | 3   | 14   | 3     | 0     | 0    | 22    |
| SW                | 5                   | 4   | 10   | 4     | 0     | 0    | 23    |
| WSW               | 6                   | 14  | 6    | 0     | 0     | 0    | 26    |
| W                 | 2                   | 25  | 13   | 7     | 0     | 0    | 47    |
| WNW               | 6                   | 16  | 24   | 10    | 0     | 0    | 56    |
| NW                | 4                   | 10  | 11   | 8     | 0     | 0    | 33    |
| NNW               | 9                   | 10  | 0    | 0     | 1     | 0    | 20    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 60                  | 220 | 224  | 121   | 27    | 2    | 654   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: April - June 2006  
 Stability Class - Slightly Stable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 24                  | 4   | 0    | 0     | 0     | 0    | 28    |
| NNE               | 20                  | 7   | 0    | 1     | 0     | 0    | 28    |
| NE                | 14                  | 21  | 2    | 0     | 0     | 0    | 37    |
| ENE               | 3                   | 21  | 1    | 0     | 0     | 0    | 25    |
| E                 | 7                   | 21  | 11   | 0     | 0     | 0    | 39    |
| ESE               | 3                   | 9   | 10   | 1     | 0     | 0    | 23    |
| SE                | 4                   | 11  | 10   | 3     | 0     | 0    | 28    |
| SSE               | 1                   | 31  | 20   | 2     | 0     | 0    | 54    |
| S                 | 10                  | 28  | 23   | 3     | 1     | 0    | 65    |
| SSW               | 8                   | 16  | 3    | 7     | 0     | 0    | 34    |
| SW                | 10                  | 13  | 3    | 2     | 0     | 0    | 28    |
| WSW               | 4                   | 6   | 1    | 0     | 0     | 0    | 11    |
| W                 | 9                   | 25  | 0    | 0     | 0     | 0    | 34    |
| WNW               | 10                  | 21  | 9    | 0     | 0     | 0    | 40    |
| NW                | 19                  | 20  | 6    | 0     | 0     | 0    | 45    |
| NNW               | 15                  | 14  | 0    | 0     | 0     | 0    | 29    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 161                 | 268 | 99   | 19    | 1     | 0    | 548   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: April - June 2006  
 Stability Class - Moderately Stable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 8                   | 2   | 0    | 0     | 0     | 0    | 10    |
| NNE               | 7                   | 1   | 0    | 0     | 0     | 0    | 8     |
| NE                | 2                   | 1   | 0    | 0     | 0     | 0    | 3     |
| ENE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| E                 | 1                   | 2   | 0    | 0     | 0     | 0    | 3     |
| ESE               | 1                   | 1   | 0    | 0     | 0     | 0    | 2     |
| SE                | 3                   | 8   | 4    | 0     | 0     | 0    | 15    |
| SSE               | 4                   | 6   | 1    | 0     | 0     | 0    | 11    |
| S                 | 5                   | 10  | 0    | 0     | 0     | 0    | 15    |
| SSW               | 10                  | 5   | 0    | 0     | 0     | 0    | 15    |
| SW                | 9                   | 14  | 0    | 0     | 0     | 0    | 23    |
| WSW               | 11                  | 9   | 0    | 0     | 0     | 0    | 20    |
| W                 | 8                   | 7   | 0    | 0     | 0     | 0    | 15    |
| WNW               | 7                   | 2   | 0    | 0     | 0     | 0    | 9     |
| NW                | 27                  | 5   | 0    | 0     | 0     | 0    | 32    |
| NNW               | 23                  | 2   | 0    | 0     | 0     | 0    | 25    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 126                 | 75  | 5    | 0     | 0     | 0    | 206   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: April - June 2006  
 Stability Class - Extremely Stable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 6                   | 0   | 0    | 0     | 0     | 0    | 6     |
| NNE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ENE               | 1                   | 0   | 0    | 0     | 0     | 0    | 1     |
| E                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ESE               | 1                   | 0   | 0    | 0     | 0     | 0    | 1     |
| SE                | 1                   | 0   | 0    | 0     | 0     | 0    | 1     |
| SSE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| S                 | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| SSW               | 5                   | 2   | 0    | 0     | 0     | 0    | 7     |
| SW                | 2                   | 5   | 0    | 0     | 0     | 0    | 7     |
| WSW               | 6                   | 3   | 0    | 0     | 0     | 0    | 9     |
| W                 | 4                   | 2   | 0    | 0     | 0     | 0    | 6     |
| WNW               | 5                   | 0   | 0    | 0     | 0     | 0    | 5     |
| NW                | 7                   | 1   | 0    | 0     | 0     | 0    | 8     |
| NNW               | 9                   | 0   | 0    | 0     | 0     | 0    | 9     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 47                  | 14  | 0    | 0     | 0     | 0    | 61    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0



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METEOROLOGICAL DATA

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

Period of Record: April - June 2006  
 Stability Class - Extremely Unstable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 0   | 4    | 3     | 0     | 0    | 7     |
| NNE               | 0                   | 2   | 3    | 4     | 1     | 0    | 10    |
| NE                | 0                   | 1   | 2    | 1     | 1     | 0    | 5     |
| ENE               | 0                   | 0   | 1    | 0     | 0     | 0    | 1     |
| E                 | 0                   | 0   | 1    | 0     | 0     | 0    | 1     |
| ESE               | 0                   | 0   | 0    | 1     | 0     | 0    | 1     |
| SE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| S                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSW               | 0                   | 0   | 0    | 1     | 0     | 0    | 1     |
| SW                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| WSW               | 0                   | 0   | 0    | 0     | 1     | 0    | 1     |
| W                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| WNW               | 0                   | 0   | 0    | 1     | 6     | 3    | 10    |
| NW                | 0                   | 0   | 3    | 1     | 0     | 0    | 4     |
| NNW               | 0                   | 0   | 1    | 2     | 0     | 0    | 3     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 3   | 15   | 14    | 9     | 3    | 44    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: April - June 2006  
 Stability Class - Moderately Unstable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 2   | 4    | 3     | 0     | 0    | 9     |
| NNE               | 0                   | 2   | 9    | 3     | 1     | 2    | 17    |
| NE                | 0                   | 3   | 6    | 5     | 1     | 0    | 15    |
| ENE               | 0                   | 2   | 2    | 0     | 0     | 0    | 4     |
| E                 | 0                   | 0   | 3    | 0     | 0     | 0    | 3     |
| ESE               | 0                   | 0   | 0    | 2     | 3     | 0    | 5     |
| SE                | 0                   | 0   | 0    | 2     | 0     | 0    | 2     |
| SSE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| S                 | 0                   | 0   | 0    | 1     | 2     | 0    | 3     |
| SSW               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SW                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| WSW               | 0                   | 0   | 2    | 1     | 0     | 0    | 3     |
| W                 | 0                   | 1   | 0    | 0     | 2     | 0    | 3     |
| WNW               | 0                   | 0   | 1    | 10    | 5     | 0    | 16    |
| NW                | 0                   | 0   | 2    | 4     | 1     | 2    | 9     |
| NNW               | 0                   | 2   | 0    | 3     | 0     | 0    | 5     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 12  | 29   | 34    | 15    | 4    | 94    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 1  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: April - June 2006  
 Stability Class - Slightly Unstable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 4   | 7    | 1     | 0     | 0    | 12    |
| NNE               | 0                   | 4   | 4    | 3     | 1     | 0    | 12    |
| NE                | 0                   | 4   | 7    | 5     | 0     | 0    | 16    |
| ENE               | 0                   | 2   | 8    | 1     | 0     | 0    | 11    |
| E                 | 0                   | 1   | 4    | 2     | 0     | 0    | 7     |
| ESE               | 0                   | 0   | 0    | 3     | 1     | 1    | 5     |
| SE                | 0                   | 2   | 4    | 0     | 0     | 0    | 6     |
| SSE               | 0                   | 3   | 0    | 2     | 0     | 0    | 5     |
| S                 | 1                   | 0   | 1    | 3     | 2     | 2    | 9     |
| SSW               | 0                   | 1   | 1    | 5     | 1     | 0    | 8     |
| SW                | 0                   | 0   | 0    | 1     | 1     | 0    | 2     |
| WSW               | 0                   | 0   | 4    | 2     | 3     | 0    | 9     |
| W                 | 0                   | 0   | 0    | 3     | 3     | 0    | 6     |
| WNW               | 0                   | 0   | 3    | 7     | 1     | 0    | 11    |
| NW                | 0                   | 0   | 3    | 6     | 2     | 0    | 11    |
| NNW               | 0                   | 3   | 4    | 5     | 1     | 0    | 13    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 1                   | 24  | 50   | 49    | 16    | 3    | 143   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: April - June 2006  
 Stability Class - Neutral - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 11  | 9    | 5     | 1     | 0    | 26    |
| NNE               | 2                   | 10  | 16   | 22    | 10    | 8    | 68    |
| NE                | 1                   | 12  | 39   | 44    | 11    | 4    | 111   |
| ENE               | 0                   | 18  | 34   | 9     | 2     | 1    | 64    |
| E                 | 2                   | 9   | 27   | 10    | 6     | 7    | 61    |
| ESE               | 0                   | 4   | 3    | 15    | 24    | 13   | 59    |
| SE                | 2                   | 3   | 8    | 20    | 10    | 13   | 56    |
| SSE               | 0                   | 12  | 12   | 20    | 11    | 4    | 59    |
| S                 | 3                   | 6   | 17   | 27    | 14    | 7    | 74    |
| SSW               | 4                   | 5   | 12   | 27    | 5     | 0    | 53    |
| SW                | 2                   | 6   | 2    | 14    | 9     | 2    | 35    |
| WSW               | 3                   | 6   | 20   | 11    | 2     | 1    | 43    |
| W                 | 0                   | 8   | 23   | 13    | 5     | 5    | 54    |
| WNW               | 1                   | 11  | 21   | 23    | 27    | 10   | 93    |
| NW                | 6                   | 10  | 13   | 21    | 9     | 7    | 66    |
| NNW               | 0                   | 16  | 8    | 8     | 3     | 2    | 37    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 26                  | 147 | 264  | 289   | 149   | 84   | 959   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 4  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: April - June 2006  
 Stability Class - Slightly Stable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 2                   | 6   | 9    | 4     | 0     | 0    | 21    |
| NNE               | 1                   | 8   | 24   | 8     | 1     | 0    | 42    |
| NE                | 2                   | 11  | 21   | 10    | 1     | 0    | 45    |
| ENE               | 0                   | 11  | 14   | 0     | 0     | 0    | 25    |
| E                 | 3                   | 2   | 19   | 10    | 7     | 2    | 43    |
| ESE               | 0                   | 5   | 7    | 14    | 8     | 2    | 36    |
| SE                | 1                   | 3   | 7    | 12    | 5     | 1    | 29    |
| SSE               | 1                   | 3   | 12   | 21    | 9     | 1    | 47    |
| S                 | 2                   | 4   | 11   | 40    | 34    | 10   | 101   |
| SSW               | 2                   | 5   | 7    | 20    | 4     | 8    | 46    |
| SW                | 0                   | 2   | 12   | 8     | 4     | 2    | 28    |
| WSW               | 3                   | 6   | 9    | 8     | 1     | 0    | 27    |
| W                 | 1                   | 4   | 14   | 20    | 0     | 0    | 39    |
| WNW               | 0                   | 4   | 14   | 20    | 8     | 0    | 46    |
| NW                | 0                   | 0   | 12   | 26    | 5     | 0    | 43    |
| NNW               | 0                   | 4   | 14   | 17    | 0     | 0    | 35    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 18                  | 78  | 206  | 238   | 87    | 26   | 653   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 3  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: April - June 2006  
 Stability Class - Moderately Stable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 1                   | 3   | 7    | 6     | 0     | 0    | 17    |
| NNE               | 2                   | 4   | 7    | 8     | 2     | 0    | 23    |
| NE                | 1                   | 2   | 1    | 1     | 0     | 0    | 5     |
| ENE               | 0                   | 2   | 2    | 0     | 0     | 0    | 4     |
| E                 | 0                   | 1   | 1    | 1     | 0     | 0    | 3     |
| ESE               | 2                   | 1   | 4    | 1     | 0     | 0    | 8     |
| SE                | 0                   | 5   | 6    | 11    | 1     | 0    | 23    |
| SSE               | 1                   | 2   | 6    | 8     | 1     | 0    | 18    |
| S                 | 0                   | 1   | 2    | 8     | 4     | 0    | 15    |
| SSW               | 0                   | 0   | 0    | 4     | 1     | 0    | 5     |
| SW                | 2                   | 1   | 2    | 15    | 2     | 0    | 22    |
| WSW               | 2                   | 1   | 6    | 9     | 0     | 0    | 18    |
| W                 | 1                   | 4   | 5    | 6     | 0     | 0    | 16    |
| WNW               | 1                   | 1   | 5    | 4     | 3     | 0    | 14    |
| NW                | 1                   | 2   | 7    | 10    | 0     | 0    | 20    |
| NNW               | 2                   | 4   | 11   | 14    | 0     | 0    | 31    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 16                  | 34  | 72   | 106   | 14    | 0    | 242   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 2  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: April - June 2006  
 Stability Class - Extremely Stable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 0   | 3    | 1     | 0     | 0    | 4     |
| NNE               | 0                   | 1   | 1    | 1     | 0     | 0    | 3     |
| NE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ENE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| E                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ESE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| S                 | 0                   | 0   | 1    | 0     | 0     | 0    | 1     |
| SSW               | 0                   | 1   | 0    | 2     | 0     | 0    | 3     |
| SW                | 1                   | 0   | 1    | 1     | 0     | 0    | 3     |
| WSW               | 1                   | 0   | 2    | 3     | 0     | 0    | 6     |
| W                 | 1                   | 0   | 2    | 0     | 0     | 0    | 3     |
| WNW               | 1                   | 2   | 0    | 3     | 0     | 0    | 6     |
| NW                | 0                   | 2   | 0    | 3     | 0     | 0    | 5     |
| NNW               | 0                   | 0   | 2    | 2     | 1     | 0    | 5     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 4                   | 6   | 12   | 16    | 1     | 0    | 39    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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

Period of Record: July - September 2006  
 Stability Class - Extremely Unstable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 9   | 3    | 0     | 0     | 0    | 12    |
| NNE               | 0                   | 12  | 0    | 0     | 0     | 0    | 12    |
| NE                | 0                   | 26  | 18   | 0     | 0     | 0    | 44    |
| ENE               | 0                   | 17  | 5    | 0     | 0     | 0    | 22    |
| E                 | 0                   | 7   | 1    | 0     | 0     | 0    | 8     |
| ESE               | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| SE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSE               | 0                   | 3   | 1    | 1     | 0     | 0    | 5     |
| S                 | 0                   | 2   | 0    | 1     | 0     | 0    | 3     |
| SSW               | 0                   | 0   | 6    | 2     | 0     | 0    | 8     |
| SW                | 0                   | 0   | 9    | 6     | 0     | 0    | 15    |
| WSW               | 0                   | 1   | 7    | 0     | 0     | 0    | 8     |
| W                 | 0                   | 0   | 2    | 0     | 0     | 0    | 2     |
| WNW               | 0                   | 4   | 5    | 0     | 0     | 0    | 9     |
| NW                | 0                   | 6   | 0    | 0     | 0     | 0    | 6     |
| NNW               | 0                   | 13  | 2    | 0     | 0     | 0    | 15    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 101 | 59   | 10    | 0     | 0    | 170   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0



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METEOROLOGICAL DATA

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

Period of Record: July - September 2006  
 Stability Class - Moderately Unstable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NNE               | 1                   | 0   | 0    | 0     | 0     | 0    | 1     |
| NE                | 0                   | 4   | 2    | 0     | 0     | 0    | 6     |
| ENE               | 0                   | 5   | 2    | 0     | 0     | 0    | 7     |
| E                 | 1                   | 3   | 1    | 0     | 0     | 0    | 5     |
| ESE               | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| SE                | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| SSE               | 2                   | 0   | 1    | 1     | 0     | 0    | 4     |
| S                 | 0                   | 0   | 2    | 1     | 0     | 0    | 3     |
| SSW               | 0                   | 1   | 5    | 2     | 0     | 0    | 8     |
| SW                | 0                   | 0   | 3    | 4     | 0     | 0    | 7     |
| WSW               | 0                   | 3   | 1    | 0     | 0     | 0    | 4     |
| W                 | 0                   | 2   | 2    | 0     | 0     | 0    | 4     |
| WNW               | 1                   | 5   | 0    | 0     | 0     | 0    | 6     |
| NW                | 0                   | 5   | 0    | 0     | 0     | 0    | 5     |
| NNW               | 0                   | 4   | 0    | 0     | 0     | 0    | 4     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 5                   | 34  | 19   | 8     | 0     | 0    | 66    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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

Period of Record: July - September 2006  
 Stability Class - Slightly Unstable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 3                   | 6   | 0    | 0     | 0     | 0    | 9     |
| NNE               | 0                   | 2   | 0    | 0     | 0     | 0    | 2     |
| NE                | 0                   | 7   | 2    | 0     | 0     | 0    | 9     |
| ENE               | 1                   | 9   | 1    | 0     | 0     | 0    | 11    |
| E                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ESE               | 0                   | 4   | 1    | 0     | 0     | 0    | 5     |
| SE                | 0                   | 2   | 0    | 0     | 0     | 0    | 2     |
| SSE               | 1                   | 5   | 2    | 1     | 0     | 0    | 9     |
| S                 | 0                   | 3   | 5    | 1     | 0     | 0    | 9     |
| SSW               | 0                   | 4   | 11   | 2     | 0     | 0    | 17    |
| SW                | 0                   | 2   | 5    | 1     | 0     | 0    | 8     |
| WSW               | 0                   | 6   | 4    | 0     | 0     | 0    | 10    |
| W                 | 0                   | 3   | 1    | 0     | 0     | 0    | 4     |
| WNW               | 0                   | 5   | 0    | 0     | 0     | 0    | 5     |
| NW                | 0                   | 5   | 1    | 0     | 0     | 0    | 6     |
| NNW               | 1                   | 2   | 0    | 0     | 0     | 0    | 3     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 6                   | 65  | 33   | 5     | 0     | 0    | 109   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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

Period of Record: July - September 2006  
 Stability Class - Neutral - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 4                   | 3   | 0    | 0     | 0     | 0    | 7     |
| NNE               | 4                   | 13  | 0    | 0     | 0     | 0    | 17    |
| NE                | 2                   | 30  | 17   | 0     | 0     | 0    | 49    |
| ENE               | 6                   | 27  | 9    | 0     | 0     | 0    | 42    |
| E                 | 2                   | 32  | 8    | 0     | 0     | 0    | 42    |
| ESE               | 4                   | 11  | 11   | 0     | 0     | 0    | 26    |
| SE                | 2                   | 10  | 11   | 3     | 0     | 0    | 26    |
| SSE               | 3                   | 20  | 18   | 8     | 0     | 0    | 49    |
| S                 | 7                   | 38  | 15   | 1     | 0     | 0    | 61    |
| SSW               | 2                   | 20  | 20   | 4     | 0     | 0    | 46    |
| SW                | 3                   | 21  | 22   | 8     | 0     | 0    | 54    |
| WSW               | 1                   | 31  | 8    | 1     | 0     | 0    | 41    |
| W                 | 4                   | 29  | 13   | 1     | 0     | 0    | 47    |
| WNW               | 2                   | 24  | 12   | 0     | 0     | 0    | 38    |
| NW                | 5                   | 10  | 2    | 0     | 0     | 0    | 17    |
| NNW               | 10                  | 24  | 2    | 0     | 0     | 0    | 36    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 61                  | 343 | 168  | 26    | 0     | 0    | 598   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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

Period of Record: July - September 2006  
 Stability Class - Slightly Stable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 30                  | 10  | 2    | 0     | 0     | 0    | 42    |
| NNE               | 14                  | 8   | 0    | 0     | 0     | 0    | 22    |
| NE                | 20                  | 76  | 5    | 0     | 0     | 0    | 101   |
| ENE               | 9                   | 44  | 1    | 0     | 0     | 0    | 54    |
| E                 | 14                  | 42  | 3    | 0     | 0     | 0    | 59    |
| ESE               | 9                   | 26  | 7    | 2     | 0     | 0    | 44    |
| SE                | 9                   | 20  | 12   | 5     | 0     | 0    | 46    |
| SSE               | 17                  | 58  | 17   | 0     | 0     | 0    | 92    |
| S                 | 20                  | 52  | 24   | 1     | 0     | 0    | 97    |
| SSW               | 22                  | 49  | 23   | 4     | 0     | 0    | 98    |
| SW                | 13                  | 37  | 10   | 1     | 0     | 0    | 61    |
| WSW               | 3                   | 18  | 8    | 0     | 0     | 0    | 29    |
| W                 | 8                   | 22  | 8    | 0     | 0     | 0    | 38    |
| WNW               | 10                  | 29  | 6    | 0     | 0     | 0    | 45    |
| NW                | 18                  | 15  | 0    | 0     | 0     | 0    | 33    |
| NNW               | 20                  | 19  | 0    | 0     | 0     | 0    | 39    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 236                 | 525 | 126  | 13    | 0     | 0    | 900   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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

Period of Record: July - September 2006  
 Stability Class - Moderately Stable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 8                   | 0   | 0    | 0     | 0     | 0    | 8     |
| NNE               | 12                  | 0   | 0    | 0     | 0     | 0    | 12    |
| NE                | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| ENE               | 3                   | 4   | 0    | 0     | 0     | 0    | 7     |
| E                 | 8                   | 11  | 1    | 0     | 0     | 0    | 20    |
| ESE               | 7                   | 18  | 0    | 0     | 0     | 0    | 25    |
| SE                | 13                  | 4   | 2    | 0     | 0     | 0    | 19    |
| SSE               | 9                   | 5   | 0    | 0     | 0     | 0    | 14    |
| S                 | 7                   | 11  | 1    | 0     | 0     | 0    | 19    |
| SSW               | 8                   | 7   | 0    | 0     | 0     | 0    | 15    |
| SW                | 20                  | 28  | 0    | 0     | 0     | 0    | 48    |
| WSW               | 7                   | 4   | 0    | 0     | 0     | 0    | 11    |
| W                 | 14                  | 2   | 0    | 0     | 0     | 0    | 16    |
| WNW               | 12                  | 1   | 0    | 0     | 0     | 0    | 13    |
| NW                | 10                  | 0   | 0    | 0     | 0     | 0    | 10    |
| NNW               | 8                   | 0   | 0    | 0     | 0     | 0    | 8     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 146                 | 96  | 4    | 0     | 0     | 0    | 246   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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

Period of Record: July - September 2006  
 Stability Class - Extremely Stable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 2                   | 0   | 0    | 0     | 0     | 0    | 2     |
| NNE               | 4                   | 0   | 0    | 0     | 0     | 0    | 4     |
| NE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ENE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| E                 | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| ESE               | 4                   | 0   | 0    | 0     | 0     | 0    | 4     |
| SE                | 2                   | 0   | 0    | 0     | 0     | 0    | 2     |
| SSE               | 6                   | 1   | 0    | 0     | 0     | 0    | 7     |
| S                 | 9                   | 1   | 0    | 0     | 0     | 0    | 10    |
| SSW               | 8                   | 1   | 0    | 0     | 0     | 0    | 9     |
| SW                | 20                  | 3   | 0    | 0     | 0     | 0    | 23    |
| WSW               | 6                   | 0   | 0    | 0     | 0     | 0    | 6     |
| W                 | 6                   | 0   | 0    | 0     | 0     | 0    | 6     |
| WNW               | 6                   | 0   | 0    | 0     | 0     | 0    | 6     |
| NW                | 9                   | 0   | 0    | 0     | 0     | 0    | 9     |
| NNW               | 2                   | 0   | 0    | 0     | 0     | 0    | 2     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 84                  | 7   | 0    | 0     | 0     | 0    | 91    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: July - September 2006  
 Stability Class - Extremely Unstable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 0   | 2    | 1     | 0     | 0    | 3     |
| NNE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NE                | 0                   | 2   | 1    | 1     | 0     | 0    | 4     |
| ENE               | 0                   | 2   | 0    | 0     | 0     | 0    | 2     |
| E                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ESE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| S                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSW               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SW                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| WSW               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| W                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| WNW               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NW                | 0                   | 0   | 1    | 0     | 0     | 0    | 1     |
| NNW               | 0                   | 0   | 0    | 1     | 0     | 0    | 1     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 4   | 4    | 3     | 0     | 0    | 11    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 1

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METEOROLOGICAL DATA

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

Period of Record: July - September 2006  
 Stability Class - Moderately Unstable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 0   | 1    | 2     | 0     | 0    | 3     |
| NNE               | 0                   | 0   | 1    | 4     | 0     | 0    | 5     |
| NE                | 0                   | 2   | 3    | 9     | 0     | 0    | 14    |
| ENE               | 0                   | 1   | 5    | 1     | 0     | 0    | 7     |
| E                 | 0                   | 0   | 3    | 0     | 0     | 0    | 3     |
| ESE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSE               | 0                   | 0   | 0    | 2     | 0     | 0    | 2     |
| S                 | 0                   | 0   | 0    | 0     | 1     | 0    | 1     |
| SSW               | 0                   | 0   | 1    | 1     | 0     | 0    | 2     |
| SW                | 0                   | 0   | 0    | 2     | 0     | 0    | 2     |
| WSW               | 0                   | 0   | 0    | 1     | 0     | 0    | 1     |
| W                 | 0                   | 0   | 0    | 0     | 1     | 0    | 1     |
| WNW               | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| NW                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NNW               | 0                   | 1   | 3    | 0     | 0     | 0    | 4     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 5   | 17   | 22    | 2     | 0    | 46    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 1



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METEOROLOGICAL DATA

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

Period of Record: July - September 2006  
 Stability Class - Slightly Unstable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 1                   | 0   | 2    | 0     | 0     | 0    | 3     |
| NNE               | 0                   | 2   | 7    | 2     | 0     | 0    | 11    |
| NE                | 0                   | 3   | 13   | 6     | 0     | 0    | 22    |
| ENE               | 0                   | 2   | 7    | 0     | 0     | 0    | 9     |
| E                 | 0                   | 1   | 2    | 1     | 0     | 0    | 4     |
| ESE               | 0                   | 0   | 2    | 0     | 0     | 0    | 2     |
| SE                | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| SSE               | 0                   | 2   | 1    | 2     | 1     | 0    | 6     |
| S                 | 0                   | 0   | 0    | 1     | 0     | 0    | 1     |
| SSW               | 0                   | 0   | 2    | 3     | 0     | 0    | 5     |
| SW                | 0                   | 0   | 3    | 5     | 1     | 0    | 9     |
| WSW               | 0                   | 3   | 3    | 2     | 0     | 0    | 8     |
| W                 | 0                   | 0   | 0    | 2     | 0     | 0    | 2     |
| WNW               | 0                   | 0   | 7    | 5     | 0     | 0    | 12    |
| NW                | 0                   | 1   | 4    | 0     | 0     | 0    | 5     |
| NNW               | 0                   | 1   | 2    | 1     | 0     | 0    | 4     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 1                   | 16  | 55   | 30    | 2     | 0    | 104   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 1

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METEOROLOGICAL DATA

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

Period of Record: July - September 2006  
 Stability Class - Neutral - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 1                   | 8   | 16   | 9     | 1     | 1    | 36    |
| NNE               | 0                   | 4   | 17   | 11    | 5     | 0    | 37    |
| NE                | 5                   | 11  | 32   | 18    | 4     | 0    | 70    |
| ENE               | 2                   | 32  | 64   | 4     | 0     | 0    | 102   |
| E                 | 2                   | 11  | 35   | 9     | 0     | 0    | 57    |
| ESE               | 1                   | 13  | 10   | 5     | 1     | 0    | 30    |
| SE                | 1                   | 6   | 11   | 10    | 6     | 1    | 35    |
| SSE               | 2                   | 24  | 23   | 19    | 7     | 1    | 76    |
| S                 | 2                   | 28  | 28   | 14    | 3     | 1    | 76    |
| SSW               | 2                   | 17  | 28   | 31    | 9     | 0    | 87    |
| SW                | 3                   | 14  | 22   | 30    | 11    | 3    | 83    |
| WSW               | 0                   | 22  | 14   | 9     | 1     | 0    | 46    |
| W                 | 2                   | 15  | 17   | 15    | 5     | 0    | 54    |
| WNW               | 0                   | 11  | 27   | 17    | 3     | 0    | 58    |
| NW                | 2                   | 13  | 13   | 6     | 2     | 0    | 36    |
| NNW               | 3                   | 19  | 13   | 20    | 0     | 0    | 55    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 28                  | 248 | 370  | 227   | 58    | 7    | 938   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 1

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METEOROLOGICAL DATA

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

Period of Record: July - September 2006  
 Stability Class - Slightly Stable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 1                   | 3   | 11   | 6     | 0     | 0    | 21    |
| NNE               | 0                   | 2   | 15   | 17    | 3     | 0    | 37    |
| NE                | 1                   | 10  | 22   | 19    | 1     | 0    | 53    |
| ENE               | 1                   | 17  | 25   | 1     | 1     | 0    | 45    |
| E                 | 5                   | 5   | 8    | 16    | 0     | 0    | 34    |
| ESE               | 2                   | 15  | 13   | 8     | 3     | 0    | 41    |
| SE                | 1                   | 12  | 27   | 25    | 3     | 1    | 69    |
| SSE               | 1                   | 12  | 24   | 19    | 6     | 0    | 62    |
| S                 | 2                   | 9   | 25   | 43    | 9     | 0    | 88    |
| SSW               | 1                   | 6   | 33   | 40    | 18    | 1    | 99    |
| SW                | 1                   | 6   | 26   | 34    | 11    | 1    | 79    |
| WSW               | 0                   | 4   | 15   | 18    | 1     | 0    | 38    |
| W                 | 2                   | 5   | 9    | 13    | 2     | 0    | 31    |
| WNW               | 1                   | 6   | 13   | 12    | 3     | 0    | 35    |
| NW                | 0                   | 4   | 7    | 9     | 0     | 0    | 20    |
| NNW               | 0                   | 4   | 18   | 13    | 1     | 0    | 36    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 19                  | 120 | 291  | 293   | 62    | 3    | 788   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 1

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METEOROLOGICAL DATA

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

Period of Record: July - September 2006  
 Stability Class - Moderately Stable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 1   | 5    | 2     | 0     | 0    | 8     |
| NNE               | 1                   | 4   | 3    | 5     | 0     | 0    | 13    |
| NE                | 0                   | 4   | 2    | 0     | 0     | 0    | 6     |
| ENE               | 0                   | 3   | 2    | 0     | 0     | 0    | 5     |
| E                 | 2                   | 4   | 3    | 5     | 0     | 0    | 14    |
| ESE               | 0                   | 5   | 9    | 10    | 1     | 0    | 25    |
| SE                | 1                   | 3   | 8    | 8     | 2     | 0    | 22    |
| SSE               | 2                   | 1   | 10   | 3     | 0     | 0    | 16    |
| S                 | 2                   | 5   | 1    | 5     | 1     | 0    | 14    |
| SSW               | 1                   | 5   | 7    | 7     | 4     | 0    | 24    |
| SW                | 0                   | 7   | 3    | 14    | 1     | 0    | 25    |
| WSW               | 1                   | 10  | 17   | 6     | 0     | 0    | 34    |
| W                 | 0                   | 7   | 14   | 6     | 0     | 0    | 27    |
| WNW               | 0                   | 2   | 7    | 7     | 0     | 0    | 16    |
| NW                | 0                   | 2   | 3    | 12    | 0     | 0    | 17    |
| NNW               | 1                   | 3   | 1    | 2     | 0     | 0    | 7     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 11                  | 66  | 95   | 92    | 9     | 0    | 273   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 1

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METEOROLOGICAL DATA

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

Period of Record: July - September 2006  
 Stability Class - Extremely Stable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NNE               | 0                   | 0   | 1    | 0     | 0     | 0    | 1     |
| NE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ENE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| E                 | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| ESE               | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| SE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSE               | 0                   | 0   | 1    | 0     | 0     | 0    | 1     |
| S                 | 0                   | 0   | 2    | 1     | 0     | 0    | 3     |
| SSW               | 0                   | 0   | 5    | 4     | 1     | 0    | 10    |
| SW                | 0                   | 0   | 4    | 1     | 0     | 0    | 5     |
| WSW               | 0                   | 1   | 2    | 0     | 0     | 0    | 3     |
| W                 | 0                   | 1   | 5    | 3     | 0     | 0    | 9     |
| WNW               | 0                   | 1   | 3    | 2     | 0     | 0    | 6     |
| NW                | 0                   | 2   | 2    | 3     | 0     | 0    | 7     |
| NNW               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 7   | 25   | 14    | 1     | 0    | 47    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 1

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

Period of Record: October - December 2006  
 Stability Class - Extremely Unstable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 0   | 5    | 0     | 0     | 0    | 5     |
| NNE               | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| NE                | 1                   | 3   | 5    | 0     | 0     | 0    | 9     |
| ENE               | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| E                 | 0                   | 1   | 2    | 0     | 0     | 0    | 3     |
| ESE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SE                | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| SSE               | 0                   | 4   | 2    | 0     | 0     | 0    | 6     |
| S                 | 0                   | 0   | 8    | 13    | 1     | 0    | 22    |
| SSW               | 0                   | 1   | 13   | 1     | 0     | 0    | 15    |
| SW                | 0                   | 0   | 3    | 0     | 0     | 0    | 3     |
| WSW               | 0                   | 0   | 1    | 0     | 4     | 0    | 5     |
| W                 | 0                   | 0   | 3    | 5     | 0     | 0    | 8     |
| WNW               | 0                   | 3   | 3    | 2     | 0     | 0    | 8     |
| NW                | 0                   | 3   | 3    | 5     | 0     | 0    | 11    |
| NNW               | 0                   | 8   | 2    | 0     | 0     | 0    | 10    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 1                   | 26  | 50   | 26    | 5     | 0    | 108   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: October - December 2006  
 Stability Class - Moderately Unstable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NNE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NE                | 0                   | 1   | 1    | 0     | 0     | 0    | 2     |
| ENE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| E                 | 0                   | 0   | 1    | 0     | 0     | 0    | 1     |
| ESE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SE                | 0                   | 1   | 1    | 0     | 0     | 0    | 2     |
| SSE               | 0                   | 1   | 4    | 1     | 0     | 0    | 6     |
| S                 | 0                   | 0   | 8    | 7     | 0     | 0    | 15    |
| SSW               | 0                   | 3   | 1    | 0     | 0     | 0    | 4     |
| SW                | 0                   | 1   | 1    | 0     | 0     | 0    | 2     |
| WSW               | 0                   | 0   | 3    | 0     | 1     | 0    | 4     |
| W                 | 0                   | 0   | 2    | 1     | 0     | 0    | 3     |
| WNW               | 0                   | 0   | 3    | 5     | 1     | 0    | 9     |
| NW                | 0                   | 2   | 2    | 0     | 0     | 0    | 4     |
| NNW               | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 10  | 27   | 14    | 2     | 0    | 53    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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

Period of Record: October - December 2006  
 Stability Class - Slightly Unstable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 2   | 1    | 3     | 0     | 0    | 6     |
| NNE               | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| NE                | 1                   | 2   | 0    | 0     | 0     | 0    | 3     |
| ENE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| E                 | 0                   | 2   | 0    | 0     | 0     | 0    | 2     |
| ESE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SE                | 0                   | 2   | 1    | 0     | 0     | 0    | 3     |
| SSE               | 0                   | 0   | 6    | 1     | 0     | 0    | 7     |
| S                 | 0                   | 2   | 5    | 5     | 0     | 0    | 12    |
| SSW               | 0                   | 0   | 3    | 1     | 0     | 0    | 4     |
| SW                | 0                   | 1   | 0    | 3     | 0     | 0    | 4     |
| WSW               | 1                   | 2   | 3    | 1     | 1     | 0    | 8     |
| W                 | 0                   | 2   | 4    | 3     | 0     | 0    | 9     |
| WNW               | 0                   | 1   | 5    | 1     | 0     | 0    | 7     |
| NW                | 0                   | 3   | 3    | 1     | 0     | 0    | 7     |
| NNW               | 1                   | 2   | 2    | 1     | 0     | 0    | 6     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 3                   | 22  | 33   | 20    | 1     | 0    | 79    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0



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

Period of Record: October - December 2006  
 Stability Class - Neutral - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 2                   | 9   | 18   | 9     | 0     | 0    | 38    |
| NNE               | 4                   | 5   | 16   | 12    | 0     | 0    | 37    |
| NE                | 3                   | 18  | 17   | 6     | 0     | 0    | 44    |
| ENE               | 1                   | 14  | 4    | 0     | 0     | 0    | 19    |
| E                 | 2                   | 19  | 30   | 2     | 0     | 0    | 53    |
| ESE               | 2                   | 8   | 23   | 4     | 2     | 0    | 39    |
| SE                | 3                   | 16  | 8    | 4     | 0     | 0    | 31    |
| SSE               | 0                   | 18  | 44   | 6     | 0     | 0    | 68    |
| S                 | 0                   | 22  | 46   | 20    | 1     | 0    | 89    |
| SSW               | 0                   | 10  | 23   | 17    | 0     | 0    | 50    |
| SW                | 4                   | 10  | 9    | 12    | 0     | 0    | 35    |
| WSW               | 2                   | 11  | 6    | 9     | 0     | 0    | 28    |
| W                 | 2                   | 17  | 59   | 19    | 1     | 0    | 98    |
| WNW               | 1                   | 10  | 34   | 8     | 0     | 0    | 53    |
| NW                | 7                   | 16  | 24   | 6     | 0     | 0    | 53    |
| NNW               | 4                   | 26  | 53   | 5     | 0     | 0    | 88    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 37                  | 229 | 414  | 139   | 4     | 0    | 823   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: October - December 2006  
 Stability Class - Slightly Stable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 2                   | 4   | 0    | 0     | 0     | 0    | 6     |
| NNE               | 4                   | 14  | 6    | 2     | 0     | 0    | 26    |
| NE                | 9                   | 6   | 6    | 2     | 0     | 0    | 23    |
| ENE               | 8                   | 19  | 0    | 0     | 0     | 0    | 27    |
| E                 | 4                   | 20  | 2    | 0     | 0     | 0    | 26    |
| ESE               | 5                   | 24  | 15   | 4     | 0     | 0    | 48    |
| SE                | 9                   | 27  | 26   | 3     | 0     | 0    | 65    |
| SSE               | 7                   | 55  | 52   | 8     | 0     | 0    | 122   |
| S                 | 4                   | 44  | 56   | 17    | 1     | 0    | 122   |
| SSW               | 6                   | 33  | 24   | 9     | 3     | 0    | 75    |
| SW                | 1                   | 21  | 25   | 9     | 0     | 0    | 56    |
| WSW               | 5                   | 8   | 13   | 4     | 0     | 0    | 30    |
| W                 | 6                   | 38  | 52   | 7     | 0     | 0    | 103   |
| WNW               | 8                   | 35  | 18   | 2     | 0     | 0    | 63    |
| NW                | 12                  | 20  | 11   | 0     | 0     | 0    | 43    |
| NNW               | 5                   | 21  | 6    | 1     | 0     | 0    | 33    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 95                  | 389 | 312  | 68    | 4     | 0    | 868   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: October - December 2006  
 Stability Class - Moderately Stable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 3                   | 0   | 0    | 0     | 0     | 0    | 3     |
| NNE               | 1                   | 2   | 0    | 0     | 0     | 0    | 3     |
| NE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ENE               | 1                   | 0   | 0    | 0     | 0     | 0    | 1     |
| E                 | 1                   | 4   | 0    | 0     | 0     | 0    | 5     |
| ESE               | 2                   | 31  | 2    | 0     | 0     | 0    | 35    |
| SE                | 5                   | 10  | 2    | 0     | 0     | 0    | 17    |
| SSE               | 11                  | 16  | 1    | 0     | 0     | 0    | 28    |
| S                 | 5                   | 3   | 3    | 0     | 0     | 0    | 11    |
| SSW               | 5                   | 14  | 1    | 0     | 0     | 0    | 20    |
| SW                | 1                   | 16  | 9    | 0     | 0     | 0    | 26    |
| WSW               | 3                   | 5   | 2    | 0     | 0     | 0    | 10    |
| W                 | 1                   | 6   | 0    | 0     | 0     | 0    | 7     |
| WNW               | 2                   | 3   | 0    | 0     | 0     | 0    | 5     |
| NW                | 2                   | 1   | 0    | 0     | 0     | 0    | 3     |
| NNW               | 1                   | 1   | 0    | 0     | 0     | 0    | 2     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 44                  | 112 | 20   | 0     | 0     | 0    | 176   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: October - December 2006  
 Stability Class - Extremely Stable - 150Ft-35Ft Delta-T (F)  
 Winds Measured at 35 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 1                   | 1   | 0    | 0     | 0     | 0    | 2     |
| NNE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ENE               | 1                   | 0   | 0    | 0     | 0     | 0    | 1     |
| E                 | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| ESE               | 1                   | 5   | 0    | 0     | 0     | 0    | 6     |
| SE                | 2                   | 2   | 0    | 0     | 0     | 0    | 4     |
| SSE               | 4                   | 1   | 1    | 0     | 0     | 0    | 6     |
| S                 | 2                   | 0   | 0    | 0     | 0     | 0    | 2     |
| SSW               | 4                   | 1   | 0    | 0     | 0     | 0    | 5     |
| SW                | 3                   | 6   | 0    | 0     | 0     | 0    | 9     |
| WSW               | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| W                 | 2                   | 0   | 0    | 0     | 0     | 0    | 2     |
| WNW               | 3                   | 0   | 0    | 0     | 0     | 0    | 3     |
| NW                | 2                   | 0   | 0    | 0     | 0     | 0    | 2     |
| NNW               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 25                  | 18  | 1    | 0     | 0     | 0    | 44    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 0

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METEOROLOGICAL DATA

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

Period of Record: October - December 2006  
 Stability Class - Extremely Unstable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NNE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NE                | 0                   | 0   | 0    | 1     | 0     | 0    | 1     |
| ENE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| E                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ESE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| S                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSW               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SW                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| WSW               | 0                   | 0   | 0    | 0     | 0     | 3    | 3     |
| W                 | 0                   | 0   | 0    | 1     | 0     | 0    | 1     |
| WNW               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NW                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NNW               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 0   | 0    | 2     | 0     | 3    | 5     |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 5

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METEOROLOGICAL DATA

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

Period of Record: October - December 2006  
 Stability Class - Moderately Unstable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 0   | 0    | 1     | 0     | 0    | 1     |
| NNE               | 0                   | 0   | 0    | 1     | 0     | 0    | 1     |
| NE                | 0                   | 0   | 0    | 2     | 0     | 0    | 2     |
| ENE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| E                 | 0                   | 0   | 1    | 2     | 0     | 0    | 3     |
| ESE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| S                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSW               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SW                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| WSW               | 0                   | 0   | 1    | 0     | 0     | 1    | 2     |
| W                 | 0                   | 0   | 0    | 2     | 1     | 0    | 3     |
| WNW               | 0                   | 0   | 1    | 1     | 0     | 2    | 4     |
| NW                | 0                   | 0   | 2    | 1     | 1     | 0    | 4     |
| NNW               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 0   | 5    | 10    | 2     | 3    | 20    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 5

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METEOROLOGICAL DATA

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

Period of Record: October - December 2006  
 Stability Class - Slightly Unstable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 0   | 0    | 2     | 0     | 0    | 2     |
| NNE               | 0                   | 2   | 0    | 0     | 0     | 0    | 2     |
| NE                | 0                   | 1   | 1    | 1     | 0     | 0    | 3     |
| ENE               | 0                   | 3   | 0    | 0     | 0     | 0    | 3     |
| E                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ESE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SE                | 0                   | 1   | 1    | 0     | 0     | 0    | 2     |
| SSE               | 0                   | 0   | 2    | 0     | 0     | 0    | 2     |
| S                 | 0                   | 0   | 2    | 4     | 1     | 0    | 7     |
| SSW               | 0                   | 0   | 0    | 1     | 0     | 0    | 1     |
| SW                | 0                   | 0   | 1    | 0     | 0     | 0    | 1     |
| WSW               | 0                   | 0   | 3    | 0     | 0     | 1    | 4     |
| W                 | 0                   | 0   | 2    | 1     | 3     | 2    | 8     |
| WNW               | 0                   | 0   | 3    | 1     | 1     | 5    | 10    |
| NW                | 0                   | 0   | 1    | 1     | 0     | 1    | 3     |
| NNW               | 0                   | 0   | 4    | 0     | 0     | 0    | 4     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 0                   | 7   | 20   | 11    | 5     | 9    | 52    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 5

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

Period of Record: October - December 2006  
 Stability Class - Neutral - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 1                   | 5   | 12   | 28    | 10    | 9    | 65    |
| NNE               | 3                   | 5   | 6    | 15    | 13    | 18   | 60    |
| NE                | 0                   | 4   | 7    | 18    | 10    | 1    | 40    |
| ENE               | 2                   | 7   | 18   | 4     | 0     | 0    | 31    |
| E                 | 1                   | 2   | 11   | 23    | 6     | 1    | 44    |
| ESE               | 0                   | 4   | 7    | 19    | 5     | 4    | 39    |
| SE                | 0                   | 8   | 11   | 6     | 6     | 1    | 32    |
| SSE               | 2                   | 9   | 25   | 49    | 5     | 0    | 90    |
| S                 | 0                   | 9   | 39   | 48    | 31    | 10   | 137   |
| SSW               | 2                   | 13  | 37   | 25    | 17    | 5    | 99    |
| SW                | 0                   | 7   | 15   | 8     | 13    | 4    | 47    |
| WSW               | 1                   | 9   | 9    | 7     | 4     | 8    | 38    |
| W                 | 0                   | 7   | 19   | 45    | 38    | 4    | 113   |
| WNW               | 1                   | 2   | 16   | 33    | 24    | 6    | 82    |
| NW                | 2                   | 7   | 21   | 25    | 17    | 3    | 75    |
| NNW               | 0                   | 12  | 31   | 38    | 28    | 1    | 110   |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 15                  | 110 | 284  | 391   | 227   | 75   | 1102  |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 15  
 Hours of missing stability measurements in all stability classes: 5



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

Period of Record: October - December 2006  
 Stability Class - Slightly Stable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 2                   | 0   | 2    | 3     | 2     | 0    | 9     |
| NNE               | 1                   | 1   | 1    | 8     | 2     | 0    | 13    |
| NE                | 0                   | 3   | 2    | 2     | 0     | 0    | 7     |
| ENE               | 1                   | 7   | 14   | 0     | 0     | 0    | 22    |
| E                 | 2                   | 1   | 4    | 2     | 1     | 0    | 10    |
| ESE               | 3                   | 3   | 10   | 12    | 3     | 0    | 31    |
| SE                | 0                   | 5   | 13   | 32    | 1     | 0    | 51    |
| SSE               | 4                   | 7   | 22   | 45    | 13    | 3    | 94    |
| S                 | 1                   | 5   | 19   | 54    | 48    | 11   | 138   |
| SSW               | 2                   | 2   | 15   | 59    | 22    | 4    | 104   |
| SW                | 1                   | 0   | 15   | 14    | 19    | 3    | 52    |
| WSW               | 1                   | 4   | 20   | 19    | 14    | 4    | 62    |
| W                 | 0                   | 6   | 15   | 36    | 23    | 0    | 80    |
| WNW               | 0                   | 3   | 4    | 27    | 11    | 0    | 45    |
| NW                | 1                   | 3   | 12   | 25    | 3     | 0    | 44    |
| NNW               | 1                   | 0   | 10   | 12    | 2     | 0    | 25    |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 20                  | 50  | 178  | 350   | 164   | 25   | 787   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 4  
 Hours of missing stability measurements in all stability classes: 5

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METEOROLOGICAL DATA

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

Period of Record: October - December 2006  
 Stability Class - Moderately Stable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 0                   | 0   | 0    | 2     | 0     | 0    | 2     |
| NNE               | 0                   | 0   | 0    | 4     | 0     | 0    | 4     |
| NE                | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| ENE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| E                 | 0                   | 2   | 1    | 1     | 0     | 0    | 4     |
| ESE               | 0                   | 1   | 0    | 1     | 0     | 0    | 2     |
| SE                | 0                   | 4   | 6    | 12    | 1     | 0    | 23    |
| SSE               | 0                   | 0   | 11   | 25    | 0     | 0    | 36    |
| S                 | 2                   | 2   | 2    | 8     | 5     | 0    | 19    |
| SSW               | 2                   | 3   | 2    | 8     | 1     | 0    | 16    |
| SW                | 0                   | 1   | 5    | 8     | 6     | 0    | 20    |
| WSW               | 1                   | 3   | 3    | 2     | 0     | 0    | 9     |
| W                 | 0                   | 3   | 16   | 6     | 0     | 0    | 25    |
| WNW               | 0                   | 0   | 2    | 4     | 0     | 0    | 6     |
| NW                | 0                   | 0   | 4    | 3     | 0     | 0    | 7     |
| NNW               | 1                   | 0   | 1    | 4     | 0     | 0    | 6     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 6                   | 20  | 53   | 88    | 13    | 0    | 180   |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 5

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

Period of Record: October - December 2006  
 Stability Class - Extremely Stable - 300Ft-35Ft Delta-T (F)  
 Winds Measured at 300 Feet

| Wind<br>Direction | Wind Speed (in mph) |     |      |       |       |      | Total |
|-------------------|---------------------|-----|------|-------|-------|------|-------|
|                   | 1-3                 | 4-7 | 8-12 | 13-18 | 19-24 | > 24 |       |
| N                 | 1                   | 0   | 0    | 0     | 0     | 0    | 1     |
| NNE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ENE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| E                 | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| ESE               | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SE                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| SSE               | 0                   | 0   | 0    | 2     | 2     | 0    | 4     |
| S                 | 0                   | 2   | 1    | 2     | 0     | 0    | 5     |
| SSW               | 0                   | 1   | 0    | 0     | 0     | 0    | 1     |
| SW                | 1                   | 2   | 4    | 2     | 0     | 0    | 9     |
| WSW               | 1                   | 2   | 2    | 0     | 0     | 0    | 5     |
| W                 | 2                   | 0   | 6    | 0     | 0     | 0    | 8     |
| WNW               | 2                   | 1   | 0    | 0     | 0     | 0    | 3     |
| NW                | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| NNW               | 1                   | 1   | 0    | 0     | 0     | 0    | 2     |
| Variable          | 0                   | 0   | 0    | 0     | 0     | 0    | 0     |
| Total             | 8                   | 9   | 13   | 6     | 2     | 0    | 38    |

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 0  
 Hours of missing stability measurements in all stability classes: 5