



Tennessee Valley Authority, Post Office Box 2000, Decatur, Alabama 35609-2000

April 30, 2009

10 CFR 50.36a(a)(2)  
10 CFR 50, Appendix I,  
Section IV.B.1

U.S. Nuclear Regulatory Commission  
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Mail Stop: OWFN, P1-35  
Washington, D.C. 20555-0001

In the Matter of )  
Tennessee Valley Authority )

Docket Nos. 50-259  
50-260  
50-296

**BROWNS FERRY NUCLEAR PLANT (BFN) - UNITS 1, 2, AND 3 - ANNUAL  
RADIOACTIVE EFFLUENT RELEASE (ARER) REPORT - JANUARY THROUGH  
DECEMBER 2008**

In accordance with 10 CFR 50.36a(a)(2); 10 CFR 50, Appendix I, Section IV.B; and BFN Technical Specification (TS) 5.6.3, TVA is submitting the BFN ARER report for January through December 2008. Also, in accordance with the BFN Offsite Dose Calculation Manual (ODCM) Section 1.1.1, Action (b), and Section 1.1.2, Action (c), TVA is providing the BFN Inoperable Radioactive Effluent Instrumentation Report.

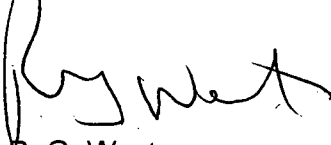
Enclosure 1 provides the Radiological Impact Assessment Report. Enclosure 2 provides the Meteorological Data Tables. Enclosure 3 is the Effluent and Waste Disposal Annual Report, and Enclosure 4 is the Inoperable Radiological Effluent Instrumentation Report. TVA revised the Offsite Dose Calculation Manual (ODCM) during calendar year 2008, as such; Enclosure 5 provides a brief description of the changes and Revision 19 of the ODCM.

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U.S. Nuclear Regulatory Commission  
Page 2  
April 30, 2009

There are no commitments contained within this letter. If you have any questions concerning this submittal, please contact Paul Sawyer, BFN Radiation Protection Manager at (256) 729-2490.

Sincerely,



R. G. West  
Site Vice President  
Browns Ferry Nuclear Plant

Enclosures

1. Radiological Impact Assessment Report
2. Meteorological Data Tables
3. Effluent and Waste Disposal Annual report
4. Inoperable Radiological Effluent Instrumentation Report
5. Revision 19 to the Offsite Dose Calculation Manual

U.S. Nuclear Regulatory Commission  
Page 3  
April 30, 2009

Enclosures

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**ENCLOSURE 1**

**TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT (BFN)  
UNITS 1, 2, AND 3**

**RADIOLOGICAL IMPACT ASSESSMENT REPORT  
JANUARY THROUGH DECEMBER 2008**

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**Radiological Impact Assessment  
Browns Ferry Nuclear Plant  
January - December 2008**

**I. INTRODUCTION**

Potential doses to the "maximum exposed individual" and the population around Browns Ferry 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 Browns Ferry.

**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:

$$\begin{aligned} &\leq 5 \text{ mrad per quarter and} \\ &\leq 10 \text{ mrad per year for gamma radiation.} \\ &\quad - \text{ and -} \\ &\leq 10 \text{ mrad per quarter and} \\ &\leq 20 \text{ mrad per year for beta radiation.} \end{aligned}$$

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:

$$\begin{aligned} &\leq 7.5 \text{ mrem per quarter and} \\ &\leq 15 \text{ mrem per year to any organ.} \end{aligned}$$

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

$$\begin{aligned} &\leq 1.5 \text{ mrem per quarter and} \\ &\leq 3 \text{ mrem per year to the total body,} \\ &\quad - \text{ and -} \\ &\leq 5 \text{ mrem per quarter and} \\ &\leq 10 \text{ mrem per year to any organ.} \end{aligned}$$

The limit for the total effective dose equivalent to an individual Member of the Public inside the site boundary is:

$$100 \text{ mrem per year.}$$

The EPA 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:

$$\begin{aligned} &\leq 25 \text{ mrem per year to the whole body,} \\ &\leq 75 \text{ mrem per year to the thyroid,} \\ &\quad - \text{ and -} \\ &\leq 25 \text{ mrem per year to any other organ.} \end{aligned}$$

**Radiological Impact Assessment  
Browns Ferry Nuclear Plant  
January - December 2008**

**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 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 Browns Ferry Nuclear Plant: 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 windspeeds 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 Tables 10, 11, 12, and 13.

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 Tables 14, 15, 16, 17, 18, 19, 20, and 21.

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 Tables 22, 23, 24, and 25.

**Radiological Impact Assessment  
Browns Ferry Nuclear Plant  
January - December 2008**

**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.

**Radiological Impact Assessment  
Browns Ferry Nuclear Plant  
January - December 2008**

**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 are 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 283.0.

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 Browns Ferry, 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 persons 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.



**Radiological Impact Assessment  
Browns Ferry Nuclear Plant  
January - December 2008**

**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 12.8 mrem/quarter at onsite (at or near the site boundary) stations and approximately 10.0 mrem/quarter at offsite stations or approximately 2.8 mrem/quarter higher onsite than at offsite stations. This difference is consistent with levels measured for pre-operation and construction phases of TVA 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. This review assumed that onsite TVA employees engaged in work activities not associated with nuclear power electric generation were considered as members of the public. 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 a TLD near the Livewell Center (Training Center). The direct radiation dose accounting for background and occupancy was 1.4 mrem during 2008.

The total annual dose commitment to the member of the public for 2008 is 1.4 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.

**Radiological Impact Assessment  
Browns Ferry Nuclear Plant  
January - December 2008**

**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 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 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.

**Radiological Impact Assessment  
Browns Ferry Nuclear Plant  
January - December 2008**

**Table 1  
Doses from Airborne Effluents  
First Quarter**

**Individual Doses**

Pathway	Dose	Quarterly Limit	Percent of Limit	Location
<b>External</b>				
Gamma Air	7.8E-11 mrad	5 mrad	< 1 %	NNW/1650 meters
Beta Air	2.4E-10 mrad	10 mrad	< 1 %	NNW/1650 meters
<b>Submersion</b>				
Total Body	4.7E-04 mrem	NA	NA	N/2000 meters
Skin	5.5E-04 mrem	NA	NA	N/2000 meters
<b>Organ Doses</b>				
Child/Bone	6.6E-03 mrem	7.5 mrem	< 1 %	N/2000 meters
Child/Thyroid	8.3E-03 mrem	7.5 mrem	< 1 %	N/2000 meters
Child/Total Body	6.4E-03 mrem	7.5 mrem	< 1 %	N/2000 meters

9.80E-04

**Population Doses**

Total Body Dose                      1.2E-02 man-rem

Maximum Organ Dose (organ)      1.8E-02 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).*

**Radiological Impact Assessment  
Browns Ferry Nuclear Plant  
January - December 2008**

**Table 2  
Doses from Airborne Effluents  
Second Quarter**

**Individual Doses**

<b>Pathway</b>	<b>Dose</b>	<b>Quarterly Limit</b>	<b>Percent of Limit</b>	<b>Location</b>
<b>External</b>				
Gamma Air	3.8E-11 mrad	5 mrad	< 1 %	SSE/2875 meters
Beta Air	1.2E-10 mrad	10 mrad	< 1 %	SSE/2875 meters
<b>Submersion</b>				
Total Body	1.7E-04 mrem	NA	NA	N/2000 meters
Skin	2.1E-04 mrem	NA	NA	N/2000 meters
<b>Organ Doses</b>				
Child/Bone	1.1E-02 mrem	7.5 mrem	< 1 %	N/2000 meters
Child/Thyroid	1.2E-02 mrem	7.5 mrem	< 1 %	N/2000 meters
Child/Total Body	1.0E-02 mrem	7.5 mrem	< 1 %	N/2000 meters

**Population Doses**

Total Body Dose                      3.1E-02 man-rem

Maximum Organ Dose (organ)    3.7E-02 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).*

**Radiological Impact Assessment  
Browns Ferry Nuclear Plant  
January - December 2008**

**Table 3  
Doses from Airborne Effluents  
Third Quarter**

**Individual Doses**

<b>Pathway</b>	<b>Dose</b>	<b>Quarterly Limit</b>	<b>Percent of Limit</b>	<b>Location</b>
<b>External</b>				
Gamma Air	4.6E-11 mrad	5 mrad	< 1 %	S/2250 meters
Beta Air	1.4E-10 mrad	10 mrad	< 1 %	S/2250 meters
<b>Submersion</b>				
Total Body	1.2E-05 mrem	NA	NA	E/1290 meters
Skin	1.4E-05 mrem	NA	NA	E/1290 meters
<b>Organ Doses</b>				
Child/Bone	7.6E-03 mrem	7.5 mrem	< 1 %	NNW/1791 meters
Child/Thyroid	8.6E-03 mrem	7.5 mrem	< 1 %	NNW/1791 meters
Child/Total Body	7.4E-03 mrem	7.5 mrem	< 1 %	NNW/1791 meters

**Population Doses**

Total Body Dose                      5.0E-02 man-rem

Maximum Organ Dose (organ)      5.7E-02 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).*

**Radiological Impact Assessment  
Browns Ferry Nuclear Plant  
January - December 2008**

**Table 4  
Doses from Airborne Effluents  
Fourth Quarter**

**Individual Doses**

<b>Pathway</b>	<b>Dose</b>	<b>Quarterly Limit</b>	<b>Percent of Limit</b>	<b>Location</b>
<b>External</b>				
Gamma Air	1.5E-11 mrad	5 mrad	< 1 %	SSW/2425 meters
Beta Air	4.7E-11 mrad	10 mrad	< 1 %	SSW/2425 meters
<b>Submersion</b>				
Total Body	2.0E-04 mrem	NA	NA	NNW/1639 meters
Skin	2.4E-04 mrem	NA	NA	NNW/1639 meters
<b>Organ Doses</b>				
Child/ Liver	7.3E-03 mrem	7.5 mrem	< 1 %	NNW/1791 meters
Child/Thyroid	7.8E-03 mrem	7.5 mrem	< 1 %	NNW/1791 meters
Child /Total Body	6.4E-03 mrem	7.5 mrem	< 1 %	NNW/1791 meters

**Population Doses**

Total Body Dose                      2.0E-02 man-rem

Maximum Organ Dose (organ)      2.6E-02 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).*

**Radiological Impact Assessment  
Browns Ferry Nuclear Plant  
January - December 2008**

**Table 5  
Doses from Liquid Effluents  
First Quarter\***

**Individual Doses (mrem)**

Age Group	Organ	Dose Pathway	Dose	Quarterly Limit	Percent of Limit
<b>Adult</b>	<b>Total Body</b>	Fish Ingestion	1.2E-03		
		Recreation	1.3E-04		
		Water Ingestion	4.3E-05		
		<b>Total</b>	<b>1.4E-03</b>	1.5 mrem	< 1 %
<b>Adult</b>	<b>Liver</b>	Fish Ingestion	1.7E-03		
		Recreation	1.3E-04		
		Water Ingestion	5.2E-05		
		<b>Total</b>	<b>1.9E-03</b>	5 mrem	< 1 %
<b>Child</b>	<b>Thyroid</b>	Fish Ingestion	3.6E-07		
		Recreation	1.3E-04		
		Water Ingestion	2.9E-05		
		<b>Total</b>	<b>1.6E-03</b>	5 mrem	< 1 %

Average Riverflow past BFN (cubic feet per second): 32513

**Population Doses**

Total Body Dose                      9.0E-03 man-rem

Maximum Organ Dose (organ)      1.5E-02 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.

**Radiological Impact Assessment  
Browns Ferry Nuclear Plant  
January - December 2008**

**Table 6  
Doses from Liquid Effluents  
Second Quarter\***

**Individual Doses (mrem)**

Age Group	Organ	Dose Pathway	Dose	Quarterly Limit	Percent of Limit
<b>Adult</b>	<b>Total Body</b>	Fish Ingestion	1.1E-03		
		Recreation	1.7E-04		
		Water Ingestion	8.8E-05		
		<b>Total</b>	<b>1.4E-03</b>	1.5 mrem	< 1 %
<b>Teen</b>	<b>Liver</b>	Fish Ingestion	1.7E-03		
		Recreation	1.7E-04		
		Water Ingestion	7.6E-05		
		<b>Total</b>	<b>2.0E-03</b>	5 mrem	< 1 %
<b>Child</b>	<b>Thyroid</b>	Fish Ingestion	1.1E-06		
		Recreation	1.7E-04		
		Water Ingestion	9.0E-05		
		<b>Total</b>	<b>2.6E-04</b>	5 mrem	< 1 %

Average Riverflow past BFN (cubic feet per second): 14255

**Population Doses**

Total Body Dose                      1.3E-02 man-rem

Maximum Organ Dose (organ)      1.8E-02 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.



**Radiological Impact Assessment  
Browns Ferry Nuclear Plant  
January - December 2008**

**Table 7  
Doses from Liquid Effluents  
Third Quarter\***

**Individual Doses (mrem)**

Age Group	Organ	Dose Pathway	Dose	Quarterly Limit	Percent of Limit
<b>Adult</b>	<b>Total Body</b>	Fish Ingestion	4.8E-05		
		Recreation	1.0E-05		
		Water Ingestion	2.0E-06		
		<b>Total</b>	<b>6.0E-05</b>	1.5 mrem	< 1 %
<b>Teen</b>	<b>Liver</b>	Fish Ingestion	7.3E-05		
		Recreation	1.0E-05		
		Water Ingestion	2.0E-06		
		<b>Total</b>	<b>8.5E-05</b>	5 mrem	< 1 %
<b>Adult</b>	<b>Thyroid</b>	Fish Ingestion	1.8E-08		
		Recreation	1.0E-05		
		Water Ingestion	1.4E-06		
		<b>Total</b>	<b>1.1E-05</b>	5 mrem	< 1 %

Average Riverflow past BFN (cubic feet per second): 18029

**Population Doses**

Total Body Dose                      7.7E-04 man-rem

Maximum Organ Dose (organ)      1.0E-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.

**Radiological Impact Assessment  
Browns Ferry Nuclear Plant  
January - December 2008**

**Table 8  
Doses from Liquid Effluents  
Fourth Quarter\***

**Individual Doses (mrem)**

Age Group	Organ	Dose Pathway	Dose	Quarterly Limit	Percent of Limit
<b>Adult</b>	<b>Total Body</b>	Fish Ingestion	8.5E-04		
		Recreation	1.0E-04		
		Water Ingestion	3.0E-05		
		<b>Total</b>	<b>9.8E-04</b>	1.5 mrem	< 1 %
<b>Adult</b>	<b>Liver</b>	Fish Ingestion	1.3E-03		
		Recreation	1.0E-04		
		Water Ingestion	3.7E-05		
		<b>Total</b>	<b>1.4E-03</b>	5 mrem	< 1 %
<b>Adult</b>	<b>Thyroid</b>	Fish Ingestion	3.8E-07		
		Recreation	1.0E-04		
		Water Ingestion	1.4E-05		
		<b>Total</b>	<b>1.1E-04</b>	5 mrem	< 1 %

Average Riverflow past BFN (cubic feet per second): 29719

**Population Doses**

Total Body Dose                      7.6E-03 man-rem

Maximum Organ Dose (organ)      1.2E-02 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.

**Radiological Impact Assessment  
Browns Ferry Nuclear Plant  
January - December 2008**

**Table 9  
Total Dose from Fuel Cycle**

<b>Dose</b>	<b>First Quarter</b>	<b>Second Quarter</b>	<b>Third Quarter</b>	<b>Fourth Quarter</b>	
<b>Total Body or any Organ (except thyroid)</b>					
Total body air submersion	4.7E-04	1.7E-04	1.2E-05	2.0E-04	
Critical organ dose (air)	6.6E-03	1.1E-02	7.6E-03	7.3E-03	
Total body dose (liquid)	1.4E-03	1.4E-03	6.0E-05	9.8E-04	
Maximum organ dose (liquid)	1.9E-03	2.0E-03	8.5E-05	1.4E-03	
Direct Radiation Dose	0	0	0	0	
<b>Total</b>	<b>1.0E-02</b>	<b>1.5E-02</b>	<b>7.8E-03</b>	<b>9.9E-03</b>	
<b>Cumulative Total Dose (mrem) (Total body or any other organ)</b>					<b>4.3E-02</b>
<b>Annual Dose Limit (mrem)</b>					<b>2.5E+01</b>
<b>Percent of Limit</b>					<b>&lt; 1 %</b>
<b>Thyroid Dose (mrem)</b>					
Total body air submersion	4.7E-04	1.7E-04	1.2E-05	2.0E-04	
Thyroid dose (airborne)	8.3E-03	1.2E-02	8.6E-03	7.8E-03	
Total body dose (liquid)	1.4E-03	1.4E-03	6.0E-05	9.8E-04	
Thyroid dose (liquid)	1.6E-03	2.6E-04	1.1E-05	1.1E-04	
Direct Radiation Dose	0	0	0	0	
<b>Total</b>	<b>1.2E-02</b>	<b>1.4E-02</b>	<b>8.7E-03</b>	<b>9.1E-03</b>	
<b>Cumulative Total Dose (Thyroid) mrem</b>					<b>4.3E-02</b>
<b>Annual Dose Limit (mrem)</b>					<b>7.5E+01</b>
<b>Percent of Limit</b>					<b>&lt; 1 %</b>

**ENCLOSURE 2**

**TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT (BFN)  
UNITS 1, 2, AND 3**

**METEOROLOGICAL DATA TABLES  
JANUARY THROUGH DECEMBER 2008**

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**METEOROLOGICAL DATA TABLES**

**BROWNS FERRY NUCLEAR PLANT**

**JANUARY – DECEMBER 2008**

**TABLE 10**

**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<=-1.9 C/100 M)

Browns Ferry Nuclear Plant

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.047	0.189	0.000	0.000	0.000	0.236
NNE	0.000	0.000	0.000	0.000	0.047	0.236	0.000	0.000	0.000	0.283
NE	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.047
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	0.614	0.283	0.000	0.000	0.000	0.000	0.897
SSE	0.000	0.000	0.047	0.236	0.000	0.000	0.000	0.000	0.000	0.283
S	0.000	0.000	0.094	0.567	0.142	0.000	0.000	0.000	0.000	0.803
SSW	0.000	0.000	0.000	0.142	0.000	0.000	0.000	0.000	0.000	0.142
SW	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
WSW	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.047
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	0.047	0.000	0.000	0.000	0.047
NW	0.000	0.000	0.000	0.000	0.000	0.142	0.094	0.000	0.000	0.236
NNW	0.000	0.000	0.000	0.000	0.000	0.236	0.047	0.000	0.000	0.283
SUBTOTAL	0.000	0.000	0.142	1.606	0.520	0.945	0.142	0.000	0.000	3.354

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2162
TOTAL HOURS OF STABILITY CLASS A	72
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	71
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2117
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: 2008/05/05

MEAN WIND SPEED = 6.61

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < DELTA T <= -1.7 C/100 M)

Browns Ferry Nuclear Plant

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.047	0.189	0.142	0.000	0.000	0.000	0.378
NNE	0.000	0.000	0.000	0.000	0.047	0.047	0.000	0.000	0.000	0.094
NE	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.047
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	0.047	0.000	0.000	0.000	0.000	0.047
SE	0.000	0.000	0.000	0.236	0.000	0.000	0.000	0.000	0.000	0.236
SSE	0.000	0.000	0.094	0.189	0.000	0.000	0.000	0.000	0.000	0.283
S	0.000	0.000	0.047	0.094	0.000	0.000	0.000	0.000	0.000	0.142
SSW	0.000	0.000	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.094
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	0.047	0.000	0.000	0.000	0.047
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	0.094	0.236	0.000	0.000	0.331
NW	0.000	0.000	0.000	0.000	0.000	0.425	0.094	0.000	0.000	0.520
NNW	0.000	0.000	0.000	0.000	0.000	0.472	0.094	0.000	0.000	0.567
SUBTOTAL	0.000	0.000	0.189	0.614	0.283	1.323	0.425	0.000	0.000	2.834

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2162  
 TOTAL HOURS OF STABILITY CLASS B 62  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 60  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2117  
 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: 2008/05/05

MEAN WIND SPEED = 8.52

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 <= -1.5 C/100 M)

Browns Ferry Nuclear Plant

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.047	0.094	0.047	0.000	0.000	0.000	0.189
NNE	0.000	0.000	0.000	0.047	0.094	0.000	0.000	0.000	0.000	0.142
NE	0.000	0.000	0.000	0.047	0.047	0.000	0.000	0.000	0.000	0.094
ENE	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
E	0.000	0.000	0.000	0.047	0.047	0.000	0.000	0.000	0.000	0.094
ESE	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.047
SE	0.000	0.000	0.142	0.425	0.047	0.047	0.000	0.000	0.000	0.661
SSE	0.000	0.000	0.236	0.142	0.000	0.000	0.000	0.000	0.000	0.378
S	0.000	0.000	0.094	0.047	0.000	0.000	0.000	0.000	0.000	0.142
SSW	0.000	0.000	0.142	0.047	0.047	0.000	0.000	0.000	0.000	0.236
SW	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
WSW	0.000	0.000	0.000	0.047	0.047	0.236	0.000	0.000	0.000	0.331
W	0.000	0.000	0.000	0.047	0.000	0.236	0.000	0.000	0.000	0.283
WNW	0.000	0.000	0.000	0.000	0.047	0.189	0.472	0.000	0.000	0.709
NW	0.000	0.000	0.000	0.000	0.047	0.283	0.283	0.000	0.000	0.614
NNW	0.000	0.000	0.000	0.047	0.000	0.661	0.047	0.000	0.000	0.756
SUBTOTAL	0.000	0.000	0.614	1.086	0.567	1.701	0.803	0.000	0.000	4.771

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2162  
 TOTAL HOURS OF STABILITY CLASS C 103  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 101  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2117  
 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: 2008/05/05

MEAN WIND SPEED = 8.16

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS



JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < DELTA T <= -0.5 C/100 M)

Browns Ferry Nuclear Plant

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.189	0.331	0.567	0.189	0.000	0.000	0.000	1.275
NNE	0.000	0.000	0.142	0.567	0.850	0.425	0.000	0.000	0.000	1.984
NE	0.000	0.000	0.047	0.425	0.850	0.378	0.000	0.000	0.000	1.701
ENE	0.000	0.000	0.236	0.425	0.047	0.000	0.000	0.000	0.000	0.709
E	0.000	0.000	0.142	0.945	0.142	0.000	0.000	0.000	0.000	1.228
ESE	0.000	0.000	0.142	0.520	0.661	0.189	0.047	0.000	0.000	1.559
SE	0.000	0.000	0.567	0.945	0.331	0.000	0.000	0.000	0.000	1.842
SSE	0.000	0.000	1.039	0.236	0.000	0.000	0.000	0.000	0.000	1.275
S	0.000	0.000	0.945	0.803	0.425	0.047	0.000	0.000	0.000	2.220
SSW	0.000	0.000	0.567	0.425	0.142	0.094	0.000	0.000	0.000	1.228
SW	0.000	0.047	0.236	0.236	0.189	0.000	0.000	0.000	0.000	0.709
WSW	0.000	0.000	0.567	0.614	0.094	0.094	0.000	0.000	0.000	1.370
W	0.000	0.000	0.189	1.181	0.897	1.086	0.661	0.000	0.000	4.015
WNW	0.000	0.000	0.047	0.331	0.897	1.559	1.039	0.283	0.047	4.204
NW	0.000	0.000	0.189	0.661	1.134	2.976	2.692	0.472	0.047	8.172
NNW	0.000	0.000	0.189	0.614	0.425	1.559	0.803	0.000	0.000	3.590
SUBTOTAL	0.000	0.047	5.432	9.258	7.652	8.597	5.243	0.756	0.094	37.081

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2162
TOTAL HOURS OF STABILITY CLASS D	803
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	785
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2117
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: 2008/05/05

MEAN WIND SPEED = 7.69

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<= 1.5 C/100 M)

Browns Ferry Nuclear Plant

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.047	0.567	0.567	0.331	0.047	0.000	0.000	0.000	1.559
NNE	0.000	0.000	0.283	0.331	0.283	0.283	0.000	0.000	0.000	1.181
NE	0.000	0.142	0.142	0.756	0.189	0.236	0.000	0.000	0.000	1.464
ENE	0.000	0.000	0.425	0.236	0.283	0.094	0.000	0.000	0.000	1.039
E	0.000	0.047	0.236	0.520	0.094	0.000	0.000	0.000	0.000	0.897
ESE	0.000	0.000	0.472	0.661	0.047	0.094	0.000	0.000	0.000	1.275
SE	0.000	0.094	1.039	0.378	0.283	0.000	0.000	0.000	0.000	1.795
SSE	0.000	0.142	1.842	0.520	0.047	0.000	0.000	0.000	0.000	2.551
S	0.000	0.000	0.945	2.409	1.937	1.086	0.000	0.000	0.000	6.377
SSW	0.000	0.047	0.425	0.520	0.756	0.331	0.047	0.000	0.000	2.126
SW	0.000	0.000	0.142	0.094	0.142	0.000	0.000	0.000	0.000	0.378
WSW	0.000	0.094	0.378	0.142	0.000	0.094	0.000	0.000	0.000	0.709
W	0.000	0.094	0.709	0.283	0.236	0.189	0.047	0.000	0.000	1.559
WNW	0.000	0.047	0.142	0.094	0.142	0.047	0.000	0.047	0.000	0.520
NW	0.000	0.047	0.189	0.614	0.189	0.614	0.000	0.000	0.000	1.653
NNW	0.000	0.000	0.945	0.897	0.803	0.614	0.000	0.000	0.000	3.259
SUBTOTAL	0.000	0.803	8.880	9.022	5.763	3.732	0.094	0.047	0.000	28.342

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2162  
 TOTAL HOURS OF STABILITY CLASS E 610  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 600  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2117  
 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: 2008/05/05

MEAN WIND SPEED = 4.76

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F ( 1.5< DELTA T<= 4.0 C/100 M)

Browns Ferry Nuclear Plant

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.047	0.661	0.189	0.094	0.000	0.000	0.000	0.000	0.992
NNE	0.000	0.047	0.331	0.047	0.047	0.000	0.000	0.000	0.000	0.472
NE	0.000	0.000	0.236	0.094	0.000	0.000	0.000	0.000	0.000	0.331
ENE	0.000	0.000	0.378	0.142	0.000	0.000	0.000	0.000	0.000	0.520
E	0.000	0.047	0.992	0.189	0.000	0.000	0.000	0.000	0.000	1.228
ESE	0.000	0.189	0.992	0.094	0.000	0.000	0.000	0.000	0.000	1.275
SE	0.000	0.236	0.614	0.520	0.094	0.000	0.000	0.000	0.000	1.464
SSE	0.000	0.425	1.039	0.142	0.142	0.000	0.000	0.000	0.000	1.748
S	0.000	0.189	1.134	1.937	0.945	0.520	0.000	0.000	0.000	4.724
SSW	0.000	0.047	0.189	0.047	0.142	0.047	0.000	0.000	0.000	0.472
SW	0.000	0.094	0.189	0.000	0.000	0.000	0.000	0.000	0.000	0.283
WSW	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047
W	0.000	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.094
WNW	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.094
NW	0.000	0.000	0.331	0.000	0.000	0.000	0.000	0.000	0.000	0.331
NNW	0.000	0.047	0.378	0.142	0.047	0.000	0.000	0.000	0.000	0.614
SUBTOTAL	0.000	1.464	7.605	3.543	1.512	0.567	0.000	0.000	0.000	14.691

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2162
TOTAL HOURS OF STABILITY CLASS F	317
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	311
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2117
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: 2008/05/05

MEAN WIND SPEED = 3.37

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Browns Ferry Nuclear Plant

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.236	0.047	0.000	0.000	0.000	0.000	0.000	0.283
NNE	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047
NE	0.000	0.047	0.283	0.047	0.000	0.000	0.000	0.000	0.000	0.378
ENE	0.000	0.094	0.189	0.047	0.000	0.000	0.000	0.000	0.000	0.331
E	0.000	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.094
ESE	0.000	0.094	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.142
SE	0.000	0.331	0.425	0.142	0.000	0.000	0.000	0.000	0.000	0.897
SSE	0.000	0.283	2.598	0.236	0.000	0.000	0.000	0.000	0.000	3.118
S	0.000	0.142	1.512	1.086	0.236	0.000	0.000	0.000	0.000	2.976
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.094
WSW	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.047	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.142
NW	0.000	0.094	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.142
NNW	0.000	0.094	0.094	0.047	0.000	0.000	0.000	0.000	0.000	0.236
SUBTOTAL	0.000	1.323	5.668	1.701	0.236	0.000	0.000	0.000	0.000	8.928

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2162
TOTAL HOURS OF STABILITY CLASS G	195
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	189
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2117
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: 2008/05/05

MEAN WIND SPEED = 2.54

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**METEOROLOGICAL DATA TABLES**

**BROWNS FERRY NUCLEAR PLANT**

**JANUARY – DECEMBER 2008**

**TABLE 11**

**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<=-1.9 C/100 M)

Browns Ferry Nuclear Plant

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.138	0.230	0.000	0.000	0.000	0.368
NNE	0.000	0.000	0.000	0.000	0.092	0.092	0.000	0.000	0.000	0.184
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	0.184	0.000	0.000	0.000	0.000	0.000	0.184
SE	0.000	0.000	0.138	0.737	0.000	0.000	0.000	0.000	0.000	0.875
SSE	0.000	0.000	0.783	0.092	0.000	0.000	0.000	0.000	0.000	0.875
S	0.000	0.000	0.783	0.737	0.000	0.000	0.000	0.000	0.000	1.519
SSW	0.000	0.000	0.599	0.829	0.000	0.000	0.000	0.000	0.000	1.427
SW	0.000	0.000	0.000	0.322	0.000	0.000	0.000	0.000	0.000	0.322
WSW	0.000	0.000	0.000	0.276	0.092	0.046	0.000	0.000	0.000	0.414
W	0.000	0.000	0.000	0.046	0.230	0.230	0.092	0.000	0.000	0.599
WNW	0.000	0.000	0.000	0.000	0.046	0.184	0.322	0.092	0.000	0.645
NW	0.000	0.000	0.000	0.000	0.046	0.138	0.184	0.000	0.000	0.368
NNW	0.000	0.000	0.000	0.000	0.092	0.737	0.184	0.000	0.000	1.013
SUBTOTAL	0.000	0.000	2.302	3.223	0.737	1.703	0.783	0.092	0.000	8.840

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2172  
 TOTAL HOURS OF STABILITY CLASS A 192  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 192  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2172  
 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: 2008/08/04

MEAN WIND SPEED = 6.11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < DELTA T <= -1.7 C/100 M)

Browns Ferry Nuclear Plant

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.092	0.092	0.000	0.000	0.000	0.184
NNE	0.000	0.000	0.000	0.000	0.138	0.046	0.000	0.000	0.000	0.184
NE	0.000	0.000	0.000	0.046	0.046	0.046	0.000	0.000	0.000	0.138
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	0.138	0.368	0.000	0.000	0.000	0.000	0.000	0.506
SSE	0.000	0.000	0.138	0.184	0.000	0.000	0.000	0.000	0.000	0.322
S	0.000	0.000	0.230	0.184	0.000	0.000	0.000	0.000	0.000	0.414
SSW	0.000	0.000	0.184	0.460	0.092	0.000	0.000	0.000	0.000	0.737
SW	0.000	0.000	0.000	0.322	0.000	0.000	0.000	0.000	0.000	0.322
WSW	0.000	0.000	0.000	0.368	0.276	0.046	0.000	0.000	0.000	0.691
W	0.000	0.000	0.000	0.046	0.276	0.230	0.046	0.000	0.000	0.599
WNW	0.000	0.000	0.000	0.000	0.092	0.691	0.184	0.046	0.000	1.013
NW	0.000	0.000	0.000	0.000	0.046	0.276	0.046	0.000	0.000	0.368
NNW	0.000	0.000	0.000	0.000	0.092	0.138	0.000	0.000	0.000	0.230
SUBTOTAL	0.000	0.000	0.691	1.980	1.151	1.565	0.276	0.046	0.000	5.709

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2172
TOTAL HOURS OF STABILITY CLASS B	124
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	124
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2172
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: 2008/08/04

MEAN WIND SPEED = 6.54

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 <= -1.5 C/100 M)

Browns Ferry Nuclear Plant

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.046	0.138	0.046	0.000	0.000	0.000	0.230
NNE	0.000	0.000	0.000	0.046	0.046	0.046	0.000	0.000	0.000	0.138
NE	0.000	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.092
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	0.046	0.092	0.000	0.000	0.000	0.000	0.000	0.138
SE	0.000	0.000	0.046	0.368	0.000	0.000	0.000	0.000	0.000	0.414
SSE	0.000	0.000	0.322	0.092	0.000	0.000	0.000	0.000	0.000	0.414
S	0.000	0.000	0.276	0.184	0.000	0.000	0.000	0.000	0.000	0.460
SSW	0.000	0.000	0.322	0.230	0.046	0.000	0.000	0.000	0.000	0.599
SW	0.000	0.000	0.230	0.276	0.000	0.000	0.000	0.000	0.000	0.506
WSW	0.000	0.000	0.092	0.322	0.184	0.000	0.000	0.000	0.000	0.599
W	0.000	0.000	0.000	0.322	0.138	0.092	0.092	0.000	0.000	0.645
WNW	0.000	0.000	0.000	0.000	0.184	0.414	0.138	0.092	0.000	0.829
NW	0.000	0.000	0.000	0.000	0.184	0.230	0.046	0.000	0.000	0.460
NNW	0.000	0.000	0.000	0.000	0.138	0.230	0.000	0.000	0.000	0.368
SUBTOTAL	0.000	0.000	1.335	1.980	1.105	1.105	0.276	0.092	0.000	5.893

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2172  
 TOTAL HOURS OF STABILITY CLASS C 128  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 128  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2172  
 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: 2008/08/04

MEAN WIND SPEED = 6.03

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS



JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5< DELTA T<=-0.5 C/100 M)

Browns Ferry Nuclear Plant

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.322	0.460	0.460	0.276	0.000	0.000	0.000	1.519
NNE	0.000	0.000	0.276	0.506	0.322	0.599	0.000	0.000	0.000	1.703
NE	0.000	0.000	0.276	0.460	0.092	0.046	0.000	0.000	0.000	0.875
ENE	0.000	0.000	0.276	0.276	0.000	0.046	0.000	0.000	0.000	0.599
E	0.000	0.000	0.322	0.368	0.046	0.000	0.000	0.000	0.000	0.737
ESE	0.000	0.000	0.506	0.599	0.046	0.000	0.000	0.000	0.000	1.151
SE	0.000	0.000	1.473	0.691	0.046	0.000	0.000	0.000	0.000	2.210
SSE	0.000	0.000	1.335	0.322	0.000	0.000	0.000	0.000	0.000	1.657
S	0.000	0.000	1.703	0.737	0.046	0.000	0.000	0.000	0.000	2.486
SSW	0.000	0.046	1.519	0.967	0.092	0.000	0.000	0.000	0.000	2.624
SW	0.000	0.000	0.875	0.276	0.000	0.000	0.000	0.000	0.000	1.151
WSW	0.000	0.046	1.335	1.105	0.414	0.092	0.000	0.000	0.000	2.993
W	0.000	0.000	0.552	1.427	0.921	0.783	0.092	0.000	0.000	3.775
WNW	0.000	0.000	0.276	0.599	0.645	0.691	0.276	0.138	0.000	2.624
NW	0.000	0.000	0.092	0.460	0.322	1.151	0.368	0.000	0.000	2.394
NNW	0.000	0.000	0.276	0.184	0.276	0.829	0.092	0.000	0.000	1.657
SUBTOTAL	0.000	0.092	11.418	9.438	3.729	4.512	0.829	0.138	0.000	30.157

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2172  
 TOTAL HOURS OF STABILITY CLASS D 655  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 655  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2172  
 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: 2008/08/04

MEAN WIND SPEED = 4.97

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 <= 1.5 C/100 M)

Browns Ferry Nuclear Plant

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.092	0.414	0.414	0.368	0.046	0.000	0.000	0.000	1.335
NNE	0.000	0.184	0.322	0.368	0.276	0.092	0.000	0.000	0.000	1.243
NE	0.000	0.138	0.414	0.184	0.230	0.046	0.000	0.000	0.000	1.013
ENE	0.000	0.460	0.691	0.184	0.184	0.000	0.000	0.000	0.000	1.519
E	0.000	0.138	1.059	0.460	0.000	0.000	0.000	0.000	0.000	1.657
ESE	0.000	0.322	1.888	1.105	0.322	0.000	0.000	0.000	0.000	3.637
SE	0.000	0.322	1.105	0.414	0.046	0.046	0.000	0.000	0.000	1.934
SSE	0.000	0.092	1.381	0.046	0.000	0.000	0.000	0.000	0.000	1.519
S	0.000	0.230	2.348	0.737	0.645	0.138	0.000	0.000	0.000	4.098
SSW	0.000	0.414	2.762	0.552	0.230	0.046	0.000	0.000	0.000	4.006
SW	0.000	0.184	0.599	0.046	0.000	0.000	0.000	0.000	0.000	0.829
WSW	0.000	0.184	0.599	0.368	0.138	0.092	0.000	0.000	0.000	1.381
W	0.000	0.046	0.967	0.184	0.000	0.138	0.000	0.000	0.000	1.335
WNW	0.000	0.092	0.184	0.000	0.092	0.184	0.000	0.000	0.000	0.552
NW	0.000	0.092	0.184	0.230	0.322	0.322	0.000	0.000	0.000	1.151
NNW	0.000	0.092	0.599	0.552	0.276	0.322	0.000	0.000	0.000	1.842
SUBTOTAL	0.000	3.085	15.516	5.847	3.131	1.473	0.000	0.000	0.000	29.052

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2172
TOTAL HOURS OF STABILITY CLASS E	631
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	631
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2172
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: 2008/08/04

MEAN WIND SPEED = 3.36

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F ( 1.5< DELTA T<= 4.0 C/100 M)

Browns Ferry Nuclear Plant

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.005	0.092	0.829	0.414	0.000	0.000	0.000	0.000	0.000	1.340
NNE	0.004	0.322	0.322	0.092	0.000	0.000	0.000	0.000	0.000	0.740
NE	0.003	0.276	0.184	0.000	0.092	0.000	0.000	0.000	0.000	0.555
ENE	0.006	0.460	0.552	0.230	0.000	0.000	0.000	0.000	0.000	1.249
E	0.006	0.138	0.875	0.322	0.046	0.000	0.000	0.000	0.000	1.387
ESE	0.005	0.322	0.506	0.092	0.000	0.000	0.000	0.000	0.000	0.925
SE	0.002	0.230	0.092	0.092	0.000	0.000	0.000	0.000	0.000	0.416
SSE	0.002	0.046	0.322	0.000	0.000	0.000	0.000	0.000	0.000	0.370
S	0.005	0.230	0.599	0.046	0.230	0.000	0.000	0.000	0.000	1.110
SSW	0.003	0.184	0.276	0.046	0.000	0.000	0.000	0.000	0.000	0.509
SW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
WSW	0.001	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.093
W	0.001	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.093
WNW	0.000	0.000	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.092
NW	0.002	0.092	0.230	0.000	0.046	0.000	0.000	0.000	0.000	0.370
NNW	0.006	0.184	0.829	0.092	0.046	0.000	0.000	0.000	0.000	1.157
SUBTOTAL	0.046	2.624	5.801	1.427	0.460	0.092	0.000	0.000	0.000	10.451

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2172  
 TOTAL HOURS OF STABILITY CLASS F 227  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 227  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2172  
 TOTAL HOURS CALM 1

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: 2008/08/04

MEAN WIND SPEED = 2.53

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Browns Ferry Nuclear Plant

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	1.013	1.381	0.368	0.000	0.000	0.000	0.000	0.000	2.762
NNE	0.000	0.460	0.921	0.046	0.000	0.000	0.000	0.000	0.000	1.427
NE	0.000	0.092	0.599	0.000	0.000	0.000	0.000	0.000	0.000	0.691
ENE	0.000	0.276	0.645	0.092	0.000	0.000	0.000	0.000	0.000	1.013
E	0.000	0.184	0.460	0.138	0.000	0.000	0.000	0.000	0.000	0.783
ESE	0.000	0.092	0.138	0.000	0.000	0.000	0.000	0.000	0.000	0.230
SE	0.000	0.138	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.230
SSE	0.000	0.092	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.138
S	0.000	0.138	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.184
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	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
W	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.230	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.276
NNW	0.000	1.473	0.506	0.092	0.000	0.000	0.000	0.000	0.000	2.072
SUBTOTAL	0.000	4.236	4.926	0.737	0.000	0.000	0.000	0.000	0.000	9.899

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2172
TOTAL HOURS OF STABILITY CLASS G	215
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	215
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2172
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: 2008/08/04

MEAN WIND SPEED = 1.86

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**METEOROLOGICAL DATA TABLES**

**BROWNS FERRY NUCLEAR PLANT**

**JANUARY – DECEMBER 2008**

**TABLE 12**

**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<=-1.9 C/100 M)

Browns Ferry Nuclear Plant

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.048	0.048	0.581	0.000	0.000	0.000	0.678
NNE	0.000	0.000	0.000	0.048	0.048	0.291	0.000	0.000	0.000	0.388
NE	0.000	0.000	0.000	0.000	0.000	0.194	0.048	0.000	0.000	0.242
ENE	0.000	0.000	0.000	0.000	0.048	0.097	0.000	0.000	0.000	0.145
E	0.000	0.000	0.000	0.145	0.048	0.000	0.000	0.000	0.000	0.194
ESE	0.000	0.000	0.097	0.388	0.484	0.145	0.000	0.000	0.000	1.114
SE	0.000	0.000	0.097	0.969	0.097	0.000	0.000	0.000	0.000	1.163
SSE	0.000	0.000	0.872	0.824	0.000	0.000	0.000	0.000	0.000	1.696
S	0.000	0.000	0.727	0.630	0.000	0.000	0.000	0.000	0.000	1.357
SSW	0.000	0.000	0.097	0.339	0.000	0.000	0.000	0.000	0.000	0.436
SW	0.000	0.000	0.145	0.388	0.000	0.000	0.000	0.000	0.000	0.533
WSW	0.000	0.000	0.000	0.484	0.048	0.000	0.000	0.000	0.000	0.533
W	0.000	0.000	0.000	0.339	0.630	0.194	0.000	0.000	0.000	1.163
WNW	0.000	0.000	0.000	0.097	0.388	0.291	0.000	0.000	0.000	0.775
NW	0.000	0.000	0.000	0.048	0.097	0.242	0.000	0.000	0.000	0.388
NNW	0.000	0.000	0.000	0.145	0.097	0.581	0.048	0.000	0.000	0.872
SUBTOTAL	0.000	0.000	2.035	4.893	2.035	2.616	0.097	0.000	0.000	11.676

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2064
TOTAL HOURS OF STABILITY CLASS A	241
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	241
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2064
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: 2008/11/19

MEAN WIND SPEED = 5.53

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < DELTA T <= -1.7 C/100 M)

Browns Ferry Nuclear Plant

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.194	0.048	0.097	0.000	0.000	0.000	0.339
NNE	0.000	0.000	0.000	0.145	0.242	0.048	0.000	0.000	0.000	0.436
NE	0.000	0.000	0.000	0.000	0.097	0.097	0.000	0.000	0.000	0.194
ENE	0.000	0.000	0.000	0.097	0.048	0.000	0.000	0.000	0.000	0.145
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	0.339	0.194	0.000	0.000	0.000	0.000	0.581
SE	0.000	0.000	0.145	0.194	0.000	0.000	0.000	0.000	0.000	0.339
SSE	0.000	0.000	0.388	0.291	0.000	0.000	0.000	0.000	0.000	0.678
S	0.000	0.000	0.242	0.048	0.000	0.000	0.000	0.000	0.000	0.291
SSW	0.000	0.000	0.291	0.291	0.000	0.000	0.000	0.000	0.000	0.581
SW	0.000	0.000	0.145	0.194	0.000	0.000	0.000	0.000	0.000	0.339
WSW	0.000	0.000	0.048	0.339	0.000	0.000	0.000	0.000	0.000	0.388
W	0.000	0.000	0.048	0.436	0.194	0.048	0.000	0.000	0.000	0.727
WNW	0.000	0.000	0.048	0.000	0.291	0.194	0.000	0.000	0.000	0.533
NW	0.000	0.000	0.048	0.097	0.048	0.097	0.048	0.000	0.000	0.339
NNW	0.000	0.000	0.000	0.048	0.000	0.097	0.000	0.000	0.000	0.145
SUBTOTAL	0.000	0.000	1.453	2.762	1.163	0.678	0.048	0.000	0.000	6.105

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2064  
 TOTAL HOURS OF STABILITY CLASS B 126  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 126  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2064  
 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: 2008/11/19

MEAN WIND SPEED = 4.97

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 <= -1.5 C/100 M)

Browns Ferry Nuclear Plant

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.097	0.242	0.097	0.000	0.000	0.000	0.436
NNE	0.000	0.000	0.000	0.194	0.097	0.048	0.000	0.000	0.000	0.339
NE	0.000	0.000	0.000	0.145	0.048	0.000	0.000	0.000	0.000	0.194
ENE	0.000	0.000	0.048	0.048	0.097	0.097	0.000	0.000	0.000	0.291
E	0.000	0.000	0.000	0.000	0.097	0.000	0.000	0.000	0.000	0.097
ESE	0.000	0.000	0.097	0.388	0.097	0.000	0.000	0.000	0.000	0.581
SE	0.000	0.000	0.242	0.000	0.000	0.000	0.000	0.000	0.000	0.242
SSE	0.000	0.000	0.291	0.000	0.000	0.000	0.000	0.000	0.000	0.291
S	0.000	0.000	0.484	0.048	0.000	0.000	0.000	0.000	0.000	0.533
SSW	0.000	0.000	0.339	0.048	0.000	0.000	0.000	0.000	0.000	0.388
SW	0.000	0.000	0.145	0.291	0.000	0.000	0.000	0.000	0.000	0.436
WSW	0.000	0.000	0.097	0.339	0.000	0.000	0.000	0.000	0.000	0.436
W	0.000	0.000	0.000	0.484	0.291	0.000	0.000	0.000	0.000	0.775
WNW	0.000	0.000	0.000	0.242	0.145	0.145	0.000	0.000	0.000	0.533
NW	0.000	0.000	0.000	0.048	0.000	0.145	0.000	0.000	0.000	0.194
NNW	0.000	0.000	0.097	0.097	0.097	0.048	0.048	0.000	0.000	0.388
SUBTOTAL	0.000	0.000	1.841	2.471	1.211	0.581	0.048	0.000	0.000	6.153

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2064  
 TOTAL HOURS OF STABILITY CLASS C 127  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 127  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2064  
 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: 2008/11/19

MEAN WIND SPEED = 4.77

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS



JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5< DELTA T<=-0.5 C/100 M)

Browns Ferry Nuclear Plant

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.339	0.533	0.533	0.048	0.000	0.000	0.000	1.453
NNE	0.000	0.000	0.291	0.436	0.145	0.097	0.000	0.000	0.000	0.969
NE	0.000	0.000	0.145	0.339	0.727	0.145	0.242	0.000	0.000	1.599
ENE	0.000	0.000	0.388	0.581	0.339	0.194	0.048	0.000	0.000	1.550
E	0.000	0.000	0.194	0.727	0.242	0.000	0.000	0.000	0.000	1.163
ESE	0.000	0.000	0.436	1.550	1.260	0.097	0.000	0.000	0.000	3.343
SE	0.000	0.097	1.163	0.048	0.000	0.000	0.000	0.000	0.000	1.308
SSE	0.000	0.000	0.727	0.145	0.000	0.000	0.000	0.000	0.000	0.872
S	0.000	0.048	1.114	0.048	0.000	0.000	0.000	0.000	0.000	1.211
SSW	0.000	0.097	1.114	0.436	0.145	0.048	0.000	0.000	0.000	1.841
SW	0.000	0.000	1.114	0.194	0.000	0.000	0.000	0.000	0.000	1.308
WSW	0.000	0.048	1.647	0.678	0.000	0.000	0.000	0.000	0.000	2.374
W	0.000	0.000	1.114	1.308	0.727	0.145	0.000	0.000	0.000	3.295
WNW	0.000	0.048	0.145	0.436	0.727	0.242	0.000	0.000	0.000	1.599
NW	0.000	0.000	0.194	0.242	0.484	0.388	0.000	0.000	0.000	1.308
NNW	0.000	0.048	0.145	0.436	1.066	0.291	0.000	0.000	0.000	1.986
SUBTOTAL	0.000	0.388	10.271	8.140	6.395	1.696	0.291	0.000	0.000	27.180

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2064  
 TOTAL HOURS OF STABILITY CLASS D 561  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 561  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2064  
 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: 2008/11/19

MEAN WIND SPEED = 4.47

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

Browns Ferry Nuclear Plant

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.533	0.630	0.194	0.000	0.000	0.000	0.000	1.357
NNE	0.000	0.097	0.727	0.484	0.242	0.000	0.000	0.000	0.000	1.550
NE	0.000	0.145	0.242	0.242	0.242	0.145	0.000	0.000	0.000	1.017
ENE	0.000	0.097	0.678	0.581	0.291	0.048	0.000	0.000	0.000	1.696
E	0.000	0.097	1.793	2.132	0.242	0.000	0.000	0.000	0.000	4.264
ESE	0.000	0.145	1.211	1.502	0.921	0.000	0.000	0.000	0.000	3.779
SE	0.000	0.145	0.678	0.048	0.000	0.000	0.000	0.000	0.000	0.872
SSE	0.000	0.097	0.533	0.000	0.000	0.000	0.000	0.000	0.000	0.630
S	0.000	0.242	0.581	0.048	0.000	0.000	0.000	0.000	0.000	0.872
SSW	0.000	0.000	0.824	0.000	0.000	0.000	0.000	0.000	0.000	0.824
SW	0.000	0.097	0.678	0.000	0.000	0.000	0.000	0.000	0.000	0.775
WSW	0.000	0.097	1.017	0.194	0.000	0.000	0.000	0.000	0.000	1.308
W	0.000	0.048	0.872	0.872	0.097	0.000	0.000	0.000	0.000	1.890
WNW	0.000	0.048	0.242	0.000	0.048	0.048	0.000	0.000	0.000	0.388
NW	0.000	0.000	0.194	0.242	0.048	0.097	0.000	0.000	0.000	0.581
NNW	0.000	0.194	0.388	0.727	0.339	0.145	0.048	0.000	0.000	1.841
SUBTOTAL	0.000	1.550	11.192	7.703	2.665	0.484	0.048	0.000	0.000	23.643

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2064
TOTAL HOURS OF STABILITY CLASS E	488
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	488
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2064
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: 2008/11/19

MEAN WIND SPEED = 3.55

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F ( 1.5< DELTA T<= 4.0 C/100 M)

Browns Ferry Nuclear Plant

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.145	1.405	0.630	0.145	0.000	0.000	0.000	0.000	2.326
NNE	0.000	0.388	0.775	0.533	0.145	0.000	0.000	0.000	0.000	1.841
NE	0.000	0.388	0.436	0.339	0.048	0.048	0.000	0.000	0.000	1.260
ENE	0.000	0.145	0.921	0.484	0.000	0.000	0.000	0.000	0.000	1.550
E	0.000	0.242	0.969	0.824	0.000	0.000	0.000	0.000	0.000	2.035
ESE	0.000	0.000	0.388	0.048	0.000	0.000	0.000	0.000	0.000	0.436
SE	0.000	0.097	0.291	0.000	0.000	0.000	0.000	0.000	0.000	0.388
SSE	0.000	0.048	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.097
S	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048
SSW	0.000	0.048	0.097	0.000	0.000	0.000	0.000	0.000	0.000	0.145
SW	0.000	0.097	0.145	0.000	0.000	0.000	0.000	0.000	0.000	0.242
WSW	0.000	0.000	0.097	0.000	0.000	0.000	0.000	0.000	0.000	0.097
W	0.000	0.000	0.097	0.000	0.048	0.000	0.000	0.000	0.000	0.145
WNW	0.000	0.048	0.097	0.097	0.000	0.048	0.000	0.000	0.000	0.291
NW	0.000	0.097	0.048	0.097	0.000	0.000	0.000	0.000	0.000	0.242
NNW	0.000	0.242	1.114	0.484	0.000	0.000	0.000	0.000	0.000	1.841
SUBTOTAL	0.000	2.035	6.928	3.537	0.388	0.097	0.000	0.000	0.000	12.984

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2064
TOTAL HOURS OF STABILITY CLASS F	268
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	268
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2064
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: 2008/11/19

MEAN WIND SPEED = 2.89

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Browns Ferry Nuclear Plant

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	1.405	2.665	1.696	0.048	0.000	0.000	0.000	0.000	5.814
NNE	0.000	0.775	0.824	0.339	0.000	0.000	0.000	0.000	0.000	1.938
NE	0.000	0.339	0.581	0.048	0.000	0.000	0.000	0.000	0.000	0.969
ENE	0.000	0.048	0.727	0.097	0.048	0.000	0.000	0.000	0.000	0.921
E	0.000	0.048	0.000	0.145	0.000	0.000	0.000	0.000	0.000	0.194
ESE	0.000	0.048	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.097
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	0.000	0.000	0.000	0.000	0.000
S	0.000	0.048	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.097
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	0.097	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.097
W	0.000	0.048	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.097
WNW	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048
NW	0.000	0.097	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.145
NNW	0.000	1.163	0.533	0.145	0.000	0.000	0.000	0.000	0.000	1.841
SUBTOTAL	0.000	4.167	5.523	2.471	0.097	0.000	0.000	0.000	0.000	12.258

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2064
TOTAL HOURS OF STABILITY CLASS G	253
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	253
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2064
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: 2008/11/19

MEAN WIND SPEED = 2.31

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**METEOROLOGICAL DATA TABLES**

**BROWNS FERRY NUCLEAR PLANT**

**JANUARY – DECEMBER 2008**

**TABLE 13**

**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<=-1.9 C/100 M)

Browns Ferry Nuclear Plant

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.000	0.682	0.045	0.000	0.000	0.727
NNE	0.000	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.091
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	0.091	0.136	0.045	0.000	0.000	0.000	0.273
SE	0.000	0.000	0.273	0.818	0.136	0.000	0.000	0.000	0.000	1.227
SSE	0.000	0.000	0.409	0.500	0.000	0.000	0.000	0.000	0.000	0.909
S	0.000	0.000	0.364	0.364	0.045	0.000	0.000	0.000	0.000	0.773
SSW	0.000	0.000	0.136	0.182	0.000	0.000	0.000	0.000	0.000	0.318
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	0.045	0.000	0.000	0.000	0.045
WNW	0.000	0.000	0.000	0.000	0.000	0.045	0.045	0.000	0.000	0.091
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.045
NNW	0.000	0.000	0.000	0.000	0.000	0.318	0.045	0.000	0.000	0.364
SUBTOTAL	0.000	0.000	1.182	1.955	0.318	1.227	0.182	0.000	0.000	4.864

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200  
 TOTAL HOURS OF STABILITY CLASS A 107  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 107  
 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: 2009/03/04

MEAN WIND SPEED = 5.84

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < DELTA T <= -1.7 C/100 M)

Browns Ferry Nuclear Plant

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.000	0.227	0.000	0.000	0.000	0.227
NNE	0.000	0.000	0.045	0.000	0.364	0.091	0.000	0.000	0.000	0.500
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	0.045	0.000	0.000	0.000	0.000	0.000	0.045
E	0.000	0.000	0.000	0.136	0.045	0.000	0.000	0.000	0.000	0.182
ESE	0.000	0.000	0.000	0.091	0.045	0.091	0.000	0.000	0.000	0.227
SE	0.000	0.000	0.045	0.227	0.000	0.000	0.000	0.000	0.000	0.273
SSE	0.000	0.000	0.000	0.227	0.000	0.000	0.000	0.000	0.000	0.227
S	0.000	0.000	0.136	0.182	0.000	0.045	0.000	0.000	0.000	0.364
SSW	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.045
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.045
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.045
NW	0.000	0.000	0.000	0.000	0.000	0.273	0.227	0.000	0.000	0.500
NNW	0.000	0.000	0.000	0.000	0.000	0.318	0.045	0.000	0.000	0.364
SUBTOTAL	0.000	0.000	0.227	1.091	0.455	1.091	0.318	0.000	0.000	3.182

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200  
 TOTAL HOURS OF STABILITY CLASS B 70  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 70  
 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: 2009/03/04

MEAN WIND SPEED = 7.33

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<=-1.5 C/100 M)

Browns Ferry Nuclear Plant

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.182	0.091	0.182	0.000	0.000	0.000	0.455
NNE	0.000	0.000	0.000	0.045	0.182	0.364	0.000	0.000	0.000	0.591
NE	0.000	0.000	0.000	0.000	0.045	0.045	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	0.136	0.136	0.045	0.000	0.000	0.000	0.318
SE	0.000	0.000	0.091	0.500	0.000	0.000	0.000	0.000	0.000	0.591
SSE	0.000	0.000	0.409	0.000	0.000	0.000	0.000	0.000	0.000	0.409
S	0.000	0.000	0.227	0.136	0.000	0.000	0.000	0.000	0.000	0.364
SSW	0.000	0.000	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.091
SW	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.045
WSW	0.000	0.000	0.000	0.045	0.045	0.045	0.000	0.000	0.000	0.136
W	0.000	0.000	0.000	0.045	0.091	0.045	0.000	0.000	0.000	0.182
WNW	0.000	0.000	0.000	0.000	0.045	0.227	0.000	0.000	0.000	0.273
NW	0.000	0.000	0.000	0.000	0.045	0.273	0.182	0.000	0.000	0.500
NNW	0.000	0.000	0.000	0.000	0.045	0.364	0.000	0.000	0.000	0.409
SUBTOTAL	0.000	0.000	0.818	1.136	0.727	1.591	0.182	0.000	0.000	4.455

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200  
 TOTAL HOURS OF STABILITY CLASS C 98  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 98  
 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: 2009/03/04

MEAN WIND SPEED = 6.56

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS



JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < DELTA T <= -0.5 C/100 M)

Browns Ferry Nuclear Plant

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.182	0.455	0.818	0.955	0.227	0.000	0.000	2.636
NNE	0.000	0.000	0.136	0.455	0.545	0.364	0.091	0.000	0.000	1.591
NE	0.000	0.000	0.182	0.455	0.409	0.136	0.091	0.000	0.000	1.273
ENE	0.000	0.000	0.091	0.364	0.091	0.000	0.000	0.000	0.000	0.545
E	0.000	0.000	0.227	0.455	0.000	0.000	0.000	0.000	0.000	0.682
ESE	0.000	0.000	0.727	0.545	1.409	0.455	0.000	0.000	0.000	3.136
SE	0.000	0.091	1.136	0.409	0.227	0.045	0.000	0.000	0.000	1.909
SSE	0.000	0.045	1.091	0.636	0.000	0.000	0.000	0.000	0.000	1.773
S	0.000	0.091	1.091	0.273	0.136	0.045	0.000	0.000	0.000	1.636
SSW	0.000	0.091	0.409	0.091	0.000	0.000	0.000	0.000	0.000	0.591
SW	0.000	0.000	0.455	0.091	0.000	0.000	0.000	0.000	0.000	0.545
WSW	0.000	0.000	0.455	0.636	0.500	0.000	0.000	0.000	0.000	1.591
W	0.000	0.000	0.227	0.636	0.955	0.591	0.000	0.000	0.000	2.409
WNW	0.000	0.000	0.136	0.318	0.409	1.136	0.500	0.000	0.000	2.500
NW	0.000	0.000	0.182	0.409	0.273	1.773	0.773	0.182	0.000	3.591
NNW	0.000	0.000	0.091	0.364	0.318	1.636	0.409	0.000	0.000	2.818
SUBTOTAL	0.000	0.318	6.818	6.591	6.091	7.136	2.091	0.182	0.000	29.227

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200  
 TOTAL HOURS OF STABILITY CLASS D 643  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 643  
 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: 2009/03/04

MEAN WIND SPEED = 6.45

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<= 1.5 C/100 M)

Browns Ferry Nuclear Plant

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.091	0.409	0.500	0.500	0.045	0.045	0.000	0.000	1.591
NNE	0.000	0.045	0.364	0.500	0.273	0.000	0.000	0.000	0.000	1.182
NE	0.000	0.182	0.591	0.500	0.409	0.182	0.000	0.000	0.000	1.864
ENE	0.000	0.091	0.500	0.364	0.136	0.000	0.000	0.000	0.000	1.091
E	0.000	0.182	0.955	0.727	0.000	0.000	0.000	0.000	0.000	1.864
ESE	0.000	0.455	1.545	1.545	1.409	0.273	0.000	0.000	0.000	5.227
SE	0.000	0.545	1.091	0.455	0.045	0.000	0.000	0.000	0.000	2.136
SSE	0.000	0.409	1.227	0.545	0.045	0.000	0.000	0.000	0.000	2.227
S	0.000	0.091	0.955	0.500	0.227	0.182	0.000	0.000	0.000	1.955
SSW	0.000	0.091	0.409	0.136	0.136	0.091	0.000	0.000	0.000	0.864
SW	0.000	0.318	0.500	0.045	0.000	0.000	0.000	0.000	0.000	0.864
WSW	0.000	0.045	0.682	0.182	0.136	0.000	0.000	0.000	0.000	1.045
W	0.000	0.045	0.364	0.455	0.364	0.091	0.000	0.000	0.000	1.318
WNW	0.000	0.000	0.182	0.227	0.182	0.136	0.045	0.000	0.000	0.773
NW	0.000	0.000	0.136	0.273	0.273	0.545	0.182	0.000	0.000	1.409
NNW	0.000	0.045	0.273	0.318	0.727	1.273	0.045	0.000	0.000	2.682
SUBTOTAL	0.000	2.636	10.182	7.273	4.864	2.818	0.318	0.000	0.000	28.091

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS E	618
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	618
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: 2009/03/04

MEAN WIND SPEED = 4.28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F ( 1.5< DELTA T<= 4.0 C/100 M)

Browns Ferry Nuclear Plant

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.045	0.727	0.636	0.000	0.000	0.000	0.000	0.000	1.409
NNE	0.000	0.091	0.636	1.182	0.045	0.000	0.000	0.000	0.000	1.955
NE	0.000	0.182	0.591	0.136	0.000	0.000	0.000	0.000	0.000	0.909
ENE	0.000	0.227	0.545	0.318	0.045	0.000	0.000	0.000	0.000	1.136
E	0.000	0.182	1.045	0.773	0.000	0.000	0.000	0.000	0.000	2.000
ESE	0.000	0.227	0.409	0.136	0.000	0.000	0.000	0.000	0.000	0.773
SE	0.000	0.273	1.000	0.136	0.045	0.000	0.000	0.000	0.000	1.455
SSE	0.000	0.182	1.227	0.545	0.000	0.000	0.000	0.000	0.000	1.955
S	0.000	0.273	0.545	0.273	0.455	0.227	0.000	0.000	0.000	1.773
SSW	0.000	0.045	0.227	0.000	0.000	0.045	0.000	0.000	0.000	0.318
SW	0.000	0.000	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.136
WSW	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.091
W	0.000	0.045	0.045	0.000	0.000	0.000	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	0.045	0.000	0.045	0.000	0.000	0.000	0.000	0.091
NNW	0.000	0.045	0.500	0.682	0.182	0.000	0.000	0.000	0.000	1.409
SUBTOTAL	0.000	1.818	7.773	4.818	0.818	0.273	0.000	0.000	0.000	15.500

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS F	341
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	341
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: 2009/03/04

MEAN WIND SPEED = 3.13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Browns Ferry Nuclear Plant

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.010	1.318	1.545	0.364	0.000	0.000	0.000	0.000	0.000	3.237
NNE	0.010	1.955	0.955	0.318	0.000	0.000	0.000	0.000	0.000	3.237
NE	0.007	1.000	1.136	0.045	0.000	0.000	0.000	0.000	0.000	2.189
ENE	0.005	0.318	1.091	0.136	0.000	0.000	0.000	0.000	0.000	1.550
E	0.002	0.182	0.500	0.045	0.000	0.000	0.000	0.000	0.000	0.730
ESE	0.001	0.318	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.411
SE	0.002	0.091	0.409	0.091	0.000	0.000	0.000	0.000	0.000	0.593
SSE	0.002	0.182	0.500	0.136	0.000	0.000	0.000	0.000	0.000	0.821
S	0.001	0.091	0.227	0.227	0.227	0.000	0.000	0.000	0.000	0.774
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	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
NW	0.000	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.137
NNW	0.003	0.364	0.591	0.000	0.000	0.000	0.000	0.000	0.000	0.958
SUBTOTAL	0.045	6.000	7.045	1.364	0.227	0.000	0.000	0.000	0.000	14.682

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200  
 TOTAL HOURS OF STABILITY CLASS G 323  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 323  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2200  
 TOTAL HOURS CALM 1

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: 2009/03/04

MEAN WIND SPEED = 1.98

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**METEOROLOGICAL DATA TABLES**

**BROWNS FERRY NUCLEAR PLANT**

**JANUARY – DECEMBER 2008**

**TABLE 14**

**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<=-1.9 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.004	0.030	0.000	0.000	0.000	0.035
NNE	0.000	0.000	0.000	0.000	0.003	0.030	0.000	0.000	0.000	0.033
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.109	0.074	0.000	0.000	0.000	0.000	0.182
SSE	0.000	0.000	0.011	0.030	0.000	0.000	0.000	0.000	0.000	0.041
S	0.000	0.000	0.002	0.076	0.026	0.000	0.000	0.000	0.000	0.105
SSW	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.011
SW	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.007
WSW	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.010
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	0.008	0.000	0.000	0.000	0.008
NW	0.000	0.000	0.000	0.000	0.000	0.024	0.036	0.000	0.000	0.060
NNW	0.000	0.000	0.000	0.000	0.000	0.040	0.009	0.000	0.000	0.049
SUBTOTAL	0.000	0.000	0.014	0.233	0.107	0.152	0.045	0.000	0.000	0.550

TOTAL HOURS OF VALID OBSERVATIONS 2134.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 390.980  
 TOTAL HOURS OF STABILITY CLASS A 13.470  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 11.740

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/05/05

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 < DELTA T <= -1.7 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.015	0.021	0.000	0.000	0.000	0.037
NNE	0.000	0.000	0.000	0.000	0.005	0.006	0.000	0.000	0.000	0.011
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	0.000	0.008	0.000	0.000	0.000	0.000	0.008
SE	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.010
SSE	0.000	0.000	0.044	0.008	0.000	0.000	0.000	0.000	0.000	0.052
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	0.001	0.004	0.000	0.000	0.000	0.000	0.000	0.005
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	0.010	0.000	0.000	0.000	0.010
W	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.008
WNW	0.000	0.000	0.000	0.000	0.000	0.016	0.054	0.000	0.000	0.070
NW	0.000	0.000	0.000	0.000	0.000	0.074	0.017	0.000	0.000	0.091
NNW	0.000	0.000	0.000	0.000	0.000	0.078	0.018	0.000	0.000	0.097
SUBTOTAL	0.000	0.000	0.045	0.022	0.029	0.218	0.090	0.000	0.000	0.403

TOTAL HOURS OF VALID OBSERVATIONS 2134.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 390.980  
 TOTAL HOURS OF STABILITY CLASS B 12.090  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 8.600

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/05/05

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 <= -1.5 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.006	0.008	0.000	0.000	0.000	0.014
NNE	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.007
NE	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.004
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	0.005	0.000	0.000	0.000	0.000	0.005
ESE	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.009
SE	0.000	0.000	0.015	0.028	0.017	0.020	0.000	0.000	0.000	0.081
SSE	0.000	0.000	0.005	0.002	0.000	0.000	0.000	0.000	0.000	0.007
S	0.000	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.011
SSW	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.009
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	0.001	0.000	0.064	0.000	0.000	0.000	0.065
W	0.000	0.000	0.000	0.000	0.000	0.050	0.000	0.000	0.000	0.050
WNW	0.000	0.000	0.000	0.000	0.002	0.033	0.113	0.000	0.000	0.149
NW	0.000	0.000	0.000	0.000	0.003	0.047	0.054	0.000	0.000	0.105
NNW	0.000	0.000	0.000	0.000	0.000	0.113	0.009	0.000	0.000	0.123
SUBTOTAL	0.000	0.000	0.031	0.031	0.063	0.336	0.177	0.000	0.000	0.638

TOTAL HOURS OF VALID OBSERVATIONS 2134.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 390.980  
 TOTAL HOURS OF STABILITY CLASS C 23.710  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 13.620

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/05/05

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<=-0.5 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.015	0.073	0.032	0.000	0.000	0.000	0.120
NNE	0.000	0.000	0.002	0.024	0.089	0.072	0.000	0.000	0.000	0.187
NE	0.000	0.000	0.000	0.013	0.081	0.054	0.000	0.000	0.000	0.147
ENE	0.000	0.000	0.000	0.007	0.004	0.000	0.000	0.000	0.000	0.012
E	0.000	0.000	0.000	0.052	0.021	0.000	0.000	0.000	0.000	0.074
ESE	0.000	0.000	0.002	0.031	0.155	0.038	0.044	0.000	0.000	0.270
SE	0.000	0.000	0.027	0.203	0.154	0.000	0.000	0.000	0.000	0.384
SSE	0.000	0.000	0.071	0.005	0.000	0.000	0.000	0.000	0.000	0.076
S	0.000	0.000	0.026	0.090	0.092	0.038	0.000	0.000	0.000	0.246
SSW	0.000	0.000	0.024	0.053	0.028	0.058	0.000	0.000	0.000	0.163
SW	0.000	0.000	0.000	0.007	0.032	0.000	0.000	0.000	0.000	0.039
WSW	0.000	0.000	0.001	0.019	0.007	0.024	0.000	0.000	0.000	0.052
W	0.000	0.000	0.000	0.045	0.091	0.207	0.229	0.000	0.000	0.572
WNW	0.000	0.000	0.000	0.000	0.075	0.252	0.280	0.240	0.047	0.894
NW	0.000	0.000	0.000	0.008	0.101	0.500	1.036	0.395	0.047	2.087
NNW	0.000	0.000	0.000	0.023	0.040	0.261	0.249	0.000	0.000	0.573
SUBTOTAL	0.000	0.000	0.154	0.598	1.043	1.536	1.838	0.635	0.094	5.897

TOTAL HOURS OF VALID OBSERVATIONS 2134.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 390.980  
 TOTAL HOURS OF STABILITY CLASS D 1157.440  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 125.840

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/05/05

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< DELTA T<= 1.5 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.025	0.057	0.051	0.008	0.000	0.000	0.000	0.142
NNE	0.000	0.000	0.007	0.028	0.044	0.054	0.000	0.000	0.000	0.132
NE	0.000	0.000	0.007	0.055	0.025	0.038	0.000	0.000	0.000	0.126
ENE	0.000	0.000	0.019	0.027	0.040	0.014	0.000	0.000	0.000	0.100
E	0.000	0.000	0.009	0.069	0.016	0.000	0.000	0.000	0.000	0.095
ESE	0.000	0.000	0.029	0.094	0.007	0.060	0.000	0.000	0.000	0.190
SE	0.000	0.000	0.116	0.090	0.076	0.000	0.000	0.000	0.000	0.283
SSE	0.000	0.008	0.343	0.299	0.047	0.000	0.000	0.000	0.000	0.697
S	0.000	0.000	0.118	0.522	0.944	0.999	0.000	0.000	0.000	2.582
SSW	0.000	0.000	0.017	0.076	0.175	0.169	0.047	0.000	0.000	0.485
SW	0.000	0.000	0.007	0.013	0.027	0.000	0.000	0.000	0.000	0.047
WSW	0.000	0.000	0.007	0.019	0.000	0.074	0.000	0.000	0.000	0.100
W	0.000	0.000	0.014	0.031	0.034	0.037	0.017	0.000	0.000	0.134
WNW	0.000	0.000	0.001	0.006	0.017	0.008	0.000	0.047	0.000	0.079
NW	0.000	0.000	0.001	0.041	0.025	0.107	0.000	0.000	0.000	0.175
NNW	0.000	0.000	0.027	0.090	0.114	0.106	0.000	0.000	0.000	0.336
SUBTOTAL	0.000	0.009	0.747	1.518	1.643	1.673	0.064	0.047	0.000	5.701

TOTAL HOURS OF VALID OBSERVATIONS 2134.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 390.980  
 TOTAL HOURS OF STABILITY CLASS E 715.440  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 121.670

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/05/05

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< DELTA T<= 4.0 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.018	0.016	0.017	0.000	0.000	0.000	0.000	0.052
NNE	0.000	0.000	0.017	0.004	0.009	0.000	0.000	0.000	0.000	0.030
NE	0.000	0.000	0.015	0.011	0.000	0.000	0.000	0.000	0.000	0.026
ENE	0.000	0.000	0.022	0.018	0.000	0.000	0.000	0.000	0.000	0.039
E	0.000	0.006	0.069	0.022	0.000	0.000	0.000	0.000	0.000	0.097
ESE	0.000	0.009	0.080	0.015	0.000	0.000	0.000	0.000	0.000	0.104
SE	0.000	0.012	0.075	0.149	0.066	0.000	0.000	0.000	0.000	0.301
SSE	0.000	0.031	0.235	0.096	0.141	0.000	0.000	0.000	0.000	0.503
S	0.000	0.017	0.164	0.529	0.654	0.493	0.000	0.000	0.000	1.857
SSW	0.000	0.003	0.025	0.007	0.028	0.039	0.000	0.000	0.000	0.102
SW	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.010
WSW	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.006
W	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.006
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	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.007
NNW	0.000	0.000	0.019	0.022	0.007	0.000	0.000	0.000	0.000	0.048
SUBTOTAL	0.000	0.079	0.768	0.888	0.922	0.532	0.000	0.000	0.000	3.189

TOTAL HOURS OF VALID OBSERVATIONS 2134.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 390.980  
 TOTAL HOURS OF STABILITY CLASS F 152.410  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 68.050

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/05/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.005
NNE	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.005
NE	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.004
ENE	0.000	0.013	0.007	0.003	0.000	0.000	0.000	0.000	0.000	0.022
E	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.007
ESE	0.000	0.017	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.023
SE	0.000	0.058	0.097	0.061	0.000	0.000	0.000	0.000	0.000	0.216
SSE	0.000	0.045	0.634	0.122	0.000	0.000	0.000	0.000	0.000	0.801
S	0.000	0.021	0.280	0.388	0.155	0.000	0.000	0.000	0.000	0.843
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	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
WSW	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
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	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.005
NW	0.000	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.004
NNW	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.005
SUBTOTAL	0.000	0.157	1.044	0.588	0.155	0.000	0.000	0.000	0.000	1.943

TOTAL HOURS OF VALID OBSERVATIONS 2134.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 390.980  
 TOTAL HOURS OF STABILITY CLASS G 59.440  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 41.460

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/05/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBER

**METEOROLOGICAL DATA TABLES**  
**BROWNS FERRY NUCLEAR PLANT**  
**JANUARY – DECEMBER 2008**

**TABLE 15**  
**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<=-1.9 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.014	0.030	0.000	0.000	0.000	0.045
NNE	0.000	0.000	0.000	0.000	0.010	0.011	0.000	0.000	0.000	0.020
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	0.000	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	0.020	0.000	0.000	0.000	0.000	0.000	0.020
SE	0.000	0.000	0.011	0.053	0.000	0.000	0.000	0.000	0.000	0.064
SSE	0.000	0.000	0.065	0.011	0.000	0.000	0.000	0.000	0.000	0.076
S	0.000	0.000	0.090	0.109	0.000	0.000	0.000	0.000	0.000	0.199
SSW	0.000	0.000	0.098	0.109	0.000	0.000	0.000	0.000	0.000	0.206
SW	0.000	0.000	0.000	0.037	0.000	0.000	0.000	0.000	0.000	0.037
WSW	0.000	0.000	0.000	0.023	0.011	0.008	0.000	0.000	0.000	0.042
W	0.000	0.000	0.000	0.003	0.025	0.041	0.018	0.000	0.000	0.087
WNW	0.000	0.000	0.000	0.000	0.004	0.030	0.103	0.075	0.000	0.212
NW	0.000	0.000	0.000	0.000	0.005	0.021	0.054	0.000	0.000	0.080
NNW	0.000	0.000	0.000	0.000	0.010	0.112	0.037	0.000	0.000	0.159
SUBTOTAL	0.000	0.000	0.264	0.365	0.079	0.260	0.212	0.075	0.000	1.255

TOTAL HOURS OF VALID OBSERVATIONS 2172.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 241.280  
 TOTAL HOURS OF STABILITY CLASS A 30.760  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 27.250

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/08/04

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< DELTA T<=-1.7 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.012	0.015	0.000	0.000	0.000	0.027
NNE	0.000	0.000	0.000	0.000	0.012	0.005	0.000	0.000	0.000	0.017
NE	0.000	0.000	0.000	0.001	0.003	0.006	0.000	0.000	0.000	0.011
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	0.004	0.024	0.000	0.000	0.000	0.000	0.000	0.028
SSE	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.008
S	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.006
SSW	0.000	0.000	0.001	0.050	0.067	0.000	0.000	0.000	0.000	0.118
SW	0.000	0.000	0.000	0.023	0.000	0.000	0.000	0.000	0.000	0.023
WSW	0.000	0.000	0.000	0.026	0.040	0.007	0.000	0.000	0.000	0.073
W	0.000	0.000	0.000	0.003	0.029	0.043	0.037	0.000	0.000	0.112
WNW	0.000	0.000	0.000	0.000	0.010	0.098	0.056	0.040	0.000	0.203
NW	0.000	0.000	0.000	0.000	0.004	0.041	0.009	0.000	0.000	0.054
NNW	0.000	0.000	0.000	0.000	0.006	0.024	0.000	0.000	0.000	0.030
SUBTOTAL	0.000	0.000	0.005	0.141	0.181	0.238	0.102	0.040	0.000	0.708

TOTAL HOURS OF VALID OBSERVATIONS 2172.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 241.280  
 TOTAL HOURS OF STABILITY CLASS B 34.160  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 15.370

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/08/04

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<=-1.5 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.012	0.006	0.000	0.000	0.000	0.018
NNE	0.000	0.000	0.000	0.000	0.004	0.006	0.000	0.000	0.000	0.010
NE	0.000	0.000	0.000	0.000	0.003	0.007	0.000	0.000	0.000	0.011
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	0.010	0.000	0.000	0.000	0.000	0.000	0.010
SE	0.000	0.000	0.004	0.030	0.000	0.000	0.000	0.000	0.000	0.034
SSE	0.000	0.000	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.021
S	0.000	0.000	0.005	0.027	0.000	0.000	0.000	0.000	0.000	0.032
SSW	0.000	0.000	0.017	0.025	0.039	0.000	0.000	0.000	0.000	0.081
SW	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.011
WSW	0.000	0.000	0.000	0.024	0.023	0.000	0.000	0.000	0.000	0.047
W	0.000	0.000	0.000	0.012	0.012	0.015	0.042	0.000	0.000	0.081
WNW	0.000	0.000	0.000	0.000	0.015	0.060	0.045	0.076	0.000	0.197
NW	0.000	0.000	0.000	0.000	0.014	0.038	0.020	0.000	0.000	0.072
NNW	0.000	0.000	0.000	0.000	0.012	0.037	0.000	0.000	0.000	0.049
SUBTOTAL	0.000	0.000	0.047	0.139	0.134	0.170	0.106	0.076	0.000	0.674

TOTAL HOURS OF VALID OBSERVATIONS 2172.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 241.280  
 TOTAL HOURS OF STABILITY CLASS C 88.020  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 14.630

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/08/04

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<=-0.5 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.001	0.017	0.061	0.048	0.000	0.000	0.000	0.127
NNE	0.000	0.000	0.000	0.022	0.043	0.099	0.000	0.000	0.000	0.164
NE	0.000	0.000	0.000	0.005	0.010	0.006	0.000	0.000	0.000	0.020
ENE	0.000	0.000	0.000	0.003	0.000	0.006	0.000	0.000	0.000	0.010
E	0.000	0.000	0.011	0.016	0.007	0.000	0.000	0.000	0.000	0.034
ESE	0.000	0.000	0.043	0.072	0.006	0.000	0.000	0.000	0.000	0.122
SE	0.000	0.000	0.103	0.104	0.011	0.000	0.000	0.000	0.000	0.218
SSE	0.000	0.000	0.054	0.042	0.000	0.000	0.000	0.000	0.000	0.096
S	0.000	0.000	0.092	0.296	0.035	0.000	0.000	0.000	0.000	0.422
SSW	0.000	0.000	0.099	0.224	0.079	0.000	0.000	0.000	0.000	0.402
SW	0.000	0.000	0.026	0.029	0.000	0.000	0.000	0.000	0.000	0.055
WSW	0.000	0.000	0.017	0.068	0.066	0.017	0.000	0.000	0.000	0.168
W	0.000	0.000	0.004	0.081	0.112	0.133	0.026	0.000	0.000	0.355
WNW	0.000	0.000	0.000	0.010	0.041	0.120	0.069	0.110	0.000	0.350
NW	0.000	0.000	0.002	0.003	0.026	0.188	0.114	0.000	0.000	0.333
NNW	0.000	0.000	0.000	0.003	0.036	0.144	0.023	0.000	0.000	0.207
SUBTOTAL	0.000	0.000	0.451	0.994	0.535	0.760	0.233	0.110	0.000	3.082

TOTAL HOURS OF VALID OBSERVATIONS 2172.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 241.280  
 TOTAL HOURS OF STABILITY CLASS D 1174.160  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 66.940

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/08/04

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< DELTA T<= 1.5 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.005	0.043	0.054	0.008	0.000	0.000	0.000	0.110
NNE	0.000	0.000	0.004	0.038	0.044	0.017	0.000	0.000	0.000	0.103
NE	0.000	0.006	0.013	0.013	0.034	0.007	0.000	0.000	0.000	0.073
ENE	0.000	0.000	0.045	0.011	0.022	0.000	0.000	0.000	0.000	0.079
E	0.000	0.000	0.075	0.053	0.000	0.000	0.000	0.000	0.000	0.128
ESE	0.000	0.001	0.175	0.173	0.066	0.000	0.000	0.000	0.000	0.416
SE	0.000	0.003	0.073	0.090	0.015	0.025	0.000	0.000	0.000	0.206
SSE	0.000	0.001	0.195	0.011	0.000	0.000	0.000	0.000	0.000	0.207
S	0.000	0.020	0.292	0.346	0.467	0.132	0.000	0.000	0.000	1.257
SSW	0.000	0.023	0.369	0.186	0.104	0.035	0.000	0.000	0.000	0.716
SW	0.000	0.020	0.053	0.008	0.000	0.000	0.000	0.000	0.000	0.081
WSW	0.000	0.003	0.029	0.035	0.024	0.017	0.000	0.000	0.000	0.107
W	0.000	0.000	0.023	0.015	0.000	0.036	0.000	0.000	0.000	0.074
WNW	0.000	0.000	0.006	0.000	0.013	0.031	0.000	0.000	0.000	0.050
NW	0.000	0.003	0.000	0.018	0.047	0.053	0.000	0.000	0.000	0.122
NNW	0.000	0.000	0.017	0.048	0.040	0.057	0.000	0.000	0.000	0.162
SUBTOTAL	0.000	0.081	1.373	1.088	0.930	0.418	0.000	0.000	0.000	3.890

TOTAL HOURS OF VALID OBSERVATIONS 2172.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 241.280  
 TOTAL HOURS OF STABILITY CLASS E 638.100  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 84.490

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/08/04

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< DELTA T<= 4.0 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.064	0.064	0.000	0.000	0.000	0.000	0.000	0.128
NNE	0.000	0.010	0.007	0.015	0.000	0.000	0.000	0.000	0.000	0.032
NE	0.000	0.007	0.006	0.000	0.014	0.000	0.000	0.000	0.000	0.027
ENE	0.000	0.025	0.031	0.030	0.000	0.000	0.000	0.000	0.000	0.087
E	0.000	0.011	0.036	0.038	0.008	0.000	0.000	0.000	0.000	0.092
ESE	0.000	0.012	0.038	0.014	0.000	0.000	0.000	0.000	0.000	0.064
SE	0.000	0.012	0.004	0.010	0.000	0.000	0.000	0.000	0.000	0.025
SSE	0.000	0.008	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.040
S	0.000	0.029	0.101	0.034	0.216	0.000	0.000	0.000	0.000	0.379
SSW	0.000	0.023	0.049	0.009	0.000	0.000	0.000	0.000	0.000	0.081
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.007	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.008
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	0.017	0.000	0.000	0.000	0.017
NW	0.000	0.002	0.004	0.000	0.005	0.000	0.000	0.000	0.000	0.010
NNW	0.000	0.001	0.084	0.014	0.007	0.000	0.000	0.000	0.000	0.106
SUBTOTAL	0.000	0.147	0.455	0.227	0.250	0.017	0.000	0.000	0.000	1.095

TOTAL HOURS OF VALID OBSERVATIONS 2172.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 241.280  
 TOTAL HOURS OF STABILITY CLASS F 160.550  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 23.790

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/08/04

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.116	0.050	0.000	0.000	0.000	0.000	0.000	0.167
NNE	0.000	0.001	0.029	0.004	0.000	0.000	0.000	0.000	0.000	0.035
NE	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.008
ENE	0.000	0.020	0.033	0.006	0.000	0.000	0.000	0.000	0.000	0.058
E	0.000	0.019	0.018	0.015	0.000	0.000	0.000	0.000	0.000	0.052
ESE	0.000	0.009	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.010
SE	0.000	0.005	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.007
SSE	0.000	0.012	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.019
S	0.000	0.023	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.031
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	0.001	0.000	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	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.004
NNW	0.000	0.000	0.002	0.011	0.000	0.000	0.000	0.000	0.000	0.013
SUBTOTAL	0.000	0.093	0.226	0.086	0.000	0.000	0.000	0.000	0.000	0.406

TOTAL HOURS OF VALID OBSERVATIONS 2172.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 241.280  
 TOTAL HOURS OF STABILITY CLASS G 46.250  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 8.810

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/08/04

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**METEOROLOGICAL DATA TABLES**

**BROWNS FERRY NUCLEAR PLANT**

**JANUARY – DECEMBER 2008**

**TABLE 16**

**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<=-1.9 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.005	0.092	0.000	0.000	0.000	0.097
NNE	0.000	0.000	0.000	0.000	0.003	0.046	0.000	0.000	0.000	0.048
NE	0.000	0.000	0.000	0.000	0.000	0.031	0.009	0.000	0.000	0.041
ENE	0.000	0.000	0.000	0.000	0.004	0.015	0.000	0.000	0.000	0.019
E	0.000	0.000	0.000	0.002	0.009	0.000	0.000	0.000	0.000	0.011
ESE	0.000	0.000	0.001	0.049	0.084	0.030	0.000	0.000	0.000	0.164
SE	0.000	0.000	0.003	0.049	0.016	0.000	0.000	0.000	0.000	0.069
SSE	0.000	0.000	0.051	0.082	0.000	0.000	0.000	0.000	0.000	0.133
S	0.000	0.000	0.028	0.035	0.000	0.000	0.000	0.000	0.000	0.063
SSW	0.000	0.000	0.015	0.037	0.000	0.000	0.000	0.000	0.000	0.052
SW	0.000	0.000	0.014	0.006	0.000	0.000	0.000	0.000	0.000	0.020
WSW	0.000	0.000	0.000	0.006	0.003	0.000	0.000	0.000	0.000	0.009
W	0.000	0.000	0.000	0.002	0.058	0.024	0.000	0.000	0.000	0.084
WNW	0.000	0.000	0.000	0.000	0.040	0.037	0.000	0.000	0.000	0.077
NW	0.000	0.000	0.000	0.000	0.003	0.031	0.000	0.000	0.000	0.034
NNW	0.000	0.000	0.000	0.001	0.008	0.095	0.023	0.000	0.000	0.127
SUBTOTAL	0.000	0.000	0.113	0.270	0.233	0.399	0.032	0.000	0.000	1.047

TOTAL HOURS OF VALID OBSERVATIONS 2064.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 153.760  
 TOTAL HOURS OF STABILITY CLASS A 21.620  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 21.620

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/11/19

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 < DELTA T <= -1.7 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.001	0.002	0.015	0.000	0.000	0.000	0.019
NNE	0.000	0.000	0.000	0.000	0.024	0.007	0.000	0.000	0.000	0.031
NE	0.000	0.000	0.000	0.000	0.010	0.016	0.000	0.000	0.000	0.026
ENE	0.000	0.000	0.000	0.001	0.003	0.000	0.000	0.000	0.000	0.004
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	0.054	0.036	0.000	0.000	0.000	0.000	0.090
SE	0.000	0.000	0.000	0.012	0.000	0.000	0.000	0.000	0.000	0.012
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	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.008
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	0.010	0.000	0.000	0.000	0.000	0.000	0.010
W	0.000	0.000	0.000	0.003	0.009	0.004	0.000	0.000	0.000	0.017
WNW	0.000	0.000	0.000	0.000	0.018	0.029	0.000	0.000	0.000	0.047
NW	0.000	0.000	0.000	0.000	0.004	0.014	0.010	0.000	0.000	0.028
NNW	0.000	0.000	0.000	0.001	0.000	0.014	0.000	0.000	0.000	0.015
SUBTOTAL	0.000	0.000	0.008	0.083	0.108	0.098	0.010	0.000	0.000	0.306

TOTAL HOURS OF VALID OBSERVATIONS 2064.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 153.760  
 TOTAL HOURS OF STABILITY CLASS B 17.980  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 6.310

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/11/19

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 < DELTA T <= -1.5 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.023	0.015	0.000	0.000	0.000	0.038
NNE	0.000	0.000	0.000	0.000	0.004	0.008	0.000	0.000	0.000	0.013
NE	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.003
ENE	0.000	0.000	0.000	0.000	0.009	0.016	0.000	0.000	0.000	0.025
E	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.007
ESE	0.000	0.000	0.000	0.063	0.013	0.000	0.000	0.000	0.000	0.077
SE	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002
SSE	0.000	0.000	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.029
S	0.000	0.000	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.016
SSW	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
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	0.004	0.019	0.000	0.000	0.000	0.000	0.024
WNW	0.000	0.000	0.000	0.000	0.014	0.018	0.000	0.000	0.000	0.031
NW	0.000	0.000	0.000	0.000	0.000	0.023	0.000	0.000	0.000	0.023
NNW	0.000	0.000	0.000	0.004	0.004	0.008	0.035	0.000	0.000	0.051
SUBTOTAL	0.000	0.000	0.048	0.072	0.096	0.089	0.035	0.000	0.000	0.340

TOTAL HOURS OF VALID OBSERVATIONS 2064.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 153.760  
 TOTAL HOURS OF STABILITY CLASS C 49.270  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 7.020

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/11/19

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< DELTA T<=-0.5 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.003	0.015	0.070	0.009	0.000	0.000	0.000	0.096
NNE	0.000	0.000	0.001	0.014	0.018	0.015	0.000	0.000	0.000	0.047
NE	0.000	0.000	0.000	0.009	0.075	0.026	0.082	0.000	0.000	0.192
ENE	0.000	0.000	0.000	0.020	0.041	0.031	0.010	0.000	0.000	0.101
E	0.000	0.000	0.003	0.049	0.030	0.000	0.000	0.000	0.000	0.082
ESE	0.000	0.000	0.019	0.236	0.214	0.019	0.000	0.000	0.000	0.489
SE	0.000	0.000	0.075	0.008	0.000	0.000	0.000	0.000	0.000	0.083
SSE	0.000	0.000	0.043	0.016	0.000	0.000	0.000	0.000	0.000	0.059
S	0.000	0.000	0.048	0.020	0.000	0.000	0.000	0.000	0.000	0.069
SSW	0.000	0.000	0.026	0.150	0.092	0.042	0.000	0.000	0.000	0.310
SW	0.000	0.000	0.022	0.002	0.000	0.000	0.000	0.000	0.000	0.025
WSW	0.000	0.000	0.003	0.018	0.000	0.000	0.000	0.000	0.000	0.021
W	0.000	0.000	0.001	0.058	0.081	0.021	0.000	0.000	0.000	0.161
WNW	0.000	0.000	0.000	0.004	0.071	0.032	0.000	0.000	0.000	0.108
NW	0.000	0.000	0.000	0.003	0.062	0.061	0.000	0.000	0.000	0.125
NNW	0.000	0.001	0.000	0.019	0.123	0.045	0.000	0.000	0.000	0.188
SUBTOTAL	0.000	0.001	0.245	0.642	0.876	0.300	0.092	0.000	0.000	2.156

TOTAL HOURS OF VALID OBSERVATIONS 2064.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 153.760  
 TOTAL HOURS OF STABILITY CLASS D 1055.720  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 44.500

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/11/19

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 < DELTA T <= 1.5 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.023	0.079	0.031	0.000	0.000	0.000	0.000	0.133
NNE	0.000	0.000	0.016	0.049	0.035	0.000	0.000	0.000	0.000	0.100
NE	0.000	0.000	0.000	0.024	0.036	0.025	0.000	0.000	0.000	0.085
ENE	0.000	0.000	0.024	0.064	0.044	0.008	0.000	0.000	0.000	0.140
E	0.000	0.000	0.090	0.262	0.039	0.000	0.000	0.000	0.000	0.391
ESE	0.000	0.000	0.101	0.234	0.159	0.000	0.000	0.000	0.000	0.495
SE	0.000	0.003	0.052	0.010	0.000	0.000	0.000	0.000	0.000	0.064
SSE	0.000	0.000	0.052	0.000	0.000	0.000	0.000	0.000	0.000	0.052
S	0.000	0.000	0.032	0.010	0.000	0.000	0.000	0.000	0.000	0.042
SSW	0.000	0.000	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.028
SW	0.000	0.000	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.028
WSW	0.000	0.008	0.018	0.017	0.000	0.000	0.000	0.000	0.000	0.044
W	0.000	0.007	0.006	0.086	0.014	0.000	0.000	0.000	0.000	0.113
WNW	0.000	0.000	0.006	0.000	0.004	0.007	0.000	0.000	0.000	0.017
NW	0.000	0.000	0.004	0.021	0.007	0.017	0.000	0.000	0.000	0.049
NNW	0.000	0.000	0.019	0.069	0.051	0.027	0.026	0.000	0.000	0.192
SUBTOTAL	0.000	0.019	0.500	0.925	0.420	0.084	0.026	0.000	0.000	1.974

TOTAL HOURS OF VALID OBSERVATIONS 2064.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 153.760  
 TOTAL HOURS OF STABILITY CLASS E 621.420  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 40.740

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/11/19

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< DELTA T<= 4.0 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.001	0.084	0.093	0.025	0.000	0.000	0.000	0.000	0.203
NNE	0.000	0.010	0.032	0.077	0.027	0.000	0.000	0.000	0.000	0.146
NE	0.000	0.000	0.024	0.048	0.008	0.005	0.000	0.000	0.000	0.086
ENE	0.000	0.000	0.047	0.063	0.000	0.000	0.000	0.000	0.000	0.109
E	0.000	0.008	0.049	0.091	0.000	0.000	0.000	0.000	0.000	0.148
ESE	0.000	0.000	0.021	0.007	0.000	0.000	0.000	0.000	0.000	0.029
SE	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.006
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	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
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	0.008	0.000	0.000	0.000	0.000	0.009
WNW	0.000	0.000	0.000	0.010	0.000	0.008	0.000	0.000	0.000	0.017
NW	0.000	0.000	0.003	0.011	0.000	0.000	0.000	0.000	0.000	0.014
NNW	0.000	0.000	0.089	0.058	0.000	0.000	0.000	0.000	0.000	0.147
SUBTOTAL	0.000	0.019	0.358	0.457	0.068	0.013	0.000	0.000	0.000	0.915

TOTAL HOURS OF VALID OBSERVATIONS 2064.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 153.760  
 TOTAL HOURS OF STABILITY CLASS F 217.760  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 18.890

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/11/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.012	0.187	0.258	0.009	0.000	0.000	0.000	0.000	0.466
NNE	0.000	0.001	0.037	0.043	0.000	0.000	0.000	0.000	0.000	0.082
NE	0.000	0.008	0.031	0.007	0.000	0.000	0.000	0.000	0.000	0.046
ENE	0.000	0.000	0.041	0.007	0.007	0.000	0.000	0.000	0.000	0.055
E	0.000	0.000	0.000	0.012	0.000	0.000	0.000	0.000	0.000	0.012
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	0.000	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	0.000	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	0.006	0.031	0.015	0.000	0.000	0.000	0.000	0.000	0.051
SUBTOTAL	0.000	0.027	0.328	0.341	0.016	0.000	0.000	0.000	0.000	0.711

TOTAL HOURS OF VALID OBSERVATIONS 2064.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 153.760  
 TOTAL HOURS OF STABILITY CLASS G 80.230  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 14.680

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2008/11/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**METEOROLOGICAL DATA TABLES**

**BROWNS FERRY NUCLEAR PLANT**

**JANUARY – DECEMBER 2008**

**TABLE 17**

**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<=-1.9 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.000	0.127	0.010	0.000	0.000	0.136
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	0.000	0.012	0.023	0.023	0.000	0.000	0.000	0.058
SE	0.000	0.000	0.033	0.090	0.022	0.000	0.000	0.000	0.000	0.145
SSE	0.000	0.000	0.038	0.083	0.000	0.000	0.000	0.000	0.000	0.121
S	0.000	0.000	0.017	0.044	0.025	0.000	0.000	0.000	0.000	0.085
SSW	0.000	0.000	0.006	0.021	0.000	0.000	0.000	0.000	0.000	0.028
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	0.007	0.000	0.000	0.000	0.007
WNW	0.000	0.000	0.000	0.000	0.000	0.006	0.009	0.000	0.000	0.015
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.000	0.000	0.015
NNW	0.000	0.000	0.000	0.000	0.000	0.051	0.009	0.000	0.000	0.060
SUBTOTAL	0.000	0.000	0.094	0.250	0.070	0.231	0.043	0.000	0.000	0.688

TOTAL HOURS OF VALID OBSERVATIONS 2200.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 292.740  
 TOTAL HOURS OF STABILITY CLASS A 25.660  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 15.130

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2009/03/04

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 < DELTA T <= -1.7 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.000	0.038	0.000	0.000	0.000	0.038
NNE	0.000	0.000	0.000	0.000	0.029	0.015	0.000	0.000	0.000	0.044
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	0.002	0.000	0.000	0.000	0.000	0.000	0.002
E	0.000	0.000	0.000	0.005	0.005	0.000	0.000	0.000	0.000	0.010
ESE	0.000	0.000	0.000	0.004	0.006	0.070	0.000	0.000	0.000	0.080
SE	0.000	0.000	0.002	0.052	0.000	0.000	0.000	0.000	0.000	0.054
SSE	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.000	0.017
S	0.000	0.000	0.006	0.023	0.000	0.031	0.000	0.000	0.000	0.060
SSW	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.005
SW	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.004
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	0.004	0.000	0.000	0.000	0.000	0.000	0.004
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.000	0.000	0.012
NW	0.000	0.000	0.000	0.000	0.000	0.046	0.061	0.000	0.000	0.107
NNW	0.000	0.000	0.000	0.000	0.000	0.048	0.009	0.000	0.000	0.057
SUBTOTAL	0.000	0.000	0.008	0.117	0.040	0.255	0.082	0.000	0.000	0.502

TOTAL HOURS OF VALID OBSERVATIONS 2200.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 292.740  
 TOTAL HOURS OF STABILITY CLASS B 20.430  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 11.050

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2009/03/04

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<=-1.5 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.009	0.041	0.000	0.000	0.000	0.050
NNE	0.000	0.000	0.000	0.000	0.009	0.061	0.000	0.000	0.000	0.070
NE	0.000	0.000	0.000	0.000	0.004	0.005	0.000	0.000	0.000	0.010
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	0.013	0.065	0.024	0.000	0.000	0.000	0.102
SE	0.000	0.000	0.000	0.054	0.000	0.000	0.000	0.000	0.000	0.054
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	0.013	0.000	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	0.003	0.007	0.008	0.000	0.000	0.000	0.019
W	0.000	0.000	0.000	0.005	0.011	0.009	0.000	0.000	0.000	0.025
WNW	0.000	0.000	0.000	0.000	0.004	0.038	0.000	0.000	0.000	0.041
NW	0.000	0.000	0.000	0.000	0.005	0.039	0.035	0.000	0.000	0.080
NNW	0.000	0.000	0.000	0.000	0.005	0.052	0.000	0.000	0.000	0.057
SUBTOTAL	0.000	0.000	0.021	0.075	0.119	0.277	0.035	0.000	0.000	0.527

TOTAL HOURS OF VALID OBSERVATIONS 2200.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 292.740  
 TOTAL HOURS OF STABILITY CLASS C 47.850  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 11.600

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2009/03/04

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<=-0.5 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.015	0.112	0.172	0.111	0.000	0.000	0.409
NNE	0.000	0.000	0.000	0.017	0.056	0.060	0.060	0.000	0.000	0.194
NE	0.000	0.000	0.000	0.004	0.032	0.021	0.036	0.000	0.000	0.093
ENE	0.000	0.000	0.000	0.005	0.002	0.000	0.000	0.000	0.000	0.007
E	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.011
ESE	0.000	0.000	0.020	0.055	0.446	0.265	0.000	0.000	0.000	0.785
SE	0.000	0.000	0.037	0.082	0.121	0.030	0.000	0.000	0.000	0.271
SSE	0.000	0.004	0.012	0.055	0.000	0.000	0.000	0.000	0.000	0.071
S	0.000	0.000	0.039	0.017	0.080	0.038	0.000	0.000	0.000	0.175
SSW	0.000	0.000	0.018	0.006	0.000	0.000	0.000	0.000	0.000	0.025
SW	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002
WSW	0.000	0.000	0.002	0.035	0.075	0.000	0.000	0.000	0.000	0.112
W	0.000	0.000	0.000	0.048	0.125	0.105	0.000	0.000	0.000	0.278
WNW	0.000	0.000	0.000	0.006	0.030	0.182	0.170	0.000	0.000	0.389
NW	0.000	0.000	0.000	0.007	0.033	0.303	0.255	0.146	0.000	0.745
NNW	0.000	0.000	0.000	0.016	0.035	0.283	0.135	0.000	0.000	0.469
SUBTOTAL	0.000	0.004	0.130	0.380	1.147	1.460	0.768	0.146	0.000	4.035

TOTAL HOURS OF VALID OBSERVATIONS 2200.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 292.740  
 TOTAL HOURS OF STABILITY CLASS D 1059.170  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 88.760

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2009/03/04

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< DELTA T<= 1.5 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.006	0.054	0.078	0.008	0.017	0.000	0.000	0.163
NNE	0.000	0.000	0.003	0.046	0.042	0.000	0.000	0.000	0.000	0.091
NE	0.000	0.004	0.003	0.041	0.054	0.031	0.000	0.000	0.000	0.133
ENE	0.000	0.000	0.018	0.024	0.019	0.000	0.000	0.000	0.000	0.061
E	0.000	0.000	0.047	0.085	0.000	0.000	0.000	0.000	0.000	0.132
ESE	0.000	0.025	0.128	0.240	0.278	0.116	0.000	0.000	0.000	0.788
SE	0.000	0.017	0.061	0.111	0.017	0.000	0.000	0.000	0.000	0.207
SSE	0.000	0.011	0.156	0.318	0.044	0.000	0.000	0.000	0.000	0.530
S	0.000	0.000	0.107	0.104	0.180	0.175	0.000	0.000	0.000	0.566
SSW	0.000	0.000	0.019	0.026	0.049	0.062	0.000	0.000	0.000	0.157
SW	0.000	0.005	0.018	0.009	0.000	0.000	0.000	0.000	0.000	0.032
WSW	0.000	0.000	0.017	0.021	0.025	0.000	0.000	0.000	0.000	0.063
W	0.000	0.000	0.018	0.040	0.051	0.017	0.000	0.000	0.000	0.125
WNW	0.000	0.000	0.001	0.021	0.025	0.025	0.025	0.000	0.000	0.098
NW	0.000	0.000	0.003	0.024	0.035	0.100	0.047	0.000	0.000	0.210
NNW	0.000	0.000	0.002	0.030	0.114	0.240	0.023	0.000	0.000	0.410
SUBTOTAL	0.000	0.062	0.608	1.196	1.011	0.775	0.112	0.000	0.000	3.764

TOTAL HOURS OF VALID OBSERVATIONS 2200.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 292.740  
 TOTAL HOURS OF STABILITY CLASS E 670.230  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 82.810

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2009/03/04

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< DELTA T<= 4.0 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.059	0.085	0.000	0.000	0.000	0.000	0.000	0.144
NNE	0.000	0.000	0.027	0.158	0.007	0.000	0.000	0.000	0.000	0.192
NE	0.000	0.008	0.020	0.018	0.000	0.000	0.000	0.000	0.000	0.047
ENE	0.000	0.007	0.028	0.038	0.008	0.000	0.000	0.000	0.000	0.081
E	0.000	0.004	0.063	0.082	0.000	0.000	0.000	0.000	0.000	0.149
ESE	0.000	0.006	0.036	0.022	0.000	0.000	0.000	0.000	0.000	0.064
SE	0.000	0.012	0.125	0.059	0.010	0.000	0.000	0.000	0.000	0.206
SSE	0.000	0.006	0.411	0.434	0.000	0.000	0.000	0.000	0.000	0.852
S	0.000	0.030	0.059	0.160	0.410	0.221	0.000	0.000	0.000	0.880
SSW	0.000	0.000	0.006	0.000	0.000	0.022	0.000	0.000	0.000	0.028
SW	0.000	0.000	0.006	0.000	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.005	0.000	0.007	0.000	0.000	0.000	0.000	0.011
NNW	0.000	0.004	0.041	0.095	0.030	0.000	0.000	0.000	0.000	0.170
SUBTOTAL	0.000	0.079	0.892	1.152	0.471	0.243	0.000	0.000	0.000	2.837

TOTAL HOURS OF VALID OBSERVATIONS 2200.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 292.740  
 TOTAL HOURS OF STABILITY CLASS F 257.170  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 62.410

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2009/03/04

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Browns Ferry Nuclear Plant

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCT 1, 2008 - DEC 31, 2008

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	0.087	0.036	0.000	0.000	0.000	0.000	0.000	0.123
NNE	0.000	0.007	0.024	0.047	0.000	0.000	0.000	0.000	0.000	0.077
NE	0.000	0.000	0.020	0.006	0.000	0.000	0.000	0.000	0.000	0.027
ENE	0.000	0.007	0.035	0.016	0.000	0.000	0.000	0.000	0.000	0.059
E	0.000	0.006	0.016	0.005	0.000	0.000	0.000	0.000	0.000	0.027
ESE	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
SE	0.000	0.006	0.056	0.026	0.000	0.000	0.000	0.000	0.000	0.088
SSE	0.000	0.007	0.105	0.067	0.000	0.000	0.000	0.000	0.000	0.179
S	0.000	0.009	0.041	0.119	0.190	0.000	0.000	0.000	0.000	0.359
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	0.002	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.006
SUBTOTAL	0.000	0.055	0.389	0.321	0.190	0.000	0.000	0.000	0.000	0.954

TOTAL HOURS OF VALID OBSERVATIONS 2200.000  
 TOTAL HOURS OF GROUND LEVEL RELEASE 292.740  
 TOTAL HOURS OF STABILITY CLASS G 119.490  
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 20.980

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T 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: 2009/03/04

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**METEOROLOGICAL DATA TABLES**

**BROWNS FERRY NUCLEAR PLANT**

**JANUARY – DECEMBER 2008**

**TABLE 18**

**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<=-1.9 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
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	0.047	0.000	0.000	0.000	0.028	0.000	0.075
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	0.000	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	0.006	0.006
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	0.047	0.000	0.000	0.000	0.028	0.006	0.081

TOTAL HOURS OF VALID OBSERVATIONS 2134.000  
 TOTAL HOURS OF ELEVATED RELEASES 1743.020  
 TOTAL HOURS OF STABILITY CLASS A 13.470  
 TOTAL HOURS OF ELEVATED STABILITY CLASS A 1.730

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/05/05

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 < DELTA T <= -1.7 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
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	0.021	0.000	0.021
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013	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	0.000	0.000	0.000	0.043	0.000	0.000	0.000	0.043
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.000	0.040
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	0.083	0.000	0.034	0.000	0.164

TOTAL HOURS OF VALID OBSERVATIONS 2134.000  
 TOTAL HOURS OF ELEVATED RELEASES 1743.020  
 TOTAL HOURS OF STABILITY CLASS B 12.090  
 TOTAL HOURS OF ELEVATED STABILITY CLASS B 3.490

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/05/05

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 <= -1.5 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
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	0.042	0.000	0.000	0.000	0.042
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	0.000	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	0.044	0.000	0.000	0.000	0.000	0.044
SW	0.000	0.000	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.094
WSW	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
W	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.000	0.000	0.038
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.000	0.037
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	0.040	0.038	0.000	0.000	0.078
SUBTOTAL	0.000	0.000	0.000	0.187	0.090	0.082	0.076	0.037	0.000	0.473

TOTAL HOURS OF VALID OBSERVATIONS 2134.000  
 TOTAL HOURS OF ELEVATED RELEASES 1743.020  
 TOTAL HOURS OF STABILITY CLASS C 23.710  
 TOTAL HOURS OF ELEVATED STABILITY CLASS C 10.090

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/05/05

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 <= -0.5 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.094	0.515	0.318	1.728	0.650	0.000	0.000	3.305
NNE	0.000	0.047	0.000	0.281	0.671	1.325	0.614	0.000	0.000	2.939
NE	0.000	0.000	0.047	0.328	0.489	0.916	0.000	0.000	0.000	1.780
ENE	0.000	0.047	0.094	0.187	0.137	0.205	0.000	0.000	0.000	0.671
E	0.000	0.000	0.000	0.422	0.406	0.209	0.039	0.000	0.000	1.076
ESE	0.000	0.000	0.187	0.328	0.047	0.656	0.380	0.036	0.000	1.634
SE	0.000	0.000	0.094	0.562	0.134	0.369	0.831	0.657	0.000	2.647
SSE	0.000	0.000	0.281	0.422	0.272	0.653	0.877	0.267	0.038	2.811
S	0.000	0.000	0.094	0.375	0.363	0.654	2.352	0.717	0.063	4.618
SSW	0.000	0.000	0.328	0.234	0.181	1.023	1.060	0.306	0.000	3.132
SW	0.000	0.000	0.094	0.469	0.183	0.246	0.306	0.000	0.000	1.298
WSW	0.000	0.000	0.047	0.656	0.498	0.209	0.225	0.143	0.000	1.777
W	0.000	0.000	0.047	0.515	0.536	1.323	0.948	0.313	0.000	3.683
WNW	0.000	0.000	0.094	0.375	0.629	1.354	1.709	0.469	0.025	4.656
NW	0.000	0.000	0.000	0.328	0.721	1.999	2.860	1.124	0.044	7.076
NNW	0.000	0.000	0.047	0.141	0.856	2.192	1.793	0.211	0.000	5.239
SUBTOTAL	0.000	0.094	1.546	6.139	6.442	15.061	14.646	4.242	0.171	48.341

TOTAL HOURS OF VALID OBSERVATIONS 2134.000  
 TOTAL HOURS OF ELEVATED RELEASES 1743.020  
 TOTAL HOURS OF STABILITY CLASS D 1157.440  
 TOTAL HOURS OF ELEVATED STABILITY CLASS D 1031.600

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/05/05

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< DELTA T<= 1.5 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.094	0.047	0.408	0.295	0.076	0.000	0.000	0.919
NNE	0.000	0.000	0.047	0.047	0.224	0.290	0.000	0.000	0.000	0.608
NE	0.000	0.047	0.047	0.141	0.454	0.616	0.117	0.000	0.000	1.421
ENE	0.000	0.000	0.000	0.187	0.315	0.531	0.000	0.000	0.000	1.034
E	0.000	0.000	0.094	0.047	0.222	0.291	0.039	0.000	0.000	0.693
ESE	0.000	0.000	0.141	0.234	0.225	0.820	0.151	0.037	0.007	1.615
SE	0.000	0.000	0.234	0.609	0.403	1.110	0.948	0.463	0.009	3.776
SSE	0.000	0.000	0.141	0.187	0.365	1.147	1.822	0.524	0.048	4.234
S	0.000	0.000	0.281	0.422	0.181	1.211	2.190	0.846	0.040	5.171
SSW	0.000	0.000	0.094	0.234	0.407	0.700	0.264	0.323	0.023	2.045
SW	0.000	0.047	0.094	0.328	0.088	0.576	0.000	0.027	0.004	1.164
WSW	0.000	0.000	0.187	0.281	0.181	0.248	0.037	0.043	0.000	0.978
W	0.000	0.000	0.047	0.187	0.230	0.294	0.115	0.000	0.000	0.873
WNW	0.000	0.000	0.141	0.141	0.180	0.365	0.078	0.000	0.000	0.904
NW	0.000	0.000	0.141	0.375	0.224	0.403	0.115	0.000	0.000	1.257
NNW	0.000	0.000	0.000	0.187	0.184	0.493	0.268	0.000	0.000	1.133
SUBTOTAL	0.000	0.094	1.781	3.655	4.290	9.391	6.219	2.264	0.132	27.824

TOTAL HOURS OF VALID OBSERVATIONS 2134.000  
 TOTAL HOURS OF ELEVATED RELEASES 1743.020  
 TOTAL HOURS OF STABILITY CLASS E 715.440  
 TOTAL HOURS OF ELEVATED STABILITY CLASS E 593.770

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/05/05

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< DELTA T<= 4.0 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.047	0.047	0.088	0.041	0.000	0.000	0.000	0.223
NNE	0.000	0.000	0.047	0.047	0.000	0.085	0.000	0.000	0.000	0.179
NE	0.000	0.000	0.000	0.094	0.000	0.212	0.000	0.000	0.000	0.306
ENE	0.000	0.000	0.000	0.000	0.088	0.247	0.000	0.000	0.000	0.335
E	0.000	0.000	0.000	0.047	0.133	0.206	0.000	0.000	0.000	0.386
ESE	0.000	0.000	0.000	0.047	0.136	0.324	0.039	0.000	0.000	0.546
SE	0.000	0.000	0.000	0.141	0.314	0.503	0.000	0.000	0.000	0.957
SSE	0.000	0.000	0.000	0.047	0.045	0.084	0.038	0.000	0.000	0.214
S	0.000	0.000	0.047	0.000	0.000	0.000	0.038	0.000	0.000	0.085
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.039	0.000	0.000	0.039
SW	0.000	0.000	0.000	0.094	0.090	0.000	0.000	0.000	0.000	0.184
WSW	0.000	0.000	0.000	0.000	0.090	0.043	0.000	0.000	0.000	0.133
W	0.000	0.000	0.047	0.094	0.136	0.000	0.000	0.000	0.000	0.276
WNW	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
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	0.045	0.000	0.000	0.000	0.000	0.045
SUBTOTAL	0.000	0.000	0.187	0.703	1.165	1.744	0.154	0.000	0.000	3.953

TOTAL HOURS OF VALID OBSERVATIONS 2134.000  
 TOTAL HOURS OF ELEVATED RELEASES 1743.020  
 TOTAL HOURS OF STABILITY CLASS F 152.410  
 TOTAL HOURS OF ELEVATED STABILITY CLASS F 84.360

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/05/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
NNE	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.045
NE	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
ENE	0.000	0.000	0.000	0.000	0.000	0.084	0.000	0.000	0.000	0.084
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	0.039	0.000	0.000	0.000	0.039
SE	0.000	0.000	0.000	0.094	0.176	0.126	0.000	0.000	0.000	0.396
SSE	0.000	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.094
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	0.000	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	0.044	0.000	0.000	0.000	0.000	0.044
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	0.094	0.234	0.265	0.250	0.000	0.000	0.000	0.843

TOTAL HOURS OF VALID OBSERVATIONS 2134.000  
 TOTAL HOURS OF ELEVATED RELEASES 1743.020  
 TOTAL HOURS OF STABILITY CLASS G 59.440  
 TOTAL HOURS OF ELEVATED STABILITY CLASS G 17.980

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/05/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**METEOROLOGICAL DATA TABLES**  
**BROWNS FERRY NUCLEAR PLANT**  
**JANUARY – DECEMBER 2008**

**TABLE 19**  
**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<=-1.9 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
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	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.000	0.000	0.041	0.038	0.000	0.000	0.080
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	0.043	0.000	0.000	0.000	0.000	0.043
WSW	0.000	0.000	0.000	0.000	0.000	0.039	0.000	0.000	0.000	0.039
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	0.043	0.080	0.038	0.000	0.000	0.162

TOTAL HOURS OF VALID OBSERVATIONS 2172.000  
 TOTAL HOURS OF ELEVATED RELEASES 1930.720  
 TOTAL HOURS OF STABILITY CLASS A 30.760  
 TOTAL HOURS OF ELEVATED STABILITY CLASS A 3.510

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/08/04

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 < DELTA T <= -1.7 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
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	0.037	0.000	0.000	0.037
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	0.083	0.000	0.000	0.000	0.083
SW	0.000	0.000	0.000	0.046	0.046	0.042	0.000	0.000	0.000	0.134
WSW	0.000	0.000	0.000	0.046	0.134	0.203	0.038	0.000	0.000	0.421
W	0.000	0.000	0.000	0.000	0.000	0.043	0.112	0.017	0.009	0.181
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.009
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	0.092	0.180	0.372	0.187	0.017	0.017	0.865

TOTAL HOURS OF VALID OBSERVATIONS 2172.000  
 TOTAL HOURS OF ELEVATED RELEASES 1930.720  
 TOTAL HOURS OF STABILITY CLASS B 34.160  
 TOTAL HOURS OF ELEVATED STABILITY CLASS B 18.790

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/08/04

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 <= -1.5 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.000	0.039	0.000	0.000	0.000	0.039
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	0.045	0.042	0.000	0.000	0.000	0.087
SSE	0.000	0.000	0.000	0.000	0.000	0.041	0.000	0.000	0.000	0.041
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	0.138	0.045	0.000	0.076	0.000	0.000	0.259
SW	0.000	0.000	0.000	0.322	0.045	0.448	0.038	0.000	0.000	0.853
WSW	0.000	0.000	0.000	0.138	0.221	0.737	0.112	0.000	0.000	1.209
W	0.000	0.000	0.000	0.046	0.087	0.166	0.111	0.050	0.000	0.461
WNW	0.000	0.000	0.000	0.000	0.000	0.078	0.187	0.072	0.015	0.353
NW	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.000	0.040
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.036	0.000	0.000	0.036
SUBTOTAL	0.000	0.000	0.000	0.645	0.443	1.592	0.561	0.122	0.015	3.379

TOTAL HOURS OF VALID OBSERVATIONS 2172.000  
 TOTAL HOURS OF ELEVATED RELEASES 1930.720  
 TOTAL HOURS OF STABILITY CLASS C 88.020  
 TOTAL HOURS OF ELEVATED STABILITY CLASS C 73.390

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/08/04

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 <= -0.5 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.230	0.460	0.360	1.649	0.416	0.000	0.000	3.115
NNE	0.000	0.046	0.138	0.460	0.400	1.139	0.418	0.000	0.000	2.601
NE	0.000	0.000	0.092	0.276	0.402	0.165	0.000	0.000	0.000	0.936
ENE	0.000	0.046	0.138	0.230	0.045	0.040	0.000	0.000	0.000	0.499
E	0.000	0.000	0.138	0.230	0.136	0.000	0.000	0.000	0.000	0.504
ESE	0.000	0.046	0.138	0.322	0.529	0.570	0.075	0.000	0.000	1.680
SE	0.000	0.000	0.322	0.552	0.673	1.573	0.679	0.197	0.000	3.995
SSE	0.000	0.000	0.691	0.783	0.849	1.890	0.855	0.304	0.026	5.396
S	0.000	0.000	0.829	1.151	1.018	2.362	1.835	1.090	0.058	8.342
SSW	0.000	0.000	0.599	0.967	0.617	1.372	0.865	0.131	0.012	4.563
SW	0.000	0.000	0.184	0.875	1.119	0.734	0.076	0.000	0.000	2.988
WSW	0.000	0.000	0.138	0.691	0.621	0.901	0.455	0.000	0.000	2.806
W	0.000	0.000	0.046	0.921	0.616	1.298	0.446	0.056	0.000	3.383
WNW	0.000	0.000	0.138	0.460	0.578	1.326	1.279	0.251	0.021	4.053
NW	0.000	0.000	0.092	0.414	0.402	1.396	0.865	0.090	0.000	3.260
NNW	0.000	0.046	0.092	0.230	0.308	1.282	0.828	0.069	0.000	2.855
SUBTOTAL	0.000	0.184	4.006	9.024	8.673	17.695	9.092	2.187	0.117	50.977

TOTAL HOURS OF VALID OBSERVATIONS 2172.000  
 TOTAL HOURS OF ELEVATED RELEASES 1930.720  
 TOTAL HOURS OF STABILITY CLASS D 1174.160  
 TOTAL HOURS OF ELEVATED STABILITY CLASS D 1107.220

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/08/04

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< DELTA T<= 1.5 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.184	0.138	0.354	0.881	0.038	0.000	0.000	1.595
NNE	0.000	0.000	0.000	0.138	0.179	0.282	0.000	0.000	0.000	0.599
NE	0.000	0.000	0.138	0.092	0.265	0.281	0.000	0.000	0.000	0.776
ENE	0.000	0.000	0.230	0.184	0.088	0.322	0.038	0.000	0.000	0.863
E	0.000	0.046	0.092	0.322	0.176	0.409	0.000	0.000	0.000	1.046
ESE	0.000	0.000	0.414	0.322	0.313	0.765	0.152	0.000	0.000	1.967
SE	0.000	0.000	0.506	0.783	0.528	0.802	0.339	0.119	0.000	3.077
SSE	0.000	0.000	0.322	0.599	0.264	0.923	0.792	0.108	0.018	3.025
S	0.000	0.000	0.322	0.276	0.264	1.079	0.906	0.000	0.000	2.848
SSW	0.000	0.000	0.184	0.552	0.755	1.023	0.189	0.036	0.000	2.740
SW	0.000	0.000	0.092	0.599	0.490	0.084	0.075	0.000	0.000	1.339
WSW	0.000	0.000	0.276	0.230	0.308	0.250	0.113	0.000	0.000	1.177
W	0.000	0.000	0.230	0.138	0.271	0.203	0.000	0.000	0.000	0.842
WNW	0.000	0.046	0.276	0.138	0.088	0.081	0.000	0.000	0.000	0.629
NW	0.000	0.000	0.138	0.368	0.352	0.239	0.189	0.000	0.000	1.286
NNW	0.000	0.000	0.092	0.276	0.265	0.930	0.114	0.000	0.000	1.678
SUBTOTAL	0.000	0.092	3.499	5.157	4.961	8.554	2.945	0.263	0.018	25.488

TOTAL HOURS OF VALID OBSERVATIONS 2172.000  
 TOTAL HOURS OF ELEVATED RELEASES 1930.720  
 TOTAL HOURS OF STABILITY CLASS E 638.100  
 TOTAL HOURS OF ELEVATED STABILITY CLASS E 553.610

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/08/04

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< DELTA T<= 4.0 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.138	0.092	0.317	0.038	0.000	0.000	0.585
NNE	0.000	0.000	0.138	0.046	0.000	0.244	0.000	0.000	0.000	0.428
NE	0.000	0.000	0.046	0.046	0.043	0.122	0.038	0.000	0.000	0.295
ENE	0.000	0.000	0.092	0.046	0.311	0.283	0.000	0.000	0.000	0.732
E	0.000	0.000	0.000	0.138	0.134	0.121	0.038	0.000	0.000	0.430
ESE	0.000	0.000	0.230	0.138	0.177	0.249	0.000	0.000	0.000	0.794
SE	0.000	0.000	0.046	0.092	0.308	0.082	0.000	0.000	0.000	0.529
SSE	0.000	0.000	0.046	0.046	0.221	0.081	0.000	0.000	0.000	0.395
S	0.000	0.000	0.092	0.092	0.088	0.164	0.000	0.000	0.000	0.437
SSW	0.000	0.000	0.046	0.230	0.221	0.120	0.000	0.000	0.000	0.617
SW	0.000	0.046	0.184	0.000	0.000	0.000	0.000	0.000	0.000	0.230
WSW	0.000	0.046	0.046	0.046	0.000	0.042	0.000	0.000	0.000	0.180
W	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.092
WNW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
NW	0.000	0.000	0.000	0.092	0.046	0.000	0.000	0.000	0.000	0.138
NNW	0.000	0.000	0.000	0.046	0.043	0.279	0.000	0.000	0.000	0.368
SUBTOTAL	0.000	0.092	0.967	1.335	1.684	2.104	0.115	0.000	0.000	6.297

TOTAL HOURS OF VALID OBSERVATIONS 2172.000  
 TOTAL HOURS OF ELEVATED RELEASES 1930.720  
 TOTAL HOURS OF STABILITY CLASS F 160.550  
 TOTAL HOURS OF ELEVATED STABILITY CLASS F 136.760

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/08/04

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.046	0.043	0.476	0.038	0.000	0.000	0.603
NNE	0.000	0.000	0.000	0.046	0.046	0.080	0.038	0.000	0.000	0.210
NE	0.000	0.000	0.092	0.092	0.000	0.000	0.000	0.000	0.000	0.184
ENE	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.092
E	0.000	0.000	0.000	0.046	0.044	0.000	0.000	0.000	0.000	0.090
ESE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
SE	0.000	0.000	0.000	0.092	0.270	0.000	0.000	0.000	0.000	0.362
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	0.000	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	0.092	0.045	0.000	0.000	0.000	0.000	0.137
SUBTOTAL	0.000	0.000	0.092	0.552	0.447	0.556	0.076	0.000	0.000	1.724

TOTAL HOURS OF VALID OBSERVATIONS 2172.000  
 TOTAL HOURS OF ELEVATED RELEASES 1930.720  
 TOTAL HOURS OF STABILITY CLASS G 46.250  
 TOTAL HOURS OF ELEVATED STABILITY CLASS G 37.440

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/08/04

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**METEOROLOGICAL DATA TABLES**

**BROWNS FERRY NUCLEAR PLANT**

**JANUARY – DECEMBER 2008**

**TABLE 20**

**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<=-1.9 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
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	0.000	0.000	0.000
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	0.000	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	0.000	0.000	0.000	0.000	0.000

TOTAL HOURS OF VALID OBSERVATIONS 2064.000  
 TOTAL HOURS OF ELEVATED RELEASES 1910.240  
 TOTAL HOURS OF STABILITY CLASS A 21.620  
 TOTAL HOURS OF ELEVATED STABILITY CLASS A 0.000

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/11/19

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 < DELTA T <= -1.7 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
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	0.048	0.000	0.000	0.000	0.000	0.000	0.048
SSE	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.048
S	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.048
SSW	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.048
SW	0.000	0.000	0.000	0.097	0.048	0.045	0.000	0.000	0.000	0.189
WSW	0.000	0.000	0.000	0.000	0.094	0.043	0.000	0.000	0.000	0.137
W	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
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	0.194	0.284	0.088	0.000	0.000	0.000	0.565

TOTAL HOURS OF VALID OBSERVATIONS 2064.000  
 TOTAL HOURS OF ELEVATED RELEASES 1910.240  
 TOTAL HOURS OF STABILITY CLASS B 17.980  
 TOTAL HOURS OF ELEVATED STABILITY CLASS B 11.670

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/11/19

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< DELTA T<=-1.5 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.000	0.085	0.079	0.000	0.000	0.164
NNE	0.000	0.000	0.000	0.000	0.000	0.124	0.000	0.000	0.000	0.124
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	0.000	0.000	0.000	0.043	0.000	0.000	0.000	0.043
SE	0.000	0.000	0.000	0.048	0.046	0.126	0.040	0.000	0.000	0.260
SSE	0.000	0.000	0.000	0.000	0.185	0.000	0.000	0.000	0.000	0.185
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	0.145	0.000	0.000	0.000	0.000	0.000	0.145
SW	0.000	0.000	0.000	0.339	0.048	0.000	0.000	0.000	0.000	0.388
WSW	0.000	0.000	0.000	0.291	0.093	0.045	0.000	0.000	0.000	0.428
W	0.000	0.000	0.000	0.048	0.047	0.127	0.000	0.000	0.000	0.222
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	0.040	0.000	0.000	0.040
SUBTOTAL	0.000	0.000	0.000	0.921	0.418	0.549	0.159	0.000	0.000	2.047

TOTAL HOURS OF VALID OBSERVATIONS 2064.000  
 TOTAL HOURS OF ELEVATED RELEASES 1910.240  
 TOTAL HOURS OF STABILITY CLASS C 49.270  
 TOTAL HOURS OF ELEVATED STABILITY CLASS C 42.250

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/11/19

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< DELTA T<=-0.5 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.048	0.145	0.484	0.653	1.171	0.241	0.000	0.000	2.743
NNE	0.000	0.000	0.145	0.630	0.604	0.678	0.121	0.000	0.000	2.177
NE	0.000	0.000	0.242	0.194	0.331	0.645	0.196	0.000	0.000	1.608
ENE	0.000	0.000	0.145	0.339	0.417	0.259	0.118	0.000	0.000	1.279
E	0.000	0.000	0.339	0.339	0.558	0.515	0.040	0.000	0.000	1.790
ESE	0.000	0.000	0.145	0.194	0.279	1.724	0.554	0.000	0.000	2.896
SE	0.000	0.000	0.533	0.824	0.753	1.594	2.364	0.074	0.000	6.141
SSE	0.000	0.048	0.727	1.260	0.935	0.681	0.944	0.356	0.000	4.950
S	0.000	0.097	0.678	0.969	0.851	0.417	0.311	0.049	0.029	3.400
SSW	0.000	0.000	0.872	1.114	0.421	0.343	0.040	0.047	0.000	2.838
SW	0.000	0.000	0.921	1.938	0.142	0.130	0.000	0.000	0.000	3.131
WSW	0.000	0.000	0.581	1.550	0.896	0.131	0.000	0.000	0.000	3.158
W	0.000	0.000	0.242	1.647	1.497	1.775	0.000	0.000	0.000	5.161
WNW	0.000	0.000	0.097	0.436	0.514	1.713	0.040	0.000	0.000	2.800
NW	0.000	0.000	0.194	0.484	0.283	1.013	0.238	0.000	0.000	2.212
NNW	0.000	0.000	0.339	0.145	0.562	1.317	0.319	0.025	0.000	2.708
SUBTOTAL	0.000	0.194	6.347	12.548	9.695	14.105	5.524	0.551	0.029	48.993

TOTAL HOURS OF VALID OBSERVATIONS 2064.000  
 TOTAL HOURS OF ELEVATED RELEASES 1910.240  
 TOTAL HOURS OF STABILITY CLASS D 1055.720  
 TOTAL HOURS OF ELEVATED STABILITY CLASS D 1011.220

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/11/19

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 < DELTA T <= 1.5 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.048	0.145	0.291	0.604	1.525	0.239	0.000	0.000	2.853
NNE	0.000	0.048	0.242	0.581	0.235	0.385	0.080	0.000	0.000	1.572
NE	0.000	0.000	0.048	0.291	0.325	0.852	0.198	0.044	0.000	1.759
ENE	0.000	0.000	0.242	0.533	0.231	1.107	0.119	0.000	0.000	2.233
E	0.000	0.048	0.048	0.388	0.604	1.249	0.000	0.000	0.000	2.337
ESE	0.000	0.048	0.388	0.194	0.659	1.966	0.080	0.000	0.000	3.336
SE	0.000	0.000	0.339	0.388	0.569	0.600	0.078	0.000	0.000	1.974
SSE	0.000	0.097	0.242	0.581	0.142	0.130	0.199	0.000	0.000	1.392
S	0.000	0.000	0.291	0.727	0.094	0.171	0.040	0.000	0.000	1.322
SSW	0.000	0.000	0.194	0.630	0.284	0.133	0.039	0.000	0.000	1.280
SW	0.000	0.048	0.194	0.581	0.045	0.000	0.000	0.000	0.000	0.869
WSW	0.000	0.048	0.388	0.581	0.383	0.044	0.000	0.000	0.000	1.444
W	0.000	0.000	0.194	0.630	0.374	0.772	0.000	0.000	0.000	1.969
WNW	0.000	0.000	0.097	0.000	0.094	0.215	0.000	0.000	0.000	0.406
NW	0.000	0.000	0.048	0.194	0.329	0.511	0.120	0.000	0.000	1.203
NNW	0.000	0.000	0.242	0.484	0.231	1.113	0.079	0.036	0.000	2.186
SUBTOTAL	0.000	0.388	3.343	7.074	5.203	10.774	1.272	0.080	0.000	28.134

TOTAL HOURS OF VALID OBSERVATIONS 2064.000  
 TOTAL HOURS OF ELEVATED RELEASES 1910.240  
 TOTAL HOURS OF STABILITY CLASS E 621.420  
 TOTAL HOURS OF ELEVATED STABILITY CLASS E 580.680

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/11/19

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< DELTA T<= 4.0 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.097	0.046	0.899	0.040	0.000	0.000	1.081
NNE	0.000	0.000	0.000	0.097	0.277	0.634	0.237	0.000	0.000	1.246
NE	0.000	0.000	0.097	0.145	0.236	0.774	0.000	0.000	0.000	1.252
ENE	0.000	0.000	0.048	0.048	0.276	0.551	0.000	0.000	0.000	0.924
E	0.000	0.000	0.048	0.097	0.319	0.470	0.000	0.000	0.000	0.935
ESE	0.000	0.000	0.048	0.000	0.000	0.515	0.000	0.000	0.000	0.563
SE	0.000	0.000	0.000	0.048	0.047	0.044	0.000	0.000	0.000	0.139
SSE	0.000	0.000	0.242	0.242	0.097	0.000	0.000	0.000	0.000	0.581
S	0.000	0.000	0.145	0.194	0.000	0.000	0.000	0.000	0.000	0.339
SSW	0.000	0.000	0.145	0.000	0.000	0.000	0.000	0.000	0.000	0.145
SW	0.000	0.000	0.097	0.291	0.000	0.000	0.000	0.000	0.000	0.388
WSW	0.000	0.000	0.145	0.097	0.048	0.085	0.040	0.000	0.000	0.416
W	0.000	0.000	0.145	0.194	0.046	0.000	0.000	0.000	0.000	0.385
WNW	0.000	0.048	0.048	0.097	0.000	0.041	0.000	0.000	0.000	0.234
NW	0.000	0.048	0.097	0.000	0.046	0.000	0.000	0.000	0.000	0.191
NNW	0.000	0.000	0.145	0.048	0.186	0.435	0.000	0.000	0.000	0.814
SUBTOTAL	0.000	0.097	1.453	1.696	1.623	4.449	0.318	0.000	0.000	9.635

TOTAL HOURS OF VALID OBSERVATIONS 2064.000  
 TOTAL HOURS OF ELEVATED RELEASES 1910.240  
 TOTAL HOURS OF STABILITY CLASS F 217.760  
 TOTAL HOURS OF ELEVATED STABILITY CLASS F 198.870

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/11/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.048	0.000	0.701	0.359	0.000	0.000	1.108
NNE	0.000	0.000	0.000	0.145	0.141	0.299	0.160	0.000	0.000	0.745
NE	0.000	0.048	0.000	0.242	0.141	0.342	0.000	0.000	0.000	0.773
ENE	0.000	0.000	0.048	0.048	0.047	0.130	0.000	0.000	0.000	0.273
E	0.000	0.000	0.000	0.000	0.000	0.087	0.000	0.000	0.000	0.087
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	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.048
SSE	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.048
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	0.048	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	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.045
SUBTOTAL	0.000	0.048	0.145	0.533	0.373	1.558	0.519	0.000	0.000	3.176

TOTAL HOURS OF VALID OBSERVATIONS 2064.000  
 TOTAL HOURS OF ELEVATED RELEASES 1910.240  
 TOTAL HOURS OF STABILITY CLASS G 80.230  
 TOTAL HOURS OF ELEVATED STABILITY CLASS G 65.550

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2008/11/19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**METEOROLOGICAL DATA TABLES**

**BROWNS FERRY NUCLEAR PLANT**

**JANUARY – DECEMBER 2008**

**TABLE 21**

**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<=-1.9 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
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	0.037	0.052	0.000	0.089
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.000	0.000	0.037
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	0.040	0.000	0.000	0.000	0.040
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	0.045	0.000	0.000	0.039	0.000	0.000	0.000	0.085
WNW	0.000	0.000	0.000	0.000	0.000	0.038	0.112	0.000	0.000	0.150
NW	0.000	0.000	0.000	0.000	0.000	0.040	0.037	0.000	0.000	0.077
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	0.045	0.000	0.000	0.158	0.223	0.052	0.000	0.479

TOTAL HOURS OF VALID OBSERVATIONS 2200.000  
 TOTAL HOURS OF ELEVATED RELEASES 1907.260  
 TOTAL HOURS OF STABILITY CLASS A 25.660  
 TOTAL HOURS OF ELEVATED STABILITY CLASS A 10.530

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2009/03/04

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< DELTA T<=-1.7 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.000	0.077	0.000	0.000	0.000	0.077
NNE	0.000	0.000	0.000	0.000	0.000	0.041	0.000	0.000	0.000	0.041
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	0.045	0.000	0.000	0.000	0.030	0.000	0.075
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.000	0.040
SW	0.000	0.000	0.000	0.000	0.000	0.038	0.000	0.000	0.000	0.038
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	0.036	0.000	0.000	0.036
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.074	0.000	0.000	0.074
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	0.045	0.044	0.197	0.110	0.030	0.000	0.426

TOTAL HOURS OF VALID OBSERVATIONS 2200.000  
 TOTAL HOURS OF ELEVATED RELEASES 1907.260  
 TOTAL HOURS OF STABILITY CLASS B 20.430  
 TOTAL HOURS OF ELEVATED STABILITY CLASS B 9.380

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2009/03/04

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<=-1.5 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.000	0.080	0.038	0.000	0.000	0.117
NNE	0.000	0.000	0.000	0.000	0.043	0.000	0.000	0.000	0.000	0.043
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	0.044	0.000	0.000	0.000	0.000	0.044
ESE	0.000	0.000	0.000	0.000	0.132	0.121	0.000	0.000	0.000	0.253
SE	0.000	0.000	0.000	0.045	0.000	0.000	0.038	0.049	0.000	0.132
SSE	0.000	0.000	0.000	0.091	0.085	0.042	0.000	0.000	0.000	0.218
S	0.000	0.000	0.000	0.000	0.132	0.000	0.000	0.000	0.000	0.132
SSW	0.000	0.000	0.000	0.000	0.000	0.080	0.000	0.000	0.000	0.080
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	0.045	0.000	0.043	0.156	0.037	0.000	0.000	0.282
W	0.000	0.000	0.000	0.000	0.000	0.119	0.000	0.000	0.000	0.119
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.036	0.000	0.000	0.036
NW	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.036	0.000	0.075
NNW	0.000	0.000	0.000	0.000	0.000	0.116	0.000	0.000	0.000	0.116
SUBTOTAL	0.000	0.000	0.045	0.136	0.480	0.753	0.149	0.085	0.000	1.648
TOTAL HOURS OF VALID OBSERVATIONS				2200.000						
TOTAL HOURS OF ELEVATED RELEASES				1907.260						
TOTAL HOURS OF STABILITY CLASS C				47.850						
TOTAL HOURS OF ELEVATED STABILITY CLASS C				36.250						

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2009/03/04

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<=-0.5 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.091	0.136	0.455	0.354	1.845	1.596	0.201	0.000	4.679
NNE	0.000	0.000	0.091	0.182	0.785	1.193	0.411	0.077	0.005	2.743
NE	0.000	0.000	0.045	0.409	0.566	0.320	0.110	0.000	0.000	1.451
ENE	0.000	0.000	0.136	0.136	0.221	0.041	0.000	0.000	0.000	0.535
E	0.000	0.000	0.182	0.227	0.090	0.082	0.000	0.000	0.000	0.581
ESE	0.000	0.045	0.182	0.409	0.397	0.824	0.517	0.036	0.000	2.410
SE	0.000	0.000	0.455	1.227	0.518	1.377	1.104	0.785	0.046	5.512
SSE	0.000	0.091	0.455	0.818	0.565	1.260	0.845	0.495	0.073	4.601
S	0.000	0.000	0.227	0.545	0.747	0.877	0.520	0.180	0.051	3.148
SSW	0.000	0.000	0.273	0.636	0.219	0.440	0.293	0.045	0.012	1.919
SW	0.000	0.045	0.318	0.455	0.174	0.281	0.147	0.000	0.000	1.420
WSW	0.000	0.045	0.318	0.273	0.394	1.034	0.149	0.000	0.000	2.213
W	0.000	0.000	0.273	0.273	0.262	1.357	0.408	0.020	0.000	2.593
WNW	0.000	0.000	0.091	0.182	0.265	1.613	0.627	0.317	0.000	3.096
NW	0.000	0.000	0.136	0.227	0.087	0.711	2.036	0.575	0.036	3.810
NNW	0.000	0.000	0.136	0.273	0.175	1.262	1.442	0.110	0.000	3.399
SUBTOTAL	0.000	0.318	3.455	6.727	5.819	14.518	10.208	2.842	0.223	44.110
TOTAL HOURS OF VALID OBSERVATIONS				2200.000						
TOTAL HOURS OF ELEVATED RELEASES				1907.260						
TOTAL HOURS OF STABILITY CLASS D				1059.170						
TOTAL HOURS OF ELEVATED STABILITY CLASS D				970.410						

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2009/03/04

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< DELTA T<= 1.5 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.045	0.000	0.227	0.089	0.563	0.150	0.000	0.000	1.075
NNE	0.000	0.000	0.136	0.136	0.220	0.760	0.000	0.000	0.000	1.252
NE	0.000	0.045	0.136	0.273	0.219	0.675	0.075	0.000	0.000	1.423
ENE	0.000	0.045	0.000	0.182	0.312	0.360	0.075	0.000	0.000	0.975
E	0.000	0.000	0.318	0.409	0.526	0.655	0.000	0.000	0.000	1.908
ESE	0.000	0.045	0.273	0.364	0.435	1.504	0.413	0.000	0.000	3.034
SE	0.000	0.000	0.591	0.818	0.916	1.044	0.739	0.270	0.011	4.390
SSE	0.000	0.045	0.227	0.318	0.746	0.760	0.256	0.259	0.004	2.616
S	0.000	0.136	0.409	0.409	0.128	0.479	0.037	0.069	0.023	1.690
SSW	0.000	0.000	0.273	0.273	0.089	0.323	0.037	0.025	0.007	1.025
SW	0.000	0.000	0.318	0.545	0.265	0.120	0.036	0.000	0.000	1.285
WSW	0.000	0.091	0.227	0.364	0.350	0.165	0.036	0.000	0.000	1.232
W	0.000	0.000	0.091	0.136	0.393	0.280	0.000	0.000	0.000	0.901
WNW	0.000	0.045	0.227	0.182	0.132	0.201	0.000	0.000	0.000	0.787
NW	0.000	0.000	0.136	0.091	0.131	0.750	0.519	0.000	0.000	1.627
NNW	0.000	0.000	0.091	0.091	0.131	0.870	0.298	0.000	0.000	1.482
SUBTOTAL	0.000	0.500	3.455	4.818	5.081	9.507	2.672	0.623	0.045	26.701

TOTAL HOURS OF VALID OBSERVATIONS 2200.000  
 TOTAL HOURS OF ELEVATED RELEASES 1907.260  
 TOTAL HOURS OF STABILITY CLASS E 670.230  
 TOTAL HOURS OF ELEVATED STABILITY CLASS E 587.420

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2009/03/04

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< DELTA T<= 4.0 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.045	0.000	0.000	0.322	0.000	0.000	0.000	0.368
NNE	0.000	0.045	0.045	0.045	0.000	0.476	0.000	0.000	0.000	0.613
NE	0.000	0.091	0.091	0.000	0.086	0.565	0.000	0.000	0.000	0.833
ENE	0.000	0.000	0.182	0.045	0.000	0.355	0.000	0.000	0.000	0.582
E	0.000	0.045	0.136	0.045	0.180	0.245	0.000	0.000	0.000	0.651
ESE	0.000	0.045	0.273	0.227	0.349	0.570	0.000	0.000	0.000	1.464
SE	0.000	0.000	0.273	0.455	0.313	0.320	0.036	0.000	0.000	1.396
SSE	0.000	0.000	0.045	0.273	0.000	0.084	0.000	0.000	0.000	0.402
S	0.000	0.045	0.318	0.182	0.091	0.000	0.000	0.000	0.000	0.636
SSW	0.000	0.000	0.227	0.182	0.131	0.000	0.000	0.000	0.000	0.540
SW	0.000	0.000	0.000	0.227	0.090	0.000	0.000	0.000	0.000	0.318
WSW	0.000	0.000	0.136	0.091	0.045	0.000	0.000	0.000	0.000	0.273
W	0.000	0.000	0.182	0.045	0.045	0.042	0.000	0.000	0.000	0.314
WNW	0.000	0.000	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.091
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	0.090	0.283	0.000	0.000	0.000	0.372
SUBTOTAL	0.000	0.273	2.000	1.864	1.419	3.261	0.036	0.000	0.000	8.853

TOTAL HOURS OF VALID OBSERVATIONS 2200.000  
 TOTAL HOURS OF ELEVATED RELEASES 1907.260  
 TOTAL HOURS OF STABILITY CLASS F 257.170  
 TOTAL HOURS OF ELEVATED STABILITY CLASS F 194.760

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2009/03/04

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Browns Ferry Nuclear Plant

PART 2 OF 2 ELEVATED RELEASE MODE

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.136	0.000	0.000	0.197	0.000	0.000	0.000	0.334
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.150	0.000	0.000	0.150
NE	0.000	0.000	0.000	0.045	0.177	0.286	0.000	0.000	0.000	0.509
ENE	0.000	0.000	0.000	0.000	0.043	0.000	0.000	0.000	0.000	0.043
E	0.000	0.000	0.000	0.091	0.042	0.042	0.000	0.000	0.000	0.175
ESE	0.000	0.000	0.045	0.182	0.308	0.163	0.000	0.000	0.000	0.698
SE	0.000	0.000	0.227	0.409	0.487	0.205	0.000	0.000	0.000	1.329
SSE	0.000	0.000	0.091	0.182	0.130	0.122	0.000	0.000	0.000	0.525
S	0.000	0.000	0.091	0.045	0.043	0.000	0.000	0.000	0.000	0.180
SSW	0.000	0.000	0.045	0.000	0.000	0.000	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	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.045
W	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.045
WNW	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.045
NW	0.000	0.000	0.045	0.091	0.000	0.000	0.000	0.000	0.000	0.136
NNW	0.000	0.000	0.091	0.045	0.043	0.039	0.000	0.000	0.000	0.218
SUBTOTAL	0.000	0.000	0.909	1.091	1.273	1.054	0.150	0.000	0.000	4.478

TOTAL HOURS OF VALID OBSERVATIONS 2200.000  
 TOTAL HOURS OF ELEVATED RELEASES 1907.260  
 TOTAL HOURS OF STABILITY CLASS G 119.490  
 TOTAL HOURS OF ELEVATED STABILITY CLASS G 98.510

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 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: 2009/03/04

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**METEOROLOGICAL DATA TABLES**

**BROWNS FERRY NUCLEAR PLANT**

**JANUARY – DECEMBER 2008**

**TABLE 22**

**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<=-1.9 C/100 M)

Browns Ferry Nuclear Plant

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
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	0.046	0.000	0.000	0.000	0.046	0.000	0.093
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.046
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	0.046	0.046
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	0.000	0.000	0.000	0.046	0.093	0.185

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2162
TOTAL HOURS OF STABILITY CLASS A	4
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	4
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2162
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/05/05

MEAN WIND SPEED = 22.15

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < DELTA T <= -1.7 C/100 M)

Browns Ferry Nuclear Plant

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
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	0.046	0.000	0.046
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.046
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	0.046	0.000	0.000	0.000	0.046
WSW	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
W	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.046
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	0.046	0.046	0.046	0.046	0.046	0.231

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2162  
 TOTAL HOURS OF STABILITY CLASS B 5  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 5  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2162  
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/05/05

MEAN WIND SPEED = 15.86

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<=-1.5 C/100 M)

Browns Ferry Nuclear Plant

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.046	0.000	0.046	0.000	0.000	0.093
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	0.046	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	0.000	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	0.000	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	0.046	0.000	0.000	0.000	0.046
SW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
WSW	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.093
W	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.046
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.046
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	0.046	0.046	0.000	0.000	0.093
SUBTOTAL	0.000	0.000	0.046	0.093	0.093	0.139	0.139	0.046	0.000	0.555

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2162
TOTAL HOURS OF STABILITY CLASS C	12
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	12
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2162
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/05/05

MEAN WIND SPEED = 10.73

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS



JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5< DELTA T<=-0.5 C/100 M)

Browns Ferry Nuclear Plant

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.416	0.231	1.804	1.110	0.093	0.000	3.654
NNE	0.000	0.000	0.139	0.185	0.278	1.711	1.156	0.231	0.000	3.700
NE	0.000	0.000	0.046	0.139	0.185	1.295	0.324	0.046	0.046	2.081
ENE	0.000	0.046	0.046	0.046	0.139	0.278	0.046	0.000	0.000	0.601
E	0.000	0.046	0.000	0.231	0.139	0.555	0.093	0.000	0.000	1.064
ESE	0.000	0.000	0.093	0.463	0.370	0.324	0.740	0.278	0.000	2.266
SE	0.000	0.000	0.370	0.278	0.046	0.324	0.786	1.434	0.416	3.654
SSE	0.000	0.000	0.046	0.139	0.139	0.509	1.110	0.509	0.879	3.330
S	0.000	0.000	0.139	0.139	0.370	0.786	2.359	1.804	0.740	6.337
SSW	0.000	0.000	0.231	0.231	0.324	0.555	1.295	0.925	0.093	3.654
SW	0.000	0.000	0.278	0.278	0.139	0.278	0.370	0.139	0.000	1.480
WSW	0.000	0.000	0.093	0.324	0.463	0.324	0.093	0.324	0.185	1.804
W	0.000	0.000	0.046	0.463	0.463	1.203	1.295	0.971	0.601	5.042
WNW	0.000	0.000	0.000	0.370	0.509	1.665	1.711	1.295	0.463	6.013
NW	0.000	0.046	0.000	0.185	0.463	1.295	3.469	2.174	1.110	8.742
NNW	0.000	0.000	0.139	0.046	0.324	1.665	3.053	0.648	0.046	5.920
SUBTOTAL	0.000	0.139	1.665	3.932	4.579	14.570	19.010	10.870	4.579	59.343

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2162  
 TOTAL HOURS OF STABILITY CLASS D 1283  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 1283  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2162  
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/05/05

MEAN WIND SPEED = 14.24

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<= 1.5 C/100 M)

Browns Ferry Nuclear Plant

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.046	0.000	0.601	0.139	0.046	0.000	0.833
NNE	0.000	0.000	0.000	0.139	0.046	0.509	0.093	0.139	0.000	0.925
NE	0.000	0.000	0.000	0.093	0.231	0.601	0.463	0.093	0.000	1.480
ENE	0.000	0.000	0.000	0.046	0.000	0.370	0.463	0.000	0.000	0.879
E	0.000	0.000	0.046	0.185	0.093	0.786	0.093	0.000	0.000	1.203
ESE	0.000	0.000	0.093	0.231	0.000	0.416	0.463	0.185	0.185	1.573
SE	0.000	0.000	0.000	0.509	0.231	0.694	0.694	0.740	0.370	3.238
SSE	0.000	0.000	0.231	0.000	0.093	1.018	1.989	1.665	1.110	6.105
S	0.000	0.000	0.000	0.139	0.185	0.971	2.313	2.960	1.156	7.724
SSW	0.000	0.000	0.093	0.139	0.093	0.648	0.786	0.786	0.231	2.775
SW	0.000	0.046	0.093	0.093	0.231	0.648	0.694	0.000	0.093	1.896
WSW	0.000	0.000	0.046	0.185	0.046	0.185	0.231	0.046	0.093	0.833
W	0.000	0.000	0.046	0.139	0.046	0.416	0.555	0.093	0.000	1.295
WNW	0.000	0.000	0.093	0.231	0.324	0.185	0.416	0.000	0.000	1.249
NW	0.000	0.046	0.046	0.278	0.000	0.509	0.370	0.046	0.000	1.295
NNW	0.000	0.000	0.046	0.046	0.139	0.231	0.648	0.046	0.000	1.156
SUBTOTAL	0.000	0.093	0.833	2.498	1.758	8.788	10.407	6.846	3.238	34.459

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2162  
 TOTAL HOURS OF STABILITY CLASS E 745  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 745  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2162  
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/05/05

MEAN WIND SPEED = 14.85

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F ( 1.5< DELTA T<= 4.0 C/100 M)

Browns Ferry Nuclear Plant

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.046	0.093	0.093	0.000	0.000	0.231
NNE	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.093
NE	0.000	0.000	0.000	0.000	0.000	0.093	0.046	0.000	0.000	0.139
ENE	0.000	0.000	0.000	0.093	0.000	0.046	0.139	0.000	0.000	0.278
E	0.000	0.000	0.000	0.000	0.046	0.231	0.139	0.046	0.000	0.463
ESE	0.000	0.000	0.046	0.046	0.046	0.278	0.139	0.046	0.000	0.601
SE	0.000	0.000	0.000	0.093	0.046	0.231	0.324	0.000	0.000	0.694
SSE	0.000	0.000	0.000	0.000	0.093	0.463	0.231	0.046	0.000	0.833
S	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.046	0.000	0.139
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.046
SW	0.000	0.000	0.000	0.046	0.000	0.046	0.046	0.000	0.046	0.185
WSW	0.000	0.000	0.000	0.000	0.000	0.093	0.093	0.000	0.000	0.185
W	0.000	0.000	0.000	0.046	0.046	0.139	0.046	0.000	0.000	0.278
WNW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
NW	0.000	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.093
NNW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
SUBTOTAL	0.000	0.000	0.046	0.324	0.416	1.896	1.388	0.231	0.046	4.348

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2162  
 TOTAL HOURS OF STABILITY CLASS F 94  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 94  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2162  
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/05/05

MEAN WIND SPEED = 11.40

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Browns Ferry Nuclear Plant

JAN 1, 2008 - MAR 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
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	0.046	0.046	0.000	0.000	0.093
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.046	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	0.093	0.000	0.000	0.093
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	0.139	0.231	0.000	0.000	0.370
SSE	0.000	0.000	0.000	0.000	0.093	0.093	0.000	0.000	0.000	0.185
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	0.093	0.000	0.000	0.000	0.000	0.093
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	0.185	0.278	0.416	0.000	0.000	0.879

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2162
TOTAL HOURS OF STABILITY CLASS G	19
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	19
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2162
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/05/05

MEAN WIND SPEED = 11.38

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**METEOROLOGICAL DATA TABLES**  
**BROWNS FERRY NUCLEAR PLANT**  
**JANUARY – DECEMBER 2008**

**TABLE 23**  
**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<=-1.9 C/100 M)

Browns Ferry Nuclear Plant

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
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	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.092
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	0.046	0.000	0.000	0.000	0.046
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.046	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	0.000	0.000	0.092	0.092	0.000	0.000	0.184

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2177
TOTAL HOURS OF STABILITY CLASS A	4
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	4
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2177
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/08/04

MEAN WIND SPEED = 11.82

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < DELTA T <= -1.7 C/100 M)

Browns Ferry Nuclear Plant

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
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	0.046	0.000	0.046
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	0.046	0.046	0.000	0.000	0.092
SW	0.000	0.000	0.000	0.000	0.092	0.092	0.000	0.000	0.000	0.184
WSW	0.000	0.000	0.000	0.046	0.000	0.276	0.138	0.046	0.000	0.505
W	0.000	0.000	0.000	0.000	0.000	0.000	0.092	0.000	0.138	0.230
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	0.092	0.413	0.276	0.092	0.138	1.056

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2177  
 TOTAL HOURS OF STABILITY CLASS B 23  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 23  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2177  
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/08/04

MEAN WIND SPEED = 14.27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7< DELTA T<=-1.5 C/100 M)

Browns Ferry Nuclear Plant

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.046
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	0.000	0.000	0.000	0.000	0.046
SE	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
SSE	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
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	0.138	0.046	0.000	0.046	0.000	0.000	0.230
SW	0.000	0.000	0.000	0.138	0.230	0.230	0.322	0.046	0.000	0.965
WSW	0.000	0.000	0.000	0.046	0.230	0.827	0.230	0.138	0.000	1.470
W	0.000	0.000	0.000	0.000	0.046	0.138	0.000	0.138	0.092	0.413
WNW	0.000	0.000	0.000	0.000	0.000	0.092	0.184	0.092	0.184	0.551
NW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.046
SUBTOTAL	0.000	0.000	0.000	0.322	0.597	1.424	0.827	0.459	0.276	3.904

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2177  
 TOTAL HOURS OF STABILITY CLASS C 85  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 85  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2177  
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/08/04

MEAN WIND SPEED = 12.70

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS



JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5< DELTA T<=-0.5 C/100 M)

Browns Ferry Nuclear Plant

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.046	0.092	0.367	0.413	1.332	0.965	0.046	0.000	3.261
NNE	0.000	0.000	0.046	0.413	0.367	1.194	0.873	0.000	0.000	2.894
NE	0.000	0.000	0.230	0.184	0.322	0.413	0.184	0.000	0.000	1.332
ENE	0.000	0.000	0.138	0.276	0.184	0.046	0.000	0.000	0.000	0.643
E	0.000	0.000	0.092	0.138	0.230	0.046	0.092	0.000	0.000	0.597
ESE	0.000	0.000	0.138	0.184	0.459	1.194	0.230	0.046	0.000	2.251
SE	0.000	0.046	0.413	0.413	0.689	1.148	1.102	0.413	0.046	4.272
SSE	0.000	0.000	0.551	0.551	0.413	1.975	1.240	0.919	0.413	6.063
S	0.000	0.000	0.597	0.689	0.873	1.791	2.756	2.067	1.148	9.922
SSW	0.000	0.000	0.230	0.873	0.413	1.470	1.470	0.459	0.230	5.145
SW	0.000	0.000	0.138	0.551	0.551	1.562	0.597	0.138	0.000	3.537
WSW	0.000	0.000	0.092	0.735	0.322	1.194	0.735	0.276	0.000	3.353
W	0.000	0.000	0.046	0.505	0.597	1.240	0.597	0.505	0.092	3.583
WNW	0.000	0.000	0.138	0.413	0.597	1.516	1.516	0.689	0.276	5.145
NW	0.000	0.000	0.046	0.367	0.367	0.781	1.148	0.276	0.000	2.986
NNW	0.000	0.046	0.138	0.184	0.230	1.194	1.516	0.184	0.000	3.491
SUBTOTAL	0.000	0.138	3.124	6.844	7.028	18.098	15.021	6.017	2.205	58.475

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2177  
 TOTAL HOURS OF STABILITY CLASS D 1273  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 1273  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2177  
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/08/04

MEAN WIND SPEED = 11.57

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<= 1.5 C/100 M)

Browns Ferry Nuclear Plant

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.046	0.230	0.643	0.965	0.000	0.000	1.883
NNE	0.000	0.046	0.092	0.046	0.184	0.413	0.276	0.000	0.000	1.056
NE	0.000	0.000	0.000	0.092	0.138	0.276	0.184	0.000	0.000	0.689
ENE	0.000	0.000	0.046	0.184	0.046	0.413	0.276	0.000	0.000	0.965
E	0.000	0.000	0.046	0.138	0.092	0.276	0.138	0.000	0.000	0.689
ESE	0.000	0.046	0.138	0.184	0.413	0.597	0.597	0.138	0.000	2.113
SE	0.000	0.000	0.184	0.413	0.643	0.643	1.102	0.322	0.046	3.353
SSE	0.000	0.000	0.322	0.322	0.459	0.643	1.056	0.413	0.322	3.537
S	0.000	0.046	0.138	0.367	0.230	0.735	1.929	0.367	0.000	3.813
SSW	0.000	0.000	0.000	0.230	0.092	0.919	1.286	0.046	0.000	2.572
SW	0.000	0.000	0.000	0.138	0.184	0.873	0.643	0.092	0.000	1.929
WSW	0.000	0.000	0.092	0.184	0.092	0.322	0.322	0.000	0.000	1.011
W	0.000	0.000	0.092	0.276	0.276	0.230	0.230	0.000	0.000	1.102
WNW	0.000	0.000	0.138	0.046	0.230	0.092	0.046	0.000	0.000	0.551
NW	0.000	0.000	0.092	0.138	0.276	0.413	0.184	0.046	0.000	1.148
NNW	0.000	0.000	0.138	0.046	0.184	0.322	0.781	0.000	0.000	1.470
SUBTOTAL	0.000	0.138	1.516	2.848	3.767	7.809	10.014	1.424	0.367	27.882

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2177  
 TOTAL HOURS OF STABILITY CLASS E 607  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 607  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2177  
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/08/04

MEAN WIND SPEED = 11.02

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F ( 1.5< DELTA T<= 4.0 C/100 M)

Browns Ferry Nuclear Plant

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.092	0.046	0.413	0.092	0.000	0.643
NNE	0.000	0.000	0.000	0.000	0.092	0.276	0.138	0.000	0.000	0.505
NE	0.000	0.000	0.000	0.000	0.092	0.046	0.092	0.046	0.000	0.276
ENE	0.000	0.000	0.046	0.046	0.046	0.184	0.230	0.092	0.000	0.643
E	0.000	0.000	0.046	0.046	0.138	0.184	0.092	0.000	0.000	0.505
ESE	0.000	0.000	0.138	0.138	0.230	0.184	0.138	0.046	0.000	0.873
SE	0.000	0.000	0.000	0.184	0.138	0.322	0.000	0.000	0.000	0.643
SSE	0.000	0.000	0.092	0.046	0.092	0.276	0.000	0.000	0.000	0.505
S	0.000	0.000	0.000	0.000	0.046	0.138	0.322	0.000	0.000	0.505
SSW	0.000	0.046	0.000	0.046	0.046	0.184	0.322	0.000	0.000	0.643
SW	0.000	0.000	0.046	0.000	0.092	0.230	0.000	0.000	0.000	0.367
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.046
W	0.000	0.000	0.046	0.046	0.000	0.046	0.000	0.000	0.000	0.138
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.046	0.092	0.184	0.000	0.000	0.322
SUBTOTAL	0.000	0.046	0.459	0.551	1.148	2.205	1.975	0.276	0.000	6.661

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2177
TOTAL HOURS OF STABILITY CLASS F	145
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	145
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2177
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/08/04

MEAN WIND SPEED = 10.36

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Browns Ferry Nuclear Plant

APR 1, 2008 - JUN 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.000	0.092	0.184	0.046	0.000	0.322
NNE	0.000	0.000	0.000	0.000	0.000	0.230	0.322	0.230	0.000	0.781
NE	0.000	0.000	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.092
ENE	0.000	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.092
E	0.000	0.000	0.000	0.046	0.046	0.046	0.046	0.000	0.000	0.184
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	0.367	0.000	0.000	0.000	0.367
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	0.046	0.092	0.873	0.551	0.276	0.000	1.837

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2177  
 TOTAL HOURS OF STABILITY CLASS G 40  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 40  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2177  
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/08/04

MEAN WIND SPEED = 12.84

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**METEOROLOGICAL DATA TABLES**

**BROWNS FERRY NUCLEAR PLANT**

**JANUARY – DECEMBER 2008**

**TABLE 24**

**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<=-1.9 C/100 M)

Browns Ferry Nuclear Plant

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
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	0.000	0.000	0.000
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	0.000	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	0.000	0.000	0.000	0.000	0.000

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2064
TOTAL HOURS OF STABILITY CLASS A	0
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	0
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2064
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/11/19

MEAN WIND SPEED = 0.00

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < DELTA T <= -1.7 C/100 M)

Browns Ferry Nuclear Plant

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
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	0.048	0.000	0.000	0.000	0.000	0.000	0.048
SSE	0.000	0.000	0.000	0.048	0.048	0.000	0.000	0.000	0.000	0.097
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	0.048	0.000	0.000	0.000	0.000	0.048
SW	0.000	0.000	0.000	0.000	0.097	0.097	0.000	0.000	0.000	0.194
WSW	0.000	0.000	0.000	0.000	0.048	0.097	0.000	0.000	0.000	0.145
W	0.000	0.000	0.000	0.000	0.000	0.048	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	0.000	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	0.242	0.242	0.000	0.000	0.000	0.581

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2064
TOTAL HOURS OF STABILITY CLASS B	12
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	12
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2064
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/11/19

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 C (-1.7 < DELTA T <= -1.5 C/100 M)

Browns Ferry Nuclear Plant

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.000	0.097	0.194	0.000	0.000	0.291
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.097	0.000	0.000	0.097
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	0.048	0.000	0.000	0.000	0.000	0.048
ESE	0.000	0.000	0.000	0.000	0.000	0.097	0.097	0.000	0.000	0.194
SE	0.000	0.000	0.000	0.000	0.048	0.097	0.048	0.000	0.000	0.194
SSE	0.000	0.000	0.000	0.000	0.048	0.097	0.000	0.000	0.000	0.145
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	0.145	0.000	0.000	0.000	0.000	0.000	0.145
SW	0.000	0.000	0.000	0.242	0.145	0.000	0.000	0.000	0.000	0.388
WSW	0.000	0.000	0.000	0.194	0.097	0.097	0.000	0.000	0.000	0.388
W	0.000	0.000	0.000	0.048	0.097	0.097	0.048	0.000	0.000	0.291
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	0.630	0.484	0.581	0.484	0.000	0.000	2.180

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2064  
 TOTAL HOURS OF STABILITY CLASS C 45  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 45  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2064  
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/11/19

MEAN WIND SPEED = 8.53

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS



JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5< DELTA T<=-0.5 C/100 M)

Browns Ferry Nuclear Plant

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.002	0.000	0.242	0.339	0.630	0.969	1.211	0.000	0.000	3.394
NNE	0.001	0.000	0.097	0.388	0.484	0.872	0.484	0.000	0.000	2.327
NE	0.002	0.000	0.194	0.291	0.194	0.824	0.242	0.145	0.000	1.892
ENE	0.001	0.000	0.097	0.291	0.291	0.678	0.097	0.145	0.000	1.600
E	0.001	0.000	0.145	0.242	0.145	0.581	0.436	0.000	0.000	1.552
ESE	0.002	0.000	0.242	0.291	0.388	1.017	2.229	0.581	0.000	4.751
SE	0.004	0.000	0.436	0.775	0.630	1.211	2.519	1.114	0.048	6.739
SSE	0.008	0.097	0.678	0.678	0.824	0.775	0.727	0.775	0.339	4.901
S	0.003	0.000	0.339	0.581	0.678	0.484	0.291	0.242	0.291	2.910
SSW	0.006	0.000	0.581	0.969	0.630	0.484	0.242	0.048	0.048	3.010
SW	0.005	0.000	0.484	1.357	0.533	0.484	0.097	0.000	0.000	2.960
WSW	0.004	0.000	0.436	1.599	0.630	0.533	0.048	0.000	0.000	3.251
W	0.003	0.000	0.291	1.599	1.308	2.277	0.291	0.000	0.000	5.768
WNW	0.001	0.000	0.097	0.339	0.630	2.035	0.291	0.000	0.000	3.392
NW	0.001	0.000	0.097	0.339	0.339	0.727	0.533	0.000	0.000	2.036
NNW	0.002	0.000	0.194	0.097	0.436	1.211	0.678	0.097	0.000	2.715
SUBTOTAL	0.048	0.097	4.651	10.174	8.769	15.165	10.417	3.149	0.727	53.198

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2064  
 TOTAL HOURS OF STABILITY CLASS D 1098  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 1098  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2064  
 TOTAL HOURS CALM 1

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/11/19

MEAN WIND SPEED = 9.37

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<= 1.5 C/100 M)

Browns Ferry Nuclear Plant

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.048	0.000	0.194	0.145	0.727	1.696	0.145	0.000	2.955
NNE	0.000	0.000	0.097	0.145	0.436	0.775	0.291	0.145	0.000	1.890
NE	0.000	0.000	0.145	0.242	0.388	0.727	0.630	0.242	0.097	2.471
ENE	0.000	0.000	0.097	0.145	0.291	1.066	0.533	0.194	0.000	2.326
E	0.000	0.000	0.097	0.048	0.242	0.388	0.678	0.000	0.000	1.453
ESE	0.000	0.000	0.291	0.242	0.291	1.066	1.841	0.145	0.000	3.876
SE	0.000	0.000	0.242	0.291	0.678	1.163	0.630	0.097	0.000	3.101
SSE	0.000	0.048	0.048	0.388	0.678	0.097	0.242	0.048	0.000	1.550
S	0.000	0.000	0.097	0.242	0.291	0.194	0.145	0.000	0.000	0.969
SSW	0.000	0.048	0.000	0.339	0.242	0.533	0.048	0.048	0.000	1.260
SW	0.000	0.000	0.097	0.339	0.484	0.145	0.048	0.000	0.000	1.114
WSW	0.000	0.000	0.242	0.242	0.436	0.581	0.000	0.000	0.000	1.502
W	0.000	0.000	0.048	0.291	0.339	0.727	0.242	0.000	0.000	1.647
WNW	0.000	0.048	0.097	0.339	0.291	0.630	0.242	0.000	0.000	1.647
NW	0.000	0.000	0.048	0.097	0.145	0.339	0.242	0.097	0.000	0.969
NNW	0.000	0.000	0.000	0.145	0.048	0.581	0.436	0.145	0.048	1.405
SUBTOTAL	0.000	0.194	1.647	3.731	5.426	9.738	7.946	1.308	0.145	30.136

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2064
TOTAL HOURS OF STABILITY CLASS E	622
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	622
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2064
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/11/19

MEAN WIND SPEED = 10.00

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F ( 1.5< DELTA T<= 4.0 C/100 M)

Browns Ferry Nuclear Plant

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.048	0.097	0.000	0.339	0.678	0.048	0.000	1.211
NNE	0.000	0.000	0.000	0.048	0.000	0.242	0.775	0.291	0.000	1.357
NE	0.000	0.000	0.000	0.000	0.048	0.581	0.436	0.291	0.000	1.357
ENE	0.000	0.000	0.000	0.000	0.097	0.242	0.291	0.000	0.000	0.630
E	0.000	0.000	0.000	0.048	0.242	0.388	0.533	0.048	0.000	1.260
ESE	0.000	0.000	0.000	0.097	0.000	0.484	0.484	0.048	0.000	1.114
SE	0.000	0.000	0.048	0.048	0.048	0.145	0.145	0.000	0.000	0.436
SSE	0.000	0.000	0.000	0.145	0.048	0.048	0.000	0.000	0.000	0.242
S	0.000	0.000	0.000	0.194	0.097	0.145	0.000	0.000	0.000	0.436
SSW	0.000	0.000	0.097	0.000	0.000	0.000	0.000	0.000	0.000	0.097
SW	0.000	0.000	0.097	0.145	0.048	0.048	0.000	0.000	0.000	0.339
WSW	0.000	0.000	0.000	0.000	0.048	0.097	0.097	0.000	0.000	0.242
W	0.000	0.000	0.000	0.097	0.194	0.048	0.097	0.000	0.000	0.436
WNW	0.000	0.000	0.097	0.194	0.194	0.048	0.000	0.000	0.000	0.533
NW	0.000	0.000	0.048	0.097	0.097	0.048	0.000	0.000	0.000	0.291
NNW	0.000	0.000	0.097	0.097	0.048	0.048	0.097	0.000	0.000	0.388
SUBTOTAL	0.000	0.000	0.533	1.308	1.211	2.955	3.634	0.727	0.000	10.368

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2064  
 TOTAL HOURS OF STABILITY CLASS F 214  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 214  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2064  
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/11/19

MEAN WIND SPEED = 11.02

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Browns Ferry Nuclear Plant

JUL 1, 2008 - SEP 30, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.000	0.000	0.194	0.242	0.000	0.436
NNE	0.000	0.000	0.000	0.000	0.048	0.145	0.194	0.824	0.000	1.211
NE	0.000	0.000	0.000	0.000	0.000	0.242	0.388	0.097	0.000	0.727
ENE	0.000	0.000	0.000	0.048	0.000	0.242	0.242	0.000	0.000	0.533
E	0.000	0.000	0.000	0.000	0.097	0.291	0.048	0.000	0.000	0.436
ESE	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.048
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	0.048	0.000	0.000	0.000	0.000	0.048
S	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.048
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	0.048	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	0.000	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	0.242	0.969	1.066	1.163	0.000	3.537

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2064  
 TOTAL HOURS OF STABILITY CLASS G 73  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 73  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2064  
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2008/11/19

MEAN WIND SPEED = 14.68

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**METEOROLOGICAL DATA TABLES**

**BROWNS FERRY NUCLEAR PLANT**

**JANUARY – DECEMBER 2008**

**TABLE 25**

**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<=-1.9 C/100 M)

Browns Ferry Nuclear Plant

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.045
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	0.045	0.045	0.000	0.000	0.091
SE	0.000	0.000	0.000	0.000	0.045	0.591	0.455	0.000	0.045	1.136
SSE	0.000	0.000	0.000	0.000	0.136	0.182	0.000	0.000	0.000	0.318
S	0.000	0.000	0.000	0.045	0.045	0.000	0.091	0.000	0.000	0.182
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	0.045	0.000	0.045
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	0.045	0.227	0.864	0.636	0.045	0.045	1.864

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200  
 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 2200  
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2009/03/04

MEAN WIND SPEED = 11.54

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 < DELTA T <= -1.7 C/100 M)

Browns Ferry Nuclear Plant

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.000	0.000	0.227	0.045	0.000	0.273
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.045
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	0.000	0.000	0.000	0.091
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	0.045	0.000	0.000	0.000	0.136
S	0.000	0.000	0.000	0.045	0.000	0.045	0.000	0.045	0.000	0.136
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.091
SW	0.000	0.000	0.000	0.000	0.000	0.045	0.045	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	0.045	0.000	0.000	0.045
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	0.091	0.136	0.273	0.500	0.091	0.000	1.091

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200  
 TOTAL HOURS OF STABILITY CLASS B 24  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 24  
 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 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2009/03/04

MEAN WIND SPEED = 12.38

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 <= -1.5 C/100 M)

Browns Ferry Nuclear Plant

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.000	0.091	0.500	0.045	0.000	0.636
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	0.045	0.182	0.045	0.000	0.000	0.273
SE	0.000	0.000	0.000	0.000	0.045	0.182	0.182	0.045	0.000	0.455
SSE	0.000	0.000	0.000	0.045	0.045	0.000	0.091	0.045	0.045	0.273
S	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.045
SSW	0.000	0.000	0.000	0.000	0.000	0.136	0.000	0.000	0.000	0.136
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	0.045	0.000	0.000	0.000	0.045
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	0.091	0.045	0.000	0.182
SUBTOTAL	0.000	0.000	0.000	0.045	0.182	0.682	0.909	0.227	0.045	2.091

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200  
 TOTAL HOURS OF STABILITY CLASS C 46  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 46  
 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 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2009/03/04

MEAN WIND SPEED = 13.48

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS



JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5< DELTA T<=-0.5 C/100 M)

Browns Ferry Nuclear Plant

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.045	0.227	0.091	0.955	1.273	0.500	0.045	3.136
NNE	0.000	0.000	0.045	0.227	0.500	1.045	0.727	0.091	0.136	2.773
NE	0.000	0.045	0.091	0.273	0.409	0.500	0.000	0.045	0.000	1.364
ENE	0.000	0.000	0.136	0.091	0.318	0.182	0.000	0.000	0.000	0.727
E	0.000	0.045	0.182	0.136	0.045	0.182	0.136	0.000	0.000	0.727
ESE	0.000	0.045	0.091	0.500	0.455	0.773	0.136	0.182	0.045	2.227
SE	0.000	0.045	0.409	0.682	0.273	0.273	0.455	0.864	0.818	3.818
SSE	0.000	0.000	0.182	0.364	0.182	0.364	0.273	0.091	0.000	1.455
S	0.000	0.000	0.273	0.136	0.227	0.591	0.045	0.091	0.000	1.364
SSW	0.000	0.000	0.273	0.455	0.227	0.091	0.091	0.000	0.136	1.273
SW	0.000	0.000	0.136	0.409	0.182	0.227	0.091	0.000	0.000	1.045
WSW	0.000	0.000	0.318	0.227	0.318	0.682	0.818	0.091	0.000	2.455
W	0.000	0.000	0.000	0.091	0.182	0.773	0.773	0.318	0.000	2.136
WNW	0.000	0.000	0.136	0.227	0.091	0.955	1.045	0.591	0.182	3.227
NW	0.000	0.000	0.091	0.136	0.136	0.545	1.318	1.045	0.091	3.364
NNW	0.000	0.000	0.000	0.182	0.136	0.909	1.136	0.318	0.045	2.727
SUBTOTAL	0.000	0.182	2.409	4.364	3.773	9.045	8.318	4.227	1.500	33.818

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200  
 TOTAL HOURS OF STABILITY CLASS D 744  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 744  
 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 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2009/03/04

MEAN WIND SPEED = 11.83

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 <= 1.5 C/100 M)

Browns Ferry Nuclear Plant

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.045	0.091	0.091	0.318	0.955	0.136	0.000	1.636
NNE	0.000	0.000	0.000	0.045	0.182	0.636	0.455	0.000	0.000	1.318
NE	0.000	0.000	0.091	0.045	0.045	0.500	0.727	0.091	0.000	1.500
ENE	0.000	0.000	0.091	0.045	0.045	0.227	0.455	0.000	0.000	0.864
E	0.000	0.045	0.273	0.000	0.091	0.273	0.273	0.000	0.000	0.955
ESE	0.000	0.000	0.091	0.227	0.409	0.727	1.818	0.409	0.045	3.727
SE	0.000	0.000	0.091	0.409	0.227	1.273	1.727	1.136	0.591	5.455
SSE	0.000	0.000	0.045	0.000	0.182	1.227	0.909	0.364	0.818	3.545
S	0.000	0.000	0.045	0.182	0.455	0.955	0.500	0.136	0.455	2.727
SSW	0.000	0.000	0.136	0.136	0.136	0.273	0.273	0.182	0.182	1.318
SW	0.000	0.000	0.091	0.136	0.273	0.636	0.273	0.182	0.000	1.591
WSW	0.000	0.045	0.273	0.045	0.136	0.818	0.500	0.045	0.000	1.864
W	0.000	0.000	0.045	0.045	0.273	0.864	0.409	0.045	0.045	1.727
WNW	0.000	0.000	0.000	0.045	0.136	0.500	0.545	0.045	0.000	1.273
NW	0.000	0.045	0.045	0.091	0.091	0.136	0.864	0.909	0.045	2.227
NNW	0.000	0.045	0.091	0.045	0.091	0.409	1.091	0.500	0.045	2.318
SUBTOTAL	0.000	0.182	1.455	1.591	2.864	9.773	11.773	4.182	2.227	34.045

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200  
 TOTAL HOURS OF STABILITY CLASS E 749  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 749  
 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 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2009/03/04

MEAN WIND SPEED = 13.42

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F ( 1.5< DELTA T<= 4.0 C/100 M)

Browns Ferry Nuclear Plant

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED(MPH)									TOTAL
	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	
N	0.000	0.000	0.000	0.000	0.000	0.273	0.864	0.000	0.000	1.136
NNE	0.000	0.000	0.000	0.000	0.091	0.045	0.864	0.091	0.000	1.091
NE	0.000	0.000	0.045	0.045	0.000	0.091	0.500	0.136	0.000	0.818
ENE	0.000	0.000	0.045	0.000	0.000	0.318	0.364	0.000	0.000	0.727
E	0.000	0.000	0.000	0.045	0.000	0.227	0.136	0.000	0.000	0.409
ESE	0.000	0.000	0.136	0.000	0.091	0.455	0.273	0.000	0.000	0.955
SE	0.000	0.000	0.091	0.136	0.182	0.727	0.364	0.091	0.182	1.773
SSE	0.000	0.000	0.045	0.182	0.045	1.091	0.591	0.682	0.864	3.500
S	0.000	0.000	0.045	0.045	0.136	0.773	0.273	0.045	0.545	1.864
SSW	0.000	0.000	0.045	0.091	0.091	0.136	0.364	0.091	0.091	0.909
SW	0.000	0.000	0.000	0.045	0.182	0.182	0.045	0.000	0.000	0.455
WSW	0.000	0.045	0.045	0.182	0.045	0.273	0.000	0.000	0.000	0.591
W	0.000	0.000	0.091	0.136	0.091	0.136	0.000	0.000	0.000	0.455
WNW	0.000	0.000	0.000	0.045	0.045	0.091	0.000	0.000	0.000	0.182
NW	0.000	0.000	0.045	0.000	0.000	0.136	0.182	0.091	0.000	0.455
NNW	0.000	0.000	0.091	0.000	0.000	0.136	0.409	0.000	0.000	0.636
SUBTOTAL	0.000	0.045	0.727	0.955	1.000	5.091	5.227	1.227	1.682	15.955

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200  
 TOTAL HOURS OF STABILITY CLASS F 351  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 351  
 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 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2009/03/04

MEAN WIND SPEED = 13.44

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Browns Ferry Nuclear Plant

OCT 1, 2008 - DEC 31, 2008

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	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	
N	0.000	0.000	0.091	0.136	0.045	0.091	0.091	0.000	0.000	0.455
NNE	0.000	0.000	0.000	0.045	0.000	0.091	0.000	0.000	0.000	0.136
NE	0.000	0.045	0.136	0.000	0.182	0.273	0.045	0.091	0.000	0.773
ENE	0.000	0.045	0.045	0.364	0.000	0.045	0.091	0.000	0.000	0.591
E	0.000	0.045	0.000	0.273	0.091	0.000	0.000	0.000	0.000	0.409
ESE	0.000	0.000	0.091	0.455	0.364	0.273	0.045	0.000	0.000	1.227
SE	0.000	0.000	0.182	0.318	0.409	0.545	0.045	0.000	0.000	1.500
SSE	0.000	0.045	0.091	0.318	0.227	0.591	0.227	0.182	0.000	1.682
S	0.000	0.000	0.091	0.136	0.091	0.364	0.273	0.045	0.136	1.136
SSW	0.000	0.045	0.045	0.136	0.000	0.091	0.000	0.045	0.000	0.364
SW	0.000	0.091	0.000	0.045	0.000	0.136	0.000	0.000	0.000	0.273
WSW	0.000	0.000	0.136	0.091	0.091	0.000	0.000	0.000	0.000	0.318
W	0.000	0.091	0.227	0.182	0.273	0.091	0.000	0.000	0.000	0.864
WNW	0.000	0.000	0.318	0.182	0.091	0.136	0.000	0.000	0.000	0.727
NW	0.000	0.000	0.091	0.045	0.045	0.045	0.000	0.000	0.000	0.227
NNW	0.000	0.045	0.182	0.182	0.045	0.000	0.000	0.000	0.000	0.455
SUBTOTAL	0.000	0.455	1.727	2.909	1.955	2.773	0.818	0.364	0.136	11.136

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200  
 TOTAL HOURS OF STABILITY CLASS G 245  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 245  
 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 45.30 AND 89.59 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2009/03/04

MEAN WIND SPEED = 7.24

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**ENCLOSURE 3**

**TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT (BFN)  
UNITS 1, 2, AND 3**

**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
JANUARY THROUGH DECEMBER 2008**

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EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
YEAR 2008

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 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 Effluent:

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.

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
YEAR 2008

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 greater than eight days half-lives released in gaseous effluents 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  $2E-4$   $\mu$ Ci 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.

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
YEAR 2008

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 -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 and -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.



EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
 SUPPLEMENTAL INFORMATION  
 2008

IV. Batch

A. Liquid	<u>Units</u>	<u>Quarter</u>	<u>Quarter</u>	<u>Quarter</u>	<u>Quarter</u>
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
1. Number of batches released	Each	14	15	1	8
2. Total time for batches released	Minutes	3399	3864	238	1925
3. Maximum time period for a batch release	Minutes	300	300	238	340
4. Average time period for a batch release	Minutes	243	258	238	241
5. Minimum time period for a batch release	Minutes	200	165	238	135
6. Average stream flow during period of release into a flowing stream	Cubic feet per second	32513	14255	18029	29719

B. Gaseous

None

C. Abnormal/Unplanned Releases\*

Type	Number of Releases	Total Activity Releases (Curies)
Liquid	Two	1.1E-02 Ci/year (groundwater H-3)
	Leak	5.5E-03 Curies H-3 4th Qtr to river 4.7 E-04 Curies F-18 4th Qtr to river

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

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES  
YEAR 2008

	<u>Units</u>	<u>Quarter</u> <u>1</u>	<u>Quarter</u> <u>2</u>	<u>Quarter</u> <u>3</u>	<u>Quarter</u> <u>4</u>	<u>Error</u> <u>%</u>	
<b>A. Fission and Activation Products (Does not include tritium, gases, Alpha)</b>							
1.	Total Release	Curies	4.48E-03	2.50E-03	1.74E-04	4.23E-03**	9
2.	Average Diluted Concentration Released During Period	μCi/ml	2.59E-10	2.31E-10	3.22E-10	4.09E-10	
3.	Percent of Applicable Limit	%	***	***	***	***	
<b>B. Tritium</b>							
1.	Total Releases	Curies	2.45E+00**	3.32E+00**	7.00E-02**	1.51E+00**	6
2.	Average Diluted Concentration Released During Period	μCi/ml	1.42E-07	3.07E-07	1.29E-08	1.45E-07	
3.	Percent of Applicable Limit	%	***	***	***	***	
<b>C. Dissolved and Entrained Noble Gases</b>							
1.	Total Releases	Curies	8.25E-05	3.57E-05	ND	1.74E-05	8
2.	Average Diluted Concentration Released During Period	μCi/ml	4.77E-12	3.31E-12	ND	1.68E-12	
3.	Percent of Applicable Limit	%	***	***	***	***	
<b>D. Gross Alpha Radioactivity</b>							
1.	Total Releases	Curies	ND*	ND	ND	ND	48
2.	Average Diluted Concentration Released During Period	μCi/ml	ND	ND	ND	ND	
<b>E. Volume of Liquid Waste to Discharge Canal (Prior to dilution)</b>							
		Liters	1.71E+06	1.77E+06	3.14E+04	6.86E+05	3
<b>F. Volume of Dilution Water for Period</b>							
		Liters	1.73E+10	1.08E+10	5.41E+08	1.04E+10	10
<b>G. Total CCW</b>							
		Gigagal.	2.43E+02	2.23E+02	2.78E+02	2.50E+02	

\*ND -- Not Detected. Dilution flow was not determined for the abnormal release.

\*\*Includes activity from abnormal release.

\*\*\* The applicable limit is expressed in terms of dose. See Enclosure 1, Tables 5 through 8.

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
LIQUID RELEASES FOR YEAR 2008 - BATCH MODE

<u>CURIES</u>		<u>Quarter</u>	<u>Quarter</u>	<u>Quarter</u>	<u>Quarter</u>
<u>Isotope</u>		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
(Required by Regulatory (REG) Guide 1.21)					
1.	Ba-140	ND*	ND	ND	ND
2.	Ce-141	ND	ND	ND	ND
3.	Co-58	ND	9.42E-06	ND	3.60E-05
4.	Co-60	1.21E-03	9.25E-04	8.28E-05	8.81E-04
5.	Cr-51	ND	ND	ND	ND
6.	Cs-134	4.86E-04	1.80E-04	9.37E-06	2.28E-04
7.	Cs-137	2.70E-03	1.17E-03	6.45E-05	1.92E-03
8.	Fe-59	ND	ND	ND	ND
9.	I-131	ND	ND	ND	ND
10.	La-140	ND	ND	ND	ND
11.	Mn-54	7.01E-05	1.23E-04	5.75E-06	7.34E-05
12.	Mo-99	ND	ND	ND	ND
13.	Nb-95	ND	ND	ND	ND
14.	Sr-89	ND	ND	ND	ND
15.	Sr-90	ND	ND	ND	ND
16.	Tc-99m	ND	ND	ND	ND
17.	Xe-133	3.97E-05	1.23E-05	ND	7.22E-06
18.	Xe-135	4.28E-05	2.34E-05	ND	1.02E-05
19.	Zn-65	ND	3.69E-06	ND	3.51E-04
20.	Zr-95	ND	ND	ND	ND

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\* - Not Detected

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
LIQUID RELEASES FOR YEAR 2008 - BATCH MODE

<u>CURIES</u>		<u>Quarter</u>	<u>Quarter</u>	<u>Quarter</u>	<u>Quarter</u>
<u>Isotope</u>		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Others (Not Required by REG Guide 1.21)					
1.	F-18	ND*	2.61E-06	9.27E-07	4.74E-04**
2.	Fe-55	ND	7.29E-05	1.08E-05	6.63E-05
3.	Nb-97	1.45E-05	ND	ND	5.52E-06
4.	Ag-110m	ND	1.26E-05	ND	2.16E-04

---

\* – Not Detected

\*\*Activity from abnormal release.

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES  
YEAR 2008

	<u>Units</u>	<u>Quarter</u> <u>1</u>	<u>Quarter</u> <u>2</u>	<u>Quarter</u> <u>3</u>	<u>Quarter</u> <u>4</u>	<u>Error</u> <u>%</u>
A. Fission and Activation Gases						
1. Total Releases	Curies	ND**	ND	ND	ND	45
2. Average Release Rate for Period	μCi/sec	ND	ND	ND	ND	
3. Percent of Applicable Limit	%	*	*	*	*	
B. Iodines						
1. Total Iodine-131	Curies	4.15E-04	4.79E-04	6.31E-04	5.51E-04	36
2. Average Release Rate for Period	μCi/sec	5.28E-05	6.09E-05	7.94E-05	6.93E-05	
3. Percent of Applicable Limit	%	*	*	*	*	
C. Particulates						
1. Particulates with half-lives > eight days	Curies	1.62E-04	7.29E-05	3.08E-05	1.35E-04	35
2. Average Release Rate for Period	μCi/sec	2.06E-05	9.27E-06	3.87E-06	1.70E-05	
3. Percent of Applicable Limit	%	*	*	*	*	
4. Gross Alpha Radioactivity	Curies	ND	ND	ND	ND	
D. Tritium						
1. Total Release	Curies	2.14E+01	5.60E+01	7.63E+01	3.02E+01	21
2. Average Release Rate for Period	μCi/sec	2.73E+00	7.12E+00	9.60E+00	3.80E+00	
3. Percent of Applicable Limit	%	*	*	*	*	

\*Applicable Limits are expressed in terms of dose. See Enclosure 1, Tables 1 through 4.

\*\*ND – Not Detected.

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
 YEAR 2008  
 GASEOUS EFFLUENTS - ELEVATED RELEASE

<u>CURIES</u>	<u>Quarter</u> <u>1</u>	<u>Quarter</u> <u>2</u>	<u>Quarter</u> <u>3</u>	<u>Quarter</u> <u>4</u>
1. Fission Gases				
Kr-85m	ND*	ND	ND	ND
Kr-85	ND	ND	ND	ND
Kr-87	ND	ND	ND	ND
Kr-88	ND	ND	ND	ND
Xe-133	ND	ND	ND	ND
Xe-135m	ND	ND	ND	ND
Xe-135	ND	ND	ND	ND
Xe-138	ND	ND	ND	ND
Others (specify)				
Total for Period	<u>ND</u>	<u>ND</u>	<u>ND</u>	<u>ND</u>
2. Iodines				
I-131	2.07E-04	1.85E-04	2.46E-04	2.17E-04
I-133	6.07E-04	4.54E-04	4.05E-04	1.97E-04
<u>Total for Period</u>	<u>8.14E-04</u>	<u>6.39E-04</u>	<u>6.51E-04</u>	<u>4.14E-04</u>

\*ND – Not Detected.

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
 YEAR 2008  
 GASEOUS EFFLUENTS - ELEVATED RELEASE

<u>CURIES</u>	<u>Quarter</u> <u>1</u>	<u>Quarter</u> <u>2</u>	<u>Quarter</u> <u>3</u>	<u>Quarter</u> <u>4</u>
3. Particulates*				
Sr-89	2.09E-05	1.73E-05	2.09E-05	1.11E-05
Sr-90	ND**	ND	ND	ND
Cs-134	ND	ND	ND	ND
Cs-137	ND	ND	2.08E-06	ND
Ba-140	4.15E-06	ND	2.32E-06	ND
La-140	2.43E-06	ND	ND	ND
Others (specify)				
Y-91m	1.03E-04	4.40E-05	1.10E-04	1.07E-05
Cs-138	5.54E-03	3.41E-03	ND	ND
Ba-139	1.16E-02	2.52E-03	1.28E-02	2.14E-03
<u>Total for Period*</u>	<u>1.73E-02</u>	<u>5.99E-03</u>	<u>1.30E-02</u>	<u>2.16E-03</u>
4. Tritium	<u>1.02E+00</u>	<u>2.64E+00</u>	<u>5.90E+00</u>	<u>5.63E+00</u>

\*Includes all nuclides, even those with less than an eight day half-life.

\*\*ND – Not Detected.

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
 YEAR 2008  
 GASEOUS EFFLUENTS - GROUND RELEASE

<u>CURIES</u>	<u>Quarter</u> <u>1</u>	<u>Quarter</u> <u>2</u>	<u>Quarter</u> <u>3</u>	<u>Quarter</u> <u>4</u>
1. Fission Gases				
Kr-85m	ND*	ND	ND	ND
Kr-85	ND	ND	ND	ND
Kr-87	ND	ND	ND	ND
Kr-88	ND	ND	ND	ND
Xe-133	ND	ND	ND	ND
Xe-135m	ND	ND	ND	ND
Xe-135	ND	ND	ND	ND
Xe-138	ND	ND	ND	ND
Others(specify)				
NONE				
<u>Total for Period</u>	<u>ND</u>	<u>ND</u>	<u>ND</u>	<u>ND</u>
2. Iodines				
I-131	8.02E-05	5.72E-05	6.75E-05	9.96E-05
I-133	4.41E-04	2.58E-04	2.25E-04	7.67E-05
<u>Total for Period</u>	<u>5.21E-04</u>	<u>3.15E-04</u>	<u>2.92E-04</u>	<u>1.76E-04</u>

\*ND – Not Detected.



EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
 YEAR 2008  
 GASEOUS EFFLUENTS - GROUND RELEASE

<u>CURIES</u>	<u>Quarter</u>	<u>Quarter</u>	<u>Quarter</u>	<u>Quarter</u>
3. Particulates*	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Sr-89	ND**	ND	ND	ND
Sr-90	ND	ND	ND	ND
Cs-134	ND	ND	ND	ND
Cs-137	ND	ND	ND	ND
Ba-140	ND	ND	ND	ND
La-140	ND	ND	ND	ND
Others (specify)				
Y-91m	2.05E-05	ND	ND	ND
Cs-138	5.97E-04	8.68E-04	ND	ND
Ba-139	3.91E-03	4.02E-03	1.28E-03	2.92E-04
<u>Total for Period*</u>	<u>4.52E-03</u>	<u>4.89E-03</u>	<u>1.28E-03</u>	<u>2.92E-04</u>
4. Tritium	<u>2.29E+00</u>	<u>4.44E+00</u>	<u>7.77E+00</u>	<u>5.29E+00</u>

\*Include all nuclides even those with less than an eight day half-life.

\*\*ND – Not Detected.

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
 YEAR 2008  
 GASEOUS EFFLUENTS - MIXED MODE RELEASE\*

<u>CURIES</u>	<u>Quarter</u> <u>1</u>	<u>Quarter</u> <u>2</u>	<u>Quarter</u> <u>3</u>	<u>Quarter</u> <u>4</u>
1. Fission Gases				
Kr-85m	ND**	ND	ND	ND
Kr-85	ND	ND	ND	ND
Kr-87	ND	ND	ND	ND
Kr-88	ND	ND	ND	ND
Xe-133	ND	ND	ND	ND
Xe-135m	ND	ND	ND	ND
Xe-135	ND	ND	ND	ND
Xe-138	ND	ND	ND	ND
Others(specify)				
NONE				
<u>Total for Period</u>	<u>ND</u>	<u>ND</u>	<u>ND</u>	<u>ND</u>
2. Iodines				
I-131	1.28E-04	2.37E-04	3.18E-04	2.34E-04
I-133	8.51E-04	1.07E-03	9.96E-04	4.70E-04
<u>Total for Period</u>	<u>9.80E-04</u>	<u>1.31E-03</u>	<u>1.31E-03</u>	<u>7.04E-04</u>

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

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
 YEAR 2008  
 GASEOUS EFFLUENTS - MIXED MODE RELEASE\*

<u>CURIES</u>	<u>Quarter</u> <u>1</u>	<u>Quarter</u> <u>2</u>	<u>Quarter</u> <u>3</u>	<u>Quarter</u> <u>4</u>
3. Particulates**				
Sr-89	ND***	ND	ND	ND
Sr-90	ND	ND	ND	ND
Cs-134	ND	ND	ND	8.06E-06
Cs-137	9.78E-06	1.43E-05	5.16E-06	5.29E-05
Ba-140	ND	ND	ND	ND
La-140	ND	ND	ND	ND
Others (specify)				
Na-24	5.31E-07	ND	ND	ND
Mn-54	1.39E-05	ND	ND	6.88E-06
Co-58	5.23E-06	ND	ND	1.25E-05
Co-60	1.08E-04	4.13E-05	3.41E-07	2.79E-05
Zn-65	5.24E-08	ND	ND	ND
Y-91m	ND	ND	7.05E-05	1.65E-04

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\*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.

\*\*\*ND – Not Detected.

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
 YEAR 2008  
 GASEOUS EFFLUENTS - MIXED MODE RELEASE\*

<u>CURIES</u>	<u>Quarter</u>	<u>Quarter</u>	<u>Quarter</u>	<u>Quarter</u>
Particulates** (Continued) Others (specify)	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Mo-99	ND***	ND	ND	7.54E-07
Tc-99m	ND	ND	ND	7.36E-07
Ag-110m	ND	ND	ND	1.59E-05
Ba-139	1.06E-03	1.05E-03	2.63E-03	1.95E-04
Total for Period**	<u>1.20E-03</u>	<u>1.11E-03</u>	<u>2.70E-03</u>	<u>4.85E-04</u>
4. Tritium	<u>1.81E+01</u>	<u>4.89E+01</u>	<u>6.26E+01</u>	<u>1.93E+01</u>

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\*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.

\*\*\*ND – Not Detected.

**BROWNS FERRY NUCLEAR PLANT  
ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT  
2008  
SOLID WASTE AND IRRADIATED FUEL**

**A. Solid Waste Shipped Off-site for Burial or Disposal (Not Irradiated Fuel)**

1.	<u>Type of Waste</u>	<u>Units</u>	<u>Amount</u>	<u>Error %</u>
a.	Spent resins, filters, filter sludge evaporator bottoms, etc.	m <sup>3</sup> Ci	6.08E+01 1.09E+03	+/-25.0
b.	Dry compressible waste, contaminated equipment, etc.			
1.	Shipped from site to processor	m <sup>3</sup> Ci	2.55E+03 2.70E+00	+/-25.0
2.	Estimated volume sent to burial by waste processor	m <sup>3</sup> Ci	6.62E+02 5.48E+01	+/-25.0
c.	Irradiated components, control rod blades & LPRMs with fission chambers	m <sup>3</sup> Ci	0.00E+00 0.00E+00	+/-25.0
d.	Other – Combined packages, fuel pool Components.	m <sup>3</sup> Ci	1.28E+02 9.79E+02	+/-25.0

**2. Estimate of Major Nuclide Composition by Waste Type**

a. Spent resins, filters, filter sludge, evaporator bottoms, etc.

	Nuclide	Percentage	Curies
1)	CO-60	4.36E+01	4.74E+02
2)	FE-55	2.60E+01	2.82E+02
3)	CS-137	1.04E+01	1.13E+02
4)	MN-54	8.83E+00	9.59E+01
5)	ZN-65	3.33E+00	3.62E+01
6)	CO-58	2.59E+00	2.81E+01
7)	CS-134	2.55E+00	2.77E+01
8)	CR-51	8.06E-01	8.76E+00
9)	AG-110M	6.84E-01	7.43E+00
10)	NI-63	5.31E-01	5.77E+00
11)	FE-59	2.46E-01	2.67E+00
12)	CE-144	1.21E-01	1.31E+00
13)	CU-64	1.06E-01	1.15E+00
14)	PU-241	5.34E-02	5.80E-01
15)	ZR-95	4.60E-02	5.00E-01
16)	NB-95	3.77E-02	4.09E-01

	Nuclide	Percentage	Curies
17)	SR-90	3.04E-02	3.30E-01
18)	C-14	1.91E-02	2.08E-01
19)	TC-99	1.54E-02	1.67E-01
20)	H-3	5.17E-03	5.62E-02
21)	CO-57	9.94E-04	1.08E-02
22)	NI-59	4.16E-04	4.52E-03
23)	I-131	3.77E-04	4.09E-03
24)	CE-141	2.43E-04	2.64E-03
25)	BA-140	2.28E-04	2.48E-03
26)	AM-241	1.33E-04	1.45E-03
27)	PU-238	1.11E-04	1.21E-03
28)	SR-89	7.55E-05	8.20E-04
29)	CM-242	6.00E-05	6.52E-04
30)	CM-243	5.15E-05	5.59E-04
31)	CM-244	5.14E-05	5.58E-04
32)	PU-239	2.27E-05	2.47E-04
33)	PU-240	2.27E-05	2.47E-04
34)	LA-140	1.59E-07	1.73E-06
35)	I-133	3.74E-27	4.06E-26

b. Dry compressible waste, contaminated equipment, etc.

1)	CO-60	5.62E+01	1.52E+00
2)	FE-55	2.19E+01	5.93E-01
3)	MN-54	1.01E+01	2.72E-01
4)	CS-137	6.21E+00	1.68E-01
5)	ZN-65	2.92E+00	7.90E-02
6)	CS-134	1.65E+00	4.45E-02
7)	NI-63	5.55E-01	1.50E-02
8)	H-3	2.07E-01	5.60E-03
9)	CO-58	1.01E-01	2.73E-03
10)	NI-59	5.07E-02	1.37E-03
11)	CR-51	5.03E-02	1.36E-03
12)	PU-241	1.92E-02	5.20E-04
13)	C-14	4.40E-03	1.19E-04
14)	SR-90	3.77E-03	1.02E-04
15)	AM-241	2.72E-04	7.36E-06
16)	CM-243	1.09E-04	2.96E-06
17)	CM-244	1.09E-04	2.96E-06
18)	PU-238	1.05E-04	2.84E-06
19)	CM-242	9.17E-05	2.48E-06
20)	PU-239	2.56E-05	6.91E-07
21)	PU-240	2.56E-05	6.91E-07
22)	TC-99	1.96E-05	5.29E-07

c. Irradiated components, Control Rod Blades & LPRMs with fission chambers

None

d. Other. Combined packages, non-irradiated fuel pool components.

	Nuclide	Percentage	Curies
1)	CO-60	4.28E+01	4.19E+02
2)	FE-55	2.86E+01	2.80E+02
3)	MN-54	1.02E+01	9.98E+01
4)	CS-137	7.64E+00	7.48E+01
5)	CO-58	3.44E+00	3.37E+01
6)	ZN-65	3.12E+00	3.06E+01
7)	CS-134	1.67E+00	1.64E+01
8)	CR-51	9.20E-01	9.01E+00
9)	AG-110M	6.17E-01	6.04E+00
10)	NI-63	4.16E-01	4.07E+00
11)	FE-59	2.71E-01	2.65E+00
12)	CE-144	1.06E-01	1.04E+00
13)	ZR-95	7.73E-02	7.57E-01
14)	NB-95	6.11E-02	5.98E-01
15)	PU-241	5.18E-02	5.07E-01
16)	SR-90	2.81E-02	2.75E-01
17)	C-14	1.63E-03	1.60E-02
18)	H-3	1.18E-03	1.16E-02
19)	TC-99	4.19E-04	4.10E-03
20)	MO-99	2.53E-04	2.48E-03
21)	NI-59	2.01E-04	1.97E-03
22)	AM-241	9.53E-05	9.33E-04
23)	PU-238	8.07E-05	7.90E-04
24)	CM-242	4.95E-05	4.85E-04
25)	SR-89	4.73E-05	4.63E-04
26)	CM-243	3.31E-05	3.24E-04
27)	CM-244	3.31E-05	3.24E-04
28)	CO-57	2.89E-05	2.83E-04
29)	PI-239	1.70E-05	1.66E-04
30)	PU-240	1.70E-05	1.66E-04
31)	NA-24	6.33E-09	6.20E-08
32)	TC-99M	2.03E-17	1.99E-16

3. **Solid Waste Disposition**

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
12	HIC/Cask, Sole Use Truck	Barnwell Waste Management Barnwell, SC
59	Sole Use Truck	Duratek Services Oak Ridge, TN
19	Non- Sole Use Truck	Duratek, Inc. Kingston, TN

B. **Irradiated Fuel Disposition**

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



**BROWNS FERRY NUCLEAR PLANT  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
SUMMARY OF ABNORMAL/UNPLANNED RELEASES  
2008**

The release of radioactive material to the environment from Browns Ferry 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 2008. Two abnormal liquid releases occurred in 2008. One based on tritium identified in groundwater samples and a second due to a leak that was detected January 8, 2009 (Problem Evaluation Reports 160665 and 162203).

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 two 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. The highest concentration identified in the groundwater for the year was 11,500 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. Using the highest measured tritium concentration in groundwater, (11,500 pCi/L at the source of the plume) the aqueous tritium concentration in the channel would be 0.58 pCi/L. Assuming this concentration and release rate for the entire year results in a release of approximately 1.1E-02 Ci/year. This is a small fraction of the liquid radwaste and gaseous releases for 2008 and would result in a small fraction of the reported dose.

Samples of Units 1, 2, and 3 station sumps are analyzed monthly for contamination. No samples showed activity in 2008; however, the Unit 1 sample collected in January 2009, showed traces of both F-18 (1.3E-07  $\mu$ Ci/ml) and H-3 (1.5E-06  $\mu$ Ci/ml). The total release for 2008 is estimated at F-18 (4.7E-04 Ci) and H-3 (5.5E-03 Ci). The sumps empty into the river. This is a small fraction of the liquid radwaste releases for 2008 and would result in a small fraction of the reported dose (<1E-07 mrem). Investigation of the source of this release is ongoing and the contribution to the 2009 report will be reported.

### **Missed Compensatory Samples**

During the reporting period, January 1 through December 31, 2008, there was one missed compensatory sample. During a maintenance procedure, on July 10, 2008 at 10:08, a jumper was installed rendering the unit 2 Off-Gas Post Treatment Radiation Monitors 2-RM-090-265 and -266 inoperable. The ODCM requires a compensatory sample once per 8 hours when both monitors are inoperable. Inadequate communications resulted in exceeding the 8 hour sampling requirement. The sample was taken at 18:48. The sample was 40 minutes late. No activity was found in the sample. (PER 148128)

## **Changes to the Radwaste System and Changes to the Process Control Program (PCP)**

In calendar year 2008, Browns Ferry had one change to the radwaste system and no changes to the Process Control Program (PCP).

A design change (Design Change Notice (DCN) 67609A) was completed to retire in place a flow element, and remove from service a flow modifier, flow switch, and flow indicator associated with the Cooling Tower Blow-down flow. Cooling Tower Blow-down flow is used for dilution for Liquid Radwaste releases when all units are operating in Helper Mode. The interlock and alarm associated with the flow switch were removed.

A conservative dilution flow rate is used for determining the set points for the Liquid Radwaste monitor while in helper mode. In addition, flow through the Cooling Tower line must be verified during Radwaste discharge while in Helper Mode, by visual observation. Radwaste Discharge while in Helper Mode is rare.

**ENCLOSURE 4**

**TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT (BFN)  
UNITS 1, 2, AND 3**

**INOPERABLE RADIOLOGICAL EFFLUENT INSTRUMENTATION REPORT  
JANUARY THROUGH DECEMBER 2008**

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## **INOPERABLE RADIOLOGICAL EFFLUENT INSTRUMENTATION REPORT 2008**

This report is to comply with Browns Ferry Nuclear Plant Offsite Dose Calculation Manual (Offsite Dose Calculation Manual (ODCM)) 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 through December 31, 2008, there were no radioactive gaseous effluent monitoring instruments out of service for greater than 30 days.

One Residual Heat Removal Service Water (RHR SW) monitor (2-RM-90-133D) was inoperable from March 17, 2008, to May 09, 2008 due to the sample pump tripping on low flow (PER 142731). A PER action establishing an expectation in an BFN Operations Daily Instruction (ODI) dated September 05, 2008 for unplanned Limiting Condition of Operations (LCO) that exceed 50% of the LCO time will be escalated in priority and consideration of twenty-four support will be made to ensure timely resolution. All compensatory measures were followed.