Tennessee Valley Authority
1101 Market Street, LP 3R
Chattanooga, Tennessee 37402-2801

R. M. Krich
Vice President
Nuclear Licensing

April 29, 2011

10 CFR 50.36a
10 CFR 50.4

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

Browns Ferry Nuclear Plant, Unit 1, 2, and 3
Facility Operating License Nos. DPR-33, DPR-52, and DPR-68
NRC Docket Nos. 50-259, 50-260, and 50-296

Subject: **Annual Radioactive Effluent Release Report – 2010**

In accordance with Browns Ferry Nuclear Plant (BFN) Technical Specification Section 5.6.3, the Tennessee Valley Authority (TVA) is submitting documents that collectively are the BFN Annual Radioactive Effluent Release Report for the period January through December 2010. This report is required to be submitted by May 1st of each year. Since May 1st falls on a Sunday, this report is required to be submitted by May 2, 2011. This documentation is in conformance with 10 CFR 50.36a and 10 CFR Part 50, Appendix I, Section IV.B.1. Also, in accordance with the BFN Offsite Dose Calculation Manual Section 1.1.1, Action (b), and Section 1.1.2, Action (c), TVA is providing the BFN Inoperable Radiological Effluent Instrumentation Report.

Enclosure 1 provides the Radiological Impact Assessment Report. Enclosure 2 provides the Meteorological Data Tables. Enclosure 3 is the Effluent and Waste Disposal Annual Report, and Enclosure 4 is the Inoperable Radiological Effluent Instrumentation Report. Enclosure 5 provides an Abnormal Releases Addendum.

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There are no commitments contained within this letter. If you have any questions concerning this submittal, please contact Tom Matthews, at (423) 751-2687.

Respectfully,

R. M. Krich

Enclosures:

1. 2010 Radiological Impact Assessment Report
2. 2010 Meteorological Data Tables
3. 2010 Effluent and Waste Disposal Annual Report
4. 2010 Inoperable Radiological Effluent Instrumentation Report
5. 2002 Abnormal Releases Addendum

cc: (Enclosures):

NRC Regional Administrator - Region II
NRC Senior Resident Inspector - Browns Ferry Nuclear Plant

Enclosure 1

Browns Ferry Nuclear Plant
Units 1, 2, and 3

2010 Radiological Impact Assessment Report
January - December 2010

(See Attached)

I. INTRODUCTION

Potential doses to the "maximum exposed individual" and the population around Browns Ferry Nuclear Plant (BFN) are calculated for each quarter as required in Section 5.2 of the Offsite Dose Calculation Manual (ODCM). The methodology for determining plant releases for the reporting period used to estimate dose is specified in Sections 6 and 7 of the ODCM. Dispersion of radioactive effluents in the environment is estimated using meteorological data and river flow measured during the period. In this report, the doses resulting from releases are described and compared to limits established for BFN.

II. DOSE LIMITS

The ODCM specifies limits for the release of radioactive effluents, as well as limits for doses to the general public from the release of radioactive effluents. These limits are set well below the Technical Specification limits which govern the concentrations of radioactivity and doses permissible in unrestricted areas. This ensures that radioactive effluent releases are As Low As Reasonably Achievable.

The air dose limits in areas at and beyond the Site Boundary due to noble gases released in gaseous effluents per unit are:

$\leq$ 5 mrad per quarter and
$\leq$ 10 mrad per year for gamma radiation.
- and -
$\leq$ 10 mrad per quarter and
$\leq$ 20 mrad per year for beta radiation.

The dose limits to a member of the public in an unrestricted area from radioiodines, radioactive materials in particulate form, and radionuclides other than noble gases with half-lives > 8 days released in gaseous effluents for each unit are:

$\leq$ 7.5 mrem per quarter and
$\leq$ 15 mrem per year to any organ.

The dose or dose commitment to a member of the public from radioactive material in liquid effluents released to unrestricted areas are:

$\leq$ 1.5 mrem per quarter and
$\leq$ 3 mrem per year to the total body,
- and -
$\leq$ 5 mrem per quarter and
$\leq$ 10 mrem per year to any organ.

The limit for the total effective dose equivalent to an individual member of the public inside the site boundary is:
100 mrem per year.

The Environmental Protection Agency limits for total dose to any member of the public in the vicinity of a nuclear power plant, established in the Environmental Dose Standard of 40 CFR 190, are:

$\leq$ 25 mrem per year to the whole body,
$\leq$ 75 mrem per year to the thyroid,
- and -
$\leq$ 25 mrem per year to any other organ.

III. DOSE CALCULATIONS

Estimated doses to members of the public are determined using computer models (the Gaseous Effluent Licensing Code (GELC), and the Quarterly Water Dose Assessment Code (QWATA)). These models are based on guidance provided by the Nuclear Regulatory Commission (NRC) (in Regulatory Guides 1.109, 1.111 and 1.113) for determining the potential dose to individuals and populations living in the vicinity of the plant. The area around the plant is analyzed to determine the pathways through which the public may receive a dose. The doses calculated are a representation of the dose to a "maximum exposed individual." Some of the factors used in these calculations (such as ingestion rates) are maximum values to ensure conservative reporting data. Many of these factors are obtained from NUREG/CR-1004. The values chosen will tend to overestimate the dose. The expected dose to actual individuals is lower. The calculated doses are presented in Tables 1, 2, 3, 4, 5, 6, 7, 8, and 9.

IV. DOSES FROM AIRBORNE EFFLUENTS

For airborne effluents, members of the public can be exposed to radiation from several sources: direct radiation from the radioactivity in the air, direct radiation from radioactivity deposited on the ground, inhalation of airborne radioactivity, ingestion of vegetation which contains radioactivity deposited from the atmosphere, and ingestion of milk and beef which contains radioactivity deposited from the atmosphere onto vegetation and subsequently consumed by milk and beef animals.

Airborne Release Points

There are four monitored release points from BFN: the turbine building, the radwaste building, the reactor building, and the stack.

Releases from the turbine building are considered ground-level releases. The ground-level Joint Frequency Distribution (JFD) is derived from wind speeds and directions measured 10 meters above ground and from the vertical temperature difference between 10 and 45 meters, and are presented for each quarter in Enclosure 2, 2010 Meteorological Data Tables, Tables 1, 2, 3, and 4.

Releases from the radwaste and reactor buildings are considered split-level releases. Portions of the release are treated as ground-level while other portions are considered elevated depending on the ratio of the vertical exit velocity to the horizontal wind speed. The split-level dispersion approach is implemented using a model that requires two complete quarterly JFDs for each effluent vent, one for the ground-level releases and one for the elevated releases. The ground-level portion of the split-level JFD is based on wind speeds and directions measured 10 meters above ground-level and from the vertical temperature difference between 10 and 45 meters. The elevated portion of the split-level JFD is based on wind speeds and direction measurements at the 45 meter level and the vertical temperature difference between 45 and 91 meters. Both of these JFDs are given for each quarter in Enclosure 2, 2010 Meteorological Data Tables, Tables 5, 6, 7, 8, 9, 10, 11, and 12.

Releases from the stack are considered to be elevated releases. The JFDs for elevated releases are based on wind directions and wind speeds measured at 91 meters and the vertical temperature difference between 45 and 91 meters, and are given for each quarter in Enclosure 2, 2010 Meteorological Data Tables, Tables 13, 14, 15, and 16.

Meteorological Data

Meteorological variables at BFN are measured continuously. Measurements collected include wind speed, wind direction, and temperature at heights of 10, 45, and 91 meters above the ground. Quarterly JFDs are calculated for each release point using the appropriate levels of meteorological data. A quarterly JFD gives the percentage of the time that the wind is blowing out of a particular upwind compass sector in a particular range of wind speeds for a given stability class A through G. The wind speeds are divided into nine wind speed ranges. Calms are distributed by direction in proportion to the distribution of noncalm wind directions less than 1.6 m/s (3.5 mph). Stability classes are determined from the vertical temperature difference between two measurement levels.

The generally open terrain around BFN does not cause any significant effects on the transport and dispersion of gaseous effluents from the plant. Within 30 kilometers of BFN, the terrain is mostly gently rolling hills (30-60 meters). Between 30 and 80 kilometers, the hills become larger to the north and south and mountainous to the east and northeast. The Tennessee River/Wheeler Lake may have a minor effect on transport and dispersion in the immediate vicinity of BFN during periods of winds with a southerly component, overcast skies, and relatively high wind speeds. Also, the lower layer (10-45 meters) stability class tends to be more stable. However, during this infrequent condition, dose estimates will be conservative.

External Exposure Dose

Dose calculated for maximum external air dose (gamma-air and beta-air) are made for points at and beyond the unrestricted area boundary as described in the BFN ODCM. The highest of these doses is then selected.

Submersion Dose

External doses to the skin and total body, due to submersion in a cloud of noble gases, are calculated for the nearest residence in each sector. The residence with the highest dose is then selected from all sectors.

Organ Dose

Dose to an organ due to releases of airborne effluents are estimated for the inhalation, ground contamination, and ingestion pathways. The ingestion pathway is further divided into three possible contributing pathways: ingestion of cow/goat milk, ingestion of beef, and ingestion of vegetables. Doses from applicable pathways are calculated for each receptor location identified in the most recent land use survey. To determine the maximum organ dose, the doses from the pathways are summed for each receptor. For the ingestion dose, however, only those pathways that exist for each receptor are considered in the sum, e.g., milk ingestion doses are included only for locations where milk was consumed without commercial preparation and vegetable ingestion is included only for those locations where a garden was identified. To conservatively account for beef ingestion, a beef ingestion dose equal to that for the highest unrestricted area boundary location is added to each identified receptor. For ground contamination, the dose added to the organ dose being calculated is the total body dose calculated for that location, i.e., it is assumed that the dose to an individual organ is equal to the total body dose.

The maximum organ dose, thyroid dose, and total body dose from airborne effluents are presented in Tables 1, 2, 3, and 4.

V. DOSES FROM LIQUID EFFLUENTS

For liquid effluents, the public can be exposed to radiation from three sources: the ingestion of water from the Tennessee River, the ingestion of fish caught in the Tennessee River, and direct exposure from radioactive material deposited on the river shoreline sediment (recreation).

The concentration of radionuclides in the Tennessee River is calculated by a computer model which uses measured hydraulic data downstream of BFN. Parameters used to determine the doses are based on guidance given by the NRC (in Regulatory Guides 1.109) for maximum ingestion rates, exposure times, etc. Wherever possible, parameters used in the dose calculation are site specific. The models that are used to estimate doses, as well as the parameters input to the models, are described in detail in the BFN ODCM.

Liquid Release Points and River Data

Radionuclide concentrations in the Tennessee River are calculated assuming that releases in liquid effluents are continuous. When necessary, liquid releases from BFN, located at Tennessee River Mile 294, are made through diffusers which extend into the Tennessee River. It is assumed that releases to the river through these diffusers will initially be entrained in one-fifth of the water which flows past the plant. The QWATA code makes the assumption that this mixing condition holds true until the water is completely mixed at the first downstream dam (Wheeler Dam), at Tennessee River Mile 283.

Doses are calculated for locations within a 50 mile radius downstream of the plant site. The maximum potential recreation dose is calculated for a location immediately downstream from the plant's release point. The maximum exposed individual dose from ingestion of fish is assumed to be that calculated for the consumption of fish caught anywhere between the plant and the first downstream dam. The maximum exposed individual dose from drinking water is assumed to be that calculated at the nearest downstream public water supply [West Morgan - East Lawrence (WMEL)]. This could be interpreted as indicating that the maximum exposed individual, as assumed for liquid releases from BFN, is an individual who obtains all of his drinking water at WMEL, consumes fish caught from the Tennessee River between BFN and Wheeler Dam, and spends 500 hours per year on the shoreline just downstream of the plant's release point. Doses calculated for the maximum exposed individual due to liquid effluents for each quarter in the period are presented in Tables 5, 6, 7, and 8 along with the average river flows past the plant site for the periods.

VI. POPULATION DOSES

Population doses due to airborne effluents are calculated for an estimated 778,266 people living within a 50-mile radius of the plant site. Doses from external pathways and inhalation are based on the 50-mile human population distribution. Ingestion population doses are calculated assuming that each individual consumed milk, vegetables, and meat produced within the sector in which the individual resides.

Population doses due to liquid effluents are calculated for the entire downstream Tennessee River population. Water ingestion population doses are calculated using actual population figures for downstream public water supplies. Fish ingestion population doses are calculated assuming that all sport fish caught in the Tennessee River are consumed by the Tennessee River population. Recreation population doses are calculated using historical recreational data on the number of shoreline visits at downstream locations.

Population doses calculated for airborne and liquid effluents are presented in Tables 1, 2, 3, 4, 5, 6, 7, and 8.

VII. OFFSITE DIRECT RADIATION DOSE

External gamma radiation levels were measured by environmental dosimeters deployed around BFN as part of the offsite Radiological Environmental Monitoring Program (REMP). The quarterly gamma radiation levels determined from these dosimeters during this reporting period averaged approximately 13 mrem/quarter at onsite (at or near the site boundary) stations and approximately 10.5 mrem/quarter at offsite stations or approximately 2.5 mrem/quarter higher onsite than at offsite stations. This difference is consistent with levels measured for pre-operation and construction phases of the Tennessee Valley Authority nuclear plants where the average radiation levels onsite were generally 2-6 mrem/quarter higher than the levels offsite. This may be attributable to natural variations in environmental radiation levels, earth moving activities onsite, the mass of concrete employed in the construction of the plants, or other undetermined influences. Fluctuations in natural background dose rates and in dosimeter readings tend to mask any small increments which may be due to plant operations. Thus, there was no identifiable increase in dose rate levels attributable to direct radiation from plant equipment and/or gaseous effluents.

VIII. DOSE TO A MEMBER OF THE PUBLIC INSIDE THE SITE BOUNDARY

Pursuant to ODCM section 7.7.5, a review was performed to determine the highest dose to a member of the public in the site boundary. The dose to a member of the public consists of the sum of dose commitments from effluent releases as well as any direct radiation dose. The gaseous effluent dose commitment is negligible compared to the direct radiation dose.

The direct radiation dose was determined from area environmental dosimeters located onsite. It consisted of gamma dose from the plume, ground contamination, and from equipment sources (i.e., tanks, turbine shine, radioactive material storage areas, etc.). The critical location was determined to be a Thermoluminescent Dosimeter near the Livewell Center (Training Center). The direct radiation dose accounting for background and occupancy was 1.5 mrem during 2010.

The total annual dose commitment to the member of the public for 2010 is 1.5 mrem, the direct radiation dose while in the site boundary. It can be concluded that the dose limit for a member of the public inside the site boundary as specified in 10 CFR 20.1301 was not exceeded.

IX. TOTAL DOSE

To determine compliance with 40 CFR 190, annual total dose contributions to the maximum exposed individual from BFN radioactive effluents and all other nearby uranium fuel cycle sources are considered.

The annual dose to any organ other than the thyroid for the maximum exposed individual is conservatively calculated by summing the following doses: the total body air submersion dose for each quarter, the critical organ dose (for any organ other than the thyroid) from airborne effluents for each quarter from ground contamination, inhalation and ingestion, the total body dose from liquid effluents for each quarter, the maximum organ dose (for any organ other than the thyroid) from liquid effluents for each quarter, and any identifiable increase in direct radiation dose levels as measured by the REMP. This dose is compared to the 40 CFR 190 limit for total body or any organ dose (other than the thyroid) to determine compliance.

The annual thyroid dose to the maximum exposed individual is conservatively estimated by summing the following doses: the total body air submersion dose for each quarter, the thyroid dose from airborne effluents for each quarter, the total body dose from liquid effluents for each quarter, the thyroid dose from liquid effluents for each quarter, and any identifiable increase in direct radiation dose levels as measured by the REMP. This dose is compared to the 40 CFR 190 limit for thyroid dose to determine compliance.

Total dose from the fuel cycle is presented in Table 9.

Table 1
Doses from Airborne Effluents
First Quarter

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location
External				
Gamma Air	7.3E-12 mrad	5 mrad	< 1 %	NNW/1650 meters
Beta Air	2.2E-11 mrad	10 mrad	< 1 %	NNW/1650 meters
Submersion				
Total Body	7.5E-05 mrem	NA	NA	E/1290 meters
Skin	8.8E-05 mrem	NA	NA	E/1290 meters
Organ Doses				
Child/Bone	1.8E-02 mrem	7.5 mrem	< 1 %	SE/8100 meters
Child/Thyroid	6.6E-03 mrem	7.5 mrem	< 1 %	NNW/1802 meters
Child/Total Body	6.0E-03 mrem	7.5 mrem	< 1 %	NNW/1802 meters

Population Doses

Total Body Dose 1.3E-01 man-rem

Maximum Organ Dose (organ) 5.7E-01 man-rem (bone)

Population doses can be compared to the natural background dose for the entire 50-mile population of about 70,044 man-rem/year (based on 90 mrem/yr for natural background).

Table 2
Doses from Airborne Effluents
Second Quarter

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location
External				
Gamma Air	4.0E-11 mrad	5 mrad	< 1 %	NNW/5700 meters
Beta Air	1.2E-10 mrad	10 mrad	< 1 %	NNW/5700 meters
Submersion				
Total Body	6.8E-05 mrem	NA	NA	NNW/1639 meters
Skin	8.0E-05 mrem	NA	NA	NNW/1639 meters
Organ Doses				
Child/Bone	2.8E-02 mrem	7.5 mrem	< 1 %	N/4234 meters
Child/Thyroid	2.0E-02 mrem	7.5 mrem	< 1 %	NNW/1802 meters
Child/Total Body	1.8E-02 mrem	7.5 mrem	< 1 %	NNW/1802 meters

Population Doses

Total Body Dose 1.8E-01 man-rem

Maximum Organ Dose (organ) 6.6E-01 man-rem (bone)

Population doses can be compared to the natural background dose for the entire 50-mile population of about 70,044 man-rem/year (based on 90 mrem/yr for natural background).

Table 3
Doses from Airborne Effluents
Third Quarter

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location
External				
Gamma Air	6.7E-11 mrad	5 mrad	< 1 %	S/2250 meters
Beta Air	2.0E-10 mrad	10 mrad	< 1 %	S/2250 meters
Submersion				
Total Body	5.0E-04 mrem	NA	NA	E/1290 meters
Skin	5.9E-04 mrem	NA	NA	E/1290 meters
Organ Doses				
Child/Bone	2.9E-02 mrem	7.5 mrem	< 1 %	ENE/4319 meters
Child/Thyroid	3.0E-02 mrem	7.5 mrem	< 1 %	E/1290 meters
Child/Total Body	1.5E-02 mrem	7.5 mrem	< 1 %	E/1290 meters

Population Doses

Total Body Dose 1.9E-01 man-rem

Maximum Organ Dose (organ) 2.4E-01 man-rem (thyroid)

Population doses can be compared to the natural background dose for the entire 50-mile population of about 70,044 man-rem/year (based on 90 mrem/yr for natural background).

Table 4
Doses from Airborne Effluents
Fourth Quarter

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location
External				
Gamma Air	1.1E-10 mrad	5 mrad	< 1 %	S/2250 meters
Beta Air	3.4E-10 mrad	10 mrad	< 1 %	S/2250 meters
Submersion				
Total Body	1.1E-04 mrem	NA	NA	ESE/1860 meters
Skin	1.3E-04 mrem	NA	NA	ESE/1860 meters
Organ Doses				
Child/ Bone	1.3E-02 mrem	7.5 mrem	< 1 %	SSE/ 8100 meters
Child/Thyroid	1.3E-02 mrem	7.5 mrem	< 1 %	NNW/1802 meters
Child /Total Body	8.7E-03 mrem	7.5 mrem	< 1 %	NNW/1802 meters

Population Doses

Total Body Dose 1.3E-01 man-rem

Maximum Organ Dose (organ) 5.2E-01 man-rem (bone)

Population doses can be compared to the natural background dose for the entire 50-mile population of about 70,044 man-rem/year (based on 90 mrem/yr for natural background).

Table 5
Doses from Liquid Effluents
First Quarter*

Individual Doses (mrem)

Age Group	Organ	Dose Pathway	Dose	Quarterly Limit	Percent of Limit
Adult	**Total Body**	Fish Ingestion	8.8E-05		
		Recreation	3.0E-05		
		Water Ingestion	3.5E-05		
		Total	**1.5E-04**	1.5 mrem	< 1 %
Child	**Liver**	Fish Ingestion	1.2E-04		
		Recreation	3.0E-05		
		Water Ingestion	4.9E-05		
		Total	**2.0E-04**	5 mrem	< 1 %
Child	**Thyroid**	Fish Ingestion	5.5E-07		
		Recreation	3.0E-05		
		Water Ingestion	4.4E-05		
		Total	**7.5E-05**	5 mrem	< 1 %

Average Riverflow past BFN (cubic feet per second): 77358

Population Doses

Total Body Dose 1.6E-03 man-rem

Maximum Organ Dose (organ) 2.0E-03 man-rem (liver)

Population doses can be compared to the natural background dose for the entire 50-mile population of about 70,044 man-rem/year (based on 90 mrem/yr for natural background).

* Includes dose from abnormal releases.

Table 6
Doses from Liquid Effluents
Second Quarter*

Individual Doses (mrem)

Age Group	Organ	Dose Pathway	Dose	Quarterly Limit	Percent of Limit
Adult	**Total Body**	Fish Ingestion	2.1E-04		
		Recreation	4.4E-05		
		Water Ingestion	2.6E-05		
		Total	**2.8E-04**	1.5 mrem	< 1 %
Teen	**Liver**	Fish Ingestion	3.3E-04		
		Recreation	4.4E-05		
		Water Ingestion	2.1E-05		
		Total	**4.0E-04**	5 mrem	< 1 %
Child	**Thyroid**	Fish Ingestion	3.7E-07		
		Recreation	4.4E-05		
		Water Ingestion	3.0E-05		
		Total	**7.4E-05**	5 mrem	< 1 %

Average Riverflow past BFN (cubic feet per second): 24871

Population Doses

Total Body Dose 3.2E-03 man-rem

Maximum Organ Dose (organ) 4.3E-03 man-rem (liver)

Population doses can be compared to the natural background dose for the entire 50-mile population of about 70,044 man-rem/year (based on 90 mrem/yr for natural background).

* Includes dose from abnormal releases.

Table 7
Doses from Liquid Effluents
Third Quarter

Individual Doses (mrem)

Age Group	Organ	Dose Pathway	Dose	Quarterly Limit	Percent of Limit
Adult	**Total Body**	Fish Ingestion	7.4E-05		
		Recreation	1.7E-05		
		Water Ingestion	1.6E-06		
		Total	**9.3E-05**	1.5 mrem	< 1 %
Teen	**Liver**	Fish Ingestion	1.2E-04		
		Recreation	1.7E-05		
		Water Ingestion	2.1E-06		
		Total	**1.4E-04**	5 mrem	< 1 %
Child	**Thyroid**	Fish Ingestion	3.5E-09		
		Recreation	1.7E-05		
		Water Ingestion	2.8E-07		
		Total	**1.7E-05**	5 mrem	< 1 %

Average Riverflow past BFN (cubic feet per second): 21464

Population Doses

Total Body Dose 1.2E-03 man-rem

Maximum Organ Dose (organ) 1.6E-03 man-rem (liver)

Population doses can be compared to the natural background dose for the entire 50-mile population of about 70,044 man-rem/year (based on 90 mrem/yr for natural background).

Table 8
Doses from Liquid Effluents
Fourth Quarter*

Individual Doses (mrem)

Age Group	Organ	Dose Pathway	Dose	Quarterly Limit	Percent of Limit
Adult	**Total Body**	Fish Ingestion	2.5E-05		
		Recreation	9.1E-06		
		Water Ingestion	8.2E-07		
		Total	**3.5E-05**	1.5 mrem	< 1 %
Teen	**Liver**	Fish Ingestion	3.8E-05		
		Recreation	9.1E-06		
		Water Ingestion	9.0E-07		
		Total	**4.8E-05**	5 mrem	< 1 %
Child	**Thyroid**	Fish Ingestion	5.5E-09		
		Recreation	9.1E-06		
		Water Ingestion	4.4E-07		
		Total	**9.6E-06**	5 mrem	< 1 %

Average Riverflow past BFN (cubic feet per second): 36304

Population Doses

Total Body Dose 3.6E-04 man-rem

Maximum Organ Dose (organ) 5.0E-04 man-rem (liver)

Population doses can be compared to the natural background dose for the entire 50-mile population of about 70,044 man-rem/year (based on 90 mrem/yr for natural background).

* Includes dose from abnormal releases.

Table 9
Total Dose from Fuel Cycle

Dose	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	
Total Body or any Organ (except thyroid)					
Total body air submersion	7.5E-05	6.8E-05	5.0E-04	1.1E-04	
Critical organ dose (air)	1.8E-02	2.8E-02	2.9E-02	1.3E-02	
Total body dose (liquid)	1.5E-04	2.8E-04	9.3E-05	3.5E-05	
Maximum organ dose (liquid)	2.0E-04	4.0E-04	1.4E-04	4.8E-05	
Direct Radiation Dose	0	0	0	0	
Total	**1.8E-02**	**2.9E-02**	**3.0E-02**	**1.3E-02**	
Cumulative Total Dose (mrem) (Total body or any other organ)					**9.0E-02**
Annual Dose Limit (mrem)					**2.5E+01**
Percent of Limit					**< 1 %**
Thyroid Dose (mrem)					
Total body air submersion	7.5E-05	6.8E-05	5.0E-04	1.1E-04	
Thyroid dose (airborne)	6.6E-03	2.0E-02	3.0E-02	1.3E-02	
Total body dose (liquid)	1.5E-04	2.8E-04	9.3E-05	3.5E-05	
Thyroid dose (liquid)	7.5E-05	7.4E-05	1.7E-05	9.6E-06	
Direct Radiation Dose	0	0	0	0	
Total	**6.9E-03**	**2.0E-02**	**3.1E-02**	**1.3E-02**	
Cumulative Total Dose (Thyroid) mrem					**7.1E-02**
Annual Dose Limit (mrem)					**7.5E+01**
Percent of Limit					**< 1 %**

Enclosure 2

Browns Ferry Nuclear Plant
Units 1, 2, and 3

2010 Meteorological Data Tables
January - December 2010

(See Attached)

BROWNS FERRY NUCLEAR PLANT

2010 METEOROLOGICAL DATA TABLE 1

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR GROUND LEVEL RELEASES

FIRST QUARTER

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A ($\Delta T \leq -1.9$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.139	0.000	0.000	0.000	0.139
NNE	0.000	0.000	0.000	0.000	0.046	0.325	0.000	0.000	0.000	0.371
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.046	0.186	0.232	0.000	0.000	0.000	0.000	0.464
SSE	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.093
S	0.000	0.000	0.046	0.278	0.000	0.000	0.000	0.000	0.000	0.325
SSW	0.000	0.000	0.000	0.139	0.000	0.000	0.000	0.000	0.000	0.139
SW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
WSW	0.000	0.000	0.000	0.000	0.186	0.000	0.000	0.000	0.000	0.186
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.046
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.046
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.046
SUBTOTAL	0.000	0.000	0.093	0.742	0.464	0.464	0.139	0.000	0.000	1.903

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS A	41
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	41
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2155
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/05/13

MEAN WIND SPEED = 6.59

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < ΔT ≤ -1.7 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.046	0.139	0.000	0.000	0.000	0.186
NNE	0.000	0.000	0.000	0.000	0.000	0.186	0.000	0.000	0.000	0.186
NE	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.093
SE	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.093
SSE	0.000	0.000	0.046	0.093	0.000	0.000	0.000	0.000	0.000	0.139
S	0.000	0.000	0.139	0.046	0.000	0.000	0.000	0.000	0.000	0.186
SSW	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.093
SW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
WSW	0.000	0.000	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.093
W	0.000	0.000	0.000	0.000	0.046	0.186	0.046	0.000	0.000	0.278
WNW	0.000	0.000	0.000	0.000	0.000	0.186	0.139	0.000	0.000	0.325
NW	0.000	0.000	0.000	0.000	0.000	0.046	0.139	0.000	0.000	0.186
NNW	0.000	0.000	0.000	0.046	0.000	0.046	0.000	0.000	0.000	0.093
SUBTOTAL	0.000	0.000	0.232	0.464	0.093	0.928	0.325	0.000	0.000	2.042

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS B	44
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	44
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2155
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/05/13

MEAN WIND SPEED = 8.15

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 < ΔT ≤ -1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.232	0.093	0.000	0.000	0.000	0.325
NNE	0.000	0.000	0.000	0.000	0.093	0.046	0.000	0.000	0.000	0.139
NE	0.000	0.000	0.000	0.000	0.046	0.093	0.000	0.000	0.000	0.139
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.093
SE	0.000	0.000	0.139	0.139	0.000	0.000	0.000	0.000	0.000	0.278
SSE	0.000	0.000	0.093	0.093	0.000	0.000	0.000	0.000	0.000	0.186
S	0.000	0.000	0.186	0.046	0.000	0.000	0.000	0.000	0.000	0.232
SSW	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.093
SW	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.093
WSW	0.000	0.000	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.093
W	0.000	0.000	0.000	0.046	0.093	0.325	0.046	0.000	0.000	0.510
WNW	0.000	0.000	0.000	0.000	0.093	0.696	0.186	0.000	0.000	0.974
NW	0.000	0.000	0.000	0.000	0.000	0.418	0.139	0.000	0.000	0.557
NNW	0.000	0.000	0.000	0.000	0.139	0.464	0.046	0.000	0.000	0.650
SUBTOTAL	0.000	0.000	0.418	0.603	0.696	2.227	0.418	0.000	0.000	4.362

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS C	94
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	94
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2155
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/05/13

MEAN WIND SPEED = 8.04

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < ΔT ≤ -0.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.046	0.046	1.206	1.624	0.928	0.000	0.000	0.000	3.852
NNE	0.000	0.000	0.278	1.067	1.021	0.974	0.000	0.000	0.000	3.341
NE	0.000	0.000	0.278	0.557	0.418	0.882	0.000	0.000	0.000	2.135
ENE	0.000	0.000	0.139	0.557	0.278	0.139	0.000	0.000	0.000	1.114
E	0.000	0.046	0.278	0.371	0.464	0.278	0.000	0.000	0.000	1.439
ESE	0.000	0.000	0.232	0.278	0.232	0.000	0.000	0.000	0.000	0.742
SE	0.000	0.046	0.650	0.278	0.371	0.186	0.000	0.000	0.000	1.531
SSE	0.000	0.000	0.696	0.371	0.046	0.000	0.000	0.000	0.000	1.114
S	0.000	0.046	0.928	0.371	0.046	0.046	0.000	0.000	0.000	1.439
SSW	0.000	0.000	0.418	0.557	0.139	0.000	0.000	0.000	0.000	1.114
SW	0.000	0.000	0.232	0.232	0.000	0.000	0.000	0.000	0.000	0.464
WSW	0.000	0.000	0.325	0.510	0.325	0.186	0.000	0.000	0.000	1.346
W	0.000	0.046	0.278	1.253	2.135	2.367	0.046	0.000	0.000	6.125
WNW	0.000	0.000	0.232	0.418	0.742	2.691	0.882	0.139	0.000	5.104
NW	0.000	0.000	0.139	0.742	1.346	7.100	2.227	0.278	0.000	11.833
NNW	0.000	0.000	0.186	0.789	1.439	3.898	0.093	0.000	0.000	6.404
SUBTOTAL	0.000	0.232	5.336	9.559	10.626	19.675	3.248	0.418	0.000	49.095

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS D	1058
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	1058
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2155
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/05/13

MEAN WIND SPEED = 7.47

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 < ΔT ≤ 1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.046	0.696	0.418	0.418	0.093	0.000	0.000	0.000	1.671
NNE	0.000	0.093	0.510	0.650	0.186	0.093	0.000	0.000	0.000	1.531
NE	0.000	0.093	0.371	0.325	0.186	0.093	0.000	0.000	0.000	1.067
ENE	0.000	0.046	0.510	0.650	0.139	0.000	0.000	0.000	0.000	1.346
E	0.000	0.093	0.232	0.325	0.232	0.046	0.000	0.000	0.000	0.928
ESE	0.000	0.000	0.603	0.603	0.510	0.046	0.000	0.000	0.000	1.763
SE	0.000	0.093	0.650	0.696	0.232	0.046	0.000	0.000	0.000	1.717
SSE	0.000	0.278	1.021	0.510	0.000	0.000	0.000	0.000	0.000	1.810
S	0.000	0.186	0.742	0.557	0.325	0.093	0.000	0.000	0.000	1.903
SSW	0.000	0.046	0.232	0.093	0.000	0.000	0.000	0.000	0.000	0.371
SW	0.000	0.000	0.046	0.093	0.000	0.000	0.000	0.000	0.000	0.139
WSW	0.000	0.000	0.464	0.093	0.046	0.000	0.000	0.000	0.000	0.603
W	0.000	0.046	0.464	0.696	0.139	0.046	0.000	0.000	0.000	1.392
WNW	0.000	0.093	0.278	0.232	0.186	0.278	0.046	0.000	0.000	1.114
NW	0.000	0.000	0.325	0.928	0.696	0.882	0.000	0.000	0.000	2.831
NNW	0.000	0.000	0.742	0.974	1.114	0.371	0.000	0.000	0.000	3.202
SUBTOTAL	0.000	1.114	7.889	7.842	4.408	2.088	0.046	0.000	0.000	23.387

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS E	504
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	504
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2155
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/05/13

MEAN WIND SPEED = 4.32

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 < ΔT ≤ 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.046	0.789	0.232	0.000	0.000	0.000	0.000	0.000	1.067
NNE	0.000	0.093	0.510	0.278	0.000	0.000	0.000	0.000	0.000	0.882
NE	0.000	0.046	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.139
ENE	0.000	0.000	0.232	0.046	0.046	0.000	0.000	0.000	0.000	0.325
E	0.000	0.046	0.882	0.139	0.000	0.000	0.000	0.000	0.000	1.067
ESE	0.000	0.093	0.557	0.093	0.046	0.000	0.000	0.000	0.000	0.789
SE	0.000	0.557	1.067	0.510	0.000	0.000	0.000	0.000	0.000	2.135
SSE	0.000	0.139	1.299	0.232	0.046	0.000	0.000	0.000	0.000	1.717
S	0.000	0.186	0.371	0.186	0.046	0.000	0.000	0.000	0.000	0.789
SSW	0.000	0.046	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.139
SW	0.000	0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.093
WSW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
W	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.093
WNW	0.000	0.046	0.093	0.000	0.000	0.046	0.000	0.000	0.000	0.186
NW	0.000	0.000	0.139	0.186	0.000	0.000	0.000	0.000	0.000	0.325
NNW	0.000	0.046	0.650	0.603	0.000	0.000	0.000	0.000	0.000	1.299
SUBTOTAL	0.000	1.439	6.729	2.691	0.186	0.046	0.000	0.000	0.000	11.090

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS F	239
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	239
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2155
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/05/13

MEAN WIND SPEED = 2.76

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (ΔT > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.278	0.696	0.371	0.000	0.000	0.000	0.000	0.000	1.346
NNE	0.000	0.418	0.186	0.093	0.000	0.000	0.000	0.000	0.000	0.696
NE	0.000	0.139	0.093	0.000	0.000	0.000	0.000	0.000	0.000	0.232
ENE	0.000	0.139	0.139	0.000	0.000	0.000	0.000	0.000	0.000	0.278
E	0.000	0.232	0.418	0.000	0.000	0.000	0.000	0.000	0.000	0.650
ESE	0.000	0.371	0.650	0.000	0.000	0.000	0.000	0.000	0.000	1.021
SE	0.000	0.186	0.557	0.000	0.000	0.000	0.000	0.000	0.000	0.742
SSE	0.000	0.186	0.789	0.000	0.000	0.000	0.000	0.000	0.000	0.974
S	0.000	0.093	0.510	0.093	0.000	0.000	0.000	0.000	0.000	0.696
SSW	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
SW	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.093
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
WNW	0.000	0.186	0.186	0.000	0.000	0.000	0.000	0.000	0.000	0.371
NW	0.000	0.232	0.093	0.000	0.000	0.000	0.000	0.000	0.000	0.325
NNW	0.000	0.371	0.232	0.000	0.000	0.000	0.000	0.000	0.000	0.603
SUBTOTAL	0.000	2.923	4.640	0.557	0.000	0.000	0.000	0.000	0.000	8.121

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS G	175
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	175
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2155
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/05/13

MEAN WIND SPEED = 1.91

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT

2010 METEOROLOGICAL DATA TABLE 2

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR GROUND LEVEL RELEASES

SECOND QUARTER

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A ($\Delta T \leq -1.9$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.190	0.000	0.000	0.000	0.190
NE	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.048
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.143	0.190	0.143	0.048	0.000	0.000	0.000	0.524
SE	0.000	0.000	0.286	0.333	0.000	0.000	0.000	0.000	0.000	0.619
SSE	0.000	0.000	0.428	0.428	0.000	0.000	0.000	0.000	0.000	0.857
S	0.000	0.000	0.904	0.048	0.000	0.000	0.000	0.000	0.000	0.952
SSW	0.000	0.000	0.286	0.190	0.000	0.000	0.000	0.000	0.000	0.476
SW	0.000	0.000	0.000	0.095	0.000	0.000	0.000	0.000	0.000	0.095
WSW	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.048
W	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.048
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.048	0.000	0.095	0.000	0.000	0.143
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	2.047	1.380	0.190	0.286	0.095	0.000	0.000	3.998

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2101
TOTAL HOURS OF STABILITY CLASS A	84
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	84
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2101
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/08/19

MEAN WIND SPEED = 4.13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < ΔT ≤ -1.7 C/100 M)

BROWNS FERRY NUCLEAR PLANT

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.048
NNE	0.000	0.000	0.000	0.000	0.000	0.095	0.000	0.000	0.000	0.095
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.048
ESE	0.000	0.000	0.048	0.095	0.143	0.000	0.000	0.000	0.000	0.286
SE	0.000	0.000	0.286	0.286	0.000	0.000	0.000	0.000	0.000	0.571
SSE	0.000	0.000	0.428	0.048	0.000	0.000	0.000	0.000	0.000	0.476
S	0.000	0.000	0.238	0.048	0.095	0.000	0.000	0.000	0.000	0.381
SSW	0.000	0.000	0.476	0.190	0.000	0.000	0.000	0.000	0.000	0.666
SW	0.000	0.000	0.095	0.095	0.000	0.000	0.000	0.000	0.000	0.190
WSW	0.000	0.000	0.000	0.286	0.000	0.000	0.000	0.000	0.000	0.286
W	0.000	0.000	0.000	0.238	0.143	0.048	0.048	0.000	0.000	0.476
WNW	0.000	0.000	0.000	0.048	0.000	0.190	0.143	0.000	0.000	0.381
NW	0.000	0.000	0.000	0.000	0.048	0.143	0.095	0.000	0.000	0.286
NNW	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.048
SUBTOTAL	0.000	0.000	1.571	1.380	0.428	0.571	0.286	0.000	0.000	4.236

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2101
TOTAL HOURS OF STABILITY CLASS B	89
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	89
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2101
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/08/19

MEAN WIND SPEED = 5.27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 < ΔT ≤ -1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.048	0.095	0.000	0.000	0.000	0.143
NNE	0.000	0.000	0.000	0.000	0.048	0.048	0.000	0.000	0.000	0.095
NE	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.048
ENE	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.048
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.048	0.095	0.000	0.000	0.000	0.000	0.143
SE	0.000	0.000	0.286	0.381	0.000	0.000	0.000	0.000	0.000	0.666
SSE	0.000	0.000	0.333	0.048	0.000	0.000	0.000	0.000	0.000	0.381
S	0.000	0.000	0.619	0.143	0.000	0.000	0.000	0.000	0.000	0.762
SSW	0.000	0.000	0.476	0.333	0.000	0.000	0.000	0.000	0.000	0.809
SW	0.000	0.000	0.333	0.000	0.000	0.000	0.000	0.000	0.000	0.333
WSW	0.000	0.000	0.143	0.143	0.000	0.095	0.000	0.000	0.000	0.381
W	0.000	0.000	0.000	0.190	0.095	0.000	0.000	0.000	0.000	0.286
WNW	0.000	0.000	0.000	0.000	0.000	0.190	0.143	0.000	0.000	0.333
NW	0.000	0.000	0.000	0.000	0.143	0.286	0.190	0.095	0.000	0.714
NNW	0.000	0.000	0.000	0.000	0.000	0.143	0.000	0.000	0.000	0.143
SUBTOTAL	0.000	0.000	2.189	1.285	0.428	0.952	0.333	0.095	0.000	5.283

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2101
TOTAL HOURS OF STABILITY CLASS C	111
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	111
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2101
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/08/19

MEAN WIND SPEED = 5.77

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < ΔT ≤ -0.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.095	0.381	0.286	0.048	0.000	0.000	0.000	0.809
NNE	0.000	0.000	0.048	0.238	0.190	0.143	0.000	0.000	0.000	0.619
NE	0.000	0.000	0.095	0.381	0.333	0.190	0.000	0.000	0.000	1.000
ENE	0.000	0.000	0.143	0.286	0.048	0.000	0.000	0.000	0.000	0.476
E	0.000	0.000	0.571	0.381	0.048	0.048	0.000	0.000	0.000	1.047
ESE	0.000	0.000	0.714	0.857	0.666	0.190	0.000	0.000	0.000	2.427
SE	0.000	0.000	1.951	0.238	0.000	0.000	0.000	0.000	0.000	2.189
SSE	0.000	0.095	2.332	0.286	0.000	0.000	0.000	0.000	0.000	2.713
S	0.000	0.048	2.237	0.571	0.143	0.000	0.000	0.000	0.000	2.999
SSW	0.000	0.000	2.713	0.714	0.190	0.000	0.000	0.000	0.000	3.617
SW	0.000	0.095	1.238	0.238	0.000	0.000	0.000	0.000	0.000	1.571
WSW	0.000	0.000	1.095	1.047	0.095	0.286	0.000	0.000	0.000	2.523
W	0.000	0.000	0.619	1.666	1.238	0.238	0.000	0.000	0.000	3.760
WNW	0.000	0.000	0.286	0.333	0.904	1.475	0.381	0.000	0.000	3.379
NW	0.000	0.000	0.190	0.238	0.809	0.524	0.238	0.000	0.000	1.999
NNW	0.000	0.000	0.095	0.476	0.476	0.333	0.190	0.000	0.000	1.571
SUBTOTAL	0.000	0.238	14.422	8.329	5.426	3.475	0.809	0.000	0.000	32.699

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2101
TOTAL HOURS OF STABILITY CLASS D	687
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	687
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2101
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/08/19

MEAN WIND SPEED = 4.59

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 < ΔT ≤ 1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.048	0.476	0.381	0.000	0.000	0.000	0.000	0.000	0.904
NNE	0.000	0.143	0.524	0.286	0.333	0.000	0.000	0.000	0.000	1.285
NE	0.000	0.190	0.238	0.333	0.143	0.000	0.000	0.000	0.000	0.904
ENE	0.000	0.524	0.714	0.333	0.048	0.000	0.000	0.000	0.000	1.618
E	0.000	0.333	1.761	1.142	0.143	0.000	0.000	0.000	0.000	3.379
ESE	0.000	0.428	1.999	0.714	0.000	0.048	0.000	0.000	0.000	3.189
SE	0.000	0.381	0.952	0.143	0.000	0.000	0.000	0.000	0.000	1.475
SSE	0.000	0.333	1.000	0.095	0.000	0.000	0.000	0.000	0.000	1.428
S	0.000	0.286	1.428	0.476	0.571	0.095	0.000	0.000	0.000	2.856
SSW	0.000	0.666	1.904	1.380	0.095	0.000	0.000	0.000	0.000	4.046
SW	0.000	0.238	0.714	0.048	0.000	0.048	0.000	0.000	0.000	1.047
WSW	0.000	0.238	0.809	0.143	0.000	0.000	0.000	0.000	0.000	1.190
W	0.000	0.143	0.619	0.476	0.143	0.048	0.000	0.000	0.000	1.428
WNW	0.000	0.095	0.238	0.143	0.048	0.000	0.048	0.000	0.000	0.571
NW	0.000	0.143	0.190	0.143	0.095	0.238	0.000	0.000	0.000	0.809
NNW	0.000	0.095	0.476	0.524	0.333	0.095	0.000	0.000	0.000	1.523
SUBTOTAL	0.000	4.284	14.041	6.759	1.951	0.571	0.048	0.000	0.000	27.653

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2101
TOTAL HOURS OF STABILITY CLASS E	581
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	581
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2101
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/08/19

MEAN WIND SPEED = 3.06

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 < ΔT ≤ 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.095	0.952	0.571	0.048	0.000	0.000	0.000	0.000	1.666
NNE	0.000	0.286	0.809	0.333	0.143	0.000	0.000	0.000	0.000	1.571
NE	0.000	0.381	0.381	0.000	0.095	0.000	0.000	0.000	0.000	0.857
ENE	0.000	0.714	0.857	0.000	0.095	0.000	0.000	0.000	0.000	1.666
E	0.000	0.571	1.095	0.095	0.000	0.000	0.000	0.000	0.000	1.761
ESE	0.000	0.381	0.809	0.095	0.000	0.000	0.000	0.000	0.000	1.285
SE	0.000	0.238	0.381	0.000	0.000	0.000	0.000	0.000	0.000	0.619
SSE	0.000	0.333	0.571	0.000	0.000	0.000	0.000	0.000	0.000	0.904
S	0.000	0.143	0.524	0.286	0.095	0.000	0.000	0.000	0.000	1.047
SSW	0.000	0.000	0.286	0.048	0.000	0.000	0.000	0.000	0.000	0.333
SW	0.000	0.190	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.286
WSW	0.000	0.095	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.190
W	0.000	0.143	0.048	0.095	0.000	0.000	0.000	0.000	0.000	0.286
WNW	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.048
NW	0.000	0.000	0.143	0.000	0.000	0.000	0.000	0.000	0.000	0.143
NNW	0.000	0.048	0.476	0.333	0.000	0.000	0.000	0.000	0.000	0.857
SUBTOTAL	0.000	3.617	7.568	1.856	0.476	0.000	0.000	0.000	0.000	13.517

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2101
TOTAL HOURS OF STABILITY CLASS F	284
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	284
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2101
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/08/19

MEAN WIND SPEED = 2.36

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (ΔT > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.021	1.428	1.190	0.000	0.000	0.000	0.000	0.000	0.000	2.638
NNE	0.014	1.238	0.524	0.095	0.000	0.000	0.000	0.000	0.000	1.870
NE	0.010	0.619	0.666	0.000	0.000	0.000	0.000	0.000	0.000	1.295
ENE	0.012	0.571	0.952	0.048	0.000	0.000	0.000	0.000	0.000	1.583
E	0.006	0.333	0.381	0.048	0.000	0.000	0.000	0.000	0.000	0.767
ESE	0.003	0.286	0.143	0.000	0.000	0.000	0.000	0.000	0.000	0.432
SE	0.003	0.190	0.238	0.000	0.000	0.000	0.000	0.000	0.000	0.432
SSE	0.005	0.333	0.333	0.095	0.000	0.000	0.000	0.000	0.000	0.767
S	0.004	0.048	0.476	0.143	0.000	0.000	0.000	0.000	0.000	0.670
SSW	0.001	0.095	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.144
SW	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048
WSW	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048
W	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048
WNW	0.001	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.096
NW	0.003	0.190	0.143	0.000	0.000	0.000	0.000	0.000	0.000	0.336
NNW	0.011	0.762	0.666	0.000	0.000	0.000	0.000	0.000	0.000	1.439
SUBTOTAL	0.095	6.330	5.759	0.428	0.000	0.000	0.000	0.000	0.000	12.613

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2101
TOTAL HOURS OF STABILITY CLASS G	265
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	265
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2101
TOTAL HOURS CALM	2

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/08/19

MEAN WIND SPEED = 1.69

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT

2010 METEOROLOGICAL DATA TABLE 3

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR GROUND LEVEL RELEASES

THIRD QUARTER

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A ($\Delta T \leq -1.9$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.182	0.865	0.000	0.000	0.000	1.047
NNE	0.000	0.000	0.000	0.000	0.137	0.455	0.000	0.000	0.000	0.592
NE	0.000	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.091
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
ESE	0.000	0.000	0.000	0.182	0.228	0.000	0.000	0.000	0.000	0.410
SE	0.000	0.000	0.592	1.730	0.091	0.000	0.000	0.000	0.000	2.412
SSE	0.000	0.000	0.728	0.774	0.000	0.000	0.000	0.000	0.000	1.502
S	0.000	0.000	0.546	0.501	0.000	0.000	0.000	0.000	0.000	1.047
SSW	0.000	0.000	0.319	0.364	0.000	0.000	0.000	0.000	0.000	0.683
SW	0.000	0.000	0.091	0.182	0.000	0.000	0.000	0.000	0.000	0.273
WSW	0.000	0.000	0.000	0.455	0.046	0.000	0.000	0.000	0.000	0.501
W	0.000	0.000	0.000	0.137	0.592	0.273	0.000	0.000	0.000	1.001
WNW	0.000	0.000	0.000	0.000	0.046	0.273	0.000	0.000	0.000	0.319
NW	0.000	0.000	0.000	0.000	0.000	0.137	0.000	0.000	0.000	0.137
NNW	0.000	0.000	0.000	0.000	0.046	0.182	0.000	0.000	0.000	0.228
SUBTOTAL	0.000	0.000	2.276	4.370	1.365	2.276	0.000	0.000	0.000	10.287

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2197
TOTAL HOURS OF STABILITY CLASS A	226
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	226
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2197
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/10/21

MEAN WIND SPEED = 5.31

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < ΔT ≤-1.7 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.046	0.319	0.137	0.000	0.000	0.000	0.501
NNE	0.000	0.000	0.000	0.046	0.364	0.228	0.000	0.000	0.000	0.637
NE	0.000	0.000	0.046	0.046	0.137	0.046	0.000	0.000	0.000	0.273
ENE	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.046	0.228	0.137	0.000	0.000	0.000	0.000	0.410
SE	0.000	0.000	0.455	0.182	0.000	0.000	0.000	0.000	0.000	0.637
SSE	0.000	0.000	0.364	0.091	0.000	0.000	0.000	0.000	0.000	0.455
S	0.000	0.000	0.228	0.182	0.000	0.000	0.000	0.000	0.000	0.410
SSW	0.000	0.000	0.091	0.228	0.000	0.000	0.000	0.000	0.000	0.319
SW	0.000	0.000	0.046	0.364	0.000	0.000	0.000	0.000	0.000	0.410
WSW	0.000	0.000	0.000	0.592	0.000	0.000	0.000	0.000	0.000	0.592
W	0.000	0.000	0.000	0.683	0.501	0.137	0.000	0.000	0.000	1.320
WNW	0.000	0.000	0.000	0.000	0.182	0.364	0.000	0.000	0.000	0.546
NW	0.000	0.000	0.000	0.000	0.046	0.137	0.046	0.000	0.000	0.228
NNW	0.000	0.000	0.000	0.000	0.091	0.228	0.000	0.000	0.000	0.319
SUBTOTAL	0.000	0.000	1.274	2.685	1.775	1.320	0.046	0.000	0.000	7.101

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2197
TOTAL HOURS OF STABILITY CLASS B	156
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	156
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2197
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/10/21

MEAN WIND SPEED = 5.55

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 < ΔT ≤ -1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.182	0.273	0.000	0.000	0.000	0.000	0.455
NNE	0.000	0.000	0.000	0.046	0.319	0.000	0.000	0.000	0.000	0.364
NE	0.000	0.000	0.000	0.091	0.046	0.091	0.000	0.000	0.000	0.228
ENE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
E	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.091
ESE	0.000	0.000	0.046	0.228	0.137	0.000	0.000	0.000	0.000	0.410
SE	0.000	0.000	0.137	0.091	0.000	0.000	0.000	0.000	0.000	0.228
SSE	0.000	0.000	0.455	0.137	0.000	0.000	0.000	0.000	0.000	0.592
S	0.000	0.000	0.501	0.182	0.000	0.000	0.000	0.000	0.000	0.683
SSW	0.000	0.000	0.319	0.273	0.000	0.000	0.000	0.000	0.000	0.592
SW	0.000	0.000	0.046	0.319	0.000	0.000	0.000	0.000	0.000	0.364
WSW	0.000	0.000	0.137	0.273	0.000	0.000	0.000	0.000	0.000	0.410
W	0.000	0.000	0.000	1.183	0.455	0.273	0.000	0.000	0.000	1.912
WNW	0.000	0.000	0.046	0.182	0.319	0.182	0.046	0.000	0.000	0.774
NW	0.000	0.000	0.000	0.046	0.137	0.091	0.000	0.000	0.000	0.273
NNW	0.000	0.000	0.000	0.000	0.046	0.091	0.000	0.000	0.000	0.137
SUBTOTAL	0.000	0.000	1.684	3.323	1.775	0.728	0.046	0.000	0.000	7.556

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2197
TOTAL HOURS OF STABILITY CLASS C	166
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	166
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2197
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/10/21

MEAN WIND SPEED = 4.94

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < ΔT ≤ -0.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.046	0.319	0.546	0.273	0.228	0.000	0.000	0.000	1.411
NNE	0.000	0.091	0.228	0.592	0.455	0.137	0.000	0.000	0.000	1.502
NE	0.000	0.000	0.410	0.501	0.091	0.046	0.046	0.000	0.000	1.092
ENE	0.000	0.000	0.228	0.182	0.046	0.046	0.000	0.000	0.000	0.501
E	0.000	0.000	0.546	0.501	0.046	0.000	0.000	0.000	0.000	1.092
ESE	0.000	0.000	0.501	1.229	0.455	0.046	0.000	0.000	0.000	2.230
SE	0.000	0.046	1.047	0.091	0.000	0.000	0.000	0.000	0.000	1.183
SSE	0.000	0.091	0.910	0.137	0.000	0.000	0.000	0.000	0.000	1.138
S	0.000	0.182	1.775	0.273	0.000	0.000	0.000	0.000	0.000	2.230
SSW	0.000	0.000	2.367	0.364	0.000	0.000	0.000	0.000	0.000	2.731
SW	0.000	0.000	1.365	0.364	0.000	0.000	0.000	0.000	0.000	1.730
WSW	0.000	0.046	1.912	1.047	0.000	0.000	0.000	0.000	0.000	3.004
W	0.000	0.000	0.455	1.775	0.774	0.137	0.000	0.000	0.000	3.141
WNW	0.000	0.000	0.000	0.501	0.319	0.273	0.000	0.000	0.000	1.092
NW	0.000	0.000	0.228	0.228	0.182	0.410	0.000	0.000	0.000	1.047
NNW	0.000	0.000	0.273	0.364	0.319	0.228	0.000	0.000	0.000	1.183
SUBTOTAL	0.000	0.501	12.563	8.694	2.959	1.548	0.046	0.000	0.000	26.309

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2197
TOTAL HOURS OF STABILITY CLASS D	578
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	578
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2197
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/10/21

MEAN WIND SPEED = 3.92

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 < ΔT <= 1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.137	0.910	0.683	0.137	0.000	0.000	0.000	0.000	1.866
NNE	0.000	0.091	0.501	1.047	0.455	0.228	0.000	0.000	0.000	2.321
NE	0.000	0.000	0.774	0.501	0.137	0.319	0.000	0.000	0.000	1.730
ENE	0.000	0.182	0.910	0.364	0.091	0.000	0.000	0.000	0.000	1.548
E	0.000	0.182	1.730	1.274	0.046	0.000	0.000	0.000	0.000	3.232
ESE	0.000	0.137	1.092	0.501	0.046	0.000	0.000	0.000	0.000	1.775
SE	0.000	0.046	0.865	0.091	0.000	0.000	0.000	0.000	0.000	1.001
SSE	0.000	0.182	0.592	0.000	0.000	0.000	0.000	0.000	0.000	0.774
S	0.000	0.364	0.728	0.000	0.000	0.000	0.000	0.000	0.000	1.092
SSW	0.000	0.137	0.774	0.046	0.000	0.000	0.000	0.000	0.000	0.956
SW	0.000	0.182	0.501	0.000	0.000	0.000	0.000	0.000	0.000	0.683
WSW	0.000	0.228	0.865	0.137	0.000	0.000	0.000	0.000	0.000	1.229
W	0.000	0.182	0.910	1.183	0.137	0.046	0.000	0.000	0.000	2.458
WNW	0.000	0.046	0.319	0.228	0.091	0.046	0.000	0.000	0.000	0.728
NW	0.000	0.046	0.228	0.137	0.091	0.091	0.000	0.000	0.000	0.592
NNW	0.000	0.228	0.455	0.273	0.228	0.137	0.000	0.000	0.000	1.320
SUBTOTAL	0.000	2.367	12.153	6.463	1.457	0.865	0.000	0.000	0.000	23.305

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2197
TOTAL HOURS OF STABILITY CLASS E	512
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	512
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2197
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/10/21

MEAN WIND SPEED = 3.27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 < ΔT ≤ 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.011	0.228	2.685	1.047	0.091	0.000	0.000	0.000	0.000	4.062
NNE	0.004	0.137	0.774	0.683	0.273	0.046	0.000	0.000	0.000	1.915
NE	0.004	0.364	0.546	0.137	0.000	0.000	0.000	0.000	0.000	1.050
ENE	0.005	0.455	0.956	0.364	0.000	0.000	0.000	0.000	0.000	1.781
E	0.008	0.228	1.821	0.501	0.000	0.000	0.000	0.000	0.000	2.557
ESE	0.003	0.228	0.592	0.000	0.000	0.000	0.000	0.000	0.000	0.822
SE	0.001	0.137	0.182	0.000	0.000	0.000	0.000	0.000	0.000	0.320
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.001	0.091	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.137
SSW	0.002	0.091	0.319	0.000	0.000	0.000	0.000	0.000	0.000	0.411
SW	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.091
WSW	0.001	0.091	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.137
W	0.001	0.046	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.183
WNW	0.001	0.091	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.228
NW	0.001	0.182	0.091	0.046	0.000	0.000	0.000	0.000	0.000	0.320
NNW	0.004	0.319	0.637	0.182	0.137	0.000	0.000	0.000	0.000	1.278
SUBTOTAL	0.046	2.731	9.012	2.959	0.501	0.046	0.000	0.000	0.000	15.294

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2197
TOTAL HOURS OF STABILITY CLASS F	336
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	336
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2197
TOTAL HOURS CALM	1

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/10/21

MEAN WIND SPEED = 2.69

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (ΔT > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.819	2.139	0.865	0.000	0.000	0.000	0.000	0.000	3.823
NNE	0.000	0.774	0.728	0.137	0.000	0.000	0.000	0.000	0.000	1.639
NE	0.000	0.228	0.592	0.000	0.000	0.000	0.000	0.000	0.000	0.819
ENE	0.000	0.273	0.683	0.228	0.000	0.000	0.000	0.000	0.000	1.183
E	0.000	0.091	0.319	0.228	0.000	0.000	0.000	0.000	0.000	0.637
ESE	0.000	0.046	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.182
SE	0.000	0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.091
SSE	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.091
S	0.000	0.000	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.137
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.091
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
NW	0.000	0.137	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.228
NNW	0.000	0.546	0.637	0.000	0.000	0.000	0.000	0.000	0.000	1.183
SUBTOTAL	0.000	3.095	5.553	1.502	0.000	0.000	0.000	0.000	0.000	10.150

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2197
TOTAL HOURS OF STABILITY CLASS G	223
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	223
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2197
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2010/10/21

MEAN WIND SPEED = 2.18

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT

2010 METEOROLOGICAL DATA TABLE 4

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR GROUND LEVEL RELEASES

FOURTH QUARTER

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A ($\Delta T \leq -1.9$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.045	0.455	0.045	0.000	0.000	0.545
NNE	0.000	0.000	0.000	0.000	0.045	0.318	0.000	0.000	0.000	0.364
NE	0.000	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.091
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.045
SE	0.000	0.000	0.136	0.227	0.000	0.000	0.000	0.000	0.000	0.364
SSE	0.000	0.000	0.273	0.182	0.000	0.000	0.000	0.000	0.000	0.455
S	0.000	0.000	0.136	0.591	0.000	0.000	0.000	0.000	0.000	0.727
SSW	0.000	0.000	0.045	0.318	0.000	0.000	0.000	0.000	0.000	0.364
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.273	0.091	0.000	0.000	0.364
SUBTOTAL	0.000	0.000	0.591	1.318	0.136	1.136	0.136	0.000	0.000	3.318

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS A	73
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	73
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2200
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2011/02/28

MEAN WIND SPEED = 6.53

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < ΔT ≤ -1.7 C/100 M)

BROWNS FERRY NUCLEAR PLANT

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.182	0.000	0.000	0.000	0.182
NNE	0.000	0.000	0.000	0.000	0.000	0.364	0.000	0.000	0.000	0.364
NE	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.045
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.136	0.091	0.000	0.000	0.000	0.000	0.227
SE	0.000	0.000	0.000	0.136	0.000	0.000	0.000	0.000	0.000	0.136
SSE	0.000	0.000	0.182	0.000	0.000	0.000	0.000	0.000	0.000	0.182
S	0.000	0.000	0.091	0.091	0.000	0.000	0.000	0.000	0.000	0.182
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.136	0.000	0.000	0.000	0.000	0.000	0.136
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.045	0.091	0.091	0.000	0.000	0.227
NW	0.000	0.000	0.000	0.000	0.000	0.182	0.318	0.000	0.000	0.500
NNW	0.000	0.000	0.000	0.000	0.000	0.364	0.091	0.000	0.000	0.455
SUBTOTAL	0.000	0.000	0.273	0.500	0.136	1.227	0.500	0.000	0.000	2.636

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS B	58
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	58
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2200
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2011/02/28

MEAN WIND SPEED = 8.42

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C ($-1.7 < \Delta T \leq -1.5$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.045	0.136	0.136	0.000	0.000	0.000	0.318
NNE	0.000	0.000	0.045	0.091	0.182	0.000	0.000	0.000	0.000	0.318
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.045
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.091
SE	0.000	0.000	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.136
SSE	0.000	0.000	0.318	0.045	0.000	0.000	0.000	0.000	0.000	0.364
S	0.000	0.000	0.409	0.136	0.000	0.000	0.000	0.000	0.000	0.545
SSW	0.000	0.000	0.091	0.045	0.000	0.000	0.000	0.000	0.000	0.136
SW	0.000	0.000	0.136	0.136	0.000	0.000	0.000	0.000	0.000	0.273
WSW	0.000	0.000	0.045	0.091	0.000	0.000	0.000	0.000	0.000	0.136
W	0.000	0.000	0.091	0.182	0.000	0.045	0.045	0.000	0.000	0.364
WNW	0.000	0.000	0.000	0.045	0.182	0.409	0.273	0.000	0.000	0.909
NW	0.000	0.000	0.000	0.091	0.045	0.455	0.227	0.000	0.000	0.818
NNW	0.000	0.000	0.000	0.000	0.182	0.455	0.091	0.000	0.000	0.727
SUBTOTAL	0.000	0.000	1.273	1.045	0.727	1.500	0.636	0.000	0.000	5.182

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS C	114
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	114
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2200
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2011/02/28

MEAN WIND SPEED = 7.07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < ΔT ≤-0.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.045	0.273	0.682	1.000	0.455	0.000	0.000	0.000	2.455
NNE	0.000	0.000	0.091	0.364	0.455	0.545	0.000	0.000	0.000	1.455
NE	0.000	0.000	0.182	0.318	0.182	0.136	0.000	0.000	0.000	0.818
ENE	0.000	0.000	0.364	0.364	0.000	0.000	0.000	0.000	0.000	0.727
E	0.000	0.045	0.545	0.591	0.045	0.000	0.000	0.000	0.000	1.227
ESE	0.000	0.000	0.591	0.500	0.591	0.364	0.000	0.000	0.000	2.045
SE	0.000	0.000	1.045	0.364	0.364	0.045	0.000	0.000	0.000	1.818
SSE	0.000	0.045	1.636	0.364	0.000	0.000	0.000	0.000	0.000	2.045
S	0.000	0.000	1.318	0.227	0.136	0.045	0.000	0.000	0.000	1.727
SSW	0.000	0.045	0.500	0.273	0.000	0.182	0.000	0.000	0.000	1.000
SW	0.000	0.000	0.409	0.091	0.000	0.000	0.000	0.000	0.000	0.500
WSW	0.000	0.000	0.227	0.409	0.045	0.182	0.000	0.000	0.000	0.864
W	0.000	0.000	0.273	0.500	0.500	0.500	0.136	0.000	0.000	1.909
WNW	0.000	0.000	0.091	0.182	0.545	1.045	0.864	0.182	0.000	2.909
NW	0.000	0.000	0.136	0.500	0.955	2.273	1.955	0.273	0.000	6.091
NNW	0.000	0.000	0.091	0.318	1.136	3.000	1.136	0.000	0.000	5.682
SUBTOTAL	0.000	0.182	7.773	6.045	5.955	8.773	4.091	0.455	0.000	33.273

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS D	732
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	732
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2200
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2011/02/28

MEAN WIND SPEED = 7.19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E ($-0.5 < \Delta T \leq 1.5$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.091	0.545	0.318	0.273	0.409	0.045	0.000	0.000	1.682
NNE	0.000	0.045	0.591	0.500	0.045	0.000	0.000	0.000	0.000	1.182
NE	0.000	0.091	0.136	0.182	0.045	0.091	0.000	0.000	0.000	0.545
ENE	0.000	0.045	0.364	0.273	0.000	0.000	0.000	0.000	0.000	0.682
E	0.000	0.000	0.682	0.545	0.045	0.000	0.000	0.000	0.000	1.273
ESE	0.000	0.136	0.909	0.636	0.364	0.000	0.000	0.000	0.000	2.045
SE	0.000	0.318	1.727	0.864	0.500	0.000	0.000	0.000	0.000	3.409
SSE	0.000	0.091	1.136	0.455	0.000	0.000	0.000	0.000	0.000	1.682
S	0.000	0.227	1.318	1.091	0.364	0.318	0.000	0.000	0.000	3.318
SSW	0.000	0.227	0.318	0.636	0.227	0.318	0.000	0.000	0.000	1.727
SW	0.000	0.000	0.136	0.045	0.000	0.000	0.000	0.000	0.000	0.182
WSW	0.000	0.091	0.364	0.091	0.000	0.045	0.000	0.000	0.000	0.591
W	0.000	0.045	0.455	0.318	0.227	0.045	0.000	0.000	0.000	1.091
WNW	0.000	0.000	0.136	0.091	0.091	0.000	0.045	0.000	0.000	0.364
NW	0.000	0.000	0.045	0.318	0.318	0.500	0.000	0.000	0.000	1.182
NNW	0.000	0.045	0.545	0.909	0.864	0.636	0.000	0.000	0.000	3.000
SUBTOTAL	0.000	1.455	9.409	7.273	3.364	2.364	0.091	0.000	0.000	23.955

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS E	527
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	527
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2200
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2011/02/28

MEAN WIND SPEED = 4.22

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 < ΔT ≤ 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	1.182	0.727	0.227	0.000	0.000	0.000	0.000	2.136
NNE	0.000	0.091	0.818	0.182	0.000	0.000	0.000	0.000	0.000	1.091
NE	0.000	0.273	0.364	0.227	0.000	0.000	0.000	0.000	0.000	0.864
ENE	0.000	0.091	0.500	0.045	0.000	0.000	0.000	0.000	0.000	0.636
E	0.000	0.091	0.591	0.227	0.000	0.000	0.000	0.000	0.000	0.909
ESE	0.000	0.136	0.818	0.045	0.000	0.000	0.000	0.000	0.000	1.000
SE	0.000	0.500	0.636	0.318	0.136	0.000	0.000	0.000	0.000	1.591
SSE	0.000	0.409	0.545	0.000	0.000	0.000	0.000	0.000	0.000	0.955
S	0.000	0.500	0.773	0.136	0.000	0.000	0.000	0.000	0.000	1.409
SSW	0.000	0.091	0.182	0.045	0.000	0.000	0.000	0.000	0.000	0.318
SW	0.000	0.227	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.227
WSW	0.000	0.045	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.182
W	0.000	0.045	0.182	0.000	0.000	0.000	0.000	0.000	0.000	0.227
WNW	0.000	0.136	0.091	0.045	0.000	0.000	0.000	0.000	0.000	0.273
NW	0.000	0.091	0.091	0.045	0.000	0.000	0.000	0.000	0.000	0.227
NNW	0.000	0.182	0.455	0.682	0.136	0.000	0.000	0.000	0.000	1.455
SUBTOTAL	0.000	2.909	7.364	2.727	0.500	0.000	0.000	0.000	0.000	13.500

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS F	297
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	297
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2200
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2011/02/28

MEAN WIND SPEED = 2.62

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (ΔT > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.011	1.909	2.091	1.455	0.000	0.000	0.000	0.000	0.000	5.466
NNE	0.008	1.818	1.045	0.182	0.000	0.000	0.000	0.000	0.000	3.054
NE	0.004	0.773	0.727	0.000	0.000	0.000	0.000	0.000	0.000	1.504
ENE	0.003	0.409	0.500	0.136	0.000	0.000	0.000	0.000	0.000	1.048
E	0.001	0.136	0.182	0.045	0.000	0.000	0.000	0.000	0.000	0.365
ESE	0.001	0.227	0.227	0.000	0.000	0.000	0.000	0.000	0.000	0.456
SE	0.002	0.364	0.318	0.000	0.000	0.000	0.000	0.000	0.000	0.684
SSE	0.003	0.591	0.500	0.091	0.000	0.000	0.000	0.000	0.000	1.185
S	0.002	0.364	0.182	0.000	0.000	0.000	0.000	0.000	0.000	0.547
SSW	0.000	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.137
SW	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
WSW	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.091
W	0.001	0.091	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.182
WNW	0.001	0.136	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.228
NW	0.001	0.409	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.501
NNW	0.007	1.364	1.045	0.227	0.000	0.000	0.000	0.000	0.000	2.643
SUBTOTAL	0.045	8.864	7.091	2.136	0.000	0.000	0.000	0.000	0.000	18.136

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS G	399
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	399
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2200
TOTAL HOURS CALM	1

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2011/02/28

MEAN WIND SPEED = 1.83

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT

2010 METEOROLOGICAL DATA TABLE 5

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR SPLIT LEVEL RELEASES

(GROUND LEVEL PORTION)

FIRST QUARTER

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A ($\Delta T \leq -1.9$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.023	0.000	0.000	0.000	0.023
NNE	0.000	0.000	0.000	0.000	0.005	0.045	0.000	0.000	0.000	0.050
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.013	0.101	0.000	0.000	0.000	0.000	0.114
SSE	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.045
S	0.000	0.000	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.013
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.026	0.000	0.000	0.000	0.000	0.026
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.009
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.009
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.009
SUBTOTAL	0.000	0.000	0.000	0.071	0.132	0.068	0.027	0.000	0.000	0.298

TOTAL HOURS OF VALID OBSERVATIONS 2155.000
TOTAL HOURS OF GROUND LEVEL RELEASE 277.930
TOTAL HOURS OF STABILITY CLASS A 9.740
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 6.420

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/05/13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < ΔT ≤ -1.7 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.004	0.018	0.000	0.000	0.000	0.022
NNE	0.000	0.000	0.000	0.000	0.000	0.023	0.000	0.000	0.000	0.023
NE	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.005
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.005
SE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.005
SSE	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.002
S	0.000	0.000	0.002	0.003	0.000	0.000	0.000	0.000	0.000	0.005
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.005
WSW	0.000	0.000	0.000	0.000	0.000	0.019	0.000	0.000	0.000	0.019
W	0.000	0.000	0.000	0.000	0.003	0.039	0.016	0.000	0.000	0.057
WNW	0.000	0.000	0.000	0.000	0.000	0.028	0.038	0.000	0.000	0.066
NW	0.000	0.000	0.000	0.000	0.000	0.008	0.027	0.000	0.000	0.035
NNW	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.008
SUBTOTAL	0.000	0.000	0.002	0.019	0.006	0.147	0.081	0.000	0.000	0.255

TOTAL HOURS OF VALID OBSERVATIONS 2155.000
TOTAL HOURS OF GROUND LEVEL RELEASE 277.930
TOTAL HOURS OF STABILITY CLASS B 15.480
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 5.500

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/05/13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 < ΔT ≤ -1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.018	0.014	0.000	0.000	0.000	0.032
NNE	0.000	0.000	0.000	0.000	0.009	0.007	0.000	0.000	0.000	0.016
NE	0.000	0.000	0.000	0.000	0.004	0.013	0.000	0.000	0.000	0.017
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.006
SE	0.000	0.000	0.000	0.019	0.000	0.000	0.000	0.000	0.000	0.019
SSE	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.009
S	0.000	0.000	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.009
SSW	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.008
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.018	0.000	0.000	0.000	0.018
W	0.000	0.000	0.000	0.000	0.009	0.048	0.029	0.000	0.000	0.086
WNW	0.000	0.000	0.000	0.000	0.006	0.101	0.036	0.000	0.000	0.142
NW	0.000	0.000	0.000	0.000	0.000	0.064	0.029	0.000	0.000	0.093
NNW	0.000	0.000	0.000	0.000	0.013	0.075	0.009	0.000	0.000	0.097
SUBTOTAL	0.000	0.000	0.014	0.037	0.059	0.340	0.103	0.000	0.000	0.552

TOTAL HOURS OF VALID OBSERVATIONS 2155.000
TOTAL HOURS OF GROUND LEVEL RELEASE 277.930
TOTAL HOURS OF STABILITY CLASS C 53.470
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 11.900

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/05/13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < ΔT ≤ -0.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.002	0.075	0.209	0.155	0.000	0.000	0.000	0.442
NNE	0.000	0.000	0.000	0.058	0.124	0.161	0.000	0.000	0.000	0.344
NE	0.000	0.000	0.000	0.024	0.038	0.134	0.000	0.000	0.000	0.196
ENE	0.000	0.000	0.000	0.018	0.032	0.022	0.000	0.000	0.000	0.072
E	0.000	0.000	0.000	0.027	0.068	0.050	0.000	0.000	0.000	0.145
ESE	0.000	0.000	0.002	0.028	0.039	0.000	0.000	0.000	0.000	0.069
SE	0.000	0.000	0.005	0.026	0.212	0.160	0.000	0.000	0.000	0.402
SSE	0.000	0.000	0.007	0.116	0.029	0.000	0.000	0.000	0.000	0.152
S	0.000	0.000	0.029	0.067	0.023	0.039	0.000	0.000	0.000	0.158
SSW	0.000	0.000	0.006	0.077	0.025	0.000	0.000	0.000	0.000	0.109
SW	0.000	0.000	0.004	0.024	0.000	0.000	0.000	0.000	0.000	0.028
WSW	0.000	0.000	0.007	0.024	0.050	0.034	0.000	0.000	0.000	0.115
W	0.000	0.000	0.000	0.071	0.249	0.398	0.010	0.000	0.000	0.729
WNW	0.000	0.000	0.000	0.006	0.056	0.436	0.257	0.101	0.000	0.856
NW	0.000	0.000	0.000	0.035	0.150	1.133	0.643	0.218	0.000	2.178
NNW	0.000	0.000	0.000	0.045	0.147	0.633	0.019	0.000	0.000	0.844
SUBTOTAL	0.000	0.000	0.065	0.722	1.450	3.355	0.928	0.319	0.000	6.839

TOTAL HOURS OF VALID OBSERVATIONS 2155.000
TOTAL HOURS OF GROUND LEVEL RELEASE 277.930
TOTAL HOURS OF STABILITY CLASS D 1174.750
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 147.380

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/05/13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 < ΔT ≤ 1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.034	0.052	0.067	0.019	0.000	0.000	0.000	0.172
NNE	0.000	0.000	0.019	0.077	0.031	0.016	0.000	0.000	0.000	0.143
NE	0.000	0.000	0.001	0.025	0.023	0.015	0.000	0.000	0.000	0.065
ENE	0.000	0.000	0.015	0.069	0.020	0.000	0.000	0.000	0.000	0.104
E	0.000	0.000	0.013	0.039	0.034	0.008	0.000	0.000	0.000	0.095
ESE	0.000	0.000	0.030	0.087	0.090	0.008	0.000	0.000	0.000	0.215
SE	0.000	0.000	0.030	0.226	0.208	0.046	0.000	0.000	0.000	0.510
SSE	0.000	0.008	0.084	0.295	0.000	0.000	0.000	0.000	0.000	0.387
S	0.000	0.000	0.059	0.095	0.163	0.081	0.000	0.000	0.000	0.399
SSW	0.000	0.000	0.010	0.015	0.000	0.000	0.000	0.000	0.000	0.025
SW	0.000	0.000	0.000	0.014	0.000	0.000	0.000	0.000	0.000	0.014
WSW	0.000	0.000	0.012	0.010	0.006	0.000	0.000	0.000	0.000	0.027
W	0.000	0.000	0.021	0.076	0.020	0.008	0.000	0.000	0.000	0.124
WNW	0.000	0.000	0.006	0.023	0.026	0.044	0.021	0.000	0.000	0.119
NW	0.000	0.000	0.006	0.084	0.101	0.145	0.000	0.000	0.000	0.335
NNW	0.000	0.000	0.018	0.098	0.169	0.065	0.000	0.000	0.000	0.350
SUBTOTAL	0.000	0.008	0.357	1.285	0.956	0.456	0.021	0.000	0.000	3.084

TOTAL HOURS OF VALID OBSERVATIONS 2155.000
TOTAL HOURS OF GROUND LEVEL RELEASE 277.930
TOTAL HOURS OF STABILITY CLASS E 577.130
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 66.450

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/05/13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 < ΔT ≤ 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.048	0.029	0.000	0.000	0.000	0.000	0.000	0.077
NNE	0.000	0.000	0.039	0.036	0.000	0.000	0.000	0.000	0.000	0.075
NE	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.006
ENE	0.000	0.000	0.019	0.006	0.008	0.000	0.000	0.000	0.000	0.032
E	0.000	0.003	0.055	0.019	0.000	0.000	0.000	0.000	0.000	0.077
ESE	0.000	0.000	0.050	0.016	0.009	0.000	0.000	0.000	0.000	0.075
SE	0.000	0.015	0.107	0.135	0.000	0.000	0.000	0.000	0.000	0.257
SSE	0.000	0.013	0.155	0.132	0.042	0.000	0.000	0.000	0.000	0.342
S	0.000	0.009	0.076	0.049	0.017	0.000	0.000	0.000	0.000	0.151
SSW	0.000	0.000	0.000	0.016	0.000	0.000	0.000	0.000	0.000	0.016
SW	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.006
WSW	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.005
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.004	0.000	0.000	0.019	0.000	0.000	0.000	0.023
NW	0.000	0.000	0.005	0.024	0.000	0.000	0.000	0.000	0.000	0.028
NNW	0.000	0.000	0.036	0.076	0.000	0.000	0.000	0.000	0.000	0.112
SUBTOTAL	0.000	0.040	0.597	0.550	0.077	0.019	0.000	0.000	0.000	1.283

TOTAL HOURS OF VALID OBSERVATIONS 2155.000
TOTAL HOURS OF GROUND LEVEL RELEASE 277.930
TOTAL HOURS OF STABILITY CLASS F 206.590
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 27.640

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/05/13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (ΔT > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
N	0.000	0.000	0.020	0.050	0.000	0.000	0.000	0.000	0.000	0.071
NNE	0.000	0.002	0.003	0.008	0.000	0.000	0.000	0.000	0.000	0.013
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.001	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.006
E	0.000	0.003	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.017
ESE	0.000	0.014	0.053	0.000	0.000	0.000	0.000	0.000	0.000	0.067
SE	0.000	0.011	0.051	0.000	0.000	0.000	0.000	0.000	0.000	0.061
SSE	0.000	0.013	0.154	0.000	0.000	0.000	0.000	0.000	0.000	0.167
S	0.000	0.000	0.087	0.072	0.000	0.000	0.000	0.000	0.000	0.160
SSW	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.002	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.006
NW	0.000	0.002	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.009
NNW	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003
SUBTOTAL	0.000	0.056	0.400	0.131	0.000	0.000	0.000	0.000	0.000	0.587

TOTAL HOURS OF VALID OBSERVATIONS 2155.000
TOTAL HOURS OF GROUND LEVEL RELEASE 277.930
TOTAL HOURS OF STABILITY CLASS G 117.840
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 12.640

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/05/13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT

2010 METEOROLOGICAL DATA TABLE 6

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR SPLIT LEVEL RELEASES

(GROUND LEVEL PORTION)

SECOND QUARTER

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A ($\Delta T \leq -1.9$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.031	0.000	0.000	0.000	0.031
NE	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.009
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.031	0.025	0.010	0.000	0.000	0.000	0.065
SE	0.000	0.000	0.031	0.016	0.000	0.000	0.000	0.000	0.000	0.048
SSE	0.000	0.000	0.027	0.019	0.000	0.000	0.000	0.000	0.000	0.046
S	0.000	0.000	0.103	0.000	0.000	0.000	0.000	0.000	0.000	0.103
SSW	0.000	0.000	0.041	0.016	0.000	0.000	0.000	0.000	0.000	0.056
SW	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.008
WSW	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.008
W	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.000	0.000	0.019
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.202	0.099	0.025	0.049	0.019	0.000	0.000	0.394

TOTAL HOURS OF VALID OBSERVATIONS 2064.000
TOTAL HOURS OF GROUND LEVEL RELEASE 191.500
TOTAL HOURS OF STABILITY CLASS A 12.580
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 8.130

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/08/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < ΔT ≤ -1.7 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.007
NNE	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000	0.000	0.016
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.007	0.016	0.028	0.000	0.000	0.000	0.000	0.050
SE	0.000	0.000	0.004	0.018	0.000	0.000	0.000	0.000	0.000	0.022
SSE	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.008
S	0.000	0.000	0.022	0.000	0.019	0.000	0.000	0.000	0.000	0.042
SSW	0.000	0.000	0.038	0.014	0.000	0.000	0.000	0.000	0.000	0.052
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.009
W	0.000	0.000	0.000	0.001	0.011	0.007	0.010	0.000	0.000	0.029
WNW	0.000	0.000	0.000	0.000	0.000	0.028	0.039	0.000	0.000	0.067
NW	0.000	0.000	0.000	0.000	0.004	0.020	0.018	0.000	0.000	0.043
NNW	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.009
SUBTOTAL	0.000	0.000	0.079	0.058	0.062	0.087	0.067	0.000	0.000	0.353

TOTAL HOURS OF VALID OBSERVATIONS 2064.000
TOTAL HOURS OF GROUND LEVEL RELEASE 191.500
TOTAL HOURS OF STABILITY CLASS B 32.270
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 7.290

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/08/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 < ΔT ≤ -1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.006	0.014	0.000	0.000	0.000	0.020
NNE	0.000	0.000	0.000	0.000	0.005	0.007	0.000	0.000	0.000	0.013
NE	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.007
ENE	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.008
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.003	0.016	0.000	0.000	0.000	0.000	0.020
SE	0.000	0.000	0.007	0.031	0.000	0.000	0.000	0.000	0.000	0.038
SSE	0.000	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.013
S	0.000	0.000	0.038	0.022	0.000	0.000	0.000	0.000	0.000	0.061
SSW	0.000	0.000	0.030	0.043	0.000	0.000	0.000	0.000	0.000	0.073
SW	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.009
WSW	0.000	0.000	0.001	0.007	0.000	0.018	0.000	0.000	0.000	0.026
W	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.009
WNW	0.000	0.000	0.000	0.000	0.000	0.030	0.030	0.000	0.000	0.059
NW	0.000	0.000	0.000	0.000	0.013	0.047	0.055	0.070	0.000	0.186
NNW	0.000	0.000	0.000	0.000	0.000	0.024	0.000	0.000	0.000	0.024
SUBTOTAL	0.000	0.000	0.098	0.107	0.049	0.156	0.084	0.070	0.000	0.565

TOTAL HOURS OF VALID OBSERVATIONS 2064.000
TOTAL HOURS OF GROUND LEVEL RELEASE 191.500
TOTAL HOURS OF STABILITY CLASS C 64.440
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 11.660

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/08/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < ΔT ≤ -0.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.004	0.029	0.006	0.000	0.000	0.000	0.039
NNE	0.000	0.000	0.003	0.010	0.016	0.021	0.000	0.000	0.000	0.050
NE	0.000	0.000	0.000	0.012	0.025	0.027	0.000	0.000	0.000	0.064
ENE	0.000	0.000	0.000	0.010	0.004	0.000	0.000	0.000	0.000	0.014
E	0.000	0.000	0.017	0.027	0.010	0.009	0.000	0.000	0.000	0.063
ESE	0.000	0.000	0.044	0.151	0.244	0.108	0.000	0.000	0.000	0.547
SE	0.000	0.000	0.052	0.044	0.000	0.000	0.000	0.000	0.000	0.096
SSE	0.000	0.000	0.047	0.001	0.000	0.000	0.000	0.000	0.000	0.048
S	0.000	0.000	0.113	0.126	0.028	0.000	0.000	0.000	0.000	0.266
SSW	0.000	0.000	0.127	0.141	0.045	0.000	0.000	0.000	0.000	0.313
SW	0.000	0.000	0.028	0.003	0.000	0.000	0.000	0.000	0.000	0.031
WSW	0.000	0.000	0.013	0.021	0.007	0.055	0.000	0.000	0.000	0.096
W	0.000	0.000	0.004	0.067	0.149	0.042	0.000	0.000	0.000	0.262
WNW	0.000	0.000	0.000	0.000	0.063	0.217	0.096	0.000	0.000	0.377
NW	0.000	0.000	0.000	0.013	0.059	0.076	0.092	0.000	0.000	0.239
NNW	0.000	0.000	0.000	0.008	0.034	0.056	0.040	0.000	0.000	0.138
SUBTOTAL	0.000	0.000	0.450	0.638	0.712	0.616	0.228	0.000	0.000	2.644

TOTAL HOURS OF VALID OBSERVATIONS 2064.000
TOTAL HOURS OF GROUND LEVEL RELEASE 191.500
TOTAL HOURS OF STABILITY CLASS D 852.190
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 54.570

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/08/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 < ΔT ≤ 1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.015	0.040	0.000	0.000	0.000	0.000	0.000	0.055
NNE	0.000	0.006	0.005	0.032	0.049	0.000	0.000	0.000	0.000	0.093
NE	0.000	0.008	0.004	0.035	0.022	0.000	0.000	0.000	0.000	0.069
ENE	0.000	0.007	0.020	0.021	0.007	0.000	0.000	0.000	0.000	0.055
E	0.000	0.018	0.078	0.179	0.022	0.000	0.000	0.000	0.000	0.297
ESE	0.000	0.004	0.123	0.143	0.000	0.013	0.000	0.000	0.000	0.283
SE	0.000	0.008	0.090	0.045	0.000	0.000	0.000	0.000	0.000	0.142
SSE	0.000	0.005	0.055	0.024	0.000	0.000	0.000	0.000	0.000	0.084
S	0.000	0.005	0.193	0.199	0.256	0.071	0.000	0.000	0.000	0.723
SSW	0.000	0.011	0.298	0.843	0.026	0.000	0.000	0.000	0.000	1.178
SW	0.000	0.011	0.099	0.002	0.000	0.010	0.000	0.000	0.000	0.123
WSW	0.000	0.000	0.042	0.010	0.000	0.000	0.000	0.000	0.000	0.052
W	0.000	0.000	0.016	0.038	0.022	0.009	0.000	0.000	0.000	0.086
WNW	0.000	0.011	0.006	0.012	0.005	0.000	0.009	0.000	0.000	0.043
NW	0.000	0.005	0.000	0.002	0.009	0.043	0.000	0.000	0.000	0.059
NNW	0.000	0.000	0.011	0.052	0.055	0.016	0.000	0.000	0.000	0.135
SUBTOTAL	0.000	0.099	1.055	1.678	0.473	0.163	0.009	0.000	0.000	3.476

TOTAL HOURS OF VALID OBSERVATIONS 2064.000
TOTAL HOURS OF GROUND LEVEL RELEASE 191.500
TOTAL HOURS OF STABILITY CLASS E 669.990
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 71.750

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/08/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 < ΔT ≤ 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.081	0.084	0.009	0.000	0.000	0.000	0.000	0.174
NNE	0.000	0.001	0.042	0.055	0.026	0.000	0.000	0.000	0.000	0.124
NE	0.000	0.015	0.019	0.000	0.016	0.000	0.000	0.000	0.000	0.051
ENE	0.000	0.028	0.046	0.000	0.016	0.000	0.000	0.000	0.000	0.089
E	0.000	0.051	0.111	0.006	0.000	0.000	0.000	0.000	0.000	0.169
ESE	0.000	0.013	0.079	0.017	0.000	0.000	0.000	0.000	0.000	0.109
SE	0.000	0.000	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.019
SSE	0.000	0.004	0.054	0.000	0.000	0.000	0.000	0.000	0.000	0.058
S	0.000	0.013	0.057	0.068	0.057	0.000	0.000	0.000	0.000	0.196
SSW	0.000	0.000	0.038	0.009	0.000	0.000	0.000	0.000	0.000	0.047
SW	0.000	0.007	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.015
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.003	0.009	0.000	0.000	0.000	0.000	0.000	0.013
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
NNW	0.000	0.000	0.031	0.051	0.000	0.000	0.000	0.000	0.000	0.082
SUBTOTAL	0.000	0.133	0.634	0.300	0.124	0.000	0.000	0.000	0.000	1.190

TOTAL HOURS OF VALID OBSERVATIONS 2064.000
TOTAL HOURS OF GROUND LEVEL RELEASE 191.500
TOTAL HOURS OF STABILITY CLASS F 279.760
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 24.570

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/08/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (ΔT > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.001	0.000	0.096	0.000	0.000	0.000	0.000	0.000	0.000	0.098
NNE	0.000	0.007	0.017	0.009	0.000	0.000	0.000	0.000	0.000	0.034
NE	0.000	0.009	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.029
ENE	0.001	0.052	0.031	0.008	0.000	0.000	0.000	0.000	0.000	0.093
E	0.001	0.016	0.030	0.005	0.000	0.000	0.000	0.000	0.000	0.052
ESE	0.000	0.023	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.033
SE	0.000	0.010	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.035
SSE	0.001	0.044	0.054	0.019	0.000	0.000	0.000	0.000	0.000	0.118
S	0.001	0.008	0.089	0.030	0.000	0.000	0.000	0.000	0.000	0.128
SSW	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.008
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
NNW	0.000	0.003	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.026
SUBTOTAL	0.007	0.174	0.404	0.070	0.000	0.000	0.000	0.000	0.000	0.656

TOTAL HOURS OF VALID OBSERVATIONS 2064.000
TOTAL HOURS OF GROUND LEVEL RELEASE 191.500
TOTAL HOURS OF STABILITY CLASS G 152.770
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 13.530

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/08/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT

2010 METEOROLOGICAL DATA TABLE 7

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR SPLIT LEVEL RELEASES

(GROUND LEVEL PORTION)

THIRD QUARTER

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A ($\Delta T \leq -1.9$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.017	0.132	0.000	0.000	0.000	0.150
NNE	0.000	0.000	0.000	0.000	0.015	0.070	0.000	0.000	0.000	0.085
NE	0.000	0.000	0.000	0.000	0.000	0.013	0.000	0.000	0.000	0.013
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.004
ESE	0.000	0.000	0.000	0.018	0.042	0.000	0.000	0.000	0.000	0.060
SE	0.000	0.000	0.026	0.129	0.014	0.000	0.000	0.000	0.000	0.169
SSE	0.000	0.000	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.041
S	0.000	0.000	0.034	0.008	0.000	0.000	0.000	0.000	0.000	0.042
SSW	0.000	0.000	0.023	0.018	0.000	0.000	0.000	0.000	0.000	0.041
SW	0.000	0.000	0.007	0.008	0.000	0.000	0.000	0.000	0.000	0.015
WSW	0.000	0.000	0.000	0.020	0.004	0.000	0.000	0.000	0.000	0.024
W	0.000	0.000	0.000	0.004	0.052	0.037	0.000	0.000	0.000	0.093
WNW	0.000	0.000	0.000	0.000	0.003	0.037	0.000	0.000	0.000	0.041
NW	0.000	0.000	0.000	0.000	0.000	0.021	0.000	0.000	0.000	0.021
NNW	0.000	0.000	0.000	0.000	0.000	0.028	0.000	0.000	0.000	0.028
SUBTOTAL	0.000	0.000	0.110	0.228	0.148	0.339	0.000	0.000	0.000	0.825

TOTAL HOURS OF VALID OBSERVATIONS 2197.000
TOTAL HOURS OF GROUND LEVEL RELEASE 138.090
TOTAL HOURS OF STABILITY CLASS A 41.710
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 18.120

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/10/21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < ΔT ≤ -1.7 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.026	0.023	0.000	0.000	0.000	0.049
NNE	0.000	0.000	0.000	0.000	0.031	0.030	0.000	0.000	0.000	0.061
NE	0.000	0.000	0.000	0.001	0.010	0.005	0.000	0.000	0.000	0.017
ENE	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.008
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.014	0.021	0.000	0.000	0.000	0.000	0.035
SE	0.000	0.000	0.005	0.003	0.000	0.000	0.000	0.000	0.000	0.009
SSE	0.000	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.013
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.005
SW	0.000	0.000	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.014
WSW	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.009
W	0.000	0.000	0.000	0.012	0.040	0.017	0.000	0.000	0.000	0.069
WNW	0.000	0.000	0.000	0.000	0.017	0.052	0.000	0.000	0.000	0.069
NW	0.000	0.000	0.000	0.000	0.003	0.020	0.009	0.000	0.000	0.032
NNW	0.000	0.000	0.000	0.000	0.002	0.036	0.000	0.000	0.000	0.038
SUBTOTAL	0.000	0.000	0.030	0.046	0.150	0.192	0.009	0.000	0.000	0.427

TOTAL HOURS OF VALID OBSERVATIONS 2197.000
TOTAL HOURS OF GROUND LEVEL RELEASE 138.090
TOTAL HOURS OF STABILITY CLASS B 68.560
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 9.380

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/10/21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 < ΔT ≤ -1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	CALM	WIND SPEED (MPH) 0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.005	0.027	0.000	0.000	0.000	0.000	0.032
NNE	0.000	0.000	0.000	0.000	0.030	0.000	0.000	0.000	0.000	0.030
NE	0.000	0.000	0.000	0.000	0.004	0.013	0.000	0.000	0.000	0.017
ENE	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001
E	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.003
ESE	0.000	0.000	0.000	0.022	0.024	0.000	0.000	0.000	0.000	0.046
SE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.005
SSE	0.000	0.000	0.014	0.008	0.000	0.000	0.000	0.000	0.000	0.022
S	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.006
SSW	0.000	0.000	0.016	0.006	0.000	0.000	0.000	0.000	0.000	0.022
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.003
W	0.000	0.000	0.000	0.011	0.042	0.034	0.000	0.000	0.000	0.087
WNW	0.000	0.000	0.000	0.002	0.018	0.023	0.009	0.000	0.000	0.052
NW	0.000	0.000	0.000	0.002	0.010	0.015	0.000	0.000	0.000	0.026
NNW	0.000	0.000	0.000	0.000	0.005	0.015	0.000	0.000	0.000	0.020
SUBTOTAL	0.000	0.000	0.040	0.062	0.162	0.100	0.009	0.000	0.000	0.372

TOTAL HOURS OF VALID OBSERVATIONS 2197.000
TOTAL HOURS OF GROUND LEVEL RELEASE 138.090
TOTAL HOURS OF STABILITY CLASS C 165.770
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 8.180

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/10/21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < ΔT ≤ -0.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.001	0.016	0.031	0.040	0.000	0.000	0.000	0.089
NNE	0.000	0.000	0.000	0.024	0.055	0.022	0.000	0.000	0.000	0.102
NE	0.000	0.000	0.000	0.006	0.007	0.006	0.009	0.000	0.000	0.029
ENE	0.000	0.000	0.000	0.000	0.005	0.007	0.000	0.000	0.000	0.012
E	0.000	0.000	0.005	0.054	0.007	0.000	0.000	0.000	0.000	0.066
ESE	0.000	0.000	0.015	0.183	0.089	0.009	0.000	0.000	0.000	0.296
SE	0.000	0.000	0.062	0.008	0.000	0.000	0.000	0.000	0.000	0.070
SSE	0.000	0.003	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.020
S	0.000	0.002	0.058	0.015	0.000	0.000	0.000	0.000	0.000	0.075
SSW	0.000	0.000	0.126	0.047	0.000	0.000	0.000	0.000	0.000	0.173
SW	0.000	0.000	0.051	0.009	0.000	0.000	0.000	0.000	0.000	0.060
WSW	0.000	0.000	0.020	0.043	0.000	0.000	0.000	0.000	0.000	0.063
W	0.000	0.000	0.000	0.061	0.076	0.022	0.000	0.000	0.000	0.159
WNW	0.000	0.000	0.000	0.017	0.023	0.043	0.000	0.000	0.000	0.083
NW	0.000	0.000	0.000	0.005	0.015	0.064	0.000	0.000	0.000	0.084
NNW	0.000	0.000	0.000	0.007	0.034	0.039	0.000	0.000	0.000	0.080
SUBTOTAL	0.000	0.005	0.355	0.497	0.341	0.253	0.009	0.000	0.000	1.461

TOTAL HOURS OF VALID OBSERVATIONS 2197.000
TOTAL HOURS OF GROUND LEVEL RELEASE 138.090
TOTAL HOURS OF STABILITY CLASS D 844.060
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 32.100

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/10/21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 < ΔT ≤ 1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
N	0.000	0.000	0.012	0.069	0.022	0.000	0.000	0.000	0.000	0.102
NNE	0.000	0.000	0.006	0.124	0.069	0.039	0.000	0.000	0.000	0.238
NE	0.000	0.000	0.020	0.060	0.016	0.058	0.000	0.000	0.000	0.154
ENE	0.000	0.001	0.056	0.039	0.013	0.000	0.000	0.000	0.000	0.109
E	0.000	0.000	0.126	0.156	0.009	0.000	0.000	0.000	0.000	0.291
ESE	0.000	0.000	0.069	0.067	0.008	0.000	0.000	0.000	0.000	0.144
SE	0.000	0.000	0.042	0.016	0.000	0.000	0.000	0.000	0.000	0.058
SSE	0.000	0.000	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.027
S	0.000	0.004	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.044
SSW	0.000	0.000	0.046	0.008	0.000	0.000	0.000	0.000	0.000	0.054
SW	0.000	0.009	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.025
WSW	0.000	0.000	0.031	0.013	0.000	0.000	0.000	0.000	0.000	0.044
W	0.000	0.000	0.003	0.090	0.016	0.009	0.000	0.000	0.000	0.118
WNW	0.000	0.000	0.000	0.013	0.011	0.007	0.000	0.000	0.000	0.031
NW	0.000	0.000	0.004	0.009	0.014	0.015	0.000	0.000	0.000	0.041
NNW	0.000	0.005	0.006	0.032	0.034	0.023	0.000	0.000	0.000	0.101
SUBTOTAL	0.000	0.020	0.505	0.695	0.212	0.151	0.000	0.000	0.000	1.583

TOTAL HOURS OF VALID OBSERVATIONS 2197.000
TOTAL HOURS OF GROUND LEVEL RELEASE 138.090
TOTAL HOURS OF STABILITY CLASS E 605.410
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 34.780

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/10/21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 < ΔT ≤ 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.226	0.159	0.016	0.000	0.000	0.000	0.000	0.402
NNE	0.000	0.002	0.030	0.102	0.047	0.009	0.000	0.000	0.000	0.189
NE	0.000	0.007	0.008	0.016	0.000	0.000	0.000	0.000	0.000	0.031
ENE	0.000	0.010	0.048	0.030	0.000	0.000	0.000	0.000	0.000	0.087
E	0.000	0.016	0.121	0.048	0.000	0.000	0.000	0.000	0.000	0.185
ESE	0.000	0.005	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.042
SE	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.004
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006
SSW	0.000	0.001	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.007
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002
W	0.000	0.006	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.017
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.006
NNW	0.000	0.007	0.036	0.023	0.023	0.000	0.000	0.000	0.000	0.088
SUBTOTAL	0.000	0.061	0.527	0.384	0.086	0.009	0.000	0.000	0.000	1.067

TOTAL HOURS OF VALID OBSERVATIONS 2197.000
TOTAL HOURS OF GROUND LEVEL RELEASE 138.090
TOTAL HOURS OF STABILITY CLASS F 348.640
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 23.440

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/10/21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (ΔT > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.019	0.183	0.130	0.000	0.000	0.000	0.000	0.000	0.331
NNE	0.000	0.008	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.048
NE	0.000	0.002	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.029
ENE	0.000	0.006	0.024	0.013	0.000	0.000	0.000	0.000	0.000	0.043
E	0.000	0.009	0.022	0.016	0.000	0.000	0.000	0.000	0.000	0.047
ESE	0.000	0.002	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.008
SE	0.000	0.002	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.003
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007
NW	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.003
NNW	0.000	0.007	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.031
SUBTOTAL	0.000	0.061	0.310	0.179	0.000	0.000	0.000	0.000	0.000	0.550

TOTAL HOURS OF VALID OBSERVATIONS 2197.000
TOTAL HOURS OF GROUND LEVEL RELEASE 138.090
TOTAL HOURS OF STABILITY CLASS G 122.850
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 12.090

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/10/21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT

2010 METEOROLOGICAL DATA TABLE 8

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR SPLIT LEVEL RELEASES

(GROUND LEVEL PORTION)

FOURTH QUARTER

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A ($\Delta T \leq -1.9$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.005	0.081	0.013	0.000	0.000	0.100
NNE	0.000	0.000	0.000	0.000	0.005	0.056	0.000	0.000	0.000	0.061
NE	0.000	0.000	0.000	0.000	0.000	0.015	0.000	0.000	0.000	0.015
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.008
SE	0.000	0.000	0.008	0.019	0.000	0.000	0.000	0.000	0.000	0.026
SSE	0.000	0.000	0.020	0.008	0.000	0.000	0.000	0.000	0.000	0.029
S	0.000	0.000	0.010	0.065	0.000	0.000	0.000	0.000	0.000	0.075
SSW	0.000	0.000	0.005	0.021	0.000	0.000	0.000	0.000	0.000	0.026
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.049	0.019	0.000	0.000	0.068
SUBTOTAL	0.000	0.000	0.043	0.113	0.019	0.201	0.032	0.000	0.000	0.407

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF GROUND LEVEL RELEASE 282.780
TOTAL HOURS OF STABILITY CLASS A 13.210
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 8.960

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2011/02/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < ΔT ≤ -1.7 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.026	0.000	0.000	0.000	0.026
NNE	0.000	0.000	0.000	0.000	0.000	0.055	0.000	0.000	0.000	0.055
NE	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.008
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.009	0.016	0.000	0.000	0.000	0.000	0.025
SE	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.004
SSE	0.000	0.000	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.016
S	0.000	0.000	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.018
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.005	0.014	0.017	0.000	0.000	0.035
NW	0.000	0.000	0.000	0.000	0.000	0.027	0.068	0.000	0.000	0.095
NNW	0.000	0.000	0.000	0.000	0.000	0.055	0.018	0.000	0.000	0.073
SUBTOTAL	0.000	0.000	0.023	0.024	0.021	0.185	0.104	0.000	0.000	0.356

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF GROUND LEVEL RELEASE 282.780
TOTAL HOURS OF STABILITY CLASS B 23.270
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 7.830

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2011/02/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 < ΔT ≤ -1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.011	0.025	0.000	0.000	0.000	0.036
NNE	0.000	0.000	0.000	0.000	0.012	0.000	0.000	0.000	0.000	0.013
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001
SE	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.004
SSE	0.000	0.000	0.004	0.008	0.000	0.000	0.000	0.000	0.000	0.012
S	0.000	0.000	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.037
SSW	0.000	0.000	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.014
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.009
W	0.000	0.000	0.000	0.000	0.000	0.005	0.017	0.000	0.000	0.022
WNW	0.000	0.000	0.000	0.001	0.008	0.056	0.064	0.000	0.000	0.130
NW	0.000	0.000	0.000	0.000	0.004	0.069	0.049	0.000	0.000	0.122
NNW	0.000	0.000	0.000	0.000	0.014	0.074	0.019	0.000	0.000	0.106
SUBTOTAL	0.000	0.000	0.050	0.028	0.048	0.230	0.149	0.000	0.000	0.505

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF GROUND LEVEL RELEASE 282.780
TOTAL HOURS OF STABILITY CLASS C 52.960
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 11.120

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2011/02/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < ΔT ≤ -0.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.002	0.044	0.123	0.080	0.000	0.000	0.000	0.249
NNE	0.000	0.000	0.000	0.011	0.060	0.099	0.000	0.000	0.000	0.170
NE	0.000	0.000	0.000	0.008	0.015	0.021	0.000	0.000	0.000	0.044
ENE	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.009
E	0.000	0.000	0.001	0.037	0.005	0.000	0.000	0.000	0.000	0.044
ESE	0.000	0.000	0.030	0.055	0.097	0.144	0.000	0.000	0.000	0.326
SE	0.000	0.000	0.078	0.092	0.173	0.014	0.000	0.000	0.000	0.357
SSE	0.000	0.000	0.046	0.011	0.000	0.000	0.000	0.000	0.000	0.058
S	0.000	0.000	0.050	0.079	0.115	0.041	0.000	0.000	0.000	0.285
SSW	0.000	0.000	0.015	0.044	0.000	0.168	0.000	0.000	0.000	0.227
SW	0.000	0.000	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.013
WSW	0.000	0.000	0.000	0.020	0.008	0.050	0.000	0.000	0.000	0.077
W	0.000	0.000	0.001	0.017	0.061	0.089	0.042	0.000	0.000	0.210
WNW	0.000	0.000	0.000	0.000	0.045	0.160	0.392	0.137	0.000	0.734
NW	0.000	0.000	0.000	0.009	0.079	0.367	0.595	0.225	0.000	1.274
NNW	0.000	0.000	0.000	0.012	0.113	0.523	0.286	0.000	0.000	0.934
SUBTOTAL	0.000	0.000	0.224	0.460	0.894	1.756	1.315	0.362	0.000	5.010

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF GROUND LEVEL RELEASE 282.780
TOTAL HOURS OF STABILITY CLASS D 867.580
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 110.220

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2011/02/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 < ΔT ≤ 1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.024	0.034	0.045	0.107	0.017	0.000	0.000	0.227
NNE	0.000	0.000	0.021	0.056	0.007	0.000	0.000	0.000	0.000	0.084
NE	0.000	0.000	0.000	0.019	0.006	0.014	0.000	0.000	0.000	0.039
ENE	0.000	0.000	0.006	0.031	0.000	0.000	0.000	0.000	0.000	0.038
E	0.000	0.000	0.034	0.067	0.007	0.000	0.000	0.000	0.000	0.108
ESE	0.000	0.000	0.075	0.113	0.105	0.000	0.000	0.000	0.000	0.292
SE	0.000	0.010	0.162	0.304	0.224	0.000	0.000	0.000	0.000	0.700
SSE	0.000	0.000	0.130	0.207	0.000	0.000	0.000	0.000	0.000	0.337
S	0.000	0.014	0.162	0.294	0.229	0.246	0.000	0.000	0.000	0.945
SSW	0.000	0.000	0.042	0.238	0.129	0.223	0.000	0.000	0.000	0.632
SW	0.000	0.000	0.003	0.007	0.000	0.000	0.000	0.000	0.000	0.010
WSW	0.000	0.000	0.006	0.005	0.000	0.010	0.000	0.000	0.000	0.021
W	0.000	0.000	0.015	0.030	0.033	0.009	0.000	0.000	0.000	0.087
WNW	0.000	0.000	0.002	0.008	0.010	0.000	0.010	0.000	0.000	0.031
NW	0.000	0.000	0.000	0.024	0.042	0.087	0.000	0.000	0.000	0.153
NNW	0.000	0.000	0.015	0.105	0.127	0.117	0.000	0.000	0.000	0.365
SUBTOTAL	0.000	0.025	0.697	1.543	0.963	0.813	0.027	0.000	0.000	4.068

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF GROUND LEVEL RELEASE 282.780
TOTAL HOURS OF STABILITY CLASS E 676.960
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 89.500

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2011/02/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 < ΔT ≤ 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.090	0.095	0.040	0.000	0.000	0.000	0.000	0.225
NNE	0.000	0.007	0.048	0.025	0.000	0.000	0.000	0.000	0.000	0.080
NE	0.000	0.001	0.003	0.032	0.000	0.000	0.000	0.000	0.000	0.036
ENE	0.000	0.012	0.021	0.003	0.000	0.000	0.000	0.000	0.000	0.036
E	0.000	0.004	0.035	0.025	0.000	0.000	0.000	0.000	0.000	0.064
ESE	0.000	0.008	0.087	0.005	0.000	0.000	0.000	0.000	0.000	0.100
SE	0.000	0.022	0.068	0.115	0.061	0.000	0.000	0.000	0.000	0.267
SSE	0.000	0.031	0.096	0.000	0.000	0.000	0.000	0.000	0.000	0.128
S	0.000	0.050	0.110	0.097	0.000	0.000	0.000	0.000	0.000	0.256
SSW	0.000	0.007	0.035	0.008	0.000	0.000	0.000	0.000	0.000	0.049
SW	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
WSW	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.004
W	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.007
WNW	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.004
NW	0.000	0.000	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.006
NNW	0.000	0.003	0.020	0.099	0.023	0.000	0.000	0.000	0.000	0.145
SUBTOTAL	0.000	0.155	0.625	0.511	0.124	0.000	0.000	0.000	0.000	1.416

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF GROUND LEVEL RELEASE 282.780
TOTAL HOURS OF STABILITY CLASS F 282.450
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 31.150

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2011/02/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (ΔT > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.010	0.118	0.217	0.000	0.000	0.000	0.000	0.000	0.346
NNE	0.000	0.015	0.036	0.027	0.000	0.000	0.000	0.000	0.000	0.078
NE	0.000	0.014	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.035
ENE	0.000	0.020	0.021	0.015	0.000	0.000	0.000	0.000	0.000	0.056
E	0.000	0.008	0.016	0.007	0.000	0.000	0.000	0.000	0.000	0.031
ESE	0.000	0.009	0.026	0.000	0.000	0.000	0.000	0.000	0.000	0.035
SE	0.000	0.027	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.056
SSE	0.000	0.080	0.109	0.081	0.000	0.000	0.000	0.000	0.000	0.270
S	0.000	0.039	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.074
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.009	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.015
WNW	0.000	0.002	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.008
NW	0.000	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.011
NNW	0.000	0.013	0.023	0.032	0.000	0.000	0.000	0.000	0.000	0.068
SUBTOTAL	0.000	0.259	0.453	0.379	0.000	0.000	0.000	0.000	0.000	1.091

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF GROUND LEVEL RELEASE 282.780
TOTAL HOURS OF STABILITY CLASS G 283.570
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 24.000

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2011/02/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT

2010 METEOROLOGICAL DATA TABLE 9

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR SPLIT LEVEL RELEASES

(ELEVATED PORTION)

FIRST QUARTER

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A ($\Delta T \leq -1.9$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.074	0.027	0.009	0.110
SSE	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.045
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.045	0.000	0.074	0.027	0.009	0.154

TOTAL HOURS OF VALID OBSERVATIONS 2155.000
TOTAL HOURS OF ELEVATED RELEASES 1877.070
TOTAL HOURS OF STABILITY CLASS A 9.740
TOTAL HOURS OF ELEVATED STABILITY CLASS A 3.320

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/05/13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < ΔT ≤ -1.7 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.039	0.038	0.000	0.000	0.077
NNE	0.000	0.000	0.000	0.000	0.000	0.039	0.000	0.000	0.000	0.039
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
SSE	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.029	0.000	0.075
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
SW	0.000	0.000	0.000	0.139	0.000	0.000	0.000	0.000	0.000	0.139
WSW	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.000	0.040
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.232	0.046	0.118	0.038	0.029	0.000	0.463

TOTAL HOURS OF VALID OBSERVATIONS 2155.000
TOTAL HOURS OF ELEVATED RELEASES 1877.070
TOTAL HOURS OF STABILITY CLASS B 15.480
TOTAL HOURS OF ELEVATED STABILITY CLASS B 9.980

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/05/13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 < ΔT ≤ -1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.245	0.038	0.000	0.000	0.283
NNE	0.000	0.000	0.000	0.000	0.000	0.204	0.000	0.000	0.000	0.204
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.046	0.044	0.041	0.000	0.000	0.000	0.131
SE	0.000	0.000	0.000	0.046	0.044	0.041	0.000	0.000	0.000	0.132
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.000	0.018
S	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
SSW	0.000	0.000	0.000	0.046	0.000	0.043	0.000	0.000	0.000	0.089
SW	0.000	0.000	0.000	0.046	0.000	0.081	0.000	0.000	0.000	0.128
WSW	0.000	0.000	0.000	0.000	0.000	0.081	0.037	0.063	0.000	0.181
W	0.000	0.000	0.000	0.000	0.044	0.041	0.152	0.000	0.000	0.237
WNW	0.000	0.000	0.000	0.000	0.000	0.080	0.188	0.027	0.000	0.295
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.148	0.000	0.000	0.148
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.000	0.000	0.037
SUBTOTAL	0.000	0.000	0.000	0.186	0.178	0.857	0.601	0.108	0.000	1.929

TOTAL HOURS OF VALID OBSERVATIONS 2155.000
TOTAL HOURS OF ELEVATED RELEASES 1877.070
TOTAL HOURS OF STABILITY CLASS C 53.470
TOTAL HOURS OF ELEVATED STABILITY CLASS C 41.570

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/05/13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D ($-1.5 < \Delta T \leq -0.5$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.510	0.628	2.976	0.839	0.000	0.000	4.954
NNE	0.000	0.000	0.093	0.371	0.490	1.944	0.536	0.000	0.000	3.433
NE	0.000	0.000	0.046	0.139	0.354	0.732	0.230	0.000	0.000	1.502
ENE	0.000	0.000	0.186	0.278	0.132	0.447	0.039	0.000	0.000	1.081
E	0.000	0.000	0.000	0.278	0.226	0.484	0.229	0.000	0.000	1.217
ESE	0.000	0.000	0.186	0.325	0.266	0.401	0.305	0.037	0.000	1.520
SE	0.000	0.000	0.510	0.464	0.181	0.042	0.113	0.142	0.025	1.478
SSE	0.000	0.000	0.325	0.232	0.177	0.082	0.037	0.212	0.006	1.071
S	0.000	0.000	0.232	0.232	0.181	0.613	0.038	0.072	0.007	1.374
SSW	0.000	0.000	0.325	0.232	0.134	0.122	0.230	0.000	0.000	1.042
SW	0.000	0.046	0.093	0.139	0.089	0.411	0.039	0.000	0.000	0.816
WSW	0.000	0.000	0.093	0.232	0.358	0.772	0.378	0.000	0.000	1.833
W	0.000	0.093	0.046	0.510	0.667	3.316	1.322	0.077	0.000	6.032
WNW	0.000	0.046	0.093	0.278	0.490	2.697	1.660	0.351	0.019	5.635
NW	0.000	0.000	0.046	0.325	0.445	4.219	3.968	0.426	0.000	9.429
NNW	0.000	0.000	0.000	0.232	0.527	2.865	1.632	0.000	0.000	5.256
SUBTOTAL	0.000	0.186	2.274	4.780	5.344	22.122	11.595	1.317	0.057	47.674

TOTAL HOURS OF VALID OBSERVATIONS 2155.000
TOTAL HOURS OF ELEVATED RELEASES 1877.070
TOTAL HOURS OF STABILITY CLASS D 1174.750
TOTAL HOURS OF ELEVATED STABILITY CLASS D 1027.370

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/05/13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 < ΔT ≤ 1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.139	0.139	0.359	1.024	0.154	0.035	0.000	1.851
NNE	0.000	0.046	0.139	0.046	0.449	0.486	0.116	0.000	0.000	1.282
NE	0.000	0.046	0.000	0.418	0.225	0.244	0.039	0.000	0.000	0.971
ENE	0.000	0.000	0.139	0.278	0.401	0.904	0.000	0.000	0.000	1.723
E	0.000	0.046	0.000	0.093	0.315	0.413	0.000	0.000	0.000	0.867
ESE	0.000	0.000	0.093	0.371	0.182	0.616	0.381	0.000	0.000	1.643
SE	0.000	0.000	0.093	0.139	0.265	0.645	0.789	0.329	0.013	2.274
SSE	0.000	0.046	0.093	0.371	0.226	0.418	0.599	0.119	0.018	1.891
S	0.000	0.000	0.139	0.232	0.130	0.283	0.566	0.210	0.000	1.559
SSW	0.000	0.046	0.000	0.325	0.091	0.164	0.115	0.000	0.000	0.742
SW	0.000	0.046	0.046	0.464	0.000	0.287	0.000	0.028	0.000	0.871
WSW	0.000	0.000	0.046	0.093	0.090	0.291	0.000	0.000	0.000	0.521
W	0.000	0.000	0.139	0.186	0.220	0.412	0.039	0.000	0.000	0.995
WNW	0.000	0.000	0.046	0.278	0.309	0.859	0.116	0.025	0.000	1.634
NW	0.000	0.000	0.046	0.278	0.354	1.595	0.383	0.000	0.000	2.657
NNW	0.000	0.000	0.046	0.093	0.271	1.576	0.230	0.000	0.000	2.216
SUBTOTAL	0.000	0.278	1.206	3.805	3.888	10.217	3.524	0.747	0.031	23.697

TOTAL HOURS OF VALID OBSERVATIONS 2155.000
TOTAL HOURS OF ELEVATED RELEASES 1877.070
TOTAL HOURS OF STABILITY CLASS E 577.130
TOTAL HOURS OF ELEVATED STABILITY CLASS E 510.680

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/05/13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 < ΔT ≤ 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.046	0.046	0.090	0.417	0.000	0.000	0.000	0.600
NNE	0.000	0.000	0.000	0.093	0.132	0.323	0.000	0.000	0.000	0.548
NE	0.000	0.000	0.000	0.046	0.090	0.123	0.000	0.000	0.000	0.260
ENE	0.000	0.000	0.046	0.046	0.000	0.080	0.000	0.000	0.000	0.173
E	0.000	0.000	0.046	0.139	0.000	0.163	0.000	0.000	0.000	0.349
ESE	0.000	0.000	0.186	0.186	0.354	0.288	0.039	0.000	0.000	1.051
SE	0.000	0.000	0.046	0.139	0.132	0.209	0.000	0.053	0.000	0.579
SSE	0.000	0.000	0.000	0.093	0.269	0.370	0.150	0.083	0.006	0.972
S	0.000	0.000	0.046	0.278	0.446	0.684	0.115	0.000	0.000	1.569
SSW	0.000	0.046	0.046	0.093	0.000	0.129	0.039	0.000	0.000	0.353
SW	0.000	0.000	0.046	0.000	0.046	0.083	0.000	0.000	0.000	0.175
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.093
WNW	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.093
NW	0.000	0.000	0.046	0.278	0.223	0.083	0.000	0.000	0.000	0.631
NNW	0.000	0.000	0.046	0.139	0.179	0.492	0.000	0.000	0.000	0.857
SUBTOTAL	0.000	0.046	0.650	1.717	1.962	3.445	0.342	0.135	0.006	8.304

TOTAL HOURS OF VALID OBSERVATIONS 2155.000
TOTAL HOURS OF ELEVATED RELEASES 1877.070
TOTAL HOURS OF STABILITY CLASS F 206.590
TOTAL HOURS OF ELEVATED STABILITY CLASS F 178.950

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/05/13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (ΔT > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	CALM	WIND SPEED (MPH) 0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.080	0.000	0.000	0.000	0.080
NNE	0.000	0.000	0.046	0.046	0.000	0.080	0.038	0.000	0.000	0.211
NE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
ENE	0.000	0.000	0.046	0.139	0.092	0.000	0.000	0.000	0.000	0.278
E	0.000	0.000	0.093	0.139	0.046	0.083	0.039	0.000	0.000	0.400
ESE	0.000	0.000	0.186	0.139	0.402	0.333	0.000	0.000	0.000	1.060
SE	0.000	0.000	0.046	0.325	0.484	0.338	0.000	0.000	0.000	1.194
SSE	0.000	0.000	0.093	0.186	0.091	0.043	0.000	0.060	0.000	0.473
S	0.000	0.000	0.093	0.232	0.090	0.039	0.000	0.000	0.000	0.454
SSW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
SW	0.000	0.000	0.000	0.139	0.000	0.000	0.000	0.000	0.000	0.139
WSW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
W	0.000	0.000	0.046	0.000	0.044	0.000	0.000	0.000	0.000	0.090
WNW	0.000	0.000	0.000	0.139	0.045	0.000	0.000	0.000	0.000	0.184
NW	0.000	0.000	0.046	0.093	0.000	0.042	0.000	0.000	0.000	0.181
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.742	1.671	1.295	1.037	0.077	0.060	0.000	4.882

TOTAL HOURS OF VALID OBSERVATIONS 2155.000
TOTAL HOURS OF ELEVATED RELEASES 1877.070
TOTAL HOURS OF STABILITY CLASS G 117.840
TOTAL HOURS OF ELEVATED STABILITY CLASS G 105.200

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/05/13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT

2010 METEOROLOGICAL DATA TABLE 10

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR SPLIT LEVEL RELEASES

(ELEVATED PORTION)

SECOND QUARTER

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A ($\Delta T \leq -1.9$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.097	0.000	0.000	0.000	0.000	0.000	0.097
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.040
S	0.000	0.000	0.000	0.000	0.000	0.000	0.079	0.000	0.000	0.079
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.097	0.000	0.000	0.119	0.000	0.000	0.216

TOTAL HOURS OF VALID OBSERVATIONS 2064.000
TOTAL HOURS OF ELEVATED RELEASES 1872.500
TOTAL HOURS OF STABILITY CLASS A 12.580
TOTAL HOURS OF ELEVATED STABILITY CLASS A 4.450

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/08/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < ΔT ≤ -1.7 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.123	0.040	0.000	0.000	0.163
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.048	0.047	0.256	0.000	0.000	0.000	0.351
SSE	0.000	0.000	0.000	0.000	0.095	0.089	0.040	0.000	0.000	0.224
S	0.000	0.000	0.000	0.000	0.000	0.041	0.117	0.000	0.000	0.157
SSW	0.000	0.000	0.000	0.048	0.047	0.043	0.000	0.000	0.000	0.139
SW	0.000	0.000	0.000	0.048	0.045	0.044	0.000	0.000	0.000	0.138
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.039	0.000	0.000	0.039
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.145	0.234	0.595	0.235	0.000	0.000	1.210

TOTAL HOURS OF VALID OBSERVATIONS 2064.000
TOTAL HOURS OF ELEVATED RELEASES 1872.500
TOTAL HOURS OF STABILITY CLASS B 32.270
TOTAL HOURS OF ELEVATED STABILITY CLASS B 24.980

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/08/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 < ΔT ≤ -1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	CALM	WIND SPEED (MPH) 0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.041	0.000	0.000	0.000	0.041
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.040
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.040
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.041	0.040	0.000	0.000	0.081
SE	0.000	0.000	0.000	0.145	0.000	0.088	0.157	0.000	0.000	0.390
SSE	0.000	0.000	0.000	0.194	0.096	0.041	0.117	0.000	0.000	0.448
S	0.000	0.000	0.000	0.048	0.000	0.086	0.078	0.000	0.000	0.213
SSW	0.000	0.000	0.048	0.048	0.000	0.041	0.000	0.000	0.000	0.138
SW	0.000	0.000	0.000	0.194	0.000	0.000	0.000	0.000	0.000	0.194
WSW	0.000	0.000	0.000	0.000	0.236	0.000	0.000	0.000	0.000	0.236
W	0.000	0.000	0.000	0.097	0.047	0.127	0.039	0.000	0.000	0.310
WNW	0.000	0.000	0.000	0.000	0.000	0.042	0.118	0.031	0.000	0.190
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.197	0.000	0.000	0.197
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.040
SUBTOTAL	0.000	0.000	0.048	0.727	0.379	0.507	0.866	0.031	0.000	2.557

TOTAL HOURS OF VALID OBSERVATIONS 2064.000
TOTAL HOURS OF ELEVATED RELEASES 1872.500
TOTAL HOURS OF STABILITY CLASS C 64.440
TOTAL HOURS OF ELEVATED STABILITY CLASS C 52.780

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/08/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < ΔT ≤ -0.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.048	0.194	0.235	0.383	0.040	0.000	0.000	0.901
NNE	0.000	0.000	0.000	0.194	0.276	0.550	0.000	0.000	0.000	1.019
NE	0.000	0.000	0.000	0.242	0.231	0.172	0.000	0.000	0.000	0.645
ENE	0.000	0.000	0.000	0.097	0.140	0.042	0.040	0.000	0.000	0.319
E	0.000	0.000	0.145	0.194	0.093	0.000	0.039	0.000	0.000	0.471
ESE	0.000	0.000	0.145	0.291	0.234	0.212	0.119	0.000	0.000	1.001
SE	0.000	0.000	0.727	1.744	0.470	1.060	0.513	0.368	0.001	4.883
SSE	0.000	0.048	1.066	0.969	0.659	0.725	0.510	0.229	0.010	4.217
S	0.000	0.000	0.630	0.775	0.977	1.530	0.629	0.152	0.000	4.693
SSW	0.000	0.048	0.630	1.114	0.513	1.441	0.750	0.157	0.000	4.654
SW	0.000	0.048	0.678	0.824	0.707	0.257	0.000	0.000	0.000	2.514
WSW	0.000	0.000	0.436	1.453	0.519	0.600	0.352	0.000	0.000	3.360
W	0.000	0.000	0.194	0.824	0.516	1.281	0.277	0.000	0.000	3.091
WNW	0.000	0.000	0.194	0.388	0.510	1.447	0.633	0.265	0.000	3.436
NW	0.000	0.000	0.097	0.145	0.459	0.779	0.316	0.147	0.000	1.943
NNW	0.000	0.000	0.145	0.291	0.325	0.343	0.356	0.038	0.000	1.498
SUBTOTAL	0.000	0.145	5.136	9.738	6.864	10.821	4.573	1.357	0.011	38.644

TOTAL HOURS OF VALID OBSERVATIONS 2064.000
TOTAL HOURS OF ELEVATED RELEASES 1872.500
TOTAL HOURS OF STABILITY CLASS D 852.190
TOTAL HOURS OF ELEVATED STABILITY CLASS D 797.620

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/08/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 < ΔT ≤ 1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.048	0.291	0.515	0.556	0.040	0.000	0.000	1.449
NNE	0.000	0.000	0.145	0.194	0.279	0.848	0.200	0.000	0.000	1.666
NE	0.000	0.000	0.097	0.194	0.093	0.295	0.000	0.000	0.000	0.679
ENE	0.000	0.000	0.097	0.339	0.092	0.261	0.000	0.000	0.000	0.789
E	0.000	0.000	0.097	0.194	0.093	0.387	0.000	0.000	0.000	0.771
ESE	0.000	0.048	0.097	0.436	0.473	0.949	0.040	0.000	0.000	2.043
SE	0.000	0.000	0.145	0.775	0.518	0.942	0.158	0.034	0.000	2.574
SSE	0.000	0.000	0.484	1.114	0.786	0.859	0.818	0.358	0.000	4.420
S	0.000	0.000	0.630	1.211	1.083	1.401	1.100	0.741	0.089	6.256
SSW	0.000	0.048	0.484	0.436	0.510	0.598	0.394	0.093	0.000	2.564
SW	0.000	0.000	0.727	0.581	0.273	0.131	0.000	0.000	0.000	1.712
WSW	0.000	0.000	0.097	0.339	0.096	0.130	0.000	0.000	0.000	0.662
W	0.000	0.000	0.194	0.145	0.464	0.262	0.000	0.000	0.000	1.065
WNW	0.000	0.000	0.048	0.097	0.094	0.215	0.079	0.000	0.000	0.534
NW	0.000	0.000	0.097	0.097	0.140	0.344	0.120	0.000	0.000	0.798
NNW	0.000	0.000	0.048	0.145	0.188	0.460	0.160	0.000	0.000	1.002
SUBTOTAL	0.000	0.097	3.537	6.589	5.698	8.639	3.109	1.227	0.089	28.984

TOTAL HOURS OF VALID OBSERVATIONS 2064.000
TOTAL HOURS OF ELEVATED RELEASES 1872.500
TOTAL HOURS OF STABILITY CLASS E 669.990
TOTAL HOURS OF ELEVATED STABILITY CLASS E 598.240

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/08/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 < ΔT ≤ 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.097	0.145	0.092	0.391	0.120	0.000	0.000	0.844
NNE	0.000	0.000	0.048	0.000	0.046	0.857	0.079	0.000	0.000	1.031
NE	0.000	0.000	0.048	0.194	0.000	0.217	0.080	0.000	0.000	0.540
ENE	0.000	0.000	0.000	0.097	0.140	0.206	0.000	0.000	0.000	0.443
E	0.000	0.000	0.048	0.097	0.141	0.218	0.000	0.000	0.000	0.504
ESE	0.000	0.000	0.048	0.388	0.331	0.171	0.000	0.000	0.000	0.938
SE	0.000	0.000	0.145	0.388	0.369	0.437	0.039	0.000	0.000	1.377
SSE	0.000	0.000	0.242	0.145	0.140	0.421	0.157	0.000	0.000	1.105
S	0.000	0.000	0.242	0.097	0.184	1.025	0.392	0.062	0.000	2.003
SSW	0.000	0.000	0.194	0.000	0.328	0.247	0.040	0.000	0.000	0.809
SW	0.000	0.048	0.145	0.145	0.000	0.000	0.000	0.000	0.000	0.339
WSW	0.000	0.048	0.339	0.097	0.000	0.000	0.000	0.000	0.000	0.484
W	0.000	0.000	0.194	0.339	0.144	0.087	0.000	0.000	0.000	0.765
WNW	0.000	0.000	0.048	0.048	0.141	0.000	0.039	0.000	0.000	0.277
NW	0.000	0.000	0.097	0.145	0.047	0.212	0.000	0.000	0.000	0.501
NNW	0.000	0.000	0.145	0.000	0.048	0.170	0.040	0.000	0.000	0.404
SUBTOTAL	0.000	0.097	2.083	2.326	2.151	4.657	0.987	0.062	0.000	12.364

TOTAL HOURS OF VALID OBSERVATIONS 2064.000
TOTAL HOURS OF ELEVATED RELEASES 1872.500
TOTAL HOURS OF STABILITY CLASS F 279.760
TOTAL HOURS OF ELEVATED STABILITY CLASS F 255.190

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/08/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (ΔT > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.048	0.097	0.143	0.086	0.000	0.000	0.000	0.375
NNE	0.000	0.000	0.048	0.048	0.094	0.128	0.000	0.000	0.000	0.320
NE	0.000	0.048	0.048	0.145	0.090	0.172	0.000	0.000	0.000	0.504
ENE	0.000	0.000	0.048	0.097	0.188	0.000	0.000	0.000	0.000	0.333
E	0.000	0.000	0.145	0.194	0.000	0.044	0.000	0.000	0.000	0.383
ESE	0.000	0.000	0.194	0.194	0.423	0.043	0.000	0.000	0.000	0.854
SE	0.000	0.000	0.097	0.484	0.517	0.132	0.000	0.000	0.000	1.231
SSE	0.000	0.097	0.484	0.194	0.000	0.083	0.040	0.000	0.000	0.898
S	0.000	0.000	0.048	0.048	0.000	0.167	0.119	0.000	0.000	0.382
SSW	0.000	0.000	0.194	0.097	0.046	0.214	0.000	0.000	0.000	0.550
SW	0.000	0.048	0.194	0.048	0.000	0.000	0.000	0.000	0.000	0.291
WSW	0.000	0.000	0.097	0.048	0.000	0.000	0.000	0.000	0.000	0.145
W	0.000	0.000	0.194	0.000	0.047	0.000	0.000	0.000	0.000	0.241
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.048	0.048	0.097	0.046	0.000	0.000	0.000	0.000	0.239
SUBTOTAL	0.000	0.242	1.890	1.793	1.594	1.069	0.158	0.000	0.000	6.746

TOTAL HOURS OF VALID OBSERVATIONS 2064.000
TOTAL HOURS OF ELEVATED RELEASES 1872.500
TOTAL HOURS OF STABILITY CLASS G 152.770
TOTAL HOURS OF ELEVATED STABILITY CLASS G 139.240

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/08/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2010/03/24

BROWNS FERRY NUCLEAR PLANT

2010 METEOROLOGICAL DATA TABLE 11

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR SPLIT LEVEL RELEASES

(ELEVATED PORTION)

THIRD QUARTER

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A ($\Delta T \leq -1.9$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	CALM	WIND SPEED (MPH) 0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.129	0.081	0.037	0.026	0.000	0.274
SSE	0.000	0.000	0.000	0.000	0.176	0.165	0.000	0.000	0.000	0.341
S	0.000	0.000	0.000	0.046	0.133	0.080	0.074	0.000	0.000	0.333
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.042	0.042	0.000	0.000	0.000	0.084
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.042	0.000	0.000	0.000	0.042
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.046	0.481	0.410	0.112	0.026	0.000	1.074

TOTAL HOURS OF VALID OBSERVATIONS 2197.000
TOTAL HOURS OF ELEVATED RELEASES 2058.910
TOTAL HOURS OF STABILITY CLASS A 41.710
TOTAL HOURS OF ELEVATED STABILITY CLASS A 23.590

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/10/21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < ΔT ≤ -1.7 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	CALM	WIND SPEED (MPH) 0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.232	0.038	0.000	0.000	0.269
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.083	0.037	0.000	0.000	0.120
SE	0.000	0.000	0.000	0.046	0.131	0.201	0.148	0.000	0.000	0.525
SSE	0.000	0.000	0.000	0.091	0.222	0.000	0.000	0.000	0.000	0.313
S	0.000	0.000	0.000	0.091	0.178	0.121	0.074	0.000	0.000	0.463
SSW	0.000	0.000	0.000	0.228	0.091	0.041	0.000	0.000	0.000	0.359
SW	0.000	0.000	0.000	0.000	0.088	0.125	0.000	0.000	0.000	0.213
WSW	0.000	0.000	0.000	0.046	0.179	0.121	0.000	0.000	0.000	0.345
W	0.000	0.000	0.000	0.000	0.085	0.000	0.000	0.000	0.000	0.085
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.501	0.974	0.923	0.297	0.000	0.000	2.694

TOTAL HOURS OF VALID OBSERVATIONS 2197.000
TOTAL HOURS OF ELEVATED RELEASES 2058.910
TOTAL HOURS OF STABILITY CLASS B 68.560
TOTAL HOURS OF ELEVATED STABILITY CLASS B 59.180

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/10/21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 < ΔT ≤-1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.044	0.595	0.186	0.000	0.000	0.825
NNE	0.000	0.000	0.000	0.000	0.000	0.478	0.150	0.000	0.000	0.629
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.000	0.000	0.038
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.046	0.162	0.075	0.000	0.000	0.283
SE	0.000	0.000	0.000	0.182	0.391	0.320	0.000	0.000	0.000	0.893
SSE	0.000	0.000	0.000	0.455	0.265	0.000	0.036	0.000	0.000	0.756
S	0.000	0.000	0.000	0.182	0.046	0.121	0.000	0.000	0.000	0.348
SSW	0.000	0.000	0.000	0.410	0.088	0.000	0.000	0.000	0.000	0.497
SW	0.000	0.000	0.000	0.137	0.087	0.000	0.000	0.000	0.000	0.223
WSW	0.000	0.000	0.046	0.455	0.448	0.041	0.000	0.000	0.000	0.990
W	0.000	0.000	0.000	0.091	0.478	0.571	0.000	0.000	0.000	1.141
WNW	0.000	0.000	0.000	0.000	0.042	0.078	0.037	0.000	0.000	0.157
NW	0.000	0.000	0.000	0.000	0.000	0.116	0.000	0.000	0.000	0.116
NNW	0.000	0.000	0.000	0.000	0.045	0.120	0.111	0.000	0.000	0.276
SUBTOTAL	0.000	0.000	0.046	1.912	1.980	2.602	0.634	0.000	0.000	7.173

TOTAL HOURS OF VALID OBSERVATIONS 2197.000
TOTAL HOURS OF ELEVATED RELEASES 2058.910
TOTAL HOURS OF STABILITY CLASS C 165.770
TOTAL HOURS OF ELEVATED STABILITY CLASS C 157.590

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/10/21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < ΔT ≤ -0.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.137	0.228	0.526	0.877	0.150	0.000	0.000	1.917
NNE	0.000	0.000	0.228	0.637	0.392	0.688	0.076	0.000	0.000	2.020
NE	0.000	0.046	0.046	0.364	0.264	0.285	0.036	0.035	0.000	1.076
ENE	0.000	0.000	0.182	0.182	0.000	0.118	0.000	0.000	0.000	0.482
E	0.000	0.000	0.182	0.228	0.133	0.000	0.000	0.000	0.000	0.543
ESE	0.000	0.000	0.046	0.228	0.352	0.793	0.112	0.000	0.000	1.530
SE	0.000	0.000	0.182	0.956	0.750	0.720	0.779	0.000	0.000	3.386
SSE	0.000	0.046	0.546	1.047	0.699	0.802	0.408	0.000	0.000	3.548
S	0.000	0.000	0.364	1.092	1.139	1.040	0.112	0.000	0.000	3.747
SSW	0.000	0.000	0.592	0.956	0.614	0.772	0.224	0.000	0.000	3.157
SW	0.000	0.046	0.546	1.001	0.714	0.207	0.000	0.000	0.000	2.513
WSW	0.000	0.000	0.364	1.502	1.102	0.367	0.000	0.000	0.000	3.335
W	0.000	0.000	0.046	1.548	1.808	1.822	0.074	0.000	0.000	5.298
WNW	0.000	0.000	0.046	0.228	0.301	0.878	0.299	0.000	0.000	1.751
NW	0.000	0.000	0.182	0.228	0.345	0.396	0.188	0.000	0.000	1.339
NNW	0.000	0.046	0.091	0.319	0.309	0.441	0.074	0.036	0.000	1.315
SUBTOTAL	0.000	0.182	3.778	10.742	9.447	10.206	2.532	0.071	0.000	36.958

TOTAL HOURS OF VALID OBSERVATIONS 2197.000
TOTAL HOURS OF ELEVATED RELEASES 2058.910
TOTAL HOURS OF STABILITY CLASS D 844.060
TOTAL HOURS OF ELEVATED STABILITY CLASS D 811.960

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/10/21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 < ΔT ≤ 1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.046	0.137	0.455	0.218	0.876	0.038	0.000	0.000	1.769
NNE	0.000	0.000	0.182	0.364	0.396	0.953	0.301	0.000	0.000	2.196
NE	0.000	0.000	0.319	0.410	0.302	0.879	0.188	0.000	0.000	2.098
ENE	0.000	0.000	0.091	0.046	0.177	0.319	0.000	0.000	0.000	0.632
E	0.000	0.000	0.137	0.319	0.486	0.284	0.000	0.000	0.000	1.226
ESE	0.000	0.046	0.091	0.182	0.574	0.877	0.076	0.000	0.000	1.845
SE	0.000	0.000	0.228	0.364	0.614	0.846	0.148	0.000	0.000	2.200
SSE	0.000	0.091	0.228	0.319	0.654	0.836	0.188	0.000	0.000	2.315
S	0.000	0.046	0.228	0.592	0.569	0.526	0.150	0.000	0.000	2.109
SSW	0.000	0.000	0.546	0.819	0.529	0.160	0.075	0.000	0.000	2.129
SW	0.000	0.000	0.273	0.455	0.046	0.000	0.000	0.000	0.000	0.774
WSW	0.000	0.000	0.364	0.683	0.398	0.165	0.037	0.000	0.000	1.647
W	0.000	0.000	0.228	0.455	0.701	0.696	0.000	0.000	0.000	2.080
WNW	0.000	0.000	0.046	0.364	0.085	0.203	0.000	0.000	0.000	0.697
NW	0.000	0.000	0.091	0.182	0.176	0.357	0.188	0.000	0.000	0.995
NNW	0.000	0.000	0.137	0.364	0.175	0.476	0.111	0.000	0.000	1.262
SUBTOTAL	0.000	0.228	3.323	6.372	6.098	8.453	1.499	0.000	0.000	25.973

TOTAL HOURS OF VALID OBSERVATIONS 2197.000
TOTAL HOURS OF ELEVATED RELEASES 2058.910
TOTAL HOURS OF STABILITY CLASS E 605.410
TOTAL HOURS OF ELEVATED STABILITY CLASS E 570.630

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/10/21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 < ΔT ≤ 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	CALM	WIND SPEED (MPH) 0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.091	0.091	0.218	1.206	0.376	0.000	0.000	1.981
NNE	0.000	0.000	0.137	0.182	0.345	1.157	0.375	0.000	0.000	2.196
NE	0.000	0.000	0.000	0.410	0.351	0.278	0.037	0.000	0.000	1.076
ENE	0.000	0.000	0.182	0.182	0.261	0.440	0.037	0.000	0.000	1.103
E	0.000	0.046	0.091	0.137	0.264	0.575	0.000	0.000	0.000	1.112
ESE	0.000	0.000	0.273	0.228	0.608	0.368	0.000	0.000	0.000	1.477
SE	0.000	0.046	0.137	0.319	0.306	0.490	0.000	0.000	0.000	1.297
SSE	0.000	0.046	0.137	0.137	0.133	0.121	0.000	0.000	0.000	0.572
S	0.000	0.046	0.000	0.137	0.132	0.195	0.000	0.000	0.000	0.509
SSW	0.000	0.000	0.182	0.228	0.222	0.082	0.000	0.000	0.000	0.714
SW	0.000	0.000	0.455	0.273	0.000	0.000	0.000	0.000	0.000	0.728
WSW	0.000	0.046	0.228	0.137	0.000	0.000	0.000	0.000	0.000	0.410
W	0.000	0.000	0.182	0.091	0.000	0.000	0.000	0.000	0.000	0.273
WNW	0.000	0.046	0.000	0.046	0.132	0.000	0.000	0.000	0.000	0.223
NW	0.000	0.000	0.091	0.091	0.044	0.039	0.000	0.000	0.000	0.265
NNW	0.000	0.000	0.091	0.091	0.088	0.522	0.075	0.000	0.000	0.867
SUBTOTAL	0.000	0.273	2.276	2.777	3.103	5.473	0.900	0.000	0.000	14.802

TOTAL HOURS OF VALID OBSERVATIONS 2197.000
TOTAL HOURS OF ELEVATED RELEASES 2058.910
TOTAL HOURS OF STABILITY CLASS F 348.640
TOTAL HOURS OF ELEVATED STABILITY CLASS F 325.200

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/10/21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (ΔT > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.091	0.042	0.434	0.038	0.000	0.000	0.605
NNE	0.000	0.000	0.046	0.046	0.133	0.508	0.151	0.000	0.000	0.883
NE	0.000	0.000	0.046	0.137	0.218	0.445	0.000	0.000	0.000	0.845
ENE	0.000	0.000	0.000	0.273	0.175	0.122	0.000	0.000	0.000	0.570
E	0.000	0.000	0.046	0.091	0.175	0.081	0.000	0.000	0.000	0.393
ESE	0.000	0.000	0.046	0.228	0.171	0.125	0.000	0.000	0.000	0.569
SE	0.000	0.000	0.000	0.091	0.219	0.122	0.000	0.000	0.000	0.432
SSE	0.000	0.000	0.000	0.000	0.044	0.000	0.000	0.000	0.000	0.044
S	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.091
SSW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
W	0.000	0.000	0.091	0.046	0.000	0.000	0.000	0.000	0.000	0.137
WNW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
NW	0.000	0.000	0.046	0.000	0.000	0.083	0.000	0.000	0.000	0.129
NNW	0.000	0.000	0.000	0.000	0.089	0.120	0.000	0.000	0.000	0.209
SUBTOTAL	0.000	0.000	0.364	1.138	1.311	2.040	0.188	0.000	0.000	5.041

TOTAL HOURS OF VALID OBSERVATIONS 2197.000
TOTAL HOURS OF ELEVATED RELEASES 2058.910
TOTAL HOURS OF STABILITY CLASS G 122.850
TOTAL HOURS OF ELEVATED STABILITY CLASS G 110.760

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2010/10/21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT

2010 METEOROLOGICAL DATA TABLE 12

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR SPLIT LEVEL RELEASES

(ELEVATED PORTION)

FOURTH QUARTER

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A ($\Delta T \leq -1.9$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.112	0.000	0.000	0.112
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.000	0.000	0.081	0.000	0.000	0.000	0.081
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.000	0.081	0.112	0.000	0.000	0.193

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF ELEVATED RELEASES 1917.220
TOTAL HOURS OF STABILITY CLASS A 13.210
TOTAL HOURS OF ELEVATED STABILITY CLASS A 4.250

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2011/02/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < ΔT ≤ -1.7 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.040	0.184	0.036	0.000	0.260
NNE	0.000	0.000	0.000	0.000	0.000	0.039	0.111	0.000	0.000	0.150
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.044	0.040	0.000	0.000	0.000	0.084
SSE	0.000	0.000	0.000	0.000	0.044	0.042	0.000	0.000	0.000	0.086
S	0.000	0.000	0.000	0.000	0.044	0.000	0.000	0.000	0.000	0.044
SSW	0.000	0.000	0.000	0.000	0.000	0.041	0.000	0.000	0.000	0.041
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.000	0.000	0.037
SUBTOTAL	0.000	0.000	0.000	0.000	0.132	0.202	0.332	0.036	0.000	0.702

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF ELEVATED RELEASES 1917.220
TOTAL HOURS OF STABILITY CLASS B 23.270
TOTAL HOURS OF ELEVATED STABILITY CLASS B 15.440

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2011/02/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C ($-1.7 < \Delta T \leq -1.5$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.079	0.187	0.032	0.000	0.298
NNE	0.000	0.000	0.000	0.000	0.000	0.160	0.224	0.000	0.000	0.384
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.043	0.000	0.112	0.000	0.000	0.155
SE	0.000	0.000	0.000	0.045	0.088	0.000	0.000	0.000	0.000	0.134
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.045	0.044	0.077	0.038	0.000	0.000	0.204
SSW	0.000	0.000	0.000	0.091	0.000	0.081	0.000	0.000	0.000	0.172
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.045	0.000	0.000	0.036	0.028	0.000	0.110
NW	0.000	0.000	0.000	0.000	0.000	0.038	0.036	0.034	0.000	0.108
NNW	0.000	0.000	0.000	0.000	0.000	0.078	0.260	0.000	0.000	0.338
SUBTOTAL	0.000	0.000	0.000	0.227	0.175	0.513	0.893	0.094	0.000	1.902

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF ELEVATED RELEASES 1917.220
TOTAL HOURS OF STABILITY CLASS C 52.960
TOTAL HOURS OF ELEVATED STABILITY CLASS C 41.840

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2011/02/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < ΔT ≤ -0.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.045	0.318	0.308	1.352	0.702	0.050	0.000	2.775
NNE	0.000	0.000	0.136	0.136	0.572	0.675	0.331	0.000	0.000	1.851
NE	0.000	0.000	0.045	0.227	0.220	0.196	0.000	0.000	0.000	0.689
ENE	0.000	0.000	0.045	0.136	0.175	0.041	0.000	0.000	0.000	0.398
E	0.000	0.045	0.000	0.455	0.264	0.000	0.000	0.000	0.000	0.764
ESE	0.000	0.000	0.136	0.273	0.618	0.593	0.223	0.117	0.000	1.960
SE	0.000	0.045	0.364	0.409	0.178	0.483	0.367	0.257	0.024	2.127
SSE	0.000	0.045	0.591	0.591	0.129	0.556	0.369	0.099	0.000	2.380
S	0.000	0.000	0.273	0.364	0.174	0.359	0.484	0.192	0.018	1.863
SSW	0.000	0.000	0.364	0.364	0.085	0.121	0.185	0.000	0.030	1.147
SW	0.000	0.000	0.409	0.455	0.000	0.117	0.072	0.000	0.000	1.053
WSW	0.000	0.000	0.136	0.455	0.045	0.245	0.111	0.059	0.000	1.050
W	0.000	0.000	0.182	0.409	0.131	0.869	0.333	0.193	0.000	2.117
WNW	0.000	0.000	0.136	0.364	0.482	1.425	0.734	0.442	0.015	3.598
NW	0.000	0.000	0.045	0.364	0.477	1.909	2.507	0.414	0.031	5.747
NNW	0.000	0.000	0.136	0.045	0.482	1.541	2.285	0.415	0.000	4.906
SUBTOTAL	0.000	0.136	3.045	5.364	4.339	10.484	8.703	2.238	0.117	34.425

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF ELEVATED RELEASES 1917.220
TOTAL HOURS OF STABILITY CLASS D 867.580
TOTAL HOURS OF ELEVATED STABILITY CLASS D 757.360

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2011/02/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 < ΔT ≤ 1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.045	0.136	0.306	1.360	0.296	0.060	0.000	2.205
NNE	0.000	0.000	0.045	0.091	0.348	0.844	0.000	0.000	0.000	1.328
NE	0.000	0.000	0.045	0.227	0.134	0.286	0.000	0.000	0.000	0.693
ENE	0.000	0.000	0.182	0.227	0.087	0.162	0.000	0.000	0.000	0.658
E	0.000	0.045	0.136	0.318	0.259	0.366	0.000	0.000	0.000	1.125
ESE	0.000	0.000	0.227	0.182	0.484	0.600	0.257	0.000	0.000	1.750
SE	0.000	0.000	0.409	0.636	0.216	1.256	1.033	0.471	0.000	4.022
SSE	0.000	0.000	0.273	0.545	0.524	0.868	0.811	0.198	0.016	3.236
S	0.000	0.000	0.091	0.545	0.573	1.081	0.845	0.499	0.032	3.665
SSW	0.000	0.000	0.227	0.182	0.217	0.160	0.258	0.160	0.006	1.210
SW	0.000	0.045	0.182	0.182	0.045	0.042	0.148	0.000	0.000	0.644
WSW	0.000	0.000	0.136	0.227	0.262	0.000	0.000	0.000	0.000	0.626
W	0.000	0.000	0.045	0.273	0.219	0.531	0.038	0.000	0.000	1.106
WNW	0.000	0.000	0.045	0.136	0.130	0.202	0.000	0.035	0.000	0.549
NW	0.000	0.000	0.136	0.182	0.217	0.820	0.484	0.000	0.000	1.839
NNW	0.000	0.000	0.091	0.045	0.306	1.308	0.297	0.000	0.000	2.047
SUBTOTAL	0.000	0.091	2.318	4.136	4.327	9.885	4.467	1.424	0.055	26.703

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF ELEVATED RELEASES 1917.220
TOTAL HOURS OF STABILITY CLASS E 676.960
TOTAL HOURS OF ELEVATED STABILITY CLASS E 587.460

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2011/02/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 < ΔT ≤ 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.045	0.091	0.042	0.915	0.260	0.000	0.000	1.353
NNE	0.000	0.000	0.136	0.136	0.175	0.445	0.000	0.000	0.000	0.893
NE	0.000	0.000	0.045	0.227	0.225	0.281	0.000	0.000	0.000	0.780
ENE	0.000	0.000	0.091	0.136	0.088	0.159	0.038	0.000	0.000	0.511
E	0.000	0.000	0.091	0.182	0.131	0.123	0.000	0.000	0.000	0.527
ESE	0.000	0.045	0.182	0.091	0.218	0.123	0.000	0.000	0.000	0.659
SE	0.000	0.045	0.227	0.409	0.484	0.323	0.300	0.204	0.000	1.993
SSE	0.000	0.000	0.091	0.091	0.133	0.468	0.409	0.068	0.010	1.270
S	0.000	0.045	0.000	0.227	0.306	0.240	0.338	0.000	0.000	1.156
SSW	0.000	0.000	0.045	0.091	0.175	0.081	0.000	0.000	0.000	0.392
SW	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.091
WSW	0.000	0.000	0.091	0.045	0.000	0.042	0.000	0.000	0.000	0.179
W	0.000	0.000	0.045	0.136	0.176	0.126	0.000	0.000	0.000	0.484
WNW	0.000	0.000	0.000	0.091	0.172	0.084	0.000	0.000	0.000	0.346
NW	0.000	0.000	0.091	0.000	0.127	0.159	0.000	0.000	0.000	0.376
NNW	0.000	0.000	0.136	0.000	0.000	0.238	0.038	0.000	0.000	0.412
SUBTOTAL	0.000	0.136	1.318	2.045	2.452	3.807	1.382	0.272	0.010	11.423

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF ELEVATED RELEASES 1917.220
TOTAL HOURS OF STABILITY CLASS F 282.450
TOTAL HOURS OF ELEVATED STABILITY CLASS F 251.300

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2011/02/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (ΔT > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.001	0.000	0.091	0.091	0.043	0.734	0.226	0.000	0.000	1.186
NNE	0.001	0.000	0.136	0.045	0.000	0.316	0.113	0.000	0.000	0.612
NE	0.001	0.000	0.136	0.182	0.089	0.159	0.000	0.000	0.000	0.568
ENE	0.001	0.045	0.045	0.091	0.263	0.160	0.000	0.000	0.000	0.606
E	0.003	0.045	0.227	0.136	0.088	0.082	0.000	0.000	0.000	0.582
ESE	0.005	0.091	0.409	0.545	0.305	0.125	0.000	0.000	0.000	1.481
SE	0.006	0.000	0.545	0.682	0.133	0.158	0.000	0.000	0.000	1.524
SSE	0.006	0.136	0.455	0.455	0.090	0.162	0.074	0.114	0.000	1.492
S	0.005	0.045	0.409	0.136	0.045	0.000	0.000	0.000	0.000	0.640
SSW	0.003	0.000	0.273	0.136	0.045	0.000	0.000	0.000	0.000	0.457
SW	0.004	0.045	0.318	0.182	0.000	0.000	0.000	0.000	0.000	0.549
WSW	0.001	0.000	0.136	0.045	0.000	0.000	0.000	0.000	0.000	0.183
W	0.003	0.045	0.273	0.182	0.044	0.000	0.000	0.000	0.000	0.547
WNW	0.001	0.045	0.045	0.136	0.088	0.041	0.000	0.000	0.000	0.357
NW	0.003	0.000	0.273	0.136	0.221	0.205	0.000	0.000	0.000	0.838
NNW	0.000	0.000	0.045	0.091	0.000	0.038	0.000	0.000	0.000	0.175
SUBTOTAL	0.045	0.500	3.818	3.273	1.454	2.182	0.412	0.114	0.000	11.799

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF ELEVATED RELEASES 1917.220
TOTAL HOURS OF STABILITY CLASS G 283.570
TOTAL HOURS OF ELEVATED STABILITY CLASS G 259.570

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2011/02/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2010/03/24

BROWNS FERRY NUCLEAR PLANT

2010 METEOROLOGICAL DATA TABLE 13

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR ELEVATED RELEASES

FIRST QUARTER

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A ($\Delta T \leq -1.9$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.140	0.047	0.186
SSE	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.047
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.140	0.047	0.233

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS A	5
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	5
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2150
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/05/13

MEAN WIND SPEED = 18.88

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < ΔT ≤ -1.7 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.093	0.000	0.000	0.093
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
SSE	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.000	0.093
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
SW	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.047
WSW	0.000	0.000	0.000	0.093	0.000	0.000	0.047	0.000	0.000	0.140
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.186	0.093	0.000	0.186	0.047	0.000	0.512

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS B	11
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	11
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2150
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/05/13

MEAN WIND SPEED = 9.94

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 < ΔT ≤ -1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.326	0.047	0.000	0.000	0.372
NNE	0.000	0.000	0.000	0.000	0.000	0.186	0.000	0.000	0.000	0.186
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.047	0.000	0.140	0.000	0.000	0.000	0.186
SE	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
SSE	0.000	0.000	0.000	0.047	0.000	0.047	0.000	0.047	0.000	0.140
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.047
SW	0.000	0.000	0.000	0.093	0.000	0.047	0.047	0.000	0.000	0.186
WSW	0.000	0.000	0.000	0.000	0.000	0.093	0.000	0.047	0.093	0.233
W	0.000	0.000	0.000	0.000	0.000	0.140	0.140	0.093	0.000	0.372
WNW	0.000	0.000	0.000	0.000	0.000	0.047	0.140	0.093	0.000	0.279
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.140	0.047	0.000	0.186
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.047
SUBTOTAL	0.000	0.000	0.000	0.233	0.000	1.070	0.512	0.372	0.093	2.279

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS C	49
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	49
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2150
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/05/13

MEAN WIND SPEED = 13.54

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < ΔT ≤ -0.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.372	0.651	2.233	1.907	0.093	0.000	5.256
NNE	0.000	0.047	0.047	0.000	0.419	1.767	1.395	0.000	0.000	3.674
NE	0.000	0.000	0.047	0.233	0.093	0.744	0.605	0.047	0.000	1.767
ENE	0.000	0.000	0.000	0.186	0.186	0.186	0.372	0.047	0.000	0.977
E	0.000	0.000	0.233	0.140	0.093	0.279	0.605	0.279	0.000	1.628
ESE	0.000	0.000	0.186	0.326	0.093	0.419	0.372	0.326	0.047	1.767
SE	0.000	0.047	0.233	0.279	0.186	0.047	0.093	0.186	0.512	1.581
SSE	0.000	0.047	0.233	0.326	0.093	0.233	0.047	0.326	0.279	1.581
S	0.000	0.000	0.140	0.093	0.233	0.651	0.047	0.093	0.093	1.349
SSW	0.000	0.000	0.140	0.047	0.233	0.233	0.326	0.000	0.000	0.977
SW	0.000	0.000	0.326	0.000	0.047	0.279	0.233	0.000	0.000	0.884
WSW	0.000	0.047	0.186	0.140	0.093	0.791	0.837	0.279	0.000	2.372
W	0.000	0.047	0.000	0.372	0.465	1.953	3.163	1.163	0.140	7.302
WNW	0.000	0.047	0.047	0.326	0.326	2.233	2.884	0.977	0.651	7.488
NW	0.000	0.000	0.093	0.140	0.279	2.651	4.930	2.093	0.093	10.279
NNW	0.000	0.000	0.000	0.186	0.279	3.302	2.744	0.233	0.000	6.744
SUBTOTAL	0.000	0.279	1.907	3.163	3.767	18.000	20.558	6.140	1.814	55.628

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS D	1200
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	1196
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2150
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/05/13

MEAN WIND SPEED = 12.77

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 < ΔT ≤ 1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.140	0.093	1.209	0.558	0.047	0.000	2.047
NNE	0.000	0.047	0.047	0.000	0.047	0.512	0.651	0.000	0.000	1.302
NE	0.000	0.000	0.000	0.047	0.047	0.419	0.186	0.000	0.000	0.698
ENE	0.000	0.000	0.093	0.000	0.419	0.744	0.512	0.000	0.000	1.767
E	0.000	0.000	0.047	0.233	0.140	0.558	0.372	0.047	0.000	1.395
ESE	0.000	0.000	0.140	0.047	0.093	0.465	0.372	0.140	0.000	1.256
SE	0.000	0.000	0.140	0.279	0.000	0.372	0.884	0.791	0.558	3.023
SSE	0.000	0.000	0.047	0.093	0.186	0.512	0.558	0.698	0.233	2.326
S	0.000	0.000	0.000	0.093	0.186	0.698	0.744	0.465	0.000	2.186
SSW	0.000	0.000	0.093	0.093	0.093	0.651	0.233	0.000	0.000	1.163
SW	0.000	0.000	0.093	0.000	0.233	0.419	0.140	0.047	0.000	0.930
WSW	0.000	0.000	0.000	0.000	0.047	0.465	0.140	0.047	0.000	0.698
W	0.000	0.047	0.000	0.047	0.047	0.326	0.326	0.000	0.000	0.791
WNW	0.000	0.000	0.047	0.279	0.186	0.930	0.558	0.000	0.047	2.047
NW	0.000	0.000	0.093	0.140	0.372	0.605	1.581	0.093	0.000	2.884
NNW	0.000	0.000	0.047	0.047	0.000	0.605	1.814	0.093	0.000	2.605
SUBTOTAL	0.000	0.093	0.884	1.535	2.186	9.488	9.628	2.465	0.837	27.116

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS E	584
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	583
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2150
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/05/13

MEAN WIND SPEED = 12.63

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 < ΔT ≤ 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.093	0.326	0.372	0.000	0.000	0.791
NNE	0.000	0.000	0.140	0.047	0.093	0.326	0.093	0.000	0.000	0.698
NE	0.000	0.000	0.047	0.000	0.000	0.233	0.279	0.000	0.000	0.558
ENE	0.000	0.000	0.047	0.000	0.000	0.093	0.093	0.000	0.000	0.233
E	0.000	0.000	0.047	0.047	0.093	0.047	0.047	0.047	0.000	0.326
ESE	0.000	0.000	0.000	0.093	0.000	0.326	0.140	0.000	0.000	0.558
SE	0.000	0.000	0.047	0.093	0.093	0.326	0.093	0.140	0.000	0.791
SSE	0.000	0.000	0.000	0.047	0.186	0.186	0.186	0.140	0.140	0.884
S	0.000	0.000	0.000	0.047	0.047	0.698	0.884	0.047	0.000	1.721
SSW	0.000	0.000	0.000	0.000	0.233	0.372	0.372	0.000	0.000	0.977
SW	0.000	0.000	0.000	0.047	0.140	0.047	0.047	0.000	0.000	0.279
WSW	0.000	0.000	0.000	0.000	0.047	0.047	0.000	0.000	0.000	0.093
W	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.047
WNW	0.000	0.000	0.047	0.000	0.047	0.000	0.000	0.000	0.000	0.093
NW	0.000	0.000	0.047	0.000	0.047	0.047	0.047	0.000	0.000	0.186
NNW	0.000	0.000	0.047	0.093	0.047	0.279	0.419	0.000	0.000	0.884
SUBTOTAL	0.000	0.000	0.465	0.512	1.209	3.349	3.070	0.372	0.140	9.116

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS F	196
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	196
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2150
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/05/13

MEAN WIND SPEED = 11.27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (ΔT > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JANUARY 1, 2010 - MARCH 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.047	0.047	0.000	0.000	0.093	0.093	0.000	0.000	0.279
NE	0.000	0.000	0.000	0.047	0.047	0.140	0.047	0.000	0.000	0.279
ENE	0.000	0.000	0.093	0.047	0.000	0.047	0.000	0.000	0.000	0.186
E	0.000	0.000	0.000	0.093	0.140	0.186	0.047	0.000	0.000	0.465
ESE	0.000	0.000	0.000	0.093	0.186	0.186	0.093	0.000	0.000	0.558
SE	0.000	0.000	0.000	0.047	0.093	0.093	0.093	0.000	0.000	0.326
SSE	0.000	0.000	0.000	0.093	0.140	0.326	0.047	0.093	0.000	0.698
S	0.000	0.000	0.000	0.186	0.186	0.884	0.047	0.000	0.000	1.302
SSW	0.000	0.000	0.047	0.047	0.047	0.140	0.000	0.000	0.000	0.279
SW	0.000	0.000	0.047	0.093	0.000	0.093	0.000	0.000	0.000	0.233
WSW	0.000	0.000	0.047	0.000	0.093	0.047	0.047	0.000	0.000	0.233
W	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.047
WNW	0.000	0.000	0.000	0.000	0.000	0.047	0.047	0.000	0.000	0.093
NW	0.000	0.000	0.047	0.000	0.047	0.000	0.000	0.000	0.000	0.093
NNW	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.047
SUBTOTAL	0.000	0.047	0.326	0.744	0.977	2.372	0.558	0.093	0.000	5.116

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS G	110
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	110
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2150
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/05/13

MEAN WIND SPEED = 8.54

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT

2010 METEOROLOGICAL DATA TABLE 14

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR ELEVATED RELEASES

SECOND QUARTER

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A ($\Delta T \leq -1.9$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.095	0.000	0.000	0.000	0.000	0.000	0.095
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.048
S	0.000	0.000	0.000	0.000	0.000	0.000	0.095	0.000	0.000	0.095
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.095	0.000	0.000	0.143	0.000	0.000	0.238

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2102
TOTAL HOURS OF STABILITY CLASS A	5
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	5
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2102
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/08/19

MEAN WIND SPEED = 11.66

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < ΔT ≤ -1.7 C/100 M)

BROWNS FERRY NUCLEAR PLANT

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.048
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.143	0.000	0.000	0.143
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.048
SE	0.000	0.000	0.000	0.048	0.095	0.238	0.048	0.000	0.000	0.428
SSE	0.000	0.000	0.000	0.000	0.048	0.095	0.000	0.000	0.000	0.143
S	0.000	0.000	0.000	0.000	0.000	0.000	0.095	0.095	0.000	0.190
SSW	0.000	0.000	0.000	0.000	0.048	0.048	0.095	0.000	0.000	0.190
SW	0.000	0.000	0.000	0.095	0.000	0.048	0.048	0.000	0.000	0.190
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.048
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.143	0.190	0.428	0.523	0.143	0.000	1.427

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2102
TOTAL HOURS OF STABILITY CLASS B	30
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	30
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2102
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/08/19

MEAN WIND SPEED = 11.43

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 < ΔT ≤ -1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.048
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.048
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.048
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.095	0.000	0.000	0.095
SE	0.000	0.000	0.000	0.143	0.048	0.048	0.095	0.095	0.000	0.428
SSE	0.000	0.000	0.048	0.095	0.143	0.000	0.095	0.095	0.000	0.476
S	0.000	0.000	0.000	0.048	0.000	0.143	0.095	0.048	0.000	0.333
SSW	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.048
SW	0.000	0.000	0.000	0.190	0.048	0.000	0.000	0.000	0.000	0.238
WSW	0.000	0.000	0.000	0.048	0.143	0.238	0.048	0.000	0.000	0.476
W	0.000	0.000	0.000	0.000	0.048	0.000	0.048	0.048	0.000	0.143
WNW	0.000	0.000	0.000	0.000	0.000	0.048	0.095	0.095	0.000	0.238
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.238	0.000	0.000	0.238
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.048
SUBTOTAL	0.000	0.000	0.048	0.523	0.428	0.523	0.999	0.381	0.000	2.902

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2102
TOTAL HOURS OF STABILITY CLASS C	61
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	61
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2102
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/08/19

MEAN WIND SPEED = 11.61

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < ΔT ≤ -0.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.095	0.143	0.285	0.666	0.143	0.000	0.000	1.332
NNE	0.000	0.000	0.095	0.095	0.095	0.523	0.048	0.000	0.000	0.856
NE	0.000	0.000	0.048	0.285	0.048	0.476	0.000	0.000	0.000	0.856
ENE	0.000	0.000	0.048	0.095	0.190	0.048	0.048	0.000	0.000	0.428
E	0.000	0.000	0.095	0.048	0.048	0.143	0.000	0.048	0.000	0.381
ESE	0.000	0.000	0.048	0.333	0.285	0.571	0.285	0.190	0.048	1.760
SE	0.000	0.000	0.285	1.142	0.476	0.761	0.666	0.571	0.428	4.329
SSE	0.000	0.000	0.714	0.904	0.809	0.714	0.666	0.476	0.381	4.662
S	0.000	0.000	0.476	0.666	0.523	1.808	1.094	0.476	0.048	5.090
SSW	0.000	0.000	0.856	0.476	0.285	1.380	1.570	0.618	0.000	5.186
SW	0.000	0.000	0.476	0.571	0.476	1.142	0.143	0.000	0.000	2.807
WSW	0.000	0.048	0.285	0.999	0.666	0.856	0.333	0.381	0.000	3.568
W	0.000	0.000	0.238	0.856	0.571	0.951	1.094	0.238	0.000	3.949
WNW	0.000	0.000	0.143	0.238	0.476	1.713	0.571	0.476	0.048	3.663
NW	0.000	0.000	0.190	0.095	0.523	0.714	0.523	0.190	0.190	2.426
NNW	0.000	0.000	0.143	0.143	0.143	0.618	0.381	0.143	0.000	1.570
SUBTOTAL	0.000	0.048	4.234	7.088	5.899	13.083	7.564	3.806	1.142	42.864

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2102
TOTAL HOURS OF STABILITY CLASS D	901
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	901
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2102
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/08/19

MEAN WIND SPEED = 10.11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 < ΔT ≤ 1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.048	0.000	0.095	0.095	0.666	0.428	0.000	0.000	1.332
NNE	0.000	0.000	0.048	0.095	0.190	0.618	0.761	0.143	0.000	1.855
NE	0.000	0.000	0.000	0.190	0.095	0.285	0.333	0.000	0.000	0.904
ENE	0.000	0.000	0.048	0.048	0.190	0.095	0.238	0.000	0.000	0.618
E	0.000	0.000	0.143	0.143	0.048	0.476	0.143	0.000	0.000	0.951
ESE	0.000	0.000	0.000	0.190	0.285	0.714	0.523	0.000	0.000	1.713
SE	0.000	0.000	0.048	0.285	0.428	1.094	0.428	0.095	0.048	2.426
SSE	0.000	0.048	0.095	0.476	0.951	1.380	0.618	1.237	0.381	5.186
S	0.000	0.000	0.048	0.666	0.761	1.713	1.475	1.570	0.951	7.184
SSW	0.000	0.000	0.238	0.428	0.714	1.284	0.809	0.285	0.048	3.806
SW	0.000	0.000	0.190	0.428	0.190	0.571	0.190	0.000	0.000	1.570
WSW	0.000	0.000	0.048	0.285	0.143	0.428	0.095	0.000	0.000	0.999
W	0.000	0.000	0.143	0.143	0.238	0.476	0.095	0.000	0.000	1.094
WNW	0.000	0.000	0.048	0.095	0.190	0.476	0.048	0.048	0.000	0.904
NW	0.000	0.000	0.048	0.000	0.285	0.428	0.285	0.048	0.000	1.094
NNW	0.000	0.048	0.048	0.095	0.000	0.190	0.476	0.095	0.000	0.951
SUBTOTAL	0.000	0.143	1.189	3.663	4.805	10.894	6.946	3.520	1.427	32.588

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2102
TOTAL HOURS OF STABILITY CLASS E	685
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	685
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2102
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/08/19

MEAN WIND SPEED = 11.64

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 < ΔT ≤ 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.143	0.048	0.190	0.285	0.095	0.000	0.761
NNE	0.000	0.000	0.000	0.000	0.048	0.333	0.476	0.143	0.000	0.999
NE	0.000	0.000	0.000	0.048	0.048	0.285	0.285	0.095	0.000	0.761
ENE	0.000	0.000	0.095	0.095	0.048	0.143	0.238	0.000	0.000	0.618
E	0.000	0.000	0.048	0.048	0.048	0.095	0.048	0.000	0.000	0.285
ESE	0.000	0.000	0.000	0.143	0.143	0.285	0.143	0.000	0.000	0.714
SE	0.000	0.000	0.000	0.143	0.048	0.381	0.143	0.048	0.000	0.761
SSE	0.000	0.000	0.000	0.381	0.333	0.618	0.238	0.095	0.000	1.665
S	0.000	0.000	0.190	0.048	0.048	0.571	1.237	0.285	0.048	2.426
SSW	0.000	0.000	0.238	0.048	0.000	0.333	0.809	0.000	0.000	1.427
SW	0.000	0.000	0.000	0.048	0.048	0.095	0.000	0.000	0.000	0.190
WSW	0.000	0.048	0.238	0.048	0.048	0.095	0.000	0.000	0.000	0.476
W	0.000	0.000	0.048	0.238	0.285	0.048	0.095	0.000	0.000	0.714
WNW	0.000	0.000	0.143	0.190	0.095	0.095	0.048	0.000	0.000	0.571
NW	0.000	0.000	0.190	0.095	0.048	0.143	0.095	0.000	0.000	0.571
NNW	0.000	0.000	0.000	0.000	0.000	0.048	0.143	0.000	0.000	0.190
SUBTOTAL	0.000	0.048	1.189	1.713	1.332	3.758	4.282	0.761	0.048	13.130

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2102
TOTAL HOURS OF STABILITY CLASS F	276
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	276
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2102
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/08/19

MEAN WIND SPEED = 10.56

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (ΔT > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

APRIL 1, 2010 - JUNE 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.048	0.095	0.095	0.000	0.048	0.000	0.000	0.285
NNE	0.000	0.000	0.095	0.000	0.048	0.190	0.095	0.000	0.000	0.428
NE	0.000	0.000	0.095	0.048	0.048	0.048	0.000	0.000	0.000	0.238
ENE	0.000	0.000	0.048	0.238	0.000	0.238	0.095	0.000	0.000	0.618
E	0.000	0.000	0.000	0.095	0.048	0.095	0.000	0.000	0.000	0.238
ESE	0.000	0.000	0.048	0.190	0.095	0.000	0.000	0.000	0.000	0.333
SE	0.000	0.000	0.048	0.190	0.285	0.190	0.048	0.000	0.000	0.761
SSE	0.000	0.000	0.143	0.238	0.238	0.523	0.095	0.000	0.000	1.237
S	0.000	0.000	0.095	0.000	0.190	0.143	0.238	0.143	0.000	0.809
SSW	0.000	0.000	0.095	0.238	0.095	0.190	0.238	0.095	0.000	0.951
SW	0.000	0.000	0.048	0.048	0.095	0.048	0.000	0.000	0.000	0.238
WSW	0.000	0.000	0.095	0.000	0.000	0.143	0.000	0.000	0.000	0.238
W	0.000	0.000	0.048	0.190	0.048	0.048	0.000	0.000	0.000	0.333
WNW	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.048
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.048	0.000	0.048	0.000	0.000	0.000	0.095
SUBTOTAL	0.000	0.000	0.951	1.618	1.284	1.903	0.856	0.238	0.000	6.851

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2102
TOTAL HOURS OF STABILITY CLASS G	144
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	144
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2102
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/08/19

MEAN WIND SPEED = 7.88

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT

2010 METEOROLOGICAL DATA TABLE 15

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR ELEVATED RELEASES

THIRD QUARTER

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A ($\Delta T \leq -1.9$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.091	0.046	0.000	0.000	0.137
SE	0.000	0.000	0.000	0.046	0.091	0.046	0.000	0.000	0.046	0.228
SSE	0.000	0.000	0.000	0.046	0.046	0.228	0.000	0.000	0.000	0.319
S	0.000	0.000	0.000	0.046	0.137	0.046	0.137	0.000	0.000	0.364
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.091
WSW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.137	0.273	0.546	0.182	0.000	0.046	1.184

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2197
TOTAL HOURS OF STABILITY CLASS A	26
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	26
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2196
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/10/21

MEAN WIND SPEED = 9.71

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < ΔT ≤ -1.7 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.046	0.273	0.000	0.000	0.319
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.046	0.137	0.137	0.000	0.000	0.319
SE	0.000	0.000	0.000	0.000	0.182	0.182	0.046	0.046	0.000	0.455
SSE	0.000	0.000	0.000	0.091	0.091	0.046	0.000	0.000	0.000	0.228
S	0.000	0.000	0.000	0.091	0.137	0.182	0.091	0.000	0.000	0.501
SSW	0.000	0.000	0.000	0.046	0.182	0.046	0.000	0.000	0.000	0.273
SW	0.000	0.000	0.000	0.046	0.091	0.228	0.000	0.000	0.000	0.364
WSW	0.000	0.000	0.000	0.046	0.046	0.228	0.046	0.000	0.000	0.364
W	0.000	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.091
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.319	0.774	1.184	0.592	0.046	0.000	2.914

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2197
TOTAL HOURS OF STABILITY CLASS B	64
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	64
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2196
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/10/21

MEAN WIND SPEED = 9.56

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C ($-1.7 < \Delta T \leq -1.5$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.046	0.455	0.455	0.046	0.000	1.002
NNE	0.000	0.000	0.000	0.000	0.000	0.410	0.273	0.000	0.000	0.683
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.046
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.182	0.319	0.046	0.046	0.000	0.592
SE	0.000	0.000	0.000	0.273	0.319	0.273	0.046	0.000	0.000	0.911
SSE	0.000	0.000	0.000	0.364	0.091	0.091	0.000	0.046	0.000	0.592
S	0.000	0.000	0.046	0.091	0.000	0.046	0.046	0.000	0.000	0.228
SSW	0.000	0.000	0.000	0.364	0.091	0.046	0.000	0.000	0.000	0.501
SW	0.000	0.000	0.000	0.137	0.046	0.091	0.000	0.000	0.000	0.273
WSW	0.000	0.000	0.046	0.364	0.546	0.273	0.000	0.000	0.000	1.230
W	0.000	0.000	0.000	0.000	0.091	0.911	0.000	0.000	0.000	1.002
WNW	0.000	0.000	0.000	0.000	0.046	0.137	0.046	0.000	0.000	0.228
NW	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.091
NNW	0.000	0.000	0.000	0.000	0.046	0.182	0.091	0.000	0.000	0.319
SUBTOTAL	0.000	0.000	0.091	1.594	1.503	3.279	1.093	0.137	0.000	7.696

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2197
TOTAL HOURS OF STABILITY CLASS C	170
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	169
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2196
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/10/21

MEAN WIND SPEED = 8.94

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < ΔT ≤ -0.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.091	0.273	0.228	0.865	0.592	0.000	0.000	2.049
NNE	0.000	0.000	0.091	0.364	0.455	0.683	0.228	0.046	0.000	1.867
NE	0.000	0.137	0.091	0.137	0.273	0.501	0.000	0.046	0.000	1.184
ENE	0.000	0.000	0.091	0.182	0.091	0.137	0.046	0.000	0.000	0.546
E	0.000	0.046	0.228	0.091	0.182	0.046	0.000	0.000	0.000	0.592
ESE	0.000	0.000	0.137	0.273	0.410	0.774	0.774	0.046	0.000	2.413
SE	0.000	0.000	0.364	0.592	0.546	0.683	1.047	0.228	0.000	3.461
SSE	0.000	0.000	0.410	0.319	0.546	1.184	0.455	0.182	0.000	3.097
S	0.000	0.000	0.455	0.865	0.546	1.230	0.592	0.046	0.000	3.734
SSW	0.000	0.046	0.546	0.638	0.410	0.911	0.546	0.000	0.000	3.097
SW	0.000	0.000	0.319	0.455	0.729	1.002	0.137	0.000	0.000	2.641
WSW	0.000	0.000	0.228	1.412	0.729	1.230	0.182	0.046	0.000	3.825
W	0.000	0.000	0.091	1.002	1.412	2.596	0.364	0.046	0.000	5.510
WNW	0.000	0.000	0.046	0.228	0.455	0.865	0.501	0.046	0.000	2.140
NW	0.000	0.000	0.046	0.137	0.364	0.683	0.273	0.000	0.000	1.503
NNW	0.000	0.000	0.182	0.364	0.273	0.546	0.182	0.046	0.000	1.594
SUBTOTAL	0.000	0.228	3.415	7.332	7.650	13.934	5.920	0.774	0.000	39.253

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2197
TOTAL HOURS OF STABILITY CLASS D	862
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	862
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2196
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/10/21

MEAN WIND SPEED = 8.38

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 < ΔT ≤ 1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.091	0.137	0.091	0.592	0.592	0.000	0.000	1.503
NNE	0.000	0.000	0.046	0.091	0.182	0.592	1.002	0.137	0.000	2.049
NE	0.000	0.000	0.046	0.046	0.137	0.774	1.184	0.182	0.000	2.368
ENE	0.000	0.000	0.046	0.046	0.091	0.319	0.410	0.000	0.000	0.911
E	0.000	0.000	0.182	0.091	0.091	0.228	0.000	0.000	0.000	0.592
ESE	0.000	0.046	0.182	0.091	0.273	0.911	0.592	0.000	0.000	2.095
SE	0.000	0.000	0.182	0.091	0.364	1.457	0.683	0.091	0.000	2.869
SSE	0.000	0.000	0.228	0.228	0.319	0.820	0.774	0.046	0.000	2.413
S	0.000	0.091	0.228	0.137	0.501	0.865	0.410	0.137	0.000	2.368
SSW	0.000	0.000	0.000	0.319	0.501	0.546	0.182	0.000	0.000	1.548
SW	0.000	0.000	0.091	0.455	0.273	0.501	0.000	0.046	0.000	1.366
WSW	0.000	0.000	0.046	0.410	0.501	0.410	0.000	0.000	0.000	1.366
W	0.000	0.000	0.364	0.410	0.501	1.093	0.046	0.000	0.000	2.413
WNW	0.000	0.000	0.091	0.319	0.137	0.638	0.000	0.000	0.000	1.184
NW	0.000	0.000	0.046	0.273	0.046	0.501	0.273	0.137	0.000	1.275
NNW	0.000	0.046	0.182	0.000	0.364	0.319	0.319	0.137	0.000	1.366
SUBTOTAL	0.000	0.182	2.049	3.142	4.372	10.565	6.466	0.911	0.000	27.687

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2197
TOTAL HOURS OF STABILITY CLASS E	608
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	608
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2196
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/10/21

MEAN WIND SPEED = 9.60

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 < ΔT ≤ 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.046	0.046	0.046	0.091	0.273	0.683	0.364	0.000	1.548
NNE	0.000	0.000	0.046	0.000	0.046	0.319	1.503	0.546	0.046	2.505
NE	0.000	0.000	0.000	0.046	0.091	0.364	0.455	0.091	0.000	1.047
ENE	0.000	0.000	0.046	0.137	0.228	0.364	0.319	0.182	0.000	1.275
E	0.000	0.000	0.046	0.000	0.046	0.501	0.228	0.000	0.000	0.820
ESE	0.000	0.000	0.182	0.000	0.091	0.638	0.228	0.000	0.000	1.138
SE	0.000	0.091	0.137	0.182	0.091	1.047	0.273	0.000	0.000	1.821
SSE	0.000	0.046	0.137	0.228	0.273	0.546	0.182	0.000	0.000	1.412
S	0.000	0.000	0.091	0.000	0.137	0.091	0.182	0.000	0.000	0.501
SSW	0.000	0.000	0.091	0.091	0.046	0.000	0.091	0.000	0.000	0.319
SW	0.000	0.000	0.137	0.410	0.046	0.319	0.091	0.000	0.000	1.002
WSW	0.000	0.000	0.137	0.319	0.046	0.091	0.000	0.000	0.000	0.592
W	0.000	0.000	0.228	0.046	0.091	0.000	0.000	0.000	0.000	0.364
WNW	0.000	0.046	0.000	0.137	0.137	0.000	0.000	0.000	0.000	0.319
NW	0.000	0.000	0.046	0.091	0.046	0.137	0.091	0.000	0.000	0.410
NNW	0.000	0.000	0.000	0.046	0.137	0.137	0.455	0.000	0.000	0.774
SUBTOTAL	0.000	0.228	1.366	1.776	1.639	4.827	4.781	1.184	0.046	15.847

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2197
TOTAL HOURS OF STABILITY CLASS F	348
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	348
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2196
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/10/21

MEAN WIND SPEED = 10.56

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (ΔT > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JULY 1, 2010 - SEPTEMBER 30, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.046	0.000	0.046	0.455	0.091	0.000	0.638
NNE	0.000	0.000	0.000	0.046	0.046	0.000	0.319	0.046	0.000	0.455
NE	0.000	0.000	0.000	0.046	0.000	0.228	0.546	0.137	0.000	0.956
ENE	0.000	0.000	0.000	0.046	0.228	0.228	0.273	0.000	0.000	0.774
E	0.000	0.000	0.000	0.091	0.137	0.182	0.046	0.000	0.000	0.455
ESE	0.000	0.000	0.091	0.046	0.273	0.091	0.000	0.000	0.000	0.501
SE	0.000	0.000	0.000	0.000	0.091	0.319	0.000	0.000	0.000	0.410
SSE	0.000	0.000	0.000	0.000	0.046	0.228	0.182	0.000	0.000	0.455
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
SW	0.000	0.000	0.000	0.091	0.046	0.000	0.000	0.000	0.000	0.137
WSW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
W	0.000	0.000	0.000	0.046	0.000	0.046	0.000	0.000	0.000	0.091
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.137	0.000	0.000	0.000	0.137
NNW	0.000	0.000	0.137	0.000	0.091	0.091	0.000	0.000	0.000	0.319
SUBTOTAL	0.000	0.000	0.273	0.455	1.002	1.594	1.821	0.273	0.000	5.419

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2197
TOTAL HOURS OF STABILITY CLASS G	119
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	119
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2196
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2010/10/21

MEAN WIND SPEED = 10.69

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT

2010 METEOROLOGICAL DATA TABLE 16

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR ELEVATED RELEASES

FOURTH QUARTER

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A ($\Delta T \leq -1.9$ C/100 M)

BROWNS FERRY NUCLEAR PLANT

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.136	0.000	0.000	0.136
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.045
SSE	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.045
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.000	0.091	0.136	0.000	0.000	0.227

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS A	5
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	5
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2200
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2011/02/28

MEAN WIND SPEED = 13.62

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < ΔT ≤ -1.7 C/100 M)

BROWNS FERRY NUCLEAR PLANT

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.045	0.136	0.182	0.000	0.364
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.136	0.000	0.000	0.136
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.091	0.045	0.000	0.000	0.000	0.136
SSE	0.000	0.000	0.000	0.045	0.045	0.000	0.000	0.000	0.000	0.091
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.045
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.045
SUBTOTAL	0.000	0.000	0.000	0.045	0.136	0.136	0.318	0.182	0.000	0.818

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS B	18
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	18
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2200
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2011/02/28

MEAN WIND SPEED = 13.75

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 < ΔT ≤ -1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.091	0.273	0.045	0.000	0.409
NNE	0.000	0.000	0.000	0.000	0.000	0.182	0.227	0.000	0.000	0.409
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.045	0.045	0.136	0.000	0.000	0.227
SE	0.000	0.000	0.000	0.000	0.045	0.045	0.000	0.000	0.000	0.091
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.045	0.045	0.045	0.091	0.000	0.000	0.227
SSW	0.000	0.000	0.000	0.045	0.000	0.091	0.000	0.000	0.000	0.136
SW	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.045
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.045
WNW	0.000	0.000	0.000	0.000	0.045	0.000	0.045	0.091	0.000	0.182
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.045
NNW	0.000	0.000	0.000	0.000	0.000	0.045	0.273	0.091	0.000	0.409
SUBTOTAL	0.000	0.000	0.000	0.136	0.182	0.545	1.045	0.318	0.000	2.227

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS C	49
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	49
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2200
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2011/02/28

MEAN WIND SPEED = 13.63

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < ΔT ≤ -0.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.136	0.318	0.364	1.182	1.136	0.227	0.045	3.409
NNE	0.000	0.000	0.000	0.091	0.273	0.818	0.409	0.227	0.000	1.818
NE	0.000	0.000	0.045	0.182	0.045	0.227	0.227	0.000	0.000	0.727
ENE	0.000	0.000	0.136	0.091	0.091	0.091	0.045	0.000	0.000	0.455
E	0.000	0.000	0.091	0.000	0.455	0.409	0.000	0.000	0.000	0.955
ESE	0.000	0.045	0.182	0.364	0.364	0.500	0.636	0.136	0.136	2.364
SE	0.000	0.045	0.182	0.227	0.182	0.455	0.545	0.636	0.409	2.682
SSE	0.000	0.000	0.318	0.273	0.273	0.500	0.545	0.273	0.000	2.182
S	0.000	0.000	0.318	0.273	0.091	0.500	0.591	0.318	0.273	2.364
SSW	0.000	0.045	0.136	0.318	0.091	0.227	0.091	0.045	0.318	1.273
SW	0.000	0.000	0.455	0.364	0.000	0.000	0.136	0.136	0.000	1.091
WSW	0.000	0.000	0.182	0.545	0.091	0.227	0.136	0.091	0.045	1.318
W	0.000	0.000	0.364	0.318	0.273	0.455	0.773	0.500	0.409	3.091
WNW	0.000	0.000	0.136	0.364	0.455	1.455	0.864	0.591	0.636	4.500
NW	0.000	0.000	0.000	0.273	0.364	1.318	2.500	1.636	0.364	6.455
NNW	0.000	0.000	0.091	0.091	0.318	1.364	2.591	1.591	0.000	6.045
SUBTOTAL	0.000	0.136	2.773	4.091	3.727	9.727	11.227	6.409	2.636	40.727

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS D	896
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	896
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2200
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2011/02/28

MEAN WIND SPEED = 12.88

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 < ΔT ≤ 1.5 C/100 M)

BROWNS FERRY NUCLEAR PLANT

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.000	0.091	0.136	0.818	1.182	0.318	0.000	2.545
NNE	0.000	0.000	0.000	0.000	0.091	0.864	0.636	0.000	0.000	1.591
NE	0.000	0.000	0.000	0.000	0.273	0.409	0.136	0.000	0.000	0.818
ENE	0.000	0.000	0.136	0.182	0.136	0.455	0.091	0.000	0.000	1.000
E	0.000	0.045	0.273	0.182	0.091	0.364	0.182	0.000	0.000	1.136
ESE	0.000	0.000	0.091	0.182	0.227	0.545	0.455	0.091	0.045	1.636
SE	0.000	0.000	0.182	0.273	0.182	0.455	1.409	1.091	0.318	3.909
SSE	0.000	0.000	0.136	0.227	0.273	0.864	1.273	0.682	0.500	3.955
S	0.000	0.045	0.136	0.182	0.364	1.136	1.273	1.091	0.636	4.864
SSW	0.000	0.091	0.136	0.000	0.273	0.818	0.318	0.227	0.273	2.136
SW	0.000	0.000	0.045	0.273	0.136	0.182	0.045	0.136	0.000	0.818
WSW	0.000	0.000	0.091	0.182	0.136	0.182	0.000	0.000	0.000	0.591
W	0.000	0.000	0.000	0.182	0.091	0.773	0.136	0.000	0.000	1.182
WNW	0.000	0.000	0.045	0.091	0.045	0.500	0.091	0.045	0.000	0.818
NW	0.000	0.000	0.045	0.091	0.045	0.364	1.091	0.273	0.000	1.909
NNW	0.000	0.000	0.091	0.091	0.091	0.545	1.136	0.227	0.000	2.182
SUBTOTAL	0.000	0.182	1.409	2.227	2.591	9.273	9.455	4.182	1.773	31.091

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS E	684
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	684
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2200
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2011/02/28

MEAN WIND SPEED = 12.88

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 < ΔT ≤ 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.045	0.000	0.000	0.136	0.500	0.364	0.000	1.045
NNE	0.000	0.000	0.000	0.000	0.045	0.409	0.318	0.045	0.000	0.818
NE	0.000	0.000	0.045	0.045	0.182	0.364	0.273	0.000	0.000	0.909
ENE	0.000	0.000	0.045	0.091	0.045	0.227	0.227	0.000	0.000	0.636
E	0.000	0.000	0.000	0.182	0.091	0.091	0.136	0.000	0.000	0.500
ESE	0.000	0.000	0.045	0.227	0.045	0.364	0.045	0.000	0.000	0.727
SE	0.000	0.000	0.227	0.136	0.227	0.045	0.273	0.364	0.000	1.273
SSE	0.000	0.000	0.182	0.091	0.136	0.182	0.909	0.364	0.136	2.000
S	0.000	0.000	0.136	0.045	0.182	0.591	0.591	0.000	0.000	1.545
SSW	0.000	0.045	0.000	0.091	0.091	0.409	0.182	0.000	0.000	0.818
SW	0.000	0.000	0.045	0.045	0.000	0.136	0.000	0.000	0.000	0.227
WSW	0.000	0.000	0.091	0.045	0.000	0.045	0.000	0.000	0.000	0.182
W	0.000	0.000	0.045	0.045	0.136	0.182	0.000	0.000	0.000	0.409
WNW	0.000	0.000	0.045	0.000	0.091	0.318	0.045	0.000	0.000	0.500
NW	0.000	0.000	0.000	0.045	0.045	0.227	0.136	0.000	0.000	0.455
NNW	0.000	0.000	0.000	0.045	0.000	0.227	0.227	0.045	0.000	0.545
SUBTOTAL	0.000	0.045	0.955	1.136	1.318	3.955	3.864	1.182	0.136	12.591

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS F	277
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	277
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2200
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2011/02/28

MEAN WIND SPEED = 11.38

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (ΔT > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

OCTOBER 1, 2010 - DECEMBER 31, 2010

WIND DIRECTION	WIND SPEED (MPH) CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	≥24.5	TOTAL
N	0.000	0.000	0.045	0.091	0.045	0.091	0.318	0.136	0.000	0.727
NNE	0.000	0.000	0.045	0.045	0.045	0.136	0.545	0.318	0.000	1.136
NE	0.000	0.045	0.045	0.091	0.136	0.273	0.318	0.045	0.000	0.955
ENE	0.000	0.000	0.045	0.000	0.182	0.318	0.182	0.091	0.000	0.818
E	0.000	0.045	0.091	0.182	0.182	0.091	0.000	0.000	0.000	0.591
ESE	0.000	0.000	0.318	0.318	0.091	0.091	0.000	0.000	0.000	0.818
SE	0.000	0.000	0.364	0.227	0.091	0.318	0.182	0.045	0.000	1.227
SSE	0.000	0.045	0.227	0.136	0.091	0.091	0.091	0.273	0.000	0.955
S	0.000	0.000	0.182	0.273	0.227	0.045	0.091	0.000	0.000	0.818
SSW	0.000	0.000	0.227	0.364	0.182	0.091	0.000	0.000	0.000	0.864
SW	0.000	0.045	0.136	0.136	0.136	0.136	0.000	0.000	0.000	0.591
WSW	0.000	0.000	0.273	0.409	0.091	0.273	0.000	0.000	0.000	1.045
W	0.000	0.000	0.273	0.227	0.045	0.000	0.000	0.000	0.000	0.545
WNW	0.000	0.000	0.136	0.045	0.045	0.182	0.091	0.000	0.000	0.500
NW	0.000	0.045	0.091	0.091	0.045	0.045	0.136	0.000	0.000	0.455
NNW	0.000	0.000	0.091	0.000	0.091	0.000	0.091	0.000	0.000	0.273
SUBTOTAL	0.000	0.227	2.591	2.636	1.727	2.182	2.045	0.909	0.000	12.318

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS G	271
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	271
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2200
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON ΔT BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2011/02/28

MEAN WIND SPEED = 8.21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Enclosure 3

Browns Ferry Nuclear Plant
Units 1, 2, and 3

2010 Effluent and Waste Disposal Annual Report

(See attached)

I. Regulatory and BFN ODCM Limits

A. Fission and Activation Gases in Gaseous Effluent:

The release of fission and activation gases is regulated by the dose limits of 10 CFR 50 Appendix I and Browns Ferry Nuclear Plant (BFN) Offsite Dose Calculation Manual (ODCM). The air dose to areas at and beyond the site boundary due to noble gases released in gaseous effluents per unit shall be limited during any calendar quarter to $\leq$ 5 millirad (mrad) for gamma radiation and $\leq$ 10 mrad for beta radiation; and during any calendar year to $\leq$ 10 mrad for gamma radiation and $\leq$ 20 mrad for beta radiation.

B. Iodines and Particulates with Half-Lives Greater than Eight Days in Gaseous Effluents:

The release of iodines and particulates in gaseous effluent is regulated by the dose limits of 10 CFR 50 Appendix I and the BFN ODCM. The dose to a member of the public from radioiodines, radioactive materials in particulate form, and radionuclides other than noble gases with half-lives greater than eight days in gaseous effluent released per unit to areas at and beyond the site boundary shall be limited to any organ during any calendar quarter to $\leq$ 7.5 millirem (mrem), and during any calendar year to $\leq$ 15 mrem.

C. Liquid Effluents:

The release of radioactive liquid effluents is regulated by the dose limits of 10 CFR 50 Appendix I and the BFN ODCM. The doses or dose commitment to a member of the public from radioactive materials in liquid effluents released from each unit to unrestricted areas shall be limited during any calendar quarter to $\leq$ 1.5 mrem to the total body and $\leq$5 mrem to any organ and during any calendar year to $\leq$ 3 mrem to the total body and $\leq$ 10 mrem to any organ.

II. Limitation on Dose Rate

A. Fission and Activation Gases in Gaseous Effluents:

1. The instantaneous release rate of fission and activation gases is based on the dose rate limits of 10 CFR 20.1301 and the BFN ODCM. The dose rate at any time to areas at and beyond the site boundary due to noble gases released in gaseous effluents from the site shall be limited to $\leq$ 500 mrem per year to the total body and $\leq$ 3000 mrem per year to the skin.

2. The BFN ODCM Section 7.2 determines the maximum noble gas release rate.

II. Limitations on Dose Rate (Continued)

B. Iodines and Particulates with Half-Lives Greater than Eight Days in Gaseous Effluents:

1. The instantaneous release rate of particulates and iodines is regulated by the dose rate limits of the BFN ODCM. The dose rate at any time to areas at and beyond the site boundary, due to I-131, I-133, H-3, and particulates with half-lives greater than eight days in gaseous effluent released from the site, shall be limited to $\leq$ 1500 mrem per year to any organ.

2. The BFN ODCM Section 7.3 determines the maximum particulate and iodine dose rates.

C. Liquid Effluents:

1. The concentration of radionuclides in liquid effluents released at any time from the site to unrestricted areas shall be limited to the concentrations specified in 10 CFR 20.1001-20.2402, Appendix B, Table 2, Column 2 for radionuclides other than dissolved or entrained noble gases.

2. For dissolved or entrained noble gases, the concentration shall be limited to 2E-4 μCi per milliliter (ml) total activity.

III. Measurements and Approximations of Total Radioactivity

A. Fission and Activation Gases:

1. Noble gases in the building vent and stack (elevated) gaseous effluents are continuously monitored. The flow rate of the stack is continuously monitored and the building vent effluent flow rates are calculated once a shift based on the configuration of operating exhaust fans. The vent flow is calculated for each release. Gas grab samples of the stack are taken and analyzed weekly. Gas grab samples of in-service vents are taken and analyzed monthly. The specific noble gas activity concentrations and total volume of the gases are used to calculate the total Curies of noble gases released.

2. The tritium concentration is determined by the analysis of a monthly grab sample for each release point.

III. Measurements and Approximations of Total Radioactivity (continued)

B. Iodines and Particulates:

1. Iodines and particulates are continuously sampled on impregnated charcoal filters and particulate filters, respectively. The charcoal and particulate samples are replaced at least weekly and analyzed to determine specific activity concentrations. The specific activity concentrations and vent flow rate data are used weekly to verify that release rate limits were not exceeded. The specific activity concentrations and total volume of gaseous effluent are used on a monthly basis to determine the total Curies of each particulate and iodine released during the month.

2. The gross alpha concentration is determined by analysis of a monthly particulate filter composite sample and strontium-89 and strontium-90 are determined by analysis of a quarterly particulate filter composite sample for each release point.

C. Liquid Effluents:

1. The gamma ray emitting radionuclide concentrations are determined for each batch by gamma ray spectroscopy analysis of a grab sample. The allowable release rate is calculated for each batch based upon the known dilution flow. The flow rate of the liquid effluent is continuously monitored and the total volume released in each batch is determined. The total gamma activity released in each batch is determined by multiplying the radionuclide concentrations by the total volume discharged. The total gamma activity released during the month is then determined by summing the gamma activity content of each batch discharged during the month.

2. The gross alpha and tritium concentrations are measured on a monthly composite sample. The strontium-89, strontium-90, and iron-55 are measured on a quarterly composite sample.

D. The Radioactive Gaseous and Liquid Waste Monitoring Sampling and Analysis Program is specified in ODCM Sections 1/2.2.1 and 1/2.2.2. No liquid or gaseous concentration or dose limits were exceeded.

IV. Batch

A. Liquid	Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4
1. Number of batches released	Each	6	7	1	1
2. Total time for batches released	Minutes	1565	1747	152	170
3. Maximum time period for a batch release	Minutes	450	275	152	170
4. Average time period for a batch release	Minutes	261	249	152	170
5. Minimum time period for a batch release	Minutes	170	167	152	170
6. Average BFN beach flow during period of release into the river stream	ft^3/sec	77358	24871	21464	36304

B. Gaseous

None

C. Abnormal/Unplanned Releases*

Number of Releases: 4

Type: Liquid

		Total Activity Released (Curies)			
Destination	Nuclide	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Leak to River	H-3	5.45E-02			
	F-18	8.51E-03			
Leak to River	H-3	7.97E+00			
	F-18	3.81E+00			
Leak to River	H-3		2.59E-03		
Leak to River	H-3				3.32E-02
	F-18				2.99E-04

* - An explanation of any liquid or gaseous abnormal/unexplained release shall be documented in the summary.

2010 Effluent and Waste Disposal Annual Report
Liquid Effluents - Summation of All Releases

		Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Error %
A.	Fission and Activation Products (Does not include tritium, gases, Alpha)						
	1. Total Release	Curies	3.82E+00**	1.02E-03	3.45E-04	7.80E-04**	9
	2. Average Diluted Concentration Released During Period	µCi/ml	6.18E-07**	1.15E-10	5.00E-10	1.01E-09**	
	3. Percent of Applicable Limit	%	***	***	***	***	
B.	Tritium						
	1. Total Releases	Curies	8.87E+00**	1.95E+00**	1.57E-02	4.15E-02**	6
	2. Average Diluted Concentration Released During Period	µCi/ml	1.43E-06**	2.19E-07**	2.27E-08	5.37E-08**	
	3. Percent of Applicable Limit	%	***	***	***	***	
C.	Dissolved and Entrained Noble Gases						
	1. Total Releases	Curies	0.00E+00	3.04E-05	0.00E+00	0.00E+00	8
	2. Average Diluted Concentration Released During Period	µCi/ml	0.00E+00	3.42E-12	0.00E+00	0.00E+00	
	3. Percent of Applicable Limit	%	***	***	***	***	
D.	Gross Alpha Radioactivity						
	1. Total Releases	Curies	*	*	*	*	48
	2. Average Diluted Concentration Released During Period	µCi/ml	*	*	*	*	
E.	Volume of Liquid Waste to Discharge Canal (Prior to dilution)	Liters	6.26E+05	8.77E+05	3.38E+04	3.47E+04	3
F.	Volume of Dilution Water for Period	Liters	6.19E+09	8.91E+09	6.91E+08	7.72E+08	10
G.	Total CCW	Gigagal	2.25E+02	2.66E+02	2.55E+02	2.49E+02	

* - Not Detected. Dilution flow was not determined for the abnormal release.
** - Includes activity from abnormal releases.
*** - The applicable limit is expressed in terms of dose. See Enclosure 1, Tables 5 through 8.

2010 Effluent and Waste Disposal Annual Report
Liquid Releases - Batch Mode

	CURIES Isotope (Required by Regulatory (REG) Guide 1.21)	Quarter 1	Quarter 2	Quarter 3	Quarter 4
1.	Ba-140	*	*	*	*
2.	Ce-141	*	*	*	*
3.	Co-58	2.45E-04	2.44E-05	*	8.46E-06
4.	Co-60	1.16E-03	4.56E-04	1.56E-04	1.44E-04
5.	Cr-51	*	*	*	3.60E-05
6.	Cs-134	3.25E-05	1.31E-05	1.01E-05	5.17E-06
7.	Cs-137	5.68E-04	4.58E-04	1.31E-04	7.22E-05
8.	Fe-59	*	*	*	*
9.	I-131	*	*	*	*
10.	La-140	*	*	*	*
11.	Mn-54	2.13E-04	5.83E-05	1.11E-05	1.48E-05
12.	Mo-99	4.25E-06	*	*	*
13.	Nb-95	*	*	*	*
14.	Sr-89	*	*	*	*
15.	Sr-90	*	*	*	*
16.	Tc-99m	4.14E-06	*	*	*
17.	Xe-133	*	*	*	*
18.	Xe-135	*	3.04E-05	*	*
19.	Zn-65	9.37E-06	*	*	1.72E-05
20.	Zr-95	*	*	*	*

* - Not Detected.

2010 Effluent and Waste Disposal Annual Report
Liquid Releases - Batch Mode

	CURIES Isotope Others (Not Required by REG Guide 1.21)	Quarter 1	Quarter 2	Quarter 3	Quarter 4
1.	F-18	3.82E+00*	**	**	2.99E+04*
2.	Fe-55	1.39E-05	1.07E-05	3.23E-05	3.16E-05
3	Mn-56	**	**	**	**
4	Zn-69m	**	**	**	**
5	Kr-88	**	**	**	**
6	Nb-97	**	**	**	**
7	Ag-110m	2.85E-05	**	4.56E-06	1.52E-04
8	Sb-124	**	**	**	**
9	I-133	**	**	**	**

* - Activity from abnormal release.
** - Not Detected.

2010 Effluent and Waste Disposal Annual Report
Gaseous Effluents - Summation of All Releases

	Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Error %
A. Fission and Activation Gases						
1. Total Releases	Curies	**	**	**	**	45
2. Average Release Rate for Period	µCi/sec	**	**	**	**	
3. Percent of Applicable Limit	%	*	*	*	*	
B. Iodines						
1. Total Iodine-131	Curies	4.39E-04	8.25E-04	4.31E-03	1.94E-03	36
2. Average Release Rate for Period	µCi/sec	5.65E-05	1.05E-04	5.42E-04	2.44E-04	
3. Percent of Applicable Limit	%	*	*	*	*	
C. Particulates						
1. Particulates with half-lives > eight days	Curies	4.52E-05	1.08E-04	2.02E-04	6.71E-04	35
2. Average Release Rate for Period	µCi/sec	5.81E-06	1.37E-05	2.54E-05	8.44E-05	
3. Percent of Applicable Limit	%	*	*	*	*	
4. Gross Alpha Radioactivity	Curies	**	**	**	**	
D. Tritium						
1. Total Release	Curies	3.07E+01	8.39E+01	1.53E+02	4.58E+01	21
2. Average Release Rate for Period	µCi/sec	3.94E+00	1.07E+01	1.92E+01	5.77E+00	
3. Percent of Applicable Limit	%	*	*	*	*	
E. Carbon-14***						
1. Total Release	Curies	8.39E+00	9.63E+00	8.37E+00	8.83E+00	
2. Total as CO2	Curies	7.97E+00	9.15E+00	7.95E+00	8.39E+00	

* - Applicable Limits are expressed in terms of dose. See Enclosure 1, Tables 1 through 4.
** - Not Detected.
*** - Estimated using EPRI methodology provided in EPRI Report 1021106.

2010 Effluent and Waste Disposal Annual Report
Gaseous Effluents - Elevated Release

CURIES	Quarter 1	Quarter 2	Quarter 3	Quarter 4
1. Fission Gases				
Kr-85m	*	*	*	*
Kr-85	*	*	*	*
Kr-87	*	*	*	*
Kr-88	*	*	*	*
Xe-133	*	*	*	*
Xe-135m	*	*	*	*
Xe-135	*	*	*	*
Xe-138	*	*	*	*
Others (specify)				
Total for Period	*	*	*	*
2. Iodines				
I-131	1.60E-04	1.82E-04	7.49E-04	5.73E-04
I-133	2.88E-04	3.67E-04	4.12E-04	7.27E-04
Total for Period	4.48E-04	5.49E-04	1.16E-03	1.30E-03

* - Not Detected.

2010 Effluent and Waste Disposal Annual Report
Gaseous Effluents - Elevated Release

	CURIES	Quarter 1	Quarter 2	Quarter 3	Quarter 4
3.	Particulates*				
	Sr-89	1.72E-05	1.51E-05	1.86E-05	7.53E-05
	Sr-90	**	**	**	**
	Sr-91	**	**	**	5.93E-04
	Cs-134	**	**	**	**
	Cs-137	**	1.48E-07	5.75E-07	**
	Ba-140	2.19E-06	3.51E-06	**	4.78E-05
	La-140	**	**	**	1.30E-05
	Others (specify)				
	RB-89	**	**	**	8.85E-02
	Y-91m	2.46E-05	2.21E-05	2.66E-05	4.84E-04
	Cs-138	1.83E-02	2.37E-02	1.67E-02	1.04E-01
	Ba-139	1.21E-02	1.70E-02	1.53E-02	6.09E-02
	Total for Period*	3.04E-02	4.07E-02	3.20E-02	2.54E-01
4.	Tritium	1.30E+00	6.54E+00	7.14E+01	4.27E+00
5.	Carbon-14***	8.39E+00	9.63E+00	8.37E+00	8.83E+00

* - Includes all nuclides, even those with less than an eight day half-life.
** - Not Detected.
*** - Estimated using EPRI methodology provided in EPRI Report 1021106.

2010 Effluent and Waste Disposal Annual Report
Gaseous Effluents - Ground Release

CURIES	Quarter 1	Quarter 2	Quarter 3	Quarter 4
1. Fission Gases				
Kr-85m	*	*	*	*
Kr-85	*	*	*	*
Kr-87	*	*	*	*
Kr-88	*	*	*	*
Xe-133	*	*	*	*
Xe-135m	*	*	*	*
Xe-135	*	*	*	*
Xe-138	*	*	*	*
Others(specify)				
NONE				
Total for Period	*	*	*	*
2. Iodines				
I-131	3.55E-05	4.82E-05	3.18E-04	2.22E-04
I-133	1.87E-05	1.02E-04	1.44E-04	4.54E-04
Total for Period	5.42E-05	1.51E-04	4.62E-04	6.76E-04

* - Not Detected.

2010 Effluent and Waste Disposal Annual Report
Gaseous Effluents - Ground Release

CURIES	Quarter 1	Quarter 2	Quarter 3	Quarter 4
3. Particulates*				
Co-60	**	**	3.90E-05	**
Sr-89	**	**	**	1.30E-05
Sr-90	**	**	1.33E-06	6.21E-08
Cs-134	**	**	**	**
Cs-137	**	**	**	**
Ba-140	**	**	**	2.19E-05
La-140	**	**	**	2.72E-06
Others (specify)				
Y-91m	3.31E-05	4.35E-06	**	4.66E-04
Cs-138	**	**	**	**
Ba-139	5.09E-03	2.28E-03	**	4.54E-03
Total for Period*	5.12E-03	2.28E-03	4.03E-05	5.04E-03
4. Tritium	6.57E+00	9.33E+00	7.41E-01	4.24E+00

* - Include all nuclides even those with less than an eight day half-life.
** - Not Detected.

2010 Effluent and Waste Disposal Annual Report
Gaseous Effluents - Mixed Mode Release*

	CURIES	Quarter 1	Quarter 2	Quarter 3	Quarter 4
1.	Fission Gases				
	Kr-85m	**	**	**	**
	Kr-85	**	**	**	**
	Kr-87	**	**	**	**
	Kr-88	**	**	**	**
	Xe-133	**	**	**	**
	Xe-135m	**	**	**	**
	Xe-135	**	**	**	**
	Xe-138	**	**	**	**
	Others(specify)				
	NONE				
	Total for Period	**	**	**	**
2.	Iodines				
	I-131	2.44E-04	5.95E-04	3.24E-03	1.15E-03
	I-133	6.62E-04	1.83E-03	5.28E-03	3.34E-03
	Total for Period	9.06E-04	2.42E-03	8.52E-03	4.49E-03

* - The Reactor Building and Radwaste Building are treated as split-level releases.
** - Not Detected.

2010 Effluent and Waste Disposal Annual Report
Gaseous Effluents - Mixed Mode Release*

	CURIES	Quarter 1	Quarter 2	Quarter 3	Quarter 4
3.	Particulates**				
	Sr-89	***	***	***	8.09E-05
	Sr-90	***	***	***	***
	Cs-134	***	***	***	***
	Cs-137	***	***	1.84E-06	***
	Ba-140	***	1.57E-05	7.56E-05	2.63E-04
	La-140	***	***	2.91E-05	1.25E-04
	Others (specify)				
	Na-24	***	***	***	3.87E-05
	Cr-51	***	1.91E-05	***	2.33E-05
	Mn-54	4.03E-06	1.01E-05	1.58E-05	1.37E-05
	Mn-56	***	***	2.55E-04	4.18E-03
	Co-58	9.31E-07	4.91E-06	6.16E-06	2.44E-05
	Co-60	2.08E-05	3.97E-05	3.27E-05	6.02E-05
	Zn-65	***	***	1.04E-05	4.04E-06
	Zn-69m	***	***	***	5.80E-05
	Y-91m	2.33E-04	6.32E-04	1.13E-03	2.74E-03
	Sr-91	***	***	***	3.41E-03
	Sr-92	***	***	***	6.32E-04

* - The Reactor Building and Radwaste Building are treated as split-level releases.
** - Includes all nuclides, even those with less than an eight day half-life.
*** - Not Detected.

2010 Effluent and Waste Disposal Annual Report
Gaseous Effluents - Mixed Mode Release*

CURIES	Quarter	Quarter	Quarter	Quarter
Particulates** (Continued) Others (specify)	1	2	3	4
Mo-99	***	***	1.17E-06	5.29E-06
Tc-99m	***	***	1.14E-06	5.16E-06
Ag-110m	***	***	***	4.35E-05
Cs-138	***	***	***	1.39E-02
Ba-139	1.34E-02	1.15E-02	1.77E-02	3.69E-02
Total for Period**	1.37E-02	1.22E-02	1.93E-02	6.25E-02
4. Tritium	2.28E+01	6.81E+01	7.39E+01	3.73E+01

* - The Reactor Building and Radwaste Building are treated as split-level releases.
** - Includes all nuclides, even those with less than an eight day half-life.
*** - Not Detected.

Solid Radioactive Waste Shipped for Processing or Disposal

Resins, Filters, and Evaporator Bottoms	Volume		Curies Shipped
Waste Class	ft^3	m^3	Curies
A	4.10E+3	1.16E+02	1.57E+02
B	0.00E+00	0.00E+00	0.00E+00
C	0.00E+00	0.00E+00	0.00E+00
All	4.10E+03	1.16E+02	1.57E+02

Major Nuclides for the Above Table:

	Nuclide	Percentage	Curies
1)	CO-60	5.13E+01	8.06E+01
2)	CS-137	2.11E+01	3.32E+01
3)	FE-55	1.25E+01	1.96E+01
4)	MN-54	4.75E+00	7.47E+00
5)	ZN-65	2.86E+00	4.50E+00
6)	NI-63	2.04E+00	3.21E+00
7)	CS-134	2.00E+00	3.14E+00
8)	AG-110M	9.29E-01	1.46E+00
9)	CO-58	8.46E-01	1.33E+00
10)	CR-51	8.33E-01	1.31E+00
11)	CE-144	3.14E-01	4.93E-01
12)	I-131	1.32E-01	2.08E-01
13)	C-14	1.12E-01	1.76E-01
14)	Ba-140	8.52E-02	1.34E-01
15)	FE-59	8.46E-02	1.33E-01
16)	SR-90	4.83E-02	7.60E-02
17)	K-40	3.26E-02	5.13E-02
18)	Sb-124	1.65E-02	2.59E-02
19)	Ce-141	1.64E-02	2.58E-02
20)	ZR-95	1.50E-02	2.36E-02
21)	TC-99	8.97E-03	1.41E-02
22)	PU-241	7.51E-03	1.18E-02
23)	SR-89	5.29E-03	8.32E-03
24)	NB-95	3.04E-03	4.78E-03
25)	AM-241	3.86E-04	6.07E-04
26)	Au-199	3.03E-04	4.77E-04
27)	CM-242	2.35E-04	3.69E-04
28)	CM-243	2.09E-04	3.28E-04

	Nuclide	Percentage	Curies
29)	CM-244	2.09E-04	3.28E-04
30)	LA-140	2.02E-04	3.18E-04
31)	PU-239	7.25E-05	1.14E-04
32)	PU-240	7.25E-05	1.14E-04
33)	Pu-238	4.17E-05	6.56E-05
34)	I-133	3.22E-08	5.06E-08
35)	CU-64	4.94E-11	7.76E-11
36)	Zn-69m	2.00E-18	3.15E-18

Dry Active Waste	Volume		Curies Shipped
Waste Class	ft^3	m^3	Curies
A	8.68E+04	2.46E+03	7.17E-01
B	0.00E+00	0.00E+00	0.00E+00
C	0.00E+00	0.00E+00	0.00E+00
ALL	8.68E+04	2.46E+03	7.17E-1

Major Nuclides for the Above Table:

	Nuclide	Percentage	Curies
1)	CO-60	4.07E+01	2.92E-01
2)	AG-110m	2.37E+01	1.70E-01
3)	FE-55	1.04E+01	7.49E-02
4)	ZN-65	8.93E+00	6.40E-02
5)	CS-137	6.99E+00	5.01E-02
6)	MN-54	6.51E+00	4.67E-02
7)	NI-63	1.74E+00	1.25E-02
8)	H-3	5.97E-01	4.28E-03
9)	Pu-241	3.18E-01	2.28E-03
10)	C-14	1.99E-02	1.43E-04
11)	Pu-238	9.89E-04	7.09E-06

Irradiated Components	Volume		Curies Shipped
Waste Class	ft^3	m^3	Curies
A	0.00E+00	0.00E+00	0.00E+00
B	0.00E+00	0.00E+00	0.00E+00
C	0.00E+00	0.00E+00	0.00E+00
ALL	0.00E+00	0.00E+00	0.00E+00

Major Nuclides for the Above Table: N/A

Other Waste (Combined Packages)	Volume		Curies Shipped
Waste Class	ft^3	m^3	Curies
A	3.67E+03	1.04E+02	7.61E-01
B	0.00E+00	0.00E+00	0.00E+00
C	0.00E+00	0.00E+00	0.00E+00
ALL	3.67E+03	1.04E+02	7.61E-01

Major Nuclides for the Above Table:

	Nuclide	Percentage	Curies
1)	CO-60	4.79E+01	3.65E-01
2)	CS-137	1.43E+01	1.09E-01
3)	AG-110M	1.14E+01	8.72E-02
4)	FE-55	1.04E+01	7.91E-02
5)	ZN-65	6.08E+00	4.63E-02
6)	MN-54	5.31E+00	4.05E-02
7)	NI-63	1.94E+00	1.48E-02
8)	CS-134	1.33E+00	1.01E-02
9)	CO-58	5.83E-01	4.44E-03
10)	H-3	2.83E-01	2.16E-03

	Nuclide	Percentage	Curies
11)	PU-241	1.51E-01	1.15E-03
12)	CE-144	1.14E-01	8.68E-04
13)	C-14	7.98E-02	6.08E-04
14)	I-131	5.26E-02	4.01E-04
15)	SR-89	2.91E-02	2.22E-04
16)	SR-90	2.35E-02	1.79E-04
17)	LA-140	6.23E-04	4.75E-06
18)	PU-238	4.70E-04	3.58E-06
19)	AM-241	1.82E-04	1.39E-06
20)	CM-242	1.02E-04	7.77E-07
21)	CM-243	1.02E-04	7.74E-07
22)	CM-244	1.01E-04	7.73E-07
23)	PU-239	3.60E-05	2.74E-07
24)	PU-240	3.60E-05	2.74E-07

Sum of All Low-Level Waste Shipped from Site	Volume		Curies Shipped
Waste Class	ft^3	m^3	Curies
A	9.46E+04	2.68E+03	1.59E+02
B	0.00E+00	0.00E+00	0.00E+00
C	0.00E+00	0.00E+00	0.00E+00
ALL	9.46E+04	2.68E+03	1.59E+02

Major Nuclides for the Above Table:

	Nuclide	Percentage	Curies
1)	CO-60	5.12E+01	8.13E+01
2)	CS-137	2.10E+01	3.33E+01
3)	FE-55	1.25E+01	1.98E+01
4)	MN-54	4.76E+00	7.56E+00
5)	ZN-65	2.90E+00	4.61E+00
6)	NI-63	2.04E+00	3.23E+00
7)	CS-134	1.98E+00	3.15E+00
8)	AG-110M	1.08E+00	1.72E+00
9)	CO-58	8.38E-01	1.33E+00
10)	CR-51	8.25E-01	1.31E+00
11)	CE-144	3.11E-01	4.94E-01
12)	I-131	1.31E-01	2.08E-01

	Nuclide	Percentage	Curies
13)	C-14	1.11E-01	1.76E-01
14)	BA-140	8.44E-02	1.34E-01
15)	FE-59	8.38E-02	1.33E-01
16)	SR-90	4.80E-02	7.62E-02
17)	K-40	3.23E-02	5.13E-02
18)	SB-124	1.63E-02	2.59E-02
19)	CE-141	1.63E-02	2.58E-02
20)	ZR-95	1.49E-02	2.36E-02
21)	PU-241	9.58E-03	1.52E-02
22)	TC-99	8.88E-03	1.41E-02
23)	SR-89	5.38E-03	8.54E-03
24)	H-3	4.06E-03	6.44E-03
25)	NB-95	3.01E-03	4.78E-03
26)	AM-241	3.83E-04	6.08E-04
27)	Au-199	3.01E-04	4.77E-04
28)	CM-242	2.33E-04	3.70E-04
29)	CM-243	2.07E-04	3.29E-04
30)	CM-244	2.07E-04	3.28E-04
31)	LA-140	2.04E-04	3.23E-04
32)	PU-239	7.18E-05	1.14E-04
33)	PU-240	7.18E-05	1.14E-04
34)	PU-238	4.80E-05	7.62E-05
35)	I-133	3.19E-08	5.06E-08
36)	CU-64	4.89E-11	7.76E-11
37)	Zn-69m	1.98E-18	3.15E-18

The release of radioactive material to the environment from BFN has been a small fraction of the 10 CFR 20 Appendix B and 10 CFR 50 Appendix I limits. There were no limits exceeded as specified in 10 CFR 20 Appendix B and 10 CFR 50 Appendix I.

No abnormal gaseous releases occurred in 2010. Four abnormal liquid releases occurred in 2010. A leak to the Unit 2 station sump was detected on February 5, 2010 (Problem Evaluation Report (PER) 216389). An additional leak was detected to Unit 3 station sump on January 13, 2011 (PER 324700). The Unit 3 station sump sample analyzed on December 9, 2010 was clean but was used as the beginning period for the leak identified in 2011. A leak was detected from a valve near the top of Condensate Storage Tank (CST) 5 on April 7, 2010 (PER 224366 and PER 259224). This resulted in tritiated water from the tank flowing to the ground. A leak in a seal cooler resulted in an abnormal liquid release (PER 218437, PER 218814, and PER 228328) due to the Condensate system leaking into Raw Cooling Water (RCW). This leak was initially reported in the 2009 Annual Radioactive Effluent Release Report and was isolated and repaired in 2010. Each release is discussed in more detail below.

Samples of Units 1, 2, and 3 station sumps are analyzed monthly for contamination. Unit 2 station sump samples collected in February 2010 showed traces of both F-18 (5.3E-07 µCi/ml) and H-3 (1.9E-06 µCi/ml). H-3 (6.1E-06 µCi/ml initially and 1.5E-05 µCi/ml highest re-sample) was identified in a Unit 3 station sump sample taken in January 2011. Re-samples of Unit 3 station sump also indicated F-18 (1.35E-07 µCi/ml). Feedwater sample roughing coolers were leaking to the RCW that discharges to the station sumps. The station sumps discharge to the river. Both roughing coolers were isolated and the Unit 2 cooler was replaced. Total release for 2010 due to station sump discharge is estimated at F-18 (8.8E-03 Ci) and H-3 (1.2E-01 Ci). Both releases resulted in a small increase (<7E-07 mrem) in the calculated dose for 2010.

On April 7, 2010, a leak from a test valve located near the top of CST 5 was discovered flowing to the ground. The valve was later replaced with a blank flange. The estimated volume of the spill was 334 gallons. The ground affected by the spill was excavated; however, analyses of soil indicated trace amounts of tritium. Groundwater flow is to the river. Total release is estimated as 2.59E-03 Curies and a small increase (<5E-08 mrem) in the calculated dose for 2010.

On February 24, 2010, a leak in the 3B Injection Water Pump seal cooler was discovered. This leak from the Condensate system into the RCW constituted an abnormal release. The Injection Water Pump was isolated and the seal cooler repaired. A loss of inventory in the Unit 3 CST had been under investigation; however, the source of the loss had not been discovered until this time. An estimated flow of 12 gal/min (vendor estimate) over 58 days in 2010 resulted in a release of 7.97 Ci of H-3 and 3.81 Ci of F-18 (half-life 109 min). Negligible dose resulted from the F-18 activity due to it's short half-life. The total dose from this leak (4.0E-05 mrem) was a small fraction of the yearly limit of 3.0 mrem.

Ground Water Monitoring

Onsite groundwater monitoring locations were sampled during the year. These locations were not part of BFN Radiological Environmental Monitoring Program (REMP). The purpose of these shallow wells was to monitor for potential leaks from plant equipment. Trace levels of tritium were detected in several of these monitoring locations. BFN initiated a groundwater study to identify the source of the tritium. Results from a groundwater study completed in June 2006 suggest the source of the tritiated groundwater is associated with the Radwaste/Condensate Transfer tunnel. Water that may leak into the tunnel could egress via expansion joints and/or cracks through the tunnel wall. These joints and/or cracks were grouted

during 2008 with several more leaks grouted in 2010. The highest concentration identified in the groundwater for the year was 3748 pCi/L. Groundwater and surface water level measurements during the study indicated the return channel and subsequently the Tennessee River will ultimately be recipient to tritiated groundwater discharge from the site. The estimated groundwater/channel water dilution ratio is 1:20,000 at a rate of approximately 0.5 gpm. Increased monitoring was conducted during 2010 due to a leak of approximately 334 gallons of tritiated water to the ground from a valve near the top of CST 5 (this leak was reported as a part of the groundwater protection initiative). Tritium from this leak was included in Curie and dose calculations (see abnormal release summary above). The closest well to the leak site is the BH-25 well. This well indicated slight increases in tritium concentration several weeks after the leak and then decreased to less than detectable levels. The tritium concentrations obtained in 2010 from these non-REMP wells are listed below.

Well ID	Date	Activity in pCi/L
B25 (1309)	4/17/2010	349
B25 (1309)	4/18/2010	390
B25 (1309)	4/20/2010	501
B25 (1309)	4/21/2010	338
DEWAT A(1311)	4/22/2010	600
DEWAT E(1312)	4/22/2010	3461
B25 (1309)	4/23/2010	410
B25 (1309)	4/24/2010	804
B25 (1309)	4/25/2010	851
B25 (1309)	4/27/2010	660
B25 (1309)	4/29/2010	581
B25 (1309)	4/30/2010	310
B25 (1309)	5/1/2010	318
B25 (1309)	5/16/2010	305
B25 (1309)	7/8/2010	1002
B25 (1309)	7/22/2010	3399
B25 (1309)	8/5/2010	3748
B25 (1309)	8/13/2010	3179
B25 (1309)	8/27/2010	2750
B25 (1309)	9/7/2010	3596
B25 (1309)	9/22/2010	1748
B25 (1309)	10/5/2010	1593
B25 (1309)	10/19/2010	847
R-3 (1307)	10/20/2010	350
B25 (1309)	10/20/2010	1634
DEWAT A(1311)	10/20/2010	533
DEWAT E(1312)	10/20/2010	2500
CT (1308)	10/29/2010	291
B25 (1309)	11/2/2010	445
B25 (1309)	11/22/2010	923
B25 (1309)	11/30/2010	963
B25 (1309)	12/16/2010	399
B25 (1309)	12/30/2010	300

Missed Compensatory Samples

During the reporting period, January 1, 2010 through December 31, 2010, there were two missed compensatory samples. On May 10, 2010, 3-RM-90-250 (Reactor Building Ventilation Continuous Air Monitor (CAM)) was inoperable for a Design Change Notice replacement of the electronics. The ODCM requires a compensatory sample once per 8 hours and flow once per 4 hours. Both a sample and flow were due to be obtained at 1035 hours to meet the ODCM requirement. A flow was obtained at 0835 hours but the sample was not obtained due to an incorrect assumption that only the flow was due. The mistake was realized and the sample was taken at 1055 hours. The sample was 20 minutes late. No activity was found in the sample. (PER 229496)

On May 17, 2010, 2-RM-90-132 (Raw Cooling Water Effluent Radiation Monitor) was inoperable. Grab samples are required to be taken and analyzed at least every eight hours with the radiation monitor inoperable. At 1430 hours a sample was obtained to comply with the requirements of ODCM from 2B Reactor Building Closed Cooling Water (RBCCW) Heat Exchanger. The Chemistry Technician did not obtain a sample from 2A RBCCW Heat Exchanger as required. A sample was obtained at 2005 hours and no activity was identified. No activity was identified in samples obtained during the time of inoperability for the monitor (May 7, 2010 0930 hours - May 20, 2010 1107 hours). (PER 231204)

In addition, flow was found off during compensatory sampling of charcoal and particulate filters on 3-RM-90-250 CAM on May 21, 2010. Sample flow was obtained on May 21, 2010 at 0855 hours and found off on May 21, 2010 at 1130 hours. Sample flow was reestablished at 1135 hours. This resulted in a period of time without flow through the filters of less than one hour and forty minutes. No activity was identified in this set of filters. A review filter results prior to and after this set also indicated no activity. (PER 231119)

Liquid Radwaste or Temporary Storage Tanks

BFN does not have outside liquid radwaste or temporary storage tanks that can be discharged directly to the environs (Technical Requirements Manual 3.7.1).

Changes to the Radwaste System and Changes to the Process Control Program

In calendar year 2010, BFN had no changes to the radwaste system and no changes to the Process Control Program.

Enclosure 4

Browns Ferry Nuclear Plant
Units 1, 2, and 3

2010 Inoperable Radiological Effluent Instrumentation Report
January - December 2010

(See Attached)

2010 Inoperable Radiological Effluent Instrumentation Report

This report is to comply with Browns Ferry Nuclear Plant Offsite Dose Calculation Manual Sections 1/2.1.1 and 1/2.1.2. The ODCM requires the exertion of best efforts to return inoperable instruments to operable status within 30 days. Failure to return such instruments to an operable status within the prescribed interval requires a description in the Annual Radioactive Effluent Release Report.

During the reporting period, January 1, 2010 through December 31, 2010, there was one radioactive gaseous effluent monitoring instrument (Problem Evaluation Report (PER) 228335) and one liquid effluent monitoring instrument (PER 218672) out of service for greater than 30 days.

2-RM-90-133D, Unit 2, Loop I, Residual Heat Removal Service Water Effluent Radiation Monitor, was declared inoperable on January 21, 2010 at 1852 hours due to the control switch for the start signal not staying secured. A design change was issued for the obsolete switch, the switch was replaced and the monitor was returned to service on May 3, 2010 at 1600 hours.

3-RM-90-250, Unit 3 Reactor Building Ventilation Effluent Radiation Monitor, was declared inoperable on April 2, 2010 at 0853 hours due to sample pump low flow. The monitor was removed from service to perform a design change upgrade to the electronics. The sample pump was replaced during this upgrade and the monitor was returned to service on May 21, 2010 at 2333 hours.

Enclosure 5

Browns Ferry Nuclear Plant
Units 1, 2, and 3

2002 Abnormal Releases Addendum

(See Attached)

2002 Abnormal Releases Addendum

Release Type: Liquid

Release Point: 2A Reactor Feed Pump Injection Water Seal Cooler leak to River

Release Period: April 17, 2002 through August 23, 2002

This evaluation is for a liquid release to the river that occurred from 2A Feedwater Injection Water Pump Seal Cooler leak in 2002. This leak was discovered during a review of Problem Evaluation Reports during the Root Cause investigation of a leak from the 3B Feedwater Injection Water Pump Seal Cooler that was reported in the 2009 and 2010 Annual Radioactive Effluent Release Reports. The following is data used to determine the curies and dose impacts for the release period that occurred in 2002:

- Engineering provided flow rates based on testing of the seal cooler after repair (19 gpm).
- No Gamma Isotopic data was available for the time the leak occurred. Data was used from a similar leak that occurred on the 3A cooler in 2007 and the 3B leak that occurred in 2009-2010.
- Time frame for the leak was assumed to be from April 17, 2002 (Work Order 02-004174-000 was written on the cooler being clogged with sediment) until the cooler was isolated on August 23, 2002.

Quarter	H3	F-18	I-131	I-133	I-134	Rb-89	Cs-138	Xe-133	Xe-135
2	1.61E+01	1.06E+01	6.04E-04	3.58E-03	1.17E-02	3.94E-02	1.99E-02	1.30E-03	1.10E-02
3	1.18E+01	7.72E+00	4.41E-04	2.61E-03	8.56E-03	2.88E-02	1.45E-02	9.51E-04	8.10E-03

The activity of each radionuclide was added to the appropriate 2002 quarter and the dose impacts were determined and listed below. Due to the small percentage of the dose limit, the Annual Radiological Effluent Release Report was not amended. There were no liquid batch releases in 2002. There was one additional abnormal release that was reported in 2002 (station sump release to the river containing a small amount of F-18 and H-3).

2002 Abnormal Releases Addendum

2002 Second Quarter Dose Impacts

Age Group Revised	Organ Revised	Dose Pathway	2002 Reported Dose	2002 Corrected Dose	% of Limit
Child	**Total Body**	Fish Ingestion	0.0E+00	2.8E-06	<1%
		Recreation	0.0E+00	9.5E-08	<1%
		Water Ingestion	0.0E+00	2.2E-04	<1%
		Total	0.0E+00	2.2E-04	<1%
Child	**Kidney**	Fish Ingestion	0.0E+00	3.1E-06	<1%
		Recreation	0.0E+00	9.5E-08	<1%
		Water Ingestion	0.0E+00	2.2E-04	<1%
		Total	0.0E+00	2.2E-04	<1%
Infant	**Thyroid**	Fish Ingestion	0.0E+00	0.0E+00	<1%
		Recreation	0.0E+00	9.5E-08	<1%
		Water Ingestion	0.0E+00	5.3E-04	<1%
		Total	0.0E+00	5.3E-04	<1%

2002 Abnormal Releases Addendum

2002 Third Quarter Dose Impacts

Age Group Reported/Revised	Organ Reported/Revised	Dose Pathway	2002 Reported Dose	2002 Corrected Dose	% of Limit
Child/ Child	**Total Body/ Total Body**	Fish Ingestion	2.7E-08	2.5E-06	<1%
		Recreation	0.0E+00	8.3E-08	<1%
		Water Ingestion	2.2E-06	1.9E-04	<1%
		Total	2.2E-06	2.0E-04	<1%
Child/ Child	**Bone/ Kidney**	Fish Ingestion	2.7E-08	2.7E-06	<1%
		Recreation	0.0E+00	8.3E-08	<1%
		Water Ingestion	2.2E-06	1.9E-04	<1%
		Total	2.2E-06	2.0E-04	<1%
Child/ Infant	**Thyroid/ Thyroid**	Fish Ingestion	2.7E-08	0.0E+00	<1%
		Recreation	0.0E+00	8.3E-08	<1%
		Water Ingestion	2.2E-06	4.5E-04	<1%
		Total	2.2E-06	4.5E-04	<1%