



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

April 30, 2015

10 CFR 50.4
10 CFR 50.36a

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

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

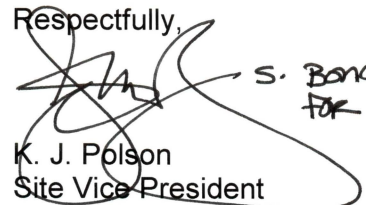
Subject: **2014 Annual Radioactive Effluent Release Report**

In accordance with the Browns Ferry Nuclear Plant (BFN), Units 1, 2, and 3, Technical Specification Section 5.6.3, the Tennessee Valley Authority is submitting the BFN Annual Radioactive Effluent Release Report for the period January through December 2014. This document is in conformance with Title 10 of the Code of Federal Regulations (10 CFR) 50.36a and 10 CFR Part 50, Appendix I Section IV.B.1.

Attachment 1 to the Enclosure documents deviations which have occurred from Offsite Dose Calculation Manual (ODCM) controls and surveillance requirements. Attachment 2 to the Enclosure provides information on radiological effluent instrumentation inoperable for greater than 30 days. There were no revisions to the ODCM during 2014.

There are no new regulatory commitments contained in this letter. Should you have any questions concerning this submittal, please contact Jamie Paul at (256) 729-7533.

Respectfully,


S. Bono
for K. Polson
K. J. Polson
Site Vice President

Enclosure: 2014 Annual Radioactive Effluent Release Report

cc (w/ Enclosure):

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

ENCLOSURE

**Browns Ferry Nuclear Plant
Units 1, 2, and 3**

2014 Annual Radioactive Effluent Release Report

See Enclosed

**BROWNS FERRY NUCLEAR PLANT
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1. 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 Title 10 of the Code of Federal Regulations (10 CFR) 50 Appendix I and Browns Ferry Nuclear Plant (BFN) Offsite Dose Calculation Manual (ODCM). The air dose to areas at and beyond the site boundary due to noble gases released in gaseous effluents per unit shall be limited during any calendar quarter to ≤ 5 millirad (mrad) for gamma radiation and ≤ 10 mrad for beta radiation; and during any calendar year to ≤ 10 mrad for gamma radiation and ≤ 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 ≤ 7.5 millirem (mrem), and during any calendar year to ≤ 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 ≤ 1.5 mrem to the total body and ≤ 5 mrem to any organ and during any calendar year to ≤ 3 mrem to the total body and ≤ 10 mrem to any organ.

2. 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 ≤ 500 mrem per year to the total body and ≤ 3000 mrem per year to the skin.

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

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2. Limitation on Dose Rate (Continued)

- b. Iodines and Particulates with Half-Lives Greater than Eight Days in Gaseous Effluents:
 - 1. The instantaneous release rate of particulates and iodines is regulated by the dose rate limits of the BFN ODCM. The dose rate at any time to areas at and beyond the site boundary, due to I-131, I-133, H-3, and particulates with half-lives greater than eight days in gaseous effluent released from the site, shall be limited to ≤ 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 $2E-4$ μ Ci per milliliter (ml) total activity.

3. Average Energy

The BFN ODCM limits the dose equivalent rates due to the release of noble gases to less than or equal to 500 mrem/year to the total body and less than or equal to 3000 mrem/year to the skin. The use of dose rate is in accordance with NUREG-0133, "Preparation of Radiological Effluent Technical Specifications for Nuclear Power Plants." Since the release rate is not used for effluent control, the average beta and gamma energies (E) for gaseous effluents discussed in Regulatory Guide 1.21, "Measuring, Evaluation, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants," are not applicable and not included in this report.

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4. 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.

b. Iodines and Particulates:

1. Iodines and particulates are continuously sampled on impregnated charcoal filters and particulate filters, respectively. The charcoal and particulate samples are replaced at least weekly and analyzed to determine specific activity concentrations. The specific activity concentrations and vent flow rate data are used weekly to verify that release rate limits were not exceeded. The specific activity concentrations and total volume of gaseous effluent are used on a monthly basis to determine the total curies of each particulate and iodine released during the month.
2. The gross alpha concentration is determined by analysis of a monthly particulate filter composite sample, and strontium-89 and strontium-90 are determined by analysis of a quarterly particulate filter composite sample for each release point.

c. Liquid effluents:

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

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4. Measurements and Approximations of Total Radioactivity (Continued)

c. Liquid effluents (Continued):

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

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

5. Batch Releases

		<u>Quarter</u>	<u>Quarter</u>	<u>Quarter</u>	<u>Quarter</u>	
A.	Liquid	<u>Units</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
	1. Number of batches released	Each	15	18	18	21
	2. Total time for batches released	Minutes	3960.00	5129.00	5293.00	5356.00
	3. Maximum time period for a batch release	Minutes	325.00	340.00	325.00	317.00
	4. Average time period for a batch release	Minutes	260.00	284.94	294.05	255.05
	5. Minimum time period for a batch release	Minutes	240.00	240.00	190.00	205.00
	6. Average BFN beach flow during period of release into the river stream	ft ³ /sec	63965	23973	26459	47281
B.	Gaseous					
	None					

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6. Abnormal Releases

a. Liquid

1. Number of releases: 4

2. Total activity released (Curies):

<u>Destination</u>	<u>Nuclide</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
Leak to	H-3	8.47E-01	1.97E+00	1.73E-01	1.39E+01
River	F-18	2.02E-04	3.13E-03	*	4.55E-01

b. Gaseous

1. Number of releases: 3

2. Total activity released (Curies):

<u>Destination</u>	<u>Nuclide</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
Air	H-3	5.23E-02	-	-	3.30E-02

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6. Abnormal Releases (Continued)

Summary of Abnormal/Unplanned Releases

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

Four abnormal liquid releases occurred in 2014.

1. Throughout the year tritium was detected and released through the U1, U2, and U3 Station Sumps. There are several known sources which include the Turbine Building Air Wash Systems and the U1 and U3 Roughing Cooler. (PERs 830901, 870945, 881694, 903528, and 943149).
2. The Sedimentation Pond was sampled on September 11, 2014 with a tritium concentration of $7.14\text{E-}06$ uCi/ml. The Sedimentation Pond was resampled on October 16, 2014 with a tritium concentration of < LLD. (PER 934471)

Three abnormal gaseous releases occurred in 2014. These were due to releases while the system was in service resulting in water from the basin being released into the air.

1. On February 7, 2014 at 1935, Auxiliary Decay Heat Removal (ADHR) sample showed a tritium concentration of $5.52\text{E-}06$ uCi/ml. (PER 844170)
2. On March 24, 2014 at 1700, Auxiliary Decay Heat Removal (ADHR) sample showed a tritium concentration of $3.96\text{E-}06$ uCi/ml. (PER 863911)
3. On October 21, 2014 at 0825, Auxiliary Decay Heat Removal (ADHR) sample showed a tritium concentration of $1.26\text{E-}05$ uCi/ml. (PER 1014954)

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6. Abnormal Releases (Continued)

Ground Water Monitoring

Onsite groundwater monitoring locations were sampled during the year. These locations were not part of the BFN Radiological Environmental Monitoring Program (REMP). The purpose of these shallow wells was to monitor for potential leaks from plant equipment. Trace levels of tritium were detected in several of these monitoring locations. In the early 2000's, BFN initiated a groundwater study to identify the source of the tritium. Results from a groundwater study completed in June 2006 suggest the source of the tritiated groundwater is associated with the Radwaste/Condensate Transfer Tunnel. Water that may leak into the tunnel could egress via expansion joints and/or cracks through the tunnel wall. These joints and/or cracks were grouted during 2008 with several more leaks grouted in 2010. 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 highest concentration identified in the groundwater for the year 2014, was 11638 pCi/L (Dewat A). The estimated groundwater/channel water dilution ratio is 1:20,000 at a rate of approximately 0.5 gpm. The highest tritium concentrations obtained in 2014 from each of these non-REMP wells are listed below.

<u>Well ID</u>	<u>Date</u>	<u>Activity in pCi/L</u>	<u>Well ID</u>	<u>Date</u>	<u>Activity in pCi/L</u>
R1 (1305)	11/20/14	364	U1 EECW	7/9/14	5641
R2 (1306)	1/16/14	566.9	U2 EECW	4/4/14	342
R3 (1307)	4/9/14	3001	U3 EECW	3/26/14	453
BH25(1309)	3/19/14	1167	DSN015	4/4/14	409
DEWAT A(1311)	3/12/14	11638	DSN015D	3/26/14	395
DEWAT E(1312)	3/7/14	964*			

*Also, on 7/9/14

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7. Missed Compensatory Samples

During the reporting period, January 1, 2014 through December 31, 2014, there were two missed compensatory samples.

PER 849316

Radwaste river release performed through 3-FCV-077-0061 which was declared INOP due to failure to perform 3-SI-4.8.A.3 prior to drop dead date(06/17/2013). River release was performed on 2/12/2014 @ 2310 and Unit 3 discharge to CCW conduit valve was Inoperable. see LCO Tracking #3-077-ODCM-2013-0022. Two samples are required when the 0-90-130 monitor and associated valves are not operable. (PER 849316)

On 12/22/14, Chemistry missed an ODCM LCO compensatory sample from the 2-RM-90-250. Sample and flow were due by 1000 (conservatively due at 0800). Sample was not obtained until 1238; however, the sample showed no gamma activity. Flow was obtained at 0805 and 1110 as scheduled. The Shift Manager, U2 Unit Supervisor, and Chemistry Supervisor were notified. Chemistry performed a NPG-SPP-22.203, Incident Prompt Investigation. (PER 970739)

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

In calendar year 2014, BFN had no permanent changes to the Radwaste System or the Process Control Program.

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GASEOUS EFFLUENTS

**TABLE 1A
Page 1 of 1
Gaseous Effluents - Summation of All Releases**

	<u>Units</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>	<u>Error</u> <u>%</u>
A. Fission and Activation Gases						
1. Total Releases	Curies	**	**	**	**	45
2. Average Release Rate for Period	μCi/sec	**	**	**	**	
3. Percent of Applicable Limit	%	****	****	****	****	
B. Iodines						
1. Total Iodine-131	Curies	1.26E-03	8.64E-04	1.97E-03*	9.53E-04	36
2. Average Release Rate for Period	μCi/sec	1.61E-04	1.10E-04	2.48E-04	1.20E-04	
3. Percent of Applicable Limit	%	****	****	****	****	
C. Particulates						
1. Particulates with half-lives > eight days	Curies	1.03E-03	6.58E-04	2.23E-03	3.51E-03	35
2. Average Release Rate for Period	μCi/sec	1.33E-04	8.37E-05	2.80E-04	4.42E-04	
3. Percent of Applicable Limit	%	****	****	****	****	
4. Gross Alpha Radioactivity	Curies	**	**	**	**	
D. Tritium						
1. Total Release	Curies	4.50E+01*	5.14E+01	5.16E+01	3.68E+01*	21
2. Average Release Rate for Period	μCi/sec	5.79E+00	6.54E+00	6.49E+00	4.63E+00	
3. Percent of Applicable Limit	%	****	****	****	****	
E. Carbon-14***						
1. Total Release	Curies	8.22E+00	9.45E+00	9.17E+00	8.61E+00	
2. Total as CO ₂	Curies	8.65E+00	9.94E+00	9.65E+00	9.07E+00	

* - Includes Activity from Abnormal Release

** - Not Detected.

*** - Estimated using EPRI methodology provided in EPRI Report 1021106.

**** - Applicable Limits are expressed in terms of dose. See Radiological Impact Section.

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**GASEOUS EFFLUENTS
(Continuous Mode Only)**

**TABLE 1B
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Gaseous Effluents - Elevated Releases**

<u>CURIES</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
1. Fission Gases				
Kr-85m	*	*	*	*
Kr-85	*	*	*	*
Kr-87	*	*	*	*
Kr-88	*	*	*	*
Xe-133	*	*	*	*
Xe-135m	*	*	*	*
Xe-135	*	*	*	*
Xe-138	*	*	*	*
Others (N-13)	*	*	*	2.31E+02**
<u>Total for Period</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>2.31E+02**</u>
2. Iodines				
I-131	2.48E-04	2.94E-04	4.17E-04	2.27E-04
I-135	*	*	*	*
I-133	5.31E-04	6.74E-04	6.27E-04	3.92E-04
<u>Total for Period</u>	<u>7.79E-04</u>	<u>9.68E-04</u>	<u>1.04E-03</u>	<u>6.19E-04</u>

* - Not Detected.

** - Charcoal absorbers inoperable (Reference Section 7).

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Gaseous Effluents - Elevated Releases

<u>CURIES</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
3. Particulates*				
Sr-89	6.27E-05	5.55E-05	5.19E-05	1.22E-04
Sr-90	**	**	**	**
Sr-91	8.48E-04	4.29E-04	4.31E-04	2.30E-03
Cs-134	**	**	**	**
Cs-137	**	**	**	**
Ba-140	8.95E-05	9.76E-05	7.56E-05	2.31E-04
La-140	5.09E-05	4.93E-05	5.34E-05	1.53E-04
Te-132	**	**	**	**
Zn-69m	4.01E-06	3.36E-07	**	**
Others (Au-199)	**	**	7.97E-06	**
(N-13)	**	**	**	2.31E+02
Rb-88	**	**	**	**
Rb-89	**	**	3.35E-02	6.06E-02
Y-91m	5.13E-04	6.48E-04	5.47E-04	1.63E-03
Cs-138	**	**	4.81E-02	8.84E-02
Co-60	4.84E-06	**	**	**
Ba-139	7.75E-02	7.24E-02	7.80E-02	2.27E-01
<u>Total for Period*</u>	<u>7.90E-02</u>	<u>7.37E-02</u>	<u>1.61E-01</u>	<u>2.31E+02</u>
4. Tritium	2.48E+00	3.49E+00	2.58E+00	2.58E+00
5. Carbon-14***	8.22E+00	9.45E+00	9.17E+00	8.61E+00

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

** - Not Detected.

*** - Estimated using EPRI methodology provided in EPRI Report 1021106.

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**GASEOUS EFFLUENTS
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**TABLE 1C
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Gaseous Effluents - Ground Level Releases**

<u>CURIES</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
1. Fission Gases				
Kr-85m	*	*	*	*
Kr-85	*	*	*	*
Kr-87	*	*	*	*
Kr-88	*	*	*	*
Xe-133	*	*	*	*
Xe-135m	*	*	*	*
Xe-135	*	*	*	*
Xe-138	*	*	*	*
Ar-41	*	*	*	*
Other (specify)	*	*	*	*
<u>Total for Period</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
2. Iodines				
I-131	4.46E-04	5.43E-05	9.48E-05	1.17E-04
I-132	*	*	*	*
I-133	1.16E-03	2.72E-04	4.48E-04	2.85E-04
<u>Total for Period</u>	<u>1.61E-03</u>	<u>3.26E-04</u>	<u>5.43E-04</u>	<u>4.03E-04</u>

* - Not Detected.

** - Activity from Abnormal Release.

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**GASEOUS EFFLUENTS
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<u>CURIES</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
3. Particulates*				
Co-60	3.55E-06	**	**	1.53E-06
Sr-89	3.12E-06	**	**	**
Sr-90	**	**	**	**
Cs-134	**	**	**	**
Cs-137	**	**	**	**
Ba-140	3.40E-05	**	**	**
La-140	1.36E-05	**	**	**
Sr-91	7.63E-05	**	**	**
Tc-99m	**	**	**	3.91E-07
Mo-99	**	**	**	4.01E-07
Y-91m	4.84E-04	1.56E-05	1.07E-05	**
Cs-138	8.51E-04	**	**	1.12E-03
Ba-139	8.00E-03	1.14E-03	**	1.35E-03
<u>Total for Period*</u>	<u>9.47E-03</u>	<u>1.16E-03</u>	1.07E-05	<u>2.47E-03</u>
4. Tritium	<u>8.36E+00***</u>	<u>7.11E+00</u>	<u>5.99E+00</u>	<u>5.59E+00***</u>

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

** - Not Detected.

*** - Includes Activity from Abnormal Release.

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**GASEOUS EFFLUENTS
(Continuous Mode Only)**

**TABLE 1D
Page 1 of 3
Gaseous Effluents - Mixed Mode Releases**

<u>CURIES</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
1. Fission Gases				
Kr-85m	**	**	**	**
Kr-85	**	**	**	**
Kr-87	**	**	**	**
Kr-88	**	**	**	**
Xe-133	**	**	**	**
Xe-135m	**	**	**	**
Xe-135	**	**	**	**
Xe-138	**	**	**	**
Other (specify)	**	**	**	**
<u>Total for Period</u>	<u>**</u>	<u>**</u>	<u>**</u>	<u>**</u>
2. Iodines				
I-131	5.61E-04	5.16E-04	1.46E-03	6.08E-04
I-132	**	**	**	**
I-133	2.43E-03	3.18E-03	4.83E-03	1.44E-03
<u>Total for Period</u>	<u>2.99E-03</u>	<u>3.69E-03</u>	<u>6.29E-03</u>	<u>2.05E-03</u>

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

**BROWNS FERRY NUCLEAR PLANT
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**GASEOUS EFFLUENTS
(Continuous Mode Only)**

TABLE 1D (Continued)

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Gaseous Effluents - Mixed Mode Releases

<u>CURIES</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
3. Particulates**				
Sr-89	4.77E-05	2.79E-05	2.92E-05	2.52E-05
Ce-141	***	1.76E-06	***	***
Cs-137	3.38E-05	6.18E-06	1.78E-05	4.15E-06
Ba-140	3.38E-04	6.78E-05	1.33E-04	4.07E-05
La-140	2.32E-04	2.82E-05	5.97E-05	2.32E-05
Na-24	2.84E-05	2.35E-04	8.86E-04	4.56E-04
Mn-54	2.04E-05	5.78E-05	3.46E-04	2.27E-04
Mn-56	1.39E-02	3.92E-02	1.13E-01	2.07E-02
Cr-51	1.21E-05	***	5.53E-05	6.91E-04
Co-58	4.26E-05	7.86E-05	4.29E-04	3.52E-04
Co-60	3.04E-04	1.88E-04	7.15E-04	1.51E-03
Zn-65	3.81E-05	7.66E-05	3.25E-04	2.33E-04
Y-91m	3.26E-03	1.11E-03	1.20E-03	5.12E-04
Sr-91	5.42E-03	3.38E-04	***	1.32E-04
Sr-92	***	2.30E-04	***	***
Cs-138	***	1.05E-02	***	2.89E-03
Ba-139	5.32E-02	2.59E-02	7.55E-03	2.24E-02
Y-92	***	1.21E-03	***	***

**BROWNS FERRY NUCLEAR PLANT
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**GASEOUS EFFLUENTS
(Continuous Mode Only)**

TABLE 1D (Continued)

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Gaseous Effluents - Mixed Mode Releases

<u>CURIES</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
3. Particulates**				
Cs-134	***	***	3.01E-06	***
Co-57	***	***	***	7.39E-07
Sb-124	***	***	***	6.49E-06
Ag-110m	***	***	4.46E-05	1.74E-05
Tc-99m	1.48E-06	1.66E-06	1.56E-05	3.90E-05
Mo-99	1.52E-06	1.71E-06	1.59E-05	4.00E-05
Zn-69m	3.78E-05	2.12E-04	1.09E-03	2.76E-04
Fe-59	***	***	***	4.96E-05
Other (Au-199)	3.07E-06	***	9.60E-06	2.53E-06
Total for Period**	<u>7.70E-02</u>	<u>7.94E-02</u>	<u>1.26E-01</u>	<u>5.06E-02</u>
4. Tritium	<u>3.42E+01</u>	<u>4.08E+01</u>	<u>4.30E+01</u>	<u>2.86E+01</u>

* - The Reactor Building and Radwaste Building are treated as split-level releases.

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

*** - Not Detected.

**BROWNS FERRY NUCLEAR PLANT
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LIQUID EFFLUENTS

**TABLE 2A
Page 1 of 1
Liquid Effluents - Summation of All Releases**

	<u>Units</u>	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>	<u>Error %</u>
A. Fission and Activation Products (Does not include tritium, gases, alpha)						
1. Total Release	Curies	4.14E-02	6.09E-03	1.20E-01	5.31E-02	9
Average Diluted Concentration						
2. Released During the Period	μCi/ml	4.73E-09	4.93E-10	8.06E-09	4.87E-13	
3. Percent of Applicable Limit	%	***	***	***	***	
B. Tritium						
1. Total Releases	Curies	8.78E+00**	1.12E+01**	6.53E+00**	1.89E+01**	6
Average Diluted Concentration						
2. Released During Period	μCi/ml	1.00E-06	9.08E-07	4.26E-07	4.62E-11	
3. Percent of Applicable Limit	%	***	***	***	***	
C. Dissolved and Entrained Noble Gases						
1. Total Releases	Curies	8.21E-05	1.67E-04	3.67E-04	1.17E-04	8
Average Diluted Concentration						
2. Released During Period	μCi/ml	9.39E-12	1.36E-11	2.47E-11	1.07E-15	
3. Percent of Applicable Limit	%	***	***	***	***	
D. Gross Alpha Radioactivity						
1. Total Releases	Curies	*	*	*	*	48
Average Diluted Concentration						
2. Released During Period	μCi/ml	*	*	*	*	
E. Volume of Liquid Waste to Discharge						
Canal (Prior to dilution)	Liters	1.84E+06	2.37E+06	2.65E+06	2.47E+06	3
F. Volume of Dilution Water for Period	Liters	8.75E+09	1.23E+10	1.49E+10	1.09E+14	10
G. Total CCW	Gigagal	2.02E+02	2.48E+02	2.64E+02	2.44E+02	

* - Not Detected.

** - Includes activity from abnormal releases. Dilution flow was not determined for the abnormal releases.

*** - The applicable limit is expressed in terms of dose. See Radiological Impact Report.

**BROWNS FERRY NUCLEAR PLANT
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LIQUID EFFLUENTS

**TABLE 2B
Page 1 of 3
Liquid Effluents**

	<u>Isotope in Curies</u> (Required by Regulatory (REG) Guide 1.21)	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
1.	Ba-140	*	*	*	*
2.	Ce-141	*	*	*	*
3.	Co-58	1.10E-03	8.96E-05	9.63E-04	9.38E-04
4.	Co-60	2.47E-02	2.60E-03	6.81E-02	2.83E-02
5.	Cr-51	1.34E-03	7.57E-06	7.43E-04	5.42E-04
6.	Cs-134	3.34E-05	5.18E-05	4.79E-04	2.72E-04
7.	Cs-137	6.48E-03	2.90E-03	2.25E-02	9.49E-03
8.	Fe-59	4.54E-05	*	*	*
9.	I-131	*	*	5.06E-05	7.74E-05
10.	La-140	*	*	7.49E-05	*
11.	Mn-54	1.73E-03	3.45E-04	5.07E-03	2.59E-03
12.	Mo-99	5.45E-05	*	*	2.87E-05
13.	Nb-95	4.56E-05	*	*	*
14.	Sr-89	5.47E-05	*	3.13E-04	1.74E-04
15.	Sr-90	*	*	4.54E-05	6.37E-05
16.	Tc-99m	5.32E-05	*	*	2.80E-05
17.	Xe-133	*	4.41E-05	1.91E-04	4.24E-05
18.	Xe-135	6.51E-05	1.23E-04	1.49E-04	7.43E-05
19.	Zn-65	1.15E-03	4.23E-05	2.51E-03	1.19E-03
20.	Zr-95	*	*	*	*

* - Not Detected.

**BROWNS FERRY NUCLEAR PLANT
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LIQUID EFFLUENTS

TABLE 2B (Continued)

**Page 2 of 3
Liquid Effluents**

Isotope Others In Curies
(Not Required by REG
Guide 1.21)

	<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
1. F-18	5.21E-04	1.88E-06	8.32E-03	4.00E-03
2. Fe-55	3.58E-04	5.03E-05	5.23E-03	1.75E-03
3. Mn-56	8.42E-04	*	5.00E-05	1.58E-03
4. Zn-69m	1.99E-04	*	*	6.94E-05
5. Nb-97	*	*	3.15E-03	9.09E-13
6. Ag-110m	2.32E-04	*	1.05E-03	3.82E-04
7. Sb-122	*	*	*	*
8. I-133	*	*	6.42E-05	6.47E-05
9. As-76	*	*	*	*
10. Na-24	2.27E-03	*	5.93E-04	1.53E-03
11. Y-91m	4.72E-05	*	*	2.14E-05
12. Ba-139	*	*	*	*
13. Br-84	*	*	2.82E-04	*
14. Co-57	*	*	*	*
15. Cs-138	*	*	*	*
16. I-134	*	*	*	*
17. La-142	*	*	*	*
18. Ni-65	*	9.15E-06	*	*
19. Rb-89	*	*	*	*
20. Sb-124	1.20E-04	*	*	*
21. Sr-91	*	*	*	*
22. Sr-92	5.12E-05	*	6.10E-05	2.23E-05
23. Tc-101	*	*	*	*
24. Te-132	*	*	*	*

**BROWNS FERRY NUCLEAR PLANT
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LIQUID EFFLUENTS

**TABLE 2B (Continued)
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Liquid Effluents**

<u>Isotope Others In</u> <u>Curies (Not Required</u> <u>by REG Guide 1.21)</u>		<u>Quarter 1</u>	<u>Quarter 2</u>	<u>Quarter 3</u>	<u>Quarter 4</u>
25.	Zr-97	*	*	*	*
26.	Ar-41	*	*	*	*
27.	Kr-87	*	*	*	*
28.	Xe-133m	1.70E-05	*	*	*
29.	Xe-135m	*	*	2.68E-05	*
30.	Y-92	*	*	4.21E-04	*
31.	Be-7	*	*	*	*

* - Not Detected.

**BROWNS FERRY NUCLEAR PLANT
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Solid Waste

**TABLE 3
Page 1 of 7
Solid Waste and Irradiated Fuel Shipments**

A. Solid Waste Shipped Offsite for Burial or Disposal (not Irradiated Fuel)

1. Type of Waste	Unit	Jan - Jun 2014	July-Dec 2014	Error %
a. Spent resins, filters, sludges, evaporator bottoms, etc.	m ³	1.23E+02	1.06E+02	+/- 25%
	Ci	9.38E+02	1.56E+03	+/- 25%
b. Dry Active Waste, Compressible Waste Contaminated Equipment, etc.	m ³	1.35E+03	1.23E+03	+/- 25%
	Ci	9.36E-01	2.01E+00	+/- 25%
c. Irradiated Components, Control Rods & LPRMs with fission chambers	m ³	0.00E+00	0.00E+00	+/- 25%
	Ci	0.00E+00	0.00E+00	+/- 25%
d. Other - Combined Packages 18' Sealand	m ³	8.21E+01	4.93E+01	+/- 25%
	Ci	3.01E+00	3.84E-02	+/- 25%

**BROWNS FERRY NUCLEAR PLANT
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Solid Waste

**TABLE 3 (Continued)
Page 2 of 7
Solid Waste and Irradiated Fuel Shipment**

2. Estimate of Major Nuclide Composition

**a. Spent resins, filters, sludges,
evaporator bottoms, etc.**

	<u>Nuclide</u>	<u>Percentage</u>	<u>Curies</u>
1)	H-3	2.64E-04	5.13E-03
2)	C-14	1.49E-02	3.72E-01
3)	K-40	3.05E-03	7.61E-02
4)	Cr-51	4.25E-02	1.06E+00
5)	Mn-54	3.48E+00	8.69E+01
6)	Fe-55	1.56E+01	3.89E+02
7)	Fe-59	1.17E-03	2.91E-02
8)	Co-58	2.83E-01	7.50E+00
9)	Co-60	7.30E+01	1.82E+03
10)	Ni-59	8.02E-04	2.00E-02
11)	Ni-63	5.73E-01	1.43E+01
12)	Cu-64	3.91E-24	9.75E-23
13)	Zn-65	2.08E+00	5.20E+01
14)	Sr-89	7.30E-04	1.82E-02
15)	Sr-90	1.99E-02	4.97E-01
16)	Tc-99	5.37E-03	1.34E-01
17)	Ag-110m	5.21E-01	1.30E+01
18)	Sb-124	1.57E-05	3.92E-04
19)	I-131	1.22E-03	3.05E-02
20)	Cs-134	8.58E-02	2.14E+00
21)	Cs-137	4.05E+00	1.01E+02
22)	Ba-140	8.94E-04	2.23E-02
23)	La-140	4.17E-06	1.04E-04
24)	Ce-141	4.97E-04	1.24E-02
25)	Ce-144	2.40E-01	6.00E+00

**BROWNS FERRY NUCLEAR PLANT
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Solid Waste

**TABLE 3 (Continued)
Page 3 of 7
Solid Waste and Irradiated Fuel Shipment**

2. Estimate of Major Nuclide Composition (Continued)

a. Spent resins, filters, sludges, evaporator bottoms, etc. (Continued)

	<u>Nuclide</u>	<u>Percentage</u>	<u>Curies</u>
26)	Pu-238	1.27E-04	3.16E-03
27)	Pu-239	4.85E-05	1.21E-03
28)	Pu-240	4.85E-05	1.21E-03
29)	Pu-241	4.53E-02	1.13E+00
30)	Am-241	1.72E-04	4.30E-03
31)	Cm-242	2.52E-05	6.29E-04
32)	Cm-243	1.20E-04	2.99E-03
33)	Cm-244	1.19E-04	2.97E-03

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Solid Waste

**TABLE 3 (Continued)
Page 4 of 7
Solid Waste and Irradiated Fuel Shipments**

2. Estimate of Major Nuclide Composition (Continued)

**b. Dry Active Waste, Compressible Waste
Contaminated Equipment, etc.**

	<u>Nuclide</u>	<u>Percentage</u>	<u>Curies</u>
1)	H-3	1.82E-01	5.36E-03
2)	Cr-51	6.37E-01	1.88E-02
3)	Mn-54	4.03E+00	1.19E-01
4)	Fe-55	1.36E+01	4.02E-01
5)	Co-58	4.01E-01	1.21E-02
6)	Co-60	5.90E+01	1.74E+00
7)	Ni-63	1.25E+00	3.70E-02
8)	Zn-65	2.17E+00	6.41E-02
9)	Sr-89	3.21E-03	9.47E-05
10)	Sr-90	3.76E-02	1.11E-03
11)	Nb-95	4.71E-03	1.39E-04
12)	Tc-99	1.58E-02	4.66E-04
13)	Ag-110m	4.61E-01	1.36E-02
14)	Sb-125	3.28E-03	9.68E-05
15)	Cs-134	1.36E-02	4.01E-04
16)	Cs-137	1.81E+01	5.35E-01
17)	Ce-144	4.27E-03	1.26E-04
18)	Pu-238	4.68E-04	1.38E-05
19)	Pu-241	1.24E-04	3.67E-04
20)	Am-241	4.31E-04	1.27E-05
21)	Cm-243	2.77E-04	8.16E-06
22)	Cm-244	2.77E-04	8.16E-06

**BROWNS FERRY NUCLEAR PLANT
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Solid Waste

**TABLE 3 (Continued)
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Solid Waste and Irradiated Fuel Shipments**

2. Estimate of Major Nuclide Composition (Continued)

c. Irradiated Components, Control Rods, etc.

<u>Nuclide</u>	<u>Percentage</u>	<u>Curies</u>
None		

**BROWNS FERRY NUCLEAR PLANT
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Solid Waste

**TABLE 3 (Continued)
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Solid Waste and Irradiated Fuel Shipments**

2. Estimate of Major Nuclide Composition (Continued)

d Other(Combined Packages,18'Sealand)

	<u>Nuclide</u>	<u>Percentage</u>	<u>Curies</u>
1)	H-3	1.44E-01	4.39E-03
2)	Cr-51	1.55E-01	4.74E-03
3)	Mn-54	3.03E+00	9.23E-02
4)	Fe-55	1.34E+01	4.10E-01
5)	Co-58	2.99E-01	9.13E-03
6)	Co-60	6.53E+01	1.99E+00
7)	Ni-63	1.14E+00	3.47E-02
8)	Zn-65	1.42E+00	4.34E-02
9)	Sr-89	8.20E-02	2.50E-03
10)	Sr-90	3.54E-02	1.08E-03
11)	Nb-95	2.50E-01	7.61E-03
12)	Tc-99	7.84E-03	2.39E-04
13)	Ag-110m	5.94E-01	1.81E-02
14)	Sb-125	2.43E-02	7.42E-04
15)	Cs-134	4.07E-01	1.24E-02
16)	Cs-137	1.35E+01	4.13E-01
17)	Ce-144	1.25E-01	3.82E-03
18)	Pu-238	3.87E-04	1.18E-05
19)	Pu-239	7.28E-06	2.22E-07
20)	Pu-240	7.28E-06	2.22E-07
21)	Pu-241	1.07E-02	3.27E-04
22)	Am-241	3.54E-04	1.08E-05
23)	Cm-242	8.27E-07	2.52E-08
24)	Cm-243	2.20E-04	6.71E-06
25)	Cm-244	2.18E-04	6.66E-06

**BROWNS FERRY NUCLEAR PLANT
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Solid Waste

**TABLE 3 (Continued)
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Solid Waste and Irradiated Fuel Shipments**

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
8	Hittman	Toxco, Inc
66	Interstate Ventures, Inc.	Toxco, Inc
6	TOPs Transportation	Toxco, Inc
3	Tri-State	Toxco, Inc
6	TVA Transportation Services	Toxco, Inc
47	Hittman	Waste Control Specialist
1	Interstate Ventures, Inc.	Waste Control Specialist

B. Irradiated Fuel Shipments

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
0	0	0

**BROWNS FERRY NUCLEAR PLANT
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RADIOLOGICAL IMPACT

1. Introduction

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

2. 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:

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

**BROWNS FERRY NUCLEAR PLANT
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RADIOLOGICAL IMPACT

2. Dose Limits (Continued)

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

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

3. Dose Calculations

Estimated doses to members of the public are determined using computer models (the Gaseous Effluent Licensing Code, and the Quarterly Water Dose Assessment Code (QWATA)). These models are based on guidance provided by the Nuclear Regulatory Commission (NRC) 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. The values chosen will tend to overestimate the dose. The expected dose to actual individuals is lower. The calculated doses are presented in Tables 4, 5, and 6.

4. 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 animals.

a. Airborne Release Points

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

Releases from the turbine building are considered ground-level releases. The ground-level Joint Frequency Distribution (JFD) is derived from wind speeds and directions measured 10.5 meters above the ground and from the vertical temperature difference between 10.03 and 45.30 meters, and are presented for each quarter in the 2014 Meteorological Data Tables 7A, 7B, 7C, and 7D.

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4. Doses From Airborne Effluents (Continued)

a. Airborne Release Points (Continued)

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 10.5 meters above ground-level and from the vertical temperature difference between 10.03 and 45.30 meters. The elevated portion of the split-level JFD is based on wind speeds and direction measurements at the 45.74 meter level and the vertical temperature difference between 10.03 and 89.59 meters. Both of these JFDs are given for each quarter in the 2014 Meteorological Data Tables 8A, 8B, 8C, and 8D.

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 90.29 meters and the vertical temperature difference between 10.03 and 89.59 meters, and are given for each quarter in the 2014 Meteorological Data Tables 9A, 9B, 9C, 9D.

b. Meteorological Data

Meteorological variables at BFN are measured continuously. Measurements collected include wind speed and wind direction at heights of 10.5, 45.74, and 90.29 meters above the ground, and temperature at heights of 10.03, 45.30, and 89.59 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.

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4. Doses From Airborne Effluents (Continued)

c. 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.

d. 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.

e. 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. However, for the ingestion dose, 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 Table 4.

5. Doses From Liquid Effluents

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

The concentration of radionuclides in the Tennessee River is calculated by a computer model which uses measured hydraulic data downstream of BFN. Parameters used to determine the doses are based on guidance given by the NRC for maximum ingestion rates, exposure times, etc.

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5. Doses From Liquid Effluents (Continued)

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.

a. Liquid Release Points and River Data

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

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

6. Population Doses

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

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

Population doses calculated for airborne and liquid effluents are presented in Tables 4 and 5.

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7. 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 18 mrem/quarter at onsite (at or near the site boundary) stations and approximately 15 mrem/quarter at offsite stations or approximately 2.5 mrem/quarter higher onsite than at offsite stations. This difference is consistent with levels measured for pre-operation and construction phases of the Tennessee Valley Authority nuclear plants where the average radiation levels onsite were generally 2-6 mrem/quarter higher than the levels offsite. This may be attributable to natural variations in environmental radiation levels, earth moving activities onsite, the mass of concrete employed in the construction of the plants, or other undetermined influences. Fluctuations in natural background dose rates and in dosimeter readings tend to mask any small increments which may be due to plant operations. Thus, there was no identifiable increase in dose rate levels attributable to direct radiation from plant equipment and/or gaseous effluents.

8. Dose To A Member Of The Public Inside The Site Boundary

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

The direct radiation dose was determined from area environmental dosimeters located onsite. It consisted of gamma dose from the plume, ground contamination, and from equipment sources (i.e., tanks, turbine shine, radioactive material storage areas, etc.). The critical location was determined to be an Optically Stimulated Luminescence (OSL) dosimeter near the Livewell Center (Training Center). The direct radiation dose accounting for background and occupancy was 0.00 mrem during 2014.

The total annual dose commitment to a member of the public for 2014 is 0.00 mrem. It can be concluded that the dose limit for a member of the public at the site boundary as specified in 10 CFR 20.1301 was not exceeded.

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9. Total Dose

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

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

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

Total dose from the fuel cycle is presented in Table 6.

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RADIOLOGICAL IMPACT

**TABLE 4
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Doses from Airborne Effluents**

First Quarter*

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location
External				
Gamma Air	1.83E-10 mrad	5 mrad	< 1 %	NNW/1650 meters
Beta Air	5.60E-10 mrad	10 mrad	< 1 %	NNW/1650 meters
Submersion				
Total Body	6.29E-04 mrem	NA	NA	NNW/1650 meters
Skin	7.40E-04 mrem	NA	NA	NNW/1650 meters
Organ Doses				
Child/Bone	1.82E-02 mrem	7.5 mrem	< 1 %	SSW/4880 meters
Child/Thyroid	1.39E-02 mrem	7.5 mrem	< 1 %	NNW/2290 meters
Child/Total Body	9.95E-03 mrem	7.5 mrem	< 1 %	NNW/2290 meters

Population Doses

Total Body Dose 1.20E-01 man-rem

Maximum Organ Dose (organ) 5.02E-01 man-rem (Bone)

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

* Includes dose from abnormal releases

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**TABLE 4 (Continued)
Page 2 of 4
Doses from Airborne Effluents**

Second Quarter

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location
External				
Gamma Air	8.67E-11 mrad	5 mrad	< 1 %	NNW/1650 meters
Beta Air	2.65E-10 mrad	10 mrad	< 1 %	NNW/1650 meters
Submersion				
Total Body	5.34E-04 mrem	NA	NA	E/1410 meters
Skin	6.28E-04 mrem	NA	NA	E/1410 meters
Organ Doses				
Child/Bone	2.99E-02 mrem	7.5 mrem	< 1 %	NE/4290 meters
Child/Thyroid	1.50E-02 mrem	7.5 mrem	< 1 %	N/2540 meters
Child/Total Body	1.27E-02 mrem	7.5 mrem	< 1 %	N/2540 meters

Population Doses

Total Body Dose 1.66E-01 man-rem

Maximum Organ Dose (organ) 7.03E-01 man-rem (bone)

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

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**TABLE 4 (Continued)
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Doses from Airborne Effluents**

Third Quarter

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location
External				
Gamma Air	1.03-10 mrad	5 mrad	< 1 %	S/2250 meters
Beta Air	3.15E-10 mrad	10 mrad	< 1 %	S/2250 meters
Submersion				
Total Body	1.67E-03 mrem	NA	NA	E/1410 meters
Skin	1.96E-03 mrem	NA	NA	E/1410 meters
Organ Doses				
Child/Bone	2.81E-02 mrem	7.5 mrem	< 1 %	ENE/5070 meters
Child/Thyroid	1.41E-02 mrem	7.5 mrem	< 1 %	E/1410 meters
Child/Total Body	9.74E-03 mrem	7.5 mrem	< 1 %	E/1410 meters

Population Doses

Total Body Dose 1.73E-01 man-rem

Maximum Organ Dose (organ) 7.29E-01 man-rem (bone)

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

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**TABLE 4 (Continued)
Page 4 of 4
Doses from Airborne Effluents**

Fourth Quarter*

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location
External				
Gamma Air	5.15E-11 mrad	5 mrad	< 1 %	NNW/1650 meters
Beta Air	1.57E-10 mrad	10 mrad	< 1 %	NNW/1650 meters
Submersion				
Total Body	2.30E-03 mrem	NA	NA	E/1410 meters
Skin	2.71E-03 mrem	NA	NA	E/1410 meters
Organ Doses				
Child/ Bone	1.98E-02 mrem	7.5 mrem	< 1 %	S/4540 meters
Child/Thyroid	7.87E-03 mrem	7.5 mrem	< 1 %	E/1410 meters
Child /Total Body	7.00E-03 mrem	7.5 mrem	< 1 %	S/4540 meters

Population Doses

Total Body Dose 1.25E-01 man-rem

Maximum Organ Dose (organ) 5.16E-01 man-rem (bone)

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

* Includes dose from abnormal releases

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**Table 5
Page 1 of 4
Doses from Liquid Effluents**

First Quarter*

Individual Doses (mrem)

Age Group	Organ	Dose Pathway	Dose	Quarterly Limit	Percent of Limit
Adult	Total Body	Fish Ingestion	1.1E-03		
		Recreation	7.1E-04		
		Water Ingestion	6.5E-05		
		Total	1.9E-03	1.5 mrem	< 1 %
Teen	Liver	Fish Ingestion	1.8E-03		
		Recreation	7.1E-04		
		Water Ingestion	6.5E-05		
		Total	2.6E-03	5 mrem	< 1 %
Child	Thyroid	Fish Ingestion	6.8E-07		
		Recreation	7.1E-04		
		Water Ingestion	5.3E-05		
		Total	7.6E-04	5 mrem	< 1 %

Average Riverflow past BFN (cubic feet per second): 63717

Population Doses

Total Body Dose 8.4E-02 man-rem

Maximum Organ Dose (organ) 9.0E-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.

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**Table 5 (Continued)
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Doses from Liquid Effluents**

Second Quarter*

Individual Doses (mrem)

Age Group	Organ	Dose Pathway	Dose	Quarterly Limit	Percent of Limit
Adult	Total Body	Fish Ingestion	1.3E-03		
		Recreation	2.7E-04		
		Water Ingestion	1.6E-04		
		Total	1.7E-03	1.5 mrem	< 1 %
Child	Bone	Fish Ingestion	2.0E-03		
		Recreation	2.7E-04		
		Water Ingestion	2.6E-04		
		Total	2.5E-03	5 mrem	< 1 %
Child	Thyroid	Fish Ingestion	3.5E-06		
		Recreation	2.7E-04		
		Water Ingestion	1.8E-04		
		Total	4.5E-04	5 mrem	< 1 %

Average Riverflow past BFN (cubic feet per second): 23973

Population Doses

Total Body Dose 3.9E-02 man-rem

Maximum Organ Dose (organ) 4.6E-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.

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**Table 5 (Continued)
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Doses from Liquid Effluents**

Third Quarter*

Individual Doses (mrem)

Age Group	Organ	Dose Pathway	Dose	Quarterly Limit	Percent of Limit
Adult	Total Body	Fish Ingestion	9.7E-03		
		Recreation	4.8E-03		
		Water Ingestion	2.9E-04		
		Total	1.5E-02	1.5 mrem	1 %
Child	Bone	Fish Ingestion	1.4E-02		
		Recreation	4.8E-03		
		Water Ingestion	7.2E-04		
		Total	2.0E-02	5 mrem	< 1 %
Child	Thyroid	Fish Ingestion	8.1E-06		
		Recreation	4.8E-03		
		Water Ingestion	1.1E-04		
		Total	4.9E-03	5 mrem	< 1 %

Average Riverflow past BFN (cubic feet per second): 26459

Population Doses

Total Body Dose 6.0E-01 man-rem

Maximum Organ Dose (organ) 6.5E-01 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.

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**Table 5 (Continued)
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Doses from Liquid Effluents**

Fourth Quarter*

Individual Doses (mrem)

Age Group	Organ	Dose Pathway	Dose	Quarterly Limit	Percent of Limit
Adult	Total Body	Fish Ingestion	2.3E-03		
		Recreation	1.1E-03		
		Water Ingestion	1.7E-04		
		Total	3.6E-03	1.5 mrem	< 1 %
Teen	Liver	Fish Ingestion	3.6E-03		
		Recreation	1.1E-03		
		Water Ingestion	1.4E-04		
		Total	4.8E-03	5 mrem	< 1 %
Child	Thyroid	Fish Ingestion	9.3E-06		
		Recreation	1.1E-03		
		Water Ingestion	1.7E-04		
		Total	1.3E-03	5 mrem	< 1 %

Average Riverflow past BFN (cubic feet per second): 47281

Population Doses

Total Body Dose 1.4E-01 man-rem

Maximum Organ Dose (organ) 1.5E-01 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.

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**Table 5A
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Total Dose from I-131 Water Ingestion Pathway**

Quarter	1	2	3	4	Totals
I-131 Ci	-	-	5.06E-05	7.74E-05	1.28E-4
Infant/Thyroid (mrem)	-	-	2.5E-05	2.4E-05	4.9E-05
Population/Thyroid (mrem)			1.6E-04	1.8E-04	3.4E-04

Doses from I-131 Water Ingestion Pathway

The REMP requirements as specified in Table 3.12-1 from NUREG 1302, "Offsite Dose Calculation Manual Guidance: Standard Radiological Effluent Controls for Boiling Water Reactors," dated April 1991, requires an I-131 specific analysis for drinking water pathway samples if the annual dose from I-131 is greater than 1 mrem. In order to evaluate the need for implementation of this additional analysis, the drinking water pathway dose from I-131 to the maximum organ and age group was calculated. The results reported here confirm that the drinking water pathway dose from I-131 was less than the 1 mrem limit and that the performance of the I-131 specific analysis is not required for BFN REMP drinking water samples.

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**Table 6
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Total Dose from Fuel Cycle**

Dose	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	
Total Body or any Organ (except thyroid)					
Total body air submersion	6.3E-04	5.3E-04	1.7E-03	2.3E-03	
Critical organ dose (air)	1.82E-02	3.0E-02	2.8E-02	2.0E-02	
Total body dose (liquid)	1.9E-03	1.7E-02	1.5E-02	3.6E-03	
Maximum organ dose (liquid)	2.6E-03	2.5E-03	2.0E-02	4.8E-03	
Direct Radiation Dose	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
Total	2.3E-02	5.0E-02	6.5E-02	3.1E-02	
Cumulative Total Dose (mrem) (Total body or any other organ)					1.69E-01
Annual Dose Limit (mrem)					2.5E+01
Percent of Limit					< 1%
Thyroid Dose (mrem)					
Total body air submersion	6.3E-04	5.3E-04	1.7E-03	2.3E-03	
Thyroid dose (airborne)	1.39E-02	1.5E-02	1.4E-02	7.9E-03	
Total body dose (liquid)	1.9E-03	1.7E-02	1.5E-02	3.6E-03	
Thyroid dose (liquid)	7.6E-04	4.5E-04	4.9E-03	1.3E-03	
Direct Radiation Dose	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
Total	1.7E-02	3.3E-02	3.6E-02	1.5E-02	
Cumulative Total Dose (Thyroid) mrem					1.01E-01
Annual Dose Limit (mrem)					7.5E+01
Percent of Limit					< 1%

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2014 METEOROLOGICAL DATA

TABLE 7A

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR GROUND LEVEL RELEASES

FIRST QUARTER

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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, 2014 - MAR 31, 2014

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	0.094	0.421	0.140	0.000	0.000	0.655
NNE	0.000	0.000	0.000	0.000	0.047	0.421	0.000	0.000	0.000	0.468
NE	0.000	0.000	0.000	0.000	0.047	0.047	0.000	0.000	0.000	0.094
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	0.047	0.000	0.000	0.000	0.000	0.000	0.047
ESE	0.000	0.000	0.000	0.140	0.094	0.000	0.000	0.000	0.000	0.234
SE	0.000	0.000	0.094	1.357	0.187	0.000	0.000	0.000	0.000	1.638
SSE	0.000	0.000	0.234	0.796	0.000	0.000	0.000	0.000	0.000	1.029
S	0.000	0.000	0.000	0.562	0.328	0.047	0.000	0.000	0.000	0.936
SSW	0.000	0.000	0.094	0.328	0.234	0.047	0.000	0.000	0.000	0.702
SW	0.000	0.000	0.000	0.140	0.000	0.000	0.000	0.000	0.000	0.140
WSW	0.000	0.000	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.094
W	0.000	0.000	0.000	0.000	0.000	0.187	0.047	0.000	0.000	0.234
WNW	0.000	0.000	0.000	0.000	0.000	0.047	0.047	0.000	0.000	0.094
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.140	0.187	0.000	0.328
NNW	0.000	0.000	0.000	0.000	0.000	0.140	0.000	0.000	0.000	0.140
SUBTOTAL	0.000	0.000	0.421	3.463	1.029	1.357	0.374	0.187	0.000	6.832

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2137
TOTAL HOURS OF STABILITY CLASS A	146
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	146
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2137
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: 2014/05/07

MEAN WIND SPEED = 6.67

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - MAR 31, 2014

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	0.094	0.047	0.094	0.000	0.000	0.000	0.234
NNE	0.000	0.000	0.000	0.187	0.047	0.047	0.000	0.000	0.000	0.281
NE	0.000	0.000	0.000	0.000	0.094	0.094	0.000	0.000	0.000	0.187
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.140	0.000	0.000	0.000	0.000	0.000	0.140
SE	0.000	0.000	0.094	0.328	0.000	0.000	0.000	0.000	0.000	0.421
SSE	0.000	0.000	0.000	0.187	0.000	0.000	0.000	0.000	0.000	0.187
S	0.000	0.000	0.140	0.047	0.047	0.000	0.000	0.000	0.000	0.234
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	0.140	0.140	0.000	0.000	0.000	0.000	0.000	0.281
WSW	0.000	0.000	0.000	0.047	0.094	0.000	0.000	0.000	0.000	0.140
W	0.000	0.000	0.000	0.140	0.047	0.047	0.000	0.000	0.000	0.234
WNW	0.000	0.000	0.000	0.000	0.000	0.187	0.140	0.047	0.000	0.374
NW	0.000	0.000	0.000	0.000	0.000	0.047	0.234	0.000	0.000	0.281
NNW	0.000	0.000	0.000	0.000	0.047	0.328	0.047	0.000	0.000	0.421
SUBTOTAL	0.000	0.000	0.421	1.404	0.421	0.842	0.421	0.047	0.000	3.556

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2137
TOTAL HOURS OF STABILITY CLASS B	76
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	76
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2137
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: 2014/05/07

MEAN WIND SPEED = 7.24

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - MAR 31, 2014

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	0.140	0.328	0.047	0.000	0.000	0.562
NNE	0.000	0.000	0.000	0.094	0.374	0.187	0.000	0.000	0.000	0.655
NE	0.000	0.000	0.000	0.047	0.094	0.047	0.000	0.000	0.000	0.187
ENE	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.047
E	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
ESE	0.000	0.000	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.094
SE	0.000	0.000	0.140	0.281	0.047	0.000	0.000	0.000	0.000	0.468
SSE	0.000	0.000	0.187	0.047	0.047	0.000	0.000	0.000	0.000	0.281
S	0.000	0.000	0.140	0.187	0.000	0.000	0.000	0.000	0.000	0.328
SSW	0.000	0.000	0.094	0.094	0.094	0.000	0.000	0.000	0.000	0.281
SW	0.000	0.000	0.094	0.140	0.000	0.000	0.000	0.000	0.000	0.234
WSW	0.000	0.000	0.000	0.047	0.047	0.000	0.000	0.000	0.000	0.094
W	0.000	0.000	0.047	0.140	0.187	0.094	0.000	0.000	0.000	0.468
WNW	0.000	0.000	0.000	0.000	0.281	0.234	0.234	0.047	0.000	0.796
NW	0.000	0.000	0.000	0.047	0.234	0.047	0.281	0.047	0.000	0.655
NNW	0.000	0.000	0.000	0.094	0.047	0.094	0.047	0.000	0.000	0.281
SUBTOTAL	0.000	0.000	0.749	1.357	1.638	1.029	0.608	0.094	0.000	5.475

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2137
TOTAL HOURS OF STABILITY CLASS C	117
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	117
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2137
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: 2014/05/07

MEAN WIND SPEED = 7.27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - MAR 31, 2014

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	0.001	0.000	0.187	0.608	1.451	2.901	0.094	0.000	0.000	5.242
NNE	0.004	0.000	0.515	0.936	1.544	1.497	0.000	0.000	0.000	4.496
NE	0.002	0.000	0.328	0.421	1.170	0.281	0.000	0.000	0.000	2.202
ENE	0.002	0.000	0.328	0.328	0.094	0.000	0.000	0.000	0.000	0.751
E	0.001	0.000	0.187	0.187	0.000	0.000	0.000	0.000	0.000	0.376
ESE	0.002	0.000	0.281	0.468	0.140	0.000	0.000	0.000	0.000	0.891
SE	0.005	0.000	0.608	0.702	0.140	0.000	0.000	0.000	0.000	1.455
SSE	0.006	0.000	0.842	0.608	0.000	0.000	0.000	0.000	0.000	1.457
S	0.008	0.047	1.029	0.655	0.234	0.000	0.000	0.000	0.000	1.973
SSW	0.004	0.047	0.468	0.421	0.140	0.000	0.000	0.000	0.000	1.080
SW	0.003	0.000	0.421	0.140	0.000	0.000	0.000	0.000	0.000	0.565
WSW	0.002	0.000	0.281	0.140	0.047	0.047	0.000	0.000	0.000	0.517
W	0.002	0.000	0.281	0.655	0.328	0.421	0.000	0.000	0.000	1.687
WNW	0.002	0.000	0.328	0.421	0.421	0.749	0.234	0.140	0.000	2.295
NW	0.001	0.000	0.094	0.468	0.562	1.685	1.919	0.655	0.000	5.382
NNW	0.000	0.000	0.047	0.328	0.702	2.527	0.655	0.000	0.000	4.259
SUBTOTAL	0.047	0.094	6.224	7.487	6.972	10.108	2.901	0.796	0.000	34.628

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2137
TOTAL HOURS OF STABILITY CLASS D	740
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	740
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2137
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: 2014/05/07

MEAN WIND SPEED = 7.27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
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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, 2014 - MAR 31, 2014

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	0.140	0.655	0.655	0.421	0.140	0.047	0.000	0.000	2.059
NNE	0.000	0.000	0.328	0.796	0.655	0.187	0.000	0.000	0.000	1.965
NE	0.000	0.000	0.374	0.421	0.140	0.094	0.000	0.000	0.000	1.029
ENE	0.000	0.047	0.468	0.000	0.000	0.000	0.000	0.000	0.000	0.515
E	0.000	0.094	0.983	0.468	0.000	0.000	0.000	0.000	0.000	1.544
ESE	0.000	0.047	0.562	0.842	0.140	0.140	0.000	0.000	0.000	1.731
SE	0.000	0.094	0.983	0.936	0.000	0.000	0.000	0.000	0.000	2.012
SSE	0.000	0.281	2.246	0.281	0.000	0.000	0.000	0.000	0.000	2.808
S	0.000	0.094	1.497	1.497	0.608	0.187	0.000	0.000	0.000	3.884
SSW	0.000	0.140	0.655	0.374	0.281	0.047	0.000	0.000	0.000	1.497
SW	0.000	0.047	0.234	0.140	0.000	0.047	0.000	0.000	0.000	0.468
WSW	0.000	0.000	0.515	0.328	0.047	0.000	0.000	0.000	0.000	0.889
W	0.000	0.000	0.842	0.515	0.187	0.187	0.000	0.000	0.000	1.731
WNW	0.000	0.094	0.187	0.140	0.562	0.187	0.047	0.000	0.000	1.217
NW	0.000	0.047	0.281	0.374	0.749	0.936	0.094	0.047	0.000	2.527
NNW	0.000	0.000	0.468	0.842	0.749	0.421	0.047	0.000	0.000	2.527
SUBTOTAL	0.000	1.123	11.277	8.610	4.539	2.574	0.234	0.047	0.000	28.404

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2137
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	2137
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: 2014/05/07

MEAN WIND SPEED = 4.35

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
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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, 2014 - MAR 31, 2014

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	0.421	0.234	0.094	0.000	0.000	0.000	0.000	0.796
NNE	0.000	0.140	0.281	0.281	0.140	0.000	0.000	0.000	0.000	0.842
NE	0.000	0.094	0.187	0.047	0.000	0.000	0.000	0.000	0.000	0.328
ENE	0.000	0.047	0.140	0.094	0.000	0.000	0.000	0.000	0.000	0.281
E	0.000	0.094	0.749	0.187	0.000	0.000	0.000	0.000	0.000	1.029
ESE	0.000	0.094	0.655	0.234	0.000	0.000	0.000	0.000	0.000	0.983
SE	0.000	0.374	1.544	0.094	0.000	0.000	0.000	0.000	0.000	2.012
SSE	0.000	0.328	1.638	0.140	0.000	0.000	0.000	0.000	0.000	2.106
S	0.000	0.234	0.889	1.123	0.374	0.094	0.000	0.000	0.000	2.714
SSW	0.000	0.187	0.562	0.234	0.047	0.000	0.000	0.000	0.000	1.029
SW	0.000	0.000	0.328	0.000	0.000	0.000	0.000	0.000	0.000	0.328
WSW	0.000	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.094
W	0.000	0.000	0.140	0.000	0.047	0.000	0.000	0.000	0.000	0.187
WNW	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047
NW	0.000	0.000	0.187	0.140	0.047	0.000	0.000	0.000	0.000	0.374
NNW	0.000	0.094	0.515	0.140	0.094	0.047	0.000	0.000	0.000	0.889
SUBTOTAL	0.000	1.731	8.376	2.948	0.842	0.140	0.000	0.000	0.000	14.038

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2137
TOTAL HOURS OF STABILITY CLASS F	300
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	300
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2137
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: 2014/05/07

MEAN WIND SPEED = 2.90

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2014 - MAR 31, 2014

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	0.140	0.234	0.094	0.000	0.000	0.000	0.000	0.000	0.468
NNE	0.000	0.094	0.094	0.094	0.000	0.000	0.000	0.000	0.000	0.281
NE	0.000	0.281	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.328
ENE	0.000	0.047	0.468	0.000	0.000	0.000	0.000	0.000	0.000	0.515
E	0.000	0.094	0.234	0.047	0.000	0.000	0.000	0.000	0.000	0.374
ESE	0.000	0.281	0.234	0.000	0.000	0.000	0.000	0.000	0.000	0.515
SE	0.000	0.328	0.421	0.000	0.000	0.000	0.000	0.000	0.000	0.749
SSE	0.000	0.328	1.451	0.234	0.047	0.000	0.000	0.000	0.000	2.059
S	0.000	0.047	0.515	0.655	0.047	0.000	0.000	0.000	0.000	1.263
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	0.094	0.094	0.000	0.047	0.000	0.000	0.000	0.000	0.234
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.047	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.140
NNW	0.000	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.094
SUBTOTAL	0.000	1.825	3.931	1.170	0.140	0.000	0.000	0.000	0.000	7.066

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2137
TOTAL HOURS OF STABILITY CLASS G	151
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	151
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2137
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: 2014/05/07

MEAN WIND SPEED = 2.40

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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BROWNS FERRY NUCLEAR PLANT

2014 METEOROLOGICAL DATA

TABLE 7B

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR GROUND LEVEL RELEASES

SECOND QUARTER

BROWNS FERRY NUCLEAR PLANT
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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, 2014 - JUN 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
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	0.092	0.183	0.000	0.000	0.000	0.275
NE	0.000	0.000	0.000	0.000	0.000	0.092	0.138	0.000	0.000	0.229
ENE	0.000	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.000	0.092
E	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
ESE	0.000	0.000	0.000	0.046	0.229	0.000	0.000	0.000	0.000	0.275
SE	0.000	0.000	0.642	1.147	0.229	0.046	0.000	0.000	0.000	2.064
SSE	0.000	0.000	0.963	0.505	0.000	0.000	0.000	0.000	0.000	1.468
S	0.000	0.000	1.009	0.642	0.092	0.000	0.000	0.000	0.000	1.743
SSW	0.000	0.000	1.009	1.239	0.092	0.000	0.000	0.000	0.000	2.339
SW	0.000	0.000	0.046	0.413	0.046	0.000	0.000	0.000	0.000	0.505
WSW	0.000	0.000	0.046	0.367	0.092	0.000	0.000	0.000	0.000	0.505
W	0.000	0.000	0.000	0.000	0.138	0.275	0.000	0.000	0.000	0.413
WNW	0.000	0.000	0.000	0.000	0.000	0.413	0.138	0.000	0.000	0.550
NW	0.000	0.000	0.000	0.000	0.000	0.183	0.183	0.000	0.000	0.367
NNW	0.000	0.000	0.000	0.000	0.000	0.092	0.229	0.000	0.000	0.321
SUBTOTAL	0.000	0.000	3.716	4.404	1.101	1.284	0.688	0.000	0.000	11.193

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2180
TOTAL HOURS OF STABILITY CLASS A	244
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	244
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2180
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: 2014/07/30

MEAN WIND SPEED = 5.22

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
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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, 2014 - JUN 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
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	0.092	0.092	0.000	0.000	0.000	0.183
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	0.046	0.000	0.046	0.000	0.000	0.000	0.092
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	0.459	0.000	0.000	0.000	0.000	0.000	0.459
SE	0.000	0.000	0.459	0.229	0.000	0.000	0.000	0.000	0.000	0.688
SSE	0.000	0.000	0.183	0.000	0.000	0.000	0.000	0.000	0.000	0.183
S	0.000	0.000	0.367	0.138	0.000	0.000	0.000	0.000	0.000	0.505
SSW	0.000	0.000	0.550	0.413	0.046	0.000	0.000	0.000	0.000	1.009
SW	0.000	0.000	0.367	0.092	0.000	0.000	0.000	0.000	0.000	0.459
WSW	0.000	0.000	0.046	0.550	0.092	0.000	0.000	0.000	0.000	0.688
W	0.000	0.000	0.000	0.367	0.505	0.138	0.000	0.000	0.000	1.009
WNW	0.000	0.000	0.000	0.000	0.183	0.688	0.046	0.000	0.000	0.917
NW	0.000	0.000	0.000	0.000	0.000	0.550	0.000	0.000	0.000	0.550
NNW	0.000	0.000	0.000	0.000	0.046	0.138	0.046	0.000	0.000	0.229
SUBTOTAL	0.000	0.000	1.972	2.294	1.009	1.697	0.092	0.000	0.000	7.064

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2180
TOTAL HOURS OF STABILITY CLASS B	154
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	154
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2180
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: 2014/07/30

MEAN WIND SPEED = 5.64

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT **UNITS 1, 2, AND 3** **2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - JUN 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
NNE	0.000	0.000	0.000	0.046	0.092	0.000	0.000	0.000	0.000	0.138
NE	0.000	0.000	0.000	0.092	0.000	0.092	0.046	0.000	0.000	0.229
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	0.183	0.000	0.000	0.000	0.000	0.000	0.183
ESE	0.000	0.000	0.000	0.138	0.046	0.000	0.000	0.000	0.000	0.183
SE	0.000	0.000	0.321	0.000	0.046	0.000	0.000	0.000	0.000	0.367
SSE	0.000	0.000	0.505	0.000	0.000	0.000	0.000	0.000	0.000	0.505
S	0.000	0.000	0.367	0.046	0.000	0.000	0.000	0.000	0.000	0.413
SSW	0.000	0.000	0.413	0.183	0.000	0.000	0.000	0.000	0.000	0.596
SW	0.000	0.000	0.459	0.046	0.000	0.000	0.000	0.000	0.000	0.505
WSW	0.000	0.000	0.459	0.367	0.046	0.000	0.000	0.000	0.000	0.872
W	0.000	0.000	0.000	0.459	0.596	0.092	0.000	0.000	0.000	1.147
WNW	0.000	0.000	0.000	0.046	0.413	0.275	0.092	0.000	0.000	0.826
NW	0.000	0.000	0.000	0.000	0.229	0.138	0.000	0.000	0.000	0.367
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	2.523	1.606	1.514	0.642	0.138	0.000	0.000	6.422

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2180
TOTAL HOURS OF STABILITY CLASS C	140
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	140
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2180
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: 2014/07/30

MEAN WIND SPEED = 4.89

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - JUN 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.092	0.092	0.000	0.092	0.000	0.000	0.000	0.275
NNE	0.000	0.000	0.092	0.183	0.092	0.092	0.000	0.000	0.000	0.459
NE	0.000	0.000	0.183	0.505	0.092	0.229	0.000	0.000	0.000	1.009
ENE	0.000	0.000	0.092	0.229	0.000	0.000	0.000	0.000	0.000	0.321
E	0.000	0.000	0.367	0.321	0.092	0.046	0.000	0.000	0.000	0.826
ESE	0.000	0.000	0.550	0.642	0.092	0.000	0.000	0.000	0.000	1.284
SE	0.000	0.000	0.963	0.092	0.092	0.092	0.000	0.000	0.000	1.239
SSE	0.000	0.046	1.055	0.138	0.000	0.000	0.000	0.000	0.000	1.239
S	0.000	0.000	2.110	0.505	0.046	0.046	0.000	0.000	0.000	2.706
SSW	0.000	0.000	2.294	0.780	0.138	0.046	0.000	0.000	0.000	3.257
SW	0.000	0.092	1.147	0.138	0.092	0.000	0.000	0.000	0.000	1.468
WSW	0.000	0.000	1.468	0.734	0.138	0.000	0.000	0.000	0.000	2.339
W	0.000	0.000	0.734	1.789	1.009	0.550	0.000	0.000	0.000	4.083
WNW	0.000	0.000	0.229	0.596	1.284	0.596	0.321	0.000	0.000	3.028
NW	0.000	0.000	0.092	0.413	0.367	0.826	0.229	0.000	0.000	1.927
NNW	0.000	0.000	0.092	0.138	0.046	0.275	0.183	0.000	0.000	0.734
SUBTOTAL	0.000	0.138	11.560	7.294	3.578	2.890	0.734	0.000	0.000	26.193

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2180
TOTAL HOURS OF STABILITY CLASS D	571
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	571
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2180
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: 2014/07/30

MEAN WIND SPEED = 4.67

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED (MPH)						
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	TOTAL
N	0.000	0.000	0.275	0.413	0.092	0.000	0.000	0.000	0.000	0.780
NNE	0.000	0.000	0.459	0.367	0.275	0.046	0.000	0.000	0.000	1.147
NE	0.000	0.138	0.367	0.321	0.229	0.046	0.000	0.000	0.000	1.101
ENE	0.000	0.321	0.826	0.596	0.275	0.046	0.000	0.000	0.000	2.064
E	0.000	0.413	1.651	0.688	0.092	0.046	0.000	0.000	0.000	2.890
ESE	0.000	0.138	1.881	0.826	0.275	0.138	0.000	0.000	0.000	3.257
SE	0.000	0.596	1.376	0.229	0.000	0.000	0.000	0.000	0.000	2.202
SSE	0.000	0.505	2.294	0.046	0.000	0.000	0.000	0.000	0.000	2.844
S	0.000	0.183	2.156	1.239	0.321	0.229	0.000	0.000	0.000	4.128
SSW	0.000	0.596	1.514	0.229	0.138	0.046	0.000	0.000	0.000	2.523
SW	0.000	0.367	0.734	0.092	0.000	0.000	0.000	0.000	0.000	1.193
WSW	0.000	0.275	1.651	0.092	0.000	0.000	0.046	0.000	0.000	2.064
W	0.000	0.138	0.688	1.101	0.321	0.138	0.046	0.000	0.000	2.431
WNW	0.000	0.046	0.321	0.092	0.183	0.183	0.046	0.000	0.000	0.872
NW	0.000	0.000	0.138	0.092	0.183	0.229	0.046	0.000	0.000	0.688
NNW	0.000	0.000	0.413	0.183	0.138	0.275	0.092	0.000	0.000	1.101
SUBTOTAL	0.000	3.716	16.743	6.606	2.523	1.422	0.275	0.000	0.000	31.284

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2180
TOTAL HOURS OF STABILITY CLASS E	682
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	682
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2180
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: 2014/07/30

MEAN WIND SPEED = 3.34

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.002	0.183	0.138	0.321	0.000	0.000	0.000	0.000	0.000		0.644
NNE	0.002	0.092	0.321	0.183	0.046	0.000	0.000	0.000	0.000		0.644
NE	0.001	0.092	0.092	0.046	0.000	0.000	0.000	0.000	0.000		0.230
ENE	0.005	0.459	0.550	0.092	0.000	0.000	0.000	0.000	0.000		1.106
E	0.007	0.550	0.780	0.321	0.000	0.000	0.000	0.000	0.000		1.658
ESE	0.005	0.138	0.780	0.092	0.000	0.000	0.000	0.000	0.000		1.014
SE	0.004	0.275	0.550	0.000	0.000	0.000	0.000	0.000	0.000		0.830
SSE	0.006	0.413	0.780	0.046	0.000	0.000	0.000	0.000	0.000		1.244
S	0.004	0.138	0.688	0.367	0.046	0.000	0.000	0.000	0.000		1.243
SSW	0.004	0.229	0.505	0.138	0.046	0.000	0.000	0.000	0.000		0.921
SW	0.001	0.092	0.183	0.000	0.000	0.000	0.000	0.000	0.000		0.277
WSW	0.001	0.183	0.092	0.000	0.000	0.000	0.000	0.000	0.000		0.277
W	0.002	0.092	0.367	0.000	0.000	0.000	0.000	0.000	0.000		0.461
WNW	0.001	0.092	0.046	0.000	0.000	0.000	0.000	0.000	0.000		0.138
NW	0.000	0.046	0.046	0.000	0.000	0.046	0.000	0.000	0.000		0.138
NNW	0.001	0.046	0.229	0.092	0.092	0.000	0.000	0.000	0.000		0.460
SUBTOTAL	0.046	3.119	6.147	1.697	0.229	0.046	0.000	0.000	0.000		11.284

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2180
TOTAL HOURS OF STABILITY CLASS F	246
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	246
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2180
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: 2014/07/30

MEAN WIND SPEED = 2.32

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED (MPH)						
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	TOTAL
N	0.009	0.275	0.321	0.092	0.000	0.000	0.000	0.000	0.000	0.697
NNE	0.011	0.596	0.138	0.046	0.000	0.000	0.000	0.000	0.000	0.791
NE	0.007	0.275	0.183	0.046	0.000	0.000	0.000	0.000	0.000	0.511
ENE	0.009	0.183	0.413	0.046	0.000	0.000	0.000	0.000	0.000	0.651
E	0.006	0.275	0.092	0.092	0.000	0.000	0.000	0.000	0.000	0.464
ESE	0.006	0.229	0.138	0.000	0.000	0.000	0.000	0.000	0.000	0.372
SE	0.005	0.275	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.326
SSE	0.013	0.642	0.229	0.000	0.000	0.000	0.000	0.000	0.000	0.885
S	0.008	0.046	0.459	0.046	0.000	0.000	0.000	0.000	0.000	0.558
SSW	0.002	0.138	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.140
SW	0.001	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047
WSW	0.001	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.093
W	0.001	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047
WNW	0.001	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047
NW	0.005	0.321	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.326
NNW	0.009	0.275	0.321	0.000	0.000	0.000	0.000	0.000	0.000	0.605
SUBTOTAL	0.092	3.716	2.385	0.367	0.000	0.000	0.000	0.000	0.000	6.560

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2180
TOTAL HOURS OF STABILITY CLASS G	143
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	143
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2180
TOTAL HOURS CALM	2

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: 2014/07/30

MEAN WIND SPEED = 1.61

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

BROWNS FERRY NUCLEAR PLANT

2014 METEOROLOGICAL DATA

TABLE 7C

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR GROUND LEVEL RELEASES

THIRD QUARTER

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - SEP 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.000	0.094	0.897	0.000	0.000	0.000	0.992
NNE	0.000	0.000	0.000	0.000	0.000	0.614	0.000	0.000	0.000	0.614
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	0.047	0.000	0.000	0.000	0.000	0.047
E	0.000	0.000	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.094
ESE	0.000	0.000	0.047	0.283	0.047	0.000	0.000	0.000	0.000	0.378
SE	0.000	0.000	0.283	1.322	0.000	0.000	0.000	0.000	0.000	1.605
SSE	0.000	0.000	0.992	0.708	0.000	0.000	0.000	0.000	0.000	1.700
S	0.000	0.000	0.992	0.378	0.000	0.000	0.000	0.000	0.000	1.369
SSW	0.000	0.000	0.189	0.047	0.000	0.000	0.000	0.000	0.000	0.236
SW	0.000	0.000	0.094	0.047	0.000	0.000	0.000	0.000	0.000	0.142
WSW	0.000	0.000	0.000	0.189	0.000	0.000	0.000	0.000	0.000	0.189
W	0.000	0.000	0.000	0.378	0.425	0.236	0.000	0.000	0.000	1.039
WNW	0.000	0.000	0.000	0.000	0.094	0.378	0.000	0.000	0.000	0.472
NW	0.000	0.000	0.000	0.000	0.000	0.236	0.236	0.000	0.000	0.472
NNW	0.000	0.000	0.000	0.000	0.000	0.803	0.047	0.000	0.000	0.850
SUBTOTAL	0.000	0.000	2.597	3.447	0.708	3.163	0.283	0.000	0.000	10.198

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2118
TOTAL HOURS OF STABILITY CLASS A	216
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	216
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2118
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: 2014/10/28

MEAN WIND SPEED = 5.97

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - SEP 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.000	0.378	0.283	0.000	0.000	0.000	0.661
NNE	0.000	0.000	0.000	0.000	0.000	0.142	0.047	0.000	0.000	0.189
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	0.094	0.047	0.000	0.000	0.000	0.000	0.142
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	0.236	0.094	0.000	0.000	0.000	0.000	0.331
SE	0.000	0.000	0.283	0.519	0.000	0.000	0.000	0.000	0.000	0.803
SSE	0.000	0.000	0.567	0.094	0.000	0.000	0.000	0.000	0.000	0.661
S	0.000	0.000	0.189	0.142	0.000	0.000	0.000	0.000	0.000	0.331
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	0.047	0.142	0.000	0.000	0.000	0.000	0.000	0.189
WSW	0.000	0.000	0.094	0.567	0.094	0.000	0.000	0.000	0.000	0.755
W	0.000	0.000	0.000	0.472	0.378	0.094	0.000	0.000	0.000	0.944
WNW	0.000	0.000	0.000	0.189	0.519	0.425	0.000	0.000	0.000	1.133
NW	0.000	0.000	0.000	0.000	0.189	0.189	0.000	0.000	0.000	0.378
NNW	0.000	0.000	0.000	0.000	0.047	0.283	0.000	0.000	0.000	0.331
SUBTOTAL	0.000	0.000	1.228	2.550	1.794	1.416	0.047	0.000	0.000	7.035

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2118
TOTAL HOURS OF STABILITY CLASS B	149
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	149
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2118
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: 2014/10/28

MEAN WIND SPEED = 5.50

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - SEP 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.142	0.142	0.094	0.000	0.000	0.000	0.378
NNE	0.000	0.000	0.000	0.142	0.142	0.047	0.000	0.000	0.000	0.331
NE	0.000	0.000	0.000	0.142	0.094	0.142	0.000	0.000	0.000	0.378
ENE	0.000	0.000	0.047	0.047	0.047	0.000	0.000	0.000	0.000	0.142
E	0.000	0.000	0.047	0.142	0.000	0.000	0.000	0.000	0.000	0.189
ESE	0.000	0.000	0.047	0.283	0.094	0.000	0.000	0.000	0.000	0.425
SE	0.000	0.000	0.519	0.094	0.000	0.000	0.000	0.000	0.000	0.614
SSE	0.000	0.000	0.283	0.047	0.000	0.000	0.000	0.000	0.000	0.331
S	0.000	0.000	0.378	0.000	0.000	0.000	0.000	0.000	0.000	0.378
SSW	0.000	0.000	0.283	0.047	0.000	0.000	0.000	0.000	0.000	0.331
SW	0.000	0.000	0.378	0.094	0.000	0.000	0.000	0.000	0.000	0.472
WSW	0.000	0.000	0.000	0.189	0.142	0.000	0.000	0.000	0.000	0.331
W	0.000	0.000	0.000	0.897	0.425	0.047	0.000	0.000	0.000	1.369
WNW	0.000	0.000	0.000	0.142	0.331	0.236	0.000	0.000	0.000	0.708
NW	0.000	0.000	0.000	0.047	0.614	0.283	0.047	0.000	0.000	0.992
NNW	0.000	0.000	0.000	0.094	0.236	0.094	0.000	0.000	0.000	0.425
SUBTOTAL	0.000	0.000	1.983	2.550	2.266	0.944	0.047	0.000	0.000	7.790

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2118
TOTAL HOURS OF STABILITY CLASS C	165
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	165
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2118
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: 2014/10/28

MEAN WIND SPEED = 5.12

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED (MPH)						
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	TOTAL
N	0.000	0.000	0.331	0.897	0.897	0.236	0.000	0.000	0.000	2.361
NNE	0.000	0.000	0.425	0.897	0.897	0.519	0.000	0.000	0.000	2.738
NE	0.000	0.000	0.331	0.567	0.331	0.283	0.047	0.000	0.000	1.558
ENE	0.000	0.047	0.142	0.425	0.142	0.094	0.000	0.000	0.000	0.850
E	0.000	0.000	0.425	0.472	0.047	0.000	0.000	0.000	0.000	0.944
ESE	0.000	0.047	0.614	0.519	0.236	0.000	0.000	0.000	0.000	1.416
SE	0.000	0.094	1.180	0.047	0.000	0.000	0.000	0.000	0.000	1.322
SSE	0.000	0.000	0.992	0.000	0.000	0.000	0.000	0.000	0.000	0.992
S	0.000	0.094	1.039	0.047	0.000	0.000	0.000	0.000	0.000	1.180
SSW	0.000	0.000	0.850	0.236	0.000	0.000	0.000	0.000	0.000	1.086
SW	0.000	0.000	0.944	0.094	0.000	0.000	0.000	0.000	0.000	1.039
WSW	0.000	0.000	0.992	1.322	0.283	0.047	0.000	0.000	0.000	2.644
W	0.000	0.047	0.614	1.416	0.708	0.000	0.000	0.000	0.000	2.786
WNW	0.000	0.000	0.094	0.708	0.519	0.567	0.047	0.000	0.000	1.936
NW	0.000	0.000	0.331	0.236	0.283	0.236	0.000	0.000	0.000	1.086
NNW	0.000	0.000	0.331	0.850	0.378	0.189	0.000	0.000	0.000	1.747
SUBTOTAL	0.000	0.331	9.632	8.735	4.721	2.172	0.094	0.000	0.000	25.685

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2118
TOTAL HOURS OF STABILITY CLASS D	544
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	544
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2118
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: 2014/10/28

MEAN WIND SPEED = 4.44

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - SEP 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.047	1.464	1.275	0.331	0.000	0.000	0.000	0.000	3.116
NNE	0.000	0.142	0.661	2.077	0.519	0.142	0.000	0.000	0.000	3.541
NE	0.000	0.236	0.519	0.567	0.236	0.189	0.000	0.000	0.000	1.747
ENE	0.000	0.094	1.464	0.425	0.236	0.094	0.000	0.000	0.000	2.314
E	0.000	0.000	2.314	1.133	0.189	0.000	0.000	0.000	0.000	3.636
ESE	0.000	0.331	0.755	0.378	0.189	0.094	0.000	0.000	0.000	1.747
SE	0.000	0.094	0.567	0.047	0.000	0.000	0.000	0.000	0.000	0.708
SSE	0.000	0.283	0.425	0.047	0.000	0.000	0.000	0.000	0.000	0.755
S	0.000	0.142	0.803	0.000	0.000	0.000	0.000	0.000	0.000	0.944
SSW	0.000	0.094	0.425	0.094	0.000	0.000	0.000	0.000	0.000	0.614
SW	0.000	0.142	0.519	0.094	0.000	0.000	0.000	0.000	0.000	0.755
WSW	0.000	0.000	0.803	0.189	0.000	0.000	0.000	0.000	0.000	0.992
W	0.000	0.094	0.661	0.283	0.000	0.047	0.000	0.000	0.000	1.086
WNW	0.000	0.094	0.236	0.094	0.519	0.047	0.000	0.000	0.000	0.992
NW	0.000	0.000	0.047	0.283	0.283	0.142	0.000	0.000	0.000	0.755
NNW	0.000	0.000	0.992	0.803	0.472	0.236	0.000	0.000	0.000	2.502
SUBTOTAL	0.000	1.794	12.653	7.790	2.975	0.992	0.000	0.000	0.000	26.204

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2118
TOTAL HOURS OF STABILITY CLASS E	555
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	555
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2118
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: 2014/10/28

MEAN WIND SPEED = 3.64

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - SEP 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.142	1.936	0.944	0.000	0.000	0.000	0.000	0.000	3.022
NNE	0.000	0.094	1.039	0.803	0.283	0.047	0.000	0.000	0.000	2.266
NE	0.000	0.047	0.472	0.425	0.142	0.519	0.000	0.000	0.000	1.605
ENE	0.000	0.047	0.850	0.378	0.047	0.000	0.000	0.000	0.000	1.322
E	0.000	0.142	1.275	0.567	0.000	0.000	0.000	0.000	0.000	1.983
ESE	0.000	0.094	0.378	0.094	0.000	0.000	0.000	0.000	0.000	0.567
SE	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047
SSE	0.000	0.142	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.236
S	0.000	0.000	0.331	0.000	0.000	0.000	0.000	0.000	0.000	0.331
SSW	0.000	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.094
SW	0.000	0.094	0.142	0.000	0.000	0.000	0.000	0.000	0.000	0.236
WSW	0.000	0.094	0.236	0.094	0.000	0.000	0.000	0.000	0.000	0.425
W	0.000	0.189	0.000	0.047	0.047	0.000	0.000	0.000	0.000	0.283
WNW	0.000	0.047	0.094	0.000	0.000	0.047	0.000	0.000	0.000	0.189
NW	0.000	0.047	0.283	0.047	0.000	0.000	0.000	0.000	0.000	0.378
NNW	0.000	0.142	0.378	0.519	0.094	0.047	0.000	0.000	0.000	1.180
SUBTOTAL	0.000	1.369	7.602	3.919	0.614	0.661	0.000	0.000	0.000	14.164

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2118
TOTAL HOURS OF STABILITY CLASS F	300
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	300
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2118
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: 2014/10/28

MEAN WIND SPEED = 3.27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - SEP 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.019	1.039	1.653	0.614	0.000	0.000	0.000	0.000	0.000	3.324
NNE	0.009	0.425	0.897	0.661	0.047	0.047	0.000	0.000	0.000	2.087
NE	0.005	0.047	0.661	0.142	0.000	0.236	0.000	0.000	0.000	1.091
ENE	0.003	0.047	0.378	0.142	0.000	0.000	0.000	0.000	0.000	0.570
E	0.001	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.095
ESE	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
SE	0.001	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.095
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.048
SSW	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.048
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048
W	0.001	0.000	0.094	0.047	0.000	0.000	0.000	0.000	0.000	0.142
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.001	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.095
NNW	0.008	0.614	0.567	0.047	0.000	0.000	0.000	0.000	0.000	1.236
SUBTOTAL	0.047	2.314	4.533	1.700	0.047	0.283	0.000	0.000	0.000	8.924

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2118
TOTAL HOURS OF STABILITY CLASS G	189
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	189
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2118
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: 2014/10/28

MEAN WIND SPEED = 2.62

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

BROWNS FERRY NUCLEAR PLANT

2014 METEOROLOGICAL DATA

TABLE 7D

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR GROUND LEVEL RELEASES

FOURTH QUARTER

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - DEC 31, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
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	0.000	0.000	0.000	0.453	0.000	0.000	0.000	0.453
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	0.045	0.000	0.000	0.000	0.000	0.000	0.045
SE	0.000	0.000	0.091	0.181	0.091	0.000	0.000	0.000	0.000	0.363
SSE	0.000	0.000	0.408	0.317	0.000	0.000	0.000	0.000	0.000	0.725
S	0.000	0.000	0.317	0.499	0.000	0.000	0.000	0.000	0.000	0.816
SSW	0.000	0.000	0.045	0.136	0.000	0.000	0.000	0.000	0.000	0.181
SW	0.000	0.000	0.091	0.227	0.000	0.000	0.000	0.000	0.000	0.317
WSW	0.000	0.000	0.000	0.136	0.136	0.045	0.000	0.000	0.000	0.317
W	0.000	0.000	0.000	0.000	0.000	0.227	0.000	0.000	0.000	0.227
WNW	0.000	0.000	0.000	0.045	0.000	0.589	0.453	0.000	0.000	1.088
NW	0.000	0.000	0.000	0.000	0.000	0.725	0.091	0.000	0.000	0.816
NNW	0.000	0.000	0.000	0.000	0.000	0.317	0.181	0.000	0.000	0.499
SUBTOTAL	0.000	0.000	0.952	1.587	0.227	2.584	0.725	0.000	0.000	6.074

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2206
TOTAL HOURS OF STABILITY CLASS A	134
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	134
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2206
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: 2015/01/09

MEAN WIND SPEED = 7.59

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - DEC 31, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.000	0.136	0.272	0.000	0.000	0.000	0.408
NNE	0.000	0.000	0.000	0.000	0.181	0.499	0.000	0.000	0.000	0.680
NE	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.045
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.227	0.091	0.091	0.000	0.000	0.000	0.000	0.408
SSE	0.000	0.000	0.181	0.181	0.000	0.000	0.000	0.000	0.000	0.363
S	0.000	0.000	0.045	0.136	0.000	0.000	0.000	0.000	0.000	0.181
SSW	0.000	0.000	0.091	0.045	0.000	0.000	0.000	0.000	0.000	0.136
SW	0.000	0.000	0.136	0.136	0.000	0.000	0.000	0.000	0.000	0.272
WSW	0.000	0.000	0.000	0.181	0.091	0.045	0.000	0.000	0.000	0.317
W	0.000	0.000	0.000	0.091	0.000	0.091	0.000	0.000	0.000	0.181
WNW	0.000	0.000	0.000	0.045	0.363	0.091	0.045	0.000	0.000	0.544
NW	0.000	0.000	0.000	0.000	0.453	0.317	0.091	0.000	0.000	0.861
NNW	0.000	0.000	0.000	0.000	0.045	0.136	0.000	0.000	0.000	0.181
SUBTOTAL	0.000	0.000	0.680	0.907	1.360	1.496	0.136	0.000	0.000	4.578

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2206
TOTAL HOURS OF STABILITY CLASS B	101
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	101
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2206
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: 2015/01/09

MEAN WIND SPEED = 6.61

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - DEC 31, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.272	0.272	0.136	0.000	0.000	0.000	0.680
NNE	0.000	0.000	0.045	0.227	0.136	0.136	0.000	0.000	0.000	0.544
NE	0.000	0.000	0.045	0.045	0.091	0.045	0.000	0.000	0.000	0.227
ENE	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.045
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.136	0.136	0.000	0.000	0.000	0.000	0.000	0.272
SSE	0.000	0.000	0.272	0.045	0.000	0.000	0.000	0.000	0.000	0.317
S	0.000	0.000	0.045	0.136	0.000	0.000	0.000	0.000	0.000	0.181
SSW	0.000	0.000	0.045	0.136	0.000	0.000	0.000	0.000	0.000	0.181
SW	0.000	0.000	0.136	0.045	0.000	0.000	0.000	0.000	0.000	0.181
WSW	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.045
W	0.000	0.000	0.091	0.045	0.181	0.136	0.000	0.000	0.000	0.453
WNW	0.000	0.000	0.000	0.136	0.136	0.000	0.045	0.000	0.000	0.317
NW	0.000	0.000	0.000	0.000	0.181	0.136	0.136	0.000	0.000	0.453
NNW	0.000	0.000	0.000	0.000	0.136	0.363	0.000	0.000	0.000	0.499
SUBTOTAL	0.000	0.000	0.816	1.269	1.179	0.952	0.181	0.000	0.000	4.397

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2206
TOTAL HOURS OF STABILITY CLASS C	97
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	97
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2206
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: 2015/01/09

MEAN WIND SPEED = 6.29

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED (MPH)						
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	TOTAL
N	0.000	0.045	0.499	1.133	1.405	1.088	0.181	0.000	0.000	4.352
NNE	0.000	0.000	0.408	1.133	0.907	0.771	0.000	0.000	0.000	3.218
NE	0.000	0.000	0.317	0.408	0.453	0.181	0.045	0.000	0.000	1.405
ENE	0.000	0.000	0.227	0.363	0.091	0.000	0.000	0.000	0.000	0.680
E	0.000	0.045	0.181	0.091	0.000	0.000	0.000	0.000	0.000	0.317
ESE	0.000	0.000	0.317	0.725	0.771	0.136	0.000	0.000	0.000	1.949
SE	0.000	0.045	0.771	0.499	0.227	0.227	0.000	0.000	0.000	1.768
SSE	0.000	0.045	0.997	0.317	0.000	0.000	0.000	0.000	0.000	1.360
S	0.000	0.000	1.315	0.725	0.227	0.000	0.000	0.000	0.000	2.267
SSW	0.000	0.045	0.861	0.408	0.091	0.000	0.000	0.000	0.000	1.405
SW	0.000	0.045	0.680	0.045	0.045	0.000	0.000	0.000	0.000	0.816
WSW	0.000	0.000	0.680	0.635	0.272	0.091	0.000	0.000	0.000	1.677
W	0.000	0.000	0.453	0.680	0.861	0.453	0.000	0.000	0.000	2.448
WNW	0.000	0.045	0.181	0.136	0.181	0.544	0.136	0.000	0.000	1.224
NW	0.000	0.000	0.181	0.725	0.589	0.816	0.997	0.000	0.000	3.309
NNW	0.000	0.000	0.317	0.589	0.771	1.541	0.499	0.000	0.000	3.717
SUBTOTAL	0.000	0.317	8.386	8.613	6.890	5.848	1.859	0.000	0.000	31.913

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2206
TOTAL HOURS OF STABILITY CLASS D	704
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	704
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2206
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: 2015/01/09

MEAN WIND SPEED = 5.81

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT **UNITS 1, 2, AND 3** **2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED (MPH)						
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	TOTAL
N	0.000	0.000	0.997	1.133	0.816	0.181	0.000	0.000	0.000	3.128
NNE	0.000	0.045	0.861	1.179	0.589	0.227	0.000	0.000	0.000	2.901
NE	0.000	0.136	0.589	0.408	0.181	0.045	0.000	0.000	0.000	1.360
ENE	0.000	0.136	0.589	0.227	0.136	0.045	0.000	0.000	0.000	1.133
E	0.000	0.227	0.317	0.181	0.000	0.045	0.000	0.000	0.000	0.771
ESE	0.000	0.091	1.451	1.451	0.453	0.091	0.000	0.000	0.000	3.536
SE	0.000	0.272	0.997	0.997	0.408	0.045	0.000	0.000	0.000	2.720
SSE	0.000	0.589	2.176	0.272	0.000	0.000	0.000	0.000	0.000	3.037
S	0.000	0.363	1.541	0.725	0.861	0.045	0.000	0.000	0.000	3.536
SSW	0.000	0.227	0.816	0.181	0.000	0.000	0.000	0.000	0.000	1.224
SW	0.000	0.000	0.317	0.091	0.000	0.000	0.000	0.000	0.000	0.408
WSW	0.000	0.136	0.771	0.181	0.181	0.000	0.000	0.000	0.000	1.269
W	0.000	0.000	1.043	0.227	0.181	0.000	0.000	0.000	0.000	1.451
WNW	0.000	0.000	0.227	0.181	0.181	0.317	0.000	0.000	0.000	0.907
NW	0.000	0.136	0.363	0.363	0.091	0.045	0.045	0.000	0.000	1.043
NNW	0.000	0.045	0.816	1.088	0.635	0.317	0.000	0.000	0.000	2.901
SUBTOTAL	0.000	2.403	13.871	8.885	4.714	1.405	0.045	0.000	0.000	31.324

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2206
TOTAL HOURS OF STABILITY CLASS E	691
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	691
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2206
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: 2015/01/09

MEAN WIND SPEED = 3.77

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED (MPH)						
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	TOTAL
N	0.000	0.136	1.451	0.771	0.000	0.000	0.000	0.000	0.000	2.357
NNE	0.000	0.091	0.635	0.816	0.136	0.045	0.000	0.000	0.000	1.723
NE	0.000	0.045	0.227	0.000	0.000	0.000	0.000	0.000	0.000	0.272
ENE	0.000	0.045	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.136
E	0.000	0.227	0.952	0.091	0.000	0.000	0.000	0.000	0.000	1.269
ESE	0.000	0.227	0.680	0.091	0.000	0.000	0.000	0.000	0.000	0.997
SE	0.000	0.317	1.043	0.181	0.045	0.000	0.000	0.000	0.000	1.587
SSE	0.000	0.363	1.133	0.136	0.000	0.000	0.000	0.000	0.000	1.632
S	0.000	0.045	0.136	0.680	0.136	0.045	0.000	0.000	0.000	1.043
SSW	0.000	0.136	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.181
SW	0.000	0.045	0.181	0.000	0.000	0.000	0.000	0.000	0.000	0.227
WSW	0.000	0.000	0.000	0.045	0.091	0.000	0.000	0.000	0.000	0.136
W	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.045
WNW	0.000	0.000	0.045	0.000	0.000	0.045	0.000	0.000	0.000	0.091
NW	0.000	0.045	0.136	0.000	0.000	0.045	0.045	0.000	0.000	0.272
NNW	0.000	0.045	0.680	0.272	0.045	0.000	0.000	0.000	0.000	1.043
SUBTOTAL	0.000	1.768	7.434	3.083	0.499	0.181	0.045	0.000	0.000	13.010

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2206
TOTAL HOURS OF STABILITY CLASS F	287
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	287
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2206
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: 2015/01/09

MEAN WIND SPEED = 2.98

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - DEC 31, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.023	0.680	1.315	0.272	0.000	0.000	0.000	0.000	0.000	2.290
NNE	0.016	0.635	0.725	0.272	0.000	0.000	0.000	0.000	0.000	1.648
NE	0.009	0.453	0.317	0.000	0.000	0.000	0.000	0.000	0.000	0.780
ENE	0.011	0.408	0.499	0.091	0.000	0.000	0.000	0.000	0.000	1.008
E	0.005	0.091	0.317	0.000	0.000	0.000	0.000	0.000	0.000	0.413
ESE	0.004	0.136	0.227	0.045	0.000	0.000	0.000	0.000	0.000	0.412
SE	0.005	0.181	0.227	0.000	0.000	0.000	0.000	0.000	0.000	0.413
SSE	0.007	0.272	0.363	0.000	0.000	0.000	0.000	0.000	0.000	0.642
S	0.002	0.091	0.045	0.045	0.091	0.000	0.000	0.000	0.000	0.274
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	0.001	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.092
NW	0.002	0.045	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.138
NNW	0.006	0.136	0.363	0.091	0.000	0.000	0.000	0.000	0.000	0.595
SUBTOTAL	0.091	3.218	4.488	0.816	0.091	0.000	0.000	0.000	0.000	8.704

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2206
TOTAL HOURS OF STABILITY CLASS G	192
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	192
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2206
TOTAL HOURS CALM	2

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: 2015/01/09

MEAN WIND SPEED = 2.01

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

BROWNS FERRY NUCLEAR PLANT

2014 METEOROLOGICAL DATA

TABLE 8A

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR SPLIT LEVEL RELEASES

(GROUND LEVEL RELEASE MODE AND ELEVATED RELEASE MODE)

FIRST QUARTER

BROWNS FERRY NUCLEAR PLANT
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2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - MAR 31, 2014

WIND DIRECTION	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)		7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
				3.5-5.4	5.5-7.4					
N	0.000	0.000	0.000	0.000	0.009	0.079	0.041	0.000	0.000	0.129
NNE	0.000	0.000	0.000	0.000	0.001	0.070	0.000	0.000	0.000	0.071
NE	0.000	0.000	0.000	0.000	0.003	0.007	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	0.012	0.000	0.000	0.000	0.000	0.024
SE	0.000	0.000	0.011	0.122	0.029	0.000	0.000	0.000	0.000	0.161
SSE	0.000	0.000	0.025	0.083	0.000	0.000	0.000	0.000	0.000	0.109
S	0.000	0.000	0.000	0.066	0.063	0.020	0.000	0.000	0.000	0.148
SSW	0.000	0.000	0.006	0.015	0.044	0.010	0.000	0.000	0.000	0.075
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	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.030	0.010	0.000	0.000	0.040
WNW	0.000	0.000	0.000	0.000	0.000	0.005	0.009	0.000	0.000	0.015
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.137	0.000	0.197
NNW	0.000	0.000	0.000	0.000	0.000	0.026	0.000	0.000	0.000	0.026
SUBTOTAL	0.000	0.000	0.042	0.306	0.161	0.246	0.120	0.137	0.000	1.011

TOTAL HOURS OF VALID OBSERVATIONS	2137.000
TOTAL HOURS OF GROUND LEVEL RELEASE	293.310
TOTAL HOURS OF STABILITY CLASS A	43.450
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A	21.610

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: 2014/05/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - MAR 31, 2014

WIND DIRECTION	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)		7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
				3.5-5.4	5.5-7.4					
N	0.000	0.000	0.000	0.000	0.003	0.017	0.000	0.000	0.000	0.020
NNE	0.000	0.000	0.000	0.001	0.003	0.007	0.000	0.000	0.000	0.012
NE	0.000	0.000	0.000	0.000	0.008	0.013	0.000	0.000	0.000	0.021
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	0.005	0.029	0.000	0.000	0.000	0.000	0.000	0.034
SSE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.005
S	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.009
SSW	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.006
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.002	0.008	0.000	0.000	0.000	0.000	0.010
W	0.000	0.000	0.000	0.001	0.001	0.008	0.000	0.000	0.000	0.011
WNW	0.000	0.000	0.000	0.000	0.000	0.023	0.033	0.046	0.000	0.102
NW	0.000	0.000	0.000	0.000	0.000	0.006	0.075	0.000	0.000	0.081
NNW	0.000	0.000	0.000	0.000	0.004	0.058	0.031	0.000	0.000	0.093
SUBTOTAL	0.000	0.000	0.005	0.054	0.036	0.131	0.139	0.046	0.000	0.411

TOTAL HOURS OF VALID OBSERVATIONS	2137.000
TOTAL HOURS OF GROUND LEVEL RELEASE	293.310
TOTAL HOURS OF STABILITY CLASS B	33.950
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B	8.790

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: 2014/05/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - MAR 31, 2014

WIND DIRECTION	CALM	0.6-1.4	1.5-3.4	WIND SPEED (MPH)		7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
				3.5-5.4	5.5-7.4					
N	0.000	0.000	0.000	0.001	0.014	0.060	0.029	0.000	0.000	0.104
NNE	0.000	0.000	0.000	0.000	0.040	0.029	0.000	0.000	0.000	0.070
NE	0.000	0.000	0.000	0.000	0.009	0.005	0.000	0.000	0.000	0.015
ENE	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.002
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	0.007	0.000	0.000	0.000	0.000	0.000	0.007
SE	0.000	0.000	0.002	0.017	0.008	0.000	0.000	0.000	0.000	0.028
SSE	0.000	0.000	0.007	0.000	0.042	0.000	0.000	0.000	0.000	0.049
S	0.000	0.000	0.009	0.015	0.000	0.000	0.000	0.000	0.000	0.025
SSW	0.000	0.000	0.000	0.007	0.018	0.000	0.000	0.000	0.000	0.025
SW	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.003
WSW	0.000	0.000	0.000	0.003	0.006	0.000	0.000	0.000	0.000	0.008
W	0.000	0.000	0.000	0.004	0.015	0.013	0.000	0.000	0.000	0.031
WNW	0.000	0.000	0.000	0.000	0.016	0.034	0.064	0.045	0.000	0.160
NW	0.000	0.000	0.000	0.000	0.016	0.007	0.124	0.036	0.000	0.184
NNW	0.000	0.000	0.000	0.002	0.004	0.016	0.029	0.000	0.000	0.051
SUBTOTAL	0.000	0.000	0.022	0.057	0.189	0.166	0.246	0.082	0.000	0.761

TOTAL HOURS OF VALID OBSERVATIONS	2137.000
TOTAL HOURS OF GROUND LEVEL RELEASE	293.310
TOTAL HOURS OF STABILITY CLASS C	91.420
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C	16.260

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: 2014/05/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - MAR 31, 2014

WIND DIRECTION	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)		7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
				3.5-5.4	5.5-7.4					
N	0.000	0.000	0.000	0.043	0.215	0.571	0.049	0.000	0.000	0.878
NNE	0.000	0.000	0.000	0.035	0.194	0.255	0.000	0.000	0.000	0.483
NE	0.000	0.000	0.000	0.016	0.113	0.040	0.000	0.000	0.000	0.169
ENE	0.000	0.000	0.000	0.007	0.006	0.000	0.000	0.000	0.000	0.013
E	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.004
ESE	0.000	0.000	0.004	0.055	0.024	0.000	0.000	0.000	0.000	0.083
SE	0.000	0.000	0.034	0.102	0.026	0.000	0.000	0.000	0.000	0.163
SSE	0.000	0.000	0.090	0.109	0.000	0.000	0.000	0.000	0.000	0.200
S	0.000	0.000	0.073	0.134	0.089	0.000	0.000	0.000	0.000	0.297
SSW	0.000	0.000	0.009	0.057	0.026	0.000	0.000	0.000	0.000	0.092
SW	0.000	0.000	0.003	0.013	0.000	0.000	0.000	0.000	0.000	0.016
WSW	0.000	0.000	0.003	0.011	0.007	0.008	0.000	0.000	0.000	0.029
W	0.000	0.000	0.000	0.025	0.027	0.066	0.000	0.000	0.000	0.118
WNW	0.000	0.000	0.000	0.004	0.034	0.119	0.047	0.127	0.000	0.332
NW	0.000	0.000	0.000	0.007	0.043	0.278	0.780	0.572	0.000	1.679
NNW	0.000	0.000	0.000	0.016	0.075	0.454	0.219	0.000	0.000	0.766
SUBTOTAL	0.000	0.000	0.217	0.639	0.879	1.792	1.095	0.699	0.000	5.322

TOTAL HOURS OF VALID OBSERVATIONS	2137.000
TOTAL HOURS OF GROUND LEVEL RELEASE	293.310
TOTAL HOURS OF STABILITY CLASS D	951.960
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D	113.730

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: 2014/05/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - MAR 31, 2014

WIND DIRECTION	CALM	0.6-1.4	1.5-3.4	WIND SPEED (MPH)		7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
				3.5-5.4	5.5-7.4					
N	0.000	0.000	0.016	0.073	0.064	0.034	0.013	0.000	0.000	0.200
NNE	0.000	0.000	0.007	0.077	0.108	0.032	0.000	0.000	0.000	0.225
NE	0.000	0.000	0.007	0.025	0.020	0.016	0.000	0.000	0.000	0.067
ENE	0.000	0.000	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.015
E	0.000	0.000	0.051	0.046	0.000	0.000	0.000	0.000	0.000	0.097
ESE	0.000	0.000	0.032	0.117	0.023	0.029	0.000	0.000	0.000	0.201
SE	0.000	0.000	0.103	0.197	0.000	0.000	0.000	0.000	0.000	0.300
SSE	0.000	0.007	0.287	0.074	0.000	0.000	0.000	0.000	0.000	0.368
S	0.000	0.000	0.125	0.273	0.224	0.150	0.000	0.000	0.000	0.773
SSW	0.000	0.001	0.052	0.062	0.054	0.009	0.000	0.000	0.000	0.179
SW	0.000	0.000	0.009	0.020	0.000	0.012	0.000	0.000	0.000	0.041
WSW	0.000	0.000	0.022	0.036	0.008	0.000	0.000	0.000	0.000	0.067
W	0.000	0.000	0.022	0.053	0.025	0.031	0.000	0.000	0.000	0.131
WNW	0.000	0.000	0.006	0.010	0.064	0.033	0.018	0.000	0.000	0.130
NW	0.000	0.000	0.003	0.037	0.100	0.163	0.064	0.029	0.000	0.395
NNW	0.000	0.000	0.001	0.089	0.113	0.075	0.029	0.000	0.000	0.307
SUBTOTAL	0.000	0.008	0.758	1.190	0.804	0.585	0.123	0.029	0.000	3.496

TOTAL HOURS OF VALID OBSERVATIONS	2137.000
TOTAL HOURS OF GROUND LEVEL RELEASE	293.310
TOTAL HOURS OF STABILITY CLASS E	709.450
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E	74.700

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: 2014/05/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - MAR 31, 2014

WIND DIRECTION	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)		7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
				3.5-5.4	5.5-7.4					
N	0.000	0.000	0.025	0.033	0.017	0.000	0.000	0.000	0.000	0.075
NNE	0.000	0.000	0.012	0.036	0.023	0.000	0.000	0.000	0.000	0.071
NE	0.000	0.000	0.002	0.005	0.000	0.000	0.000	0.000	0.000	0.007
ENE	0.000	0.002	0.002	0.008	0.000	0.000	0.000	0.000	0.000	0.013
E	0.000	0.005	0.043	0.022	0.000	0.000	0.000	0.000	0.000	0.070
ESE	0.000	0.006	0.050	0.033	0.000	0.000	0.000	0.000	0.000	0.088
SE	0.000	0.029	0.166	0.018	0.000	0.000	0.000	0.000	0.000	0.212
SSE	0.000	0.007	0.240	0.080	0.000	0.000	0.000	0.000	0.000	0.326
S	0.000	0.005	0.116	0.234	0.159	0.094	0.000	0.000	0.000	0.607
SSW	0.000	0.004	0.041	0.039	0.014	0.000	0.000	0.000	0.000	0.098
SW	0.000	0.000	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.036
WSW	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.009
W	0.000	0.000	0.007	0.000	0.008	0.000	0.000	0.000	0.000	0.015
WNW	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002
NW	0.000	0.000	0.004	0.017	0.007	0.000	0.000	0.000	0.000	0.028
NNW	0.000	0.000	0.015	0.020	0.015	0.009	0.000	0.000	0.000	0.060
SUBTOTAL	0.000	0.057	0.769	0.545	0.243	0.103	0.000	0.000	0.000	1.717

TOTAL HOURS OF VALID OBSERVATIONS	2137.000
TOTAL HOURS OF GROUND LEVEL RELEASE	293.310
TOTAL HOURS OF STABILITY CLASS F	247.420
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F	36.690

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: 2014/05/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - MAR 31, 2014

WIND DIRECTION	CALM	0.6-1.4	1.5-3.4	WIND SPEED (MPH)		7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
				3.5-5.4	5.5-7.4					
N	0.000	0.000	0.013	0.013	0.000	0.000	0.000	0.000	0.000	0.025
NNE	0.000	0.000	0.003	0.014	0.000	0.000	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	0.004	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.011
E	0.000	0.008	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.020
ESE	0.000	0.017	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.044
SE	0.000	0.037	0.059	0.000	0.000	0.000	0.000	0.000	0.000	0.096
SSE	0.000	0.032	0.224	0.151	0.044	0.000	0.000	0.000	0.000	0.452
S	0.000	0.008	0.077	0.192	0.039	0.000	0.000	0.000	0.000	0.317
SSW	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.008
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.004	0.000	0.008	0.000	0.000	0.000	0.000	0.013
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.004
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.107	0.424	0.384	0.092	0.000	0.000	0.000	0.000	1.007

TOTAL HOURS OF VALID OBSERVATIONS	2137.000
TOTAL HOURS OF GROUND LEVEL RELEASE	293.310
TOTAL HOURS OF STABILITY CLASS G	59.350
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G	21.530

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: 2014/05/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - MAR 31, 2014

WIND DIRECTION	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)		7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
				3.5-5.4	5.5-7.4					
N	0.000	0.000	0.000	0.000	0.000	0.000	0.113	0.000	0.000	0.113
NNE	0.000	0.000	0.047	0.000	0.000	0.000	0.038	0.000	0.000	0.085
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	0.163	0.038	0.000	0.000	0.201
SSE	0.000	0.000	0.000	0.000	0.000	0.083	0.037	0.061	0.000	0.182
S	0.000	0.000	0.000	0.000	0.047	0.043	0.190	0.000	0.000	0.280
SSW	0.000	0.000	0.000	0.000	0.044	0.041	0.037	0.000	0.000	0.122
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	0.039	0.000	0.000	0.039
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	0.047	0.000	0.090	0.331	0.493	0.061	0.000	1.022

TOTAL HOURS OF VALID OBSERVATIONS	2137.000
TOTAL HOURS OF ELEVATED RELEASES	1843.690
TOTAL HOURS OF STABILITY CLASS A	43.450
TOTAL HOURS OF ELEVATED STABILITY CLASS A	21.840

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

DATE PRINTED: 2014/05/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - MAR 31, 2014

WIND DIRECTION	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)		7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
				3.5-5.4	5.5-7.4					
N	0.000	0.000	0.000	0.000	0.000	0.041	0.266	0.025	0.000	0.333
NNE	0.000	0.000	0.000	0.000	0.000	0.040	0.076	0.000	0.000	0.116
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.044	0.165	0.038	0.000	0.000	0.247
SSE	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.000	0.040
S	0.000	0.000	0.000	0.000	0.000	0.041	0.000	0.000	0.000	0.041
SSW	0.000	0.000	0.000	0.047	0.000	0.039	0.151	0.000	0.000	0.237
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	0.040	0.038	0.000	0.000	0.079
WNW	0.000	0.000	0.000	0.000	0.000	0.040	0.037	0.000	0.000	0.077
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.007
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	0.044	0.446	0.607	0.025	0.007	1.177

TOTAL HOURS OF VALID OBSERVATIONS	2137.000
TOTAL HOURS OF ELEVATED RELEASES	1843.690
TOTAL HOURS OF STABILITY CLASS B	33.950
TOTAL HOURS OF ELEVATED STABILITY CLASS B	25.160

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

DATE PRINTED: 2014/05/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - MAR 31, 2014

WIND DIRECTION	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)		7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
				3.5-5.4	5.5-7.4					
N	0.000	0.000	0.000	0.000	0.000	0.000	0.113	0.000	0.000	0.113
NNE	0.000	0.000	0.000	0.140	0.089	0.201	0.115	0.000	0.000	0.545
NE	0.000	0.000	0.000	0.000	0.044	0.043	0.000	0.000	0.000	0.086
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	0.092	0.166	0.000	0.000	0.000	0.257
SE	0.000	0.000	0.000	0.187	0.270	0.204	0.000	0.000	0.000	0.662
SSE	0.000	0.000	0.000	0.047	0.134	0.125	0.037	0.000	0.000	0.343
S	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.000	0.040
SSW	0.000	0.000	0.000	0.000	0.045	0.000	0.038	0.037	0.000	0.120
SW	0.000	0.000	0.000	0.047	0.000	0.126	0.000	0.000	0.000	0.173
WSW	0.000	0.000	0.000	0.047	0.089	0.000	0.039	0.000	0.000	0.175
W	0.000	0.000	0.000	0.000	0.138	0.081	0.000	0.037	0.000	0.256
WNW	0.000	0.000	0.000	0.000	0.044	0.082	0.076	0.070	0.000	0.271
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.043	0.000	0.080
NNW	0.000	0.000	0.000	0.000	0.000	0.083	0.230	0.080	0.000	0.394
SUBTOTAL	0.000	0.000	0.000	0.468	0.945	1.152	0.686	0.267	0.000	3.517

TOTAL HOURS OF VALID OBSERVATIONS	2137.000
TOTAL HOURS OF ELEVATED RELEASES	1843.690
TOTAL HOURS OF STABILITY CLASS C	91.420
TOTAL HOURS OF ELEVATED STABILITY CLASS C	75.160

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

DATE PRINTED: 2014/05/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - MAR 31, 2014

WIND DIRECTION	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)		7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
				3.5-5.4	5.5-7.4					
N	0.002	0.000	0.140	0.047	0.319	2.103	3.009	0.292	0.000	5.913
NNE	0.001	0.000	0.047	0.796	0.716	2.733	0.993	0.000	0.000	5.285
NE	0.001	0.000	0.047	0.421	0.358	1.209	0.000	0.000	0.000	2.036
ENE	0.002	0.000	0.094	0.187	0.406	0.000	0.000	0.000	0.000	0.689
E	0.003	0.000	0.187	0.281	0.093	0.000	0.000	0.000	0.000	0.564
ESE	0.000	0.000	0.000	0.374	0.272	0.451	0.076	0.000	0.000	1.174
SE	0.000	0.000	0.000	0.421	0.587	0.991	0.604	0.136	0.000	2.739
SSE	0.006	0.000	0.374	0.140	0.044	0.408	0.566	0.213	0.021	1.773
S	0.006	0.047	0.328	0.328	0.270	0.699	0.153	0.063	0.004	1.897
SSW	0.006	0.000	0.328	0.234	0.044	0.729	0.495	0.064	0.000	1.899
SW	0.007	0.000	0.421	0.515	0.131	0.166	0.268	0.000	0.000	1.508
WSW	0.003	0.000	0.187	0.468	0.178	0.292	0.039	0.000	0.000	1.168
W	0.002	0.000	0.094	0.421	0.721	0.458	0.268	0.000	0.000	1.963
WNW	0.004	0.000	0.234	0.374	0.315	0.923	0.836	0.087	0.015	2.788
NW	0.001	0.000	0.047	0.234	0.490	1.061	1.327	0.856	0.080	4.094
NNW	0.002	0.000	0.140	0.281	0.266	1.088	1.551	0.405	0.000	3.734
SUBTOTAL	0.047	0.047	2.667	5.522	5.212	13.310	10.184	2.116	0.120	39.225

TOTAL HOURS OF VALID OBSERVATIONS	2137.000
TOTAL HOURS OF ELEVATED RELEASES	1843.690
TOTAL HOURS OF STABILITY CLASS D	951.960
TOTAL HOURS OF ELEVATED STABILITY CLASS D	838.230

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

DATE PRINTED: 2014/05/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - MAR 31, 2014

WIND DIRECTION	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)		7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
				3.5-5.4	5.5-7.4					
N	0.000	0.000	0.000	0.234	0.226	0.736	0.269	0.030	0.000	1.496
NNE	0.000	0.000	0.094	0.187	0.179	0.896	0.461	0.000	0.000	1.817
NE	0.000	0.000	0.094	0.234	0.401	0.413	0.039	0.000	0.000	1.181
ENE	0.000	0.000	0.047	0.187	0.270	0.043	0.000	0.000	0.000	0.546
E	0.000	0.000	0.094	0.234	0.361	0.166	0.000	0.000	0.000	0.855
ESE	0.000	0.000	0.094	0.140	0.672	1.109	0.152	0.000	0.000	2.167
SE	0.000	0.000	0.094	0.187	0.270	1.057	0.727	0.112	0.000	2.447
SSE	0.000	0.000	0.094	0.328	0.402	1.060	1.105	0.117	0.010	3.116
S	0.000	0.000	0.047	0.140	0.457	0.821	0.986	0.353	0.010	2.814
SSW	0.000	0.000	0.000	0.328	0.358	0.985	1.139	0.122	0.000	2.933
SW	0.000	0.000	0.187	0.468	0.542	0.946	0.192	0.035	0.000	2.370
WSW	0.000	0.000	0.094	0.281	0.403	0.374	0.038	0.000	0.000	1.190
W	0.000	0.000	0.140	0.234	0.635	0.492	0.155	0.000	0.000	1.656
WNW	0.000	0.000	0.047	0.187	0.317	0.705	0.116	0.000	0.000	1.372
NW	0.000	0.000	0.094	0.094	0.226	0.697	0.347	0.000	0.000	1.457
NNW	0.000	0.000	0.094	0.234	0.180	1.551	0.229	0.000	0.000	2.288
SUBTOTAL	0.000	0.000	1.310	3.697	5.898	12.051	5.956	0.770	0.021	29.703

TOTAL HOURS OF VALID OBSERVATIONS	2137.000
TOTAL HOURS OF ELEVATED RELEASES	1843.690
TOTAL HOURS OF STABILITY CLASS E	709.450
TOTAL HOURS OF ELEVATED STABILITY CLASS E	634.750

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

DATE PRINTED: 2014/05/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - MAR 31, 2014

WIND DIRECTION	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)		7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
				3.5-5.4	5.5-7.4					
N	0.000	0.000	0.000	0.094	0.046	0.288	0.000	0.000	0.000	0.428
NNE	0.000	0.000	0.000	0.094	0.000	0.162	0.039	0.000	0.000	0.294
NE	0.000	0.000	0.000	0.094	0.044	0.042	0.000	0.000	0.000	0.179
ENE	0.000	0.000	0.000	0.000	0.089	0.000	0.000	0.000	0.000	0.089
E	0.000	0.000	0.047	0.047	0.044	0.085	0.000	0.000	0.000	0.222
ESE	0.000	0.000	0.047	0.094	0.091	0.335	0.000	0.000	0.000	0.566
SE	0.000	0.000	0.000	0.187	0.359	0.573	0.191	0.000	0.000	1.311
SSE	0.000	0.000	0.094	0.328	0.227	0.293	0.569	0.174	0.016	1.700
S	0.000	0.000	0.047	0.187	0.317	0.860	0.724	0.097	0.007	2.240
SSW	0.000	0.000	0.140	0.140	0.227	0.338	0.193	0.000	0.000	1.040
SW	0.000	0.000	0.000	0.140	0.176	0.296	0.000	0.000	0.000	0.613
WSW	0.000	0.000	0.094	0.187	0.045	0.000	0.000	0.000	0.000	0.326
W	0.000	0.047	0.047	0.140	0.000	0.043	0.000	0.000	0.000	0.277
WNW	0.000	0.000	0.000	0.140	0.137	0.043	0.000	0.000	0.000	0.321
NW	0.000	0.000	0.000	0.047	0.000	0.085	0.000	0.000	0.000	0.132
NNW	0.000	0.000	0.000	0.000	0.000	0.124	0.000	0.000	0.000	0.124
SUBTOTAL	0.000	0.047	0.515	1.919	1.803	3.567	1.716	0.270	0.024	9.861

TOTAL HOURS OF VALID OBSERVATIONS	2137.000
TOTAL HOURS OF ELEVATED RELEASES	1843.690
TOTAL HOURS OF STABILITY CLASS F	247.420
TOTAL HOURS OF ELEVATED STABILITY CLASS F	210.730

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

DATE PRINTED: 2014/05/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - MAR 31, 2014

WIND DIRECTION	CALM	0.6-1.4	1.5-3.4	WIND SPEED (MPH)		7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
				3.5-5.4	5.5-7.4					
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	0.044	0.000	0.000	0.000	0.000	0.044
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	0.094	0.000	0.000	0.000	0.000	0.000	0.094
ESE	0.000	0.000	0.047	0.000	0.092	0.126	0.000	0.000	0.000	0.265
SE	0.000	0.000	0.094	0.140	0.222	0.000	0.000	0.000	0.000	0.456
SSE	0.000	0.000	0.000	0.047	0.000	0.080	0.039	0.000	0.000	0.166
S	0.000	0.000	0.000	0.000	0.000	0.160	0.266	0.000	0.000	0.426
SSW	0.000	0.000	0.000	0.047	0.000	0.039	0.000	0.000	0.000	0.086
SW	0.000	0.047	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.094
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	0.047	0.000	0.000	0.000	0.000	0.047
WNW	0.000	0.000	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.094
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	0.047	0.140	0.468	0.405	0.405	0.305	0.000	0.000	1.770

TOTAL HOURS OF VALID OBSERVATIONS	2137.000
TOTAL HOURS OF ELEVATED RELEASES	1843.690
TOTAL HOURS OF STABILITY CLASS G	59.350
TOTAL HOURS OF ELEVATED STABILITY CLASS G	37.820

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

DATE PRINTED: 2014/05/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

BROWNS FERRY NUCLEAR PLANT

2014 METEOROLOGICAL DATA

TABLE 8B

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR SPLIT LEVEL RELEASES

(GROUND LEVEL RELEASE MODE AND ELEVATED RELEASE MODE)

SECOND QUARTER

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED (MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
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	0.007	0.030	0.000	0.000	0.000		0.037
NE	0.000	0.000	0.000	0.000	0.000	0.016	0.027	0.000	0.000		0.042
ENE	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000		0.009
E	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000		0.003
ESE	0.000	0.000	0.000	0.003	0.040	0.000	0.000	0.000	0.000		0.043
SE	0.000	0.000	0.039	0.069	0.054	0.013	0.000	0.000	0.000		0.175
SSE	0.000	0.000	0.039	0.017	0.000	0.000	0.000	0.000	0.000		0.056
S	0.000	0.000	0.066	0.093	0.016	0.000	0.000	0.000	0.000		0.174
SSW	0.000	0.000	0.096	0.162	0.019	0.000	0.000	0.000	0.000		0.277
SW	0.000	0.000	0.003	0.038	0.000	0.000	0.000	0.000	0.000		0.041
WSW	0.000	0.000	0.000	0.039	0.012	0.000	0.000	0.000	0.000		0.051
W	0.000	0.000	0.000	0.000	0.016	0.041	0.000	0.000	0.000		0.057
WNW	0.000	0.000	0.000	0.000	0.000	0.067	0.028	0.000	0.000		0.094
NW	0.000	0.000	0.000	0.000	0.000	0.030	0.035	0.000	0.000		0.066
NNW	0.000	0.000	0.000	0.000	0.000	0.018	0.053	0.000	0.000		0.071
SUBTOTAL	0.000	0.000	0.243	0.422	0.173	0.215	0.143	0.000	0.000		1.196

TOTAL HOURS OF VALID OBSERVATIONS	2180.000
TOTAL HOURS OF GROUND LEVEL RELEASE	200.960
TOTAL HOURS OF STABILITY CLASS A	43.520
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A	26.070

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: 2014/07/30

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
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	0.007	0.017	0.000	0.000	0.000		0.023
NE	0.000	0.000	0.000	0.000	0.005	0.006	0.000	0.000	0.000		0.011
ENE	0.000	0.000	0.000	0.001	0.000	0.005	0.000	0.000	0.000		0.006
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	0.042	0.000	0.000	0.000	0.000	0.000		0.042
SE	0.000	0.000	0.007	0.020	0.000	0.000	0.000	0.000	0.000		0.027
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	0.023	0.012	0.000	0.000	0.000	0.000	0.000		0.035
SSW	0.000	0.000	0.033	0.048	0.035	0.000	0.000	0.000	0.000		0.116
SW	0.000	0.000	0.004	0.012	0.000	0.000	0.000	0.000	0.000		0.016
WSW	0.000	0.000	0.000	0.039	0.012	0.000	0.000	0.000	0.000		0.050
W	0.000	0.000	0.000	0.020	0.047	0.023	0.000	0.000	0.000		0.090
WNW	0.000	0.000	0.000	0.000	0.017	0.102	0.009	0.000	0.000		0.128
NW	0.000	0.000	0.000	0.000	0.000	0.072	0.000	0.000	0.000		0.072
NNW	0.000	0.000	0.000	0.000	0.004	0.023	0.017	0.000	0.000		0.044
SUBTOTAL	0.000	0.000	0.067	0.194	0.126	0.249	0.027	0.000	0.000		0.662

TOTAL HOURS OF VALID OBSERVATIONS 2180.000
TOTAL HOURS OF GROUND LEVEL RELEASE 200.960
TOTAL HOURS OF STABILITY CLASS B 61.140
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 14.440

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: 2014/07/30

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000		0.004
NNE	0.000	0.000	0.000	0.002	0.007	0.000	0.000	0.000	0.000		0.009
NE	0.000	0.000	0.000	0.003	0.000	0.015	0.009	0.000	0.000		0.027
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	0.002	0.000	0.000	0.000	0.000	0.000		0.002
ESE	0.000	0.000	0.000	0.010	0.009	0.000	0.000	0.000	0.000		0.019
SE	0.000	0.000	0.015	0.000	0.028	0.000	0.000	0.000	0.000		0.043
SSE	0.000	0.000	0.015	0.000	0.000	0.000	0.000	0.000	0.000		0.015
S	0.000	0.000	0.014	0.009	0.000	0.000	0.000	0.000	0.000		0.023
SSW	0.000	0.000	0.029	0.038	0.000	0.000	0.000	0.000	0.000		0.067
SW	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000		0.005
WSW	0.000	0.000	0.001	0.022	0.000	0.000	0.000	0.000	0.000		0.023
W	0.000	0.000	0.000	0.029	0.055	0.013	0.000	0.000	0.000		0.097
WNW	0.000	0.000	0.000	0.001	0.033	0.032	0.018	0.000	0.000		0.083
NW	0.000	0.000	0.000	0.000	0.020	0.016	0.000	0.000	0.000		0.036
NNW	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000		0.006
SUBTOTAL	0.000	0.000	0.075	0.119	0.156	0.082	0.027	0.000	0.000		0.459

TOTAL HOURS OF VALID OBSERVATIONS 2180.000
TOTAL HOURS OF GROUND LEVEL RELEASE 200.960
TOTAL HOURS OF STABILITY CLASS C 136.840
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 10.000

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: 2014/07/30

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.006	0.000	0.017	0.000	0.000	0.000		0.023
NNE	0.000	0.000	0.000	0.005	0.009	0.014	0.000	0.000	0.000		0.028
NE	0.000	0.000	0.000	0.021	0.011	0.036	0.000	0.000	0.000		0.068
ENE	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000		0.001
E	0.000	0.000	0.000	0.027	0.015	0.008	0.000	0.000	0.000		0.050
ESE	0.000	0.000	0.014	0.086	0.037	0.000	0.000	0.000	0.000		0.137
SE	0.000	0.000	0.056	0.018	0.034	0.065	0.000	0.000	0.000		0.173
SSE	0.000	0.000	0.041	0.021	0.000	0.000	0.000	0.000	0.000		0.062
S	0.000	0.000	0.111	0.133	0.009	0.022	0.000	0.000	0.000		0.276
SSW	0.000	0.000	0.214	0.137	0.089	0.036	0.000	0.000	0.000		0.476
SW	0.000	0.000	0.064	0.021	0.016	0.000	0.000	0.000	0.000		0.101
WSW	0.000	0.000	0.026	0.061	0.021	0.000	0.000	0.000	0.000		0.108
W	0.000	0.000	0.004	0.094	0.117	0.094	0.000	0.000	0.000		0.309
WNW	0.000	0.000	0.000	0.009	0.094	0.088	0.107	0.000	0.000		0.297
NW	0.000	0.000	0.000	0.008	0.027	0.139	0.046	0.000	0.000		0.221
NNW	0.000	0.000	0.000	0.005	0.006	0.050	0.063	0.000	0.000		0.123
SUBTOTAL	0.000	0.000	0.529	0.654	0.484	0.570	0.216	0.000	0.000		2.453

TOTAL HOURS OF VALID OBSERVATIONS	2180.000
TOTAL HOURS OF GROUND LEVEL RELEASE	200.960
TOTAL HOURS OF STABILITY CLASS D	924.020
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D	53.470

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: 2014/07/30

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.011	0.040	0.011	0.000	0.000	0.000	0.000		0.063
NNE	0.000	0.000	0.005	0.040	0.050	0.008	0.000	0.000	0.000		0.103
NE	0.000	0.000	0.004	0.028	0.028	0.008	0.000	0.000	0.000		0.068
ENE	0.000	0.006	0.033	0.048	0.036	0.009	0.000	0.000	0.000		0.131
E	0.000	0.022	0.132	0.078	0.016	0.009	0.000	0.000	0.000		0.257
ESE	0.000	0.008	0.166	0.116	0.079	0.037	0.000	0.000	0.000		0.406
SE	0.000	0.031	0.122	0.051	0.000	0.000	0.000	0.000	0.000		0.204
SSE	0.000	0.026	0.195	0.034	0.000	0.000	0.000	0.000	0.000		0.256
S	0.000	0.006	0.205	0.300	0.142	0.125	0.000	0.000	0.000		0.778
SSW	0.000	0.000	0.131	0.069	0.082	0.036	0.000	0.000	0.000		0.318
SW	0.000	0.013	0.052	0.005	0.000	0.000	0.000	0.000	0.000		0.069
WSW	0.000	0.000	0.033	0.006	0.000	0.000	0.033	0.000	0.000		0.073
W	0.000	0.000	0.015	0.060	0.043	0.026	0.009	0.000	0.000		0.153
WNW	0.000	0.000	0.000	0.009	0.022	0.032	0.010	0.000	0.000		0.072
NW	0.000	0.000	0.002	0.011	0.020	0.039	0.019	0.000	0.000		0.092
NNW	0.000	0.000	0.011	0.010	0.020	0.051	0.023	0.000	0.000		0.116
SUBTOTAL	0.000	0.113	1.116	0.906	0.548	0.380	0.094	0.000	0.000		3.158

TOTAL HOURS OF VALID OBSERVATIONS	2180.000
TOTAL HOURS OF GROUND LEVEL RELEASE	200.960
TOTAL HOURS OF STABILITY CLASS E	726.720
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E	68.840

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: 2014/07/30

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.006	0.008	0.046	0.000	0.000	0.000	0.000	0.000		0.060
NNE	0.000	0.002	0.015	0.028	0.008	0.000	0.000	0.000	0.000		0.052
NE	0.000	0.006	0.006	0.007	0.000	0.000	0.000	0.000	0.000		0.018
ENE	0.000	0.027	0.008	0.006	0.000	0.000	0.000	0.000	0.000		0.040
E	0.000	0.040	0.039	0.035	0.000	0.000	0.000	0.000	0.000		0.114
ESE	0.000	0.006	0.045	0.014	0.000	0.000	0.000	0.000	0.000		0.065
SE	0.000	0.004	0.032	0.000	0.000	0.000	0.000	0.000	0.000		0.035
SSE	0.000	0.044	0.064	0.024	0.000	0.000	0.000	0.000	0.000		0.132
S	0.000	0.000	0.109	0.078	0.019	0.000	0.000	0.000	0.000		0.207
SSW	0.000	0.003	0.036	0.016	0.042	0.000	0.000	0.000	0.000		0.096
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
WSW	0.000	0.008	0.003	0.000	0.000	0.000	0.000	0.000	0.000		0.011
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	0.001	0.000	0.000	0.000	0.006	0.000	0.000	0.000		0.008
NNW	0.000	0.000	0.006	0.015	0.016	0.000	0.000	0.000	0.000		0.037
SUBTOTAL	0.000	0.145	0.376	0.269	0.085	0.006	0.000	0.000	0.000		0.882

TOTAL HOURS OF VALID OBSERVATIONS 2180.000
TOTAL HOURS OF GROUND LEVEL RELEASE 200.960
TOTAL HOURS OF STABILITY CLASS F 243.140
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 19.220

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: 2014/07/30

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.020	0.006	0.000	0.000	0.000	0.000	0.000		0.026
NNE	0.000	0.004	0.000	0.006	0.000	0.000	0.000	0.000	0.000		0.011
NE	0.000	0.006	0.007	0.008	0.000	0.000	0.000	0.000	0.000		0.021
ENE	0.000	0.013	0.023	0.006	0.000	0.000	0.000	0.000	0.000		0.042
E	0.000	0.027	0.007	0.003	0.000	0.000	0.000	0.000	0.000		0.037
ESE	0.000	0.016	0.003	0.000	0.000	0.000	0.000	0.000	0.000		0.019
SE	0.000	0.035	0.009	0.000	0.000	0.000	0.000	0.000	0.000		0.044
SSE	0.000	0.057	0.038	0.000	0.000	0.000	0.000	0.000	0.000		0.095
S	0.000	0.006	0.073	0.015	0.000	0.000	0.000	0.000	0.000		0.094
SSW	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.011
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	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.001
NNW	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000		0.010
SUBTOTAL	0.000	0.177	0.189	0.044	0.000	0.000	0.000	0.000	0.000		0.409

TOTAL HOURS OF VALID OBSERVATIONS 2180.000
TOTAL HOURS OF GROUND LEVEL RELEASE 200.960
TOTAL HOURS OF STABILITY CLASS G 44.620
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 8.920

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: 2014/07/30

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
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	0.044	0.000	0.000	0.000	0.000		0.044
SE	0.000	0.000	0.000	0.000	0.000	0.201	0.037	0.033	0.000		0.271
SSE	0.000	0.000	0.000	0.000	0.045	0.122	0.076	0.000	0.000		0.243
S	0.000	0.000	0.000	0.000	0.000	0.079	0.000	0.000	0.000		0.079
SSW	0.000	0.000	0.000	0.000	0.000	0.041	0.000	0.000	0.000		0.041
SW	0.000	0.000	0.000	0.000	0.043	0.081	0.000	0.000	0.000		0.124
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	0.131	0.523	0.113	0.033	0.000		0.800

TOTAL HOURS OF VALID OBSERVATIONS	2180.000
TOTAL HOURS OF ELEVATED RELEASES	1979.040
TOTAL HOURS OF STABILITY CLASS A	43.520
TOTAL HOURS OF ELEVATED STABILITY CLASS A	17.450

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

DATE PRINTED: 2014/07/30

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
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	0.079	0.037	0.000	0.000		0.117
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
ESE	0.000	0.000	0.000	0.000	0.043	0.000	0.000	0.000	0.000		0.043
SE	0.000	0.000	0.000	0.000	0.043	0.124	0.073	0.020	0.000		0.260
SSE	0.000	0.000	0.000	0.046	0.043	0.000	0.000	0.000	0.000		0.089
S	0.000	0.000	0.000	0.046	0.087	0.475	0.000	0.000	0.000		0.608
SSW	0.000	0.000	0.000	0.000	0.044	0.083	0.038	0.000	0.000		0.164
SW	0.000	0.000	0.000	0.000	0.133	0.127	0.000	0.000	0.000		0.259
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	0.200	0.038	0.000	0.000		0.239
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.114	0.000	0.000		0.114
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.000	0.000		0.037
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.147	0.067	0.000		0.214
SUBTOTAL	0.000	0.000	0.000	0.092	0.392	1.088	0.484	0.086	0.000		2.142

TOTAL HOURS OF VALID OBSERVATIONS	2180.000
TOTAL HOURS OF ELEVATED RELEASES	1979.040
TOTAL HOURS OF STABILITY CLASS B	61.140
TOTAL HOURS OF ELEVATED STABILITY CLASS B	46.700

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

DATE PRINTED: 2014/07/30

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
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	0.165	0.074	0.000	0.000		0.239
NE	0.000	0.000	0.000	0.000	0.000	0.041	0.111	0.000	0.000		0.152
ENE	0.000	0.000	0.046	0.000	0.000	0.042	0.000	0.000	0.000		0.088
E	0.000	0.000	0.000	0.000	0.000	0.041	0.000	0.000	0.000		0.041
ESE	0.000	0.000	0.000	0.000	0.044	0.000	0.000	0.000	0.000		0.044
SE	0.000	0.000	0.000	0.413	0.355	0.248	0.037	0.000	0.000		1.052
SSE	0.000	0.000	0.000	0.092	0.045	0.080	0.000	0.000	0.000		0.217
S	0.000	0.000	0.000	0.229	0.092	0.321	0.112	0.000	0.000		0.754
SSW	0.000	0.000	0.000	0.183	0.311	0.356	0.149	0.000	0.000		0.998
SW	0.000	0.000	0.000	0.092	0.090	0.246	0.000	0.000	0.000		0.428
WSW	0.000	0.000	0.000	0.000	0.179	0.205	0.000	0.000	0.000		0.384
W	0.000	0.000	0.000	0.046	0.176	0.438	0.076	0.000	0.000		0.736
WNW	0.000	0.000	0.000	0.000	0.000	0.118	0.038	0.035	0.000		0.191
NW	0.000	0.000	0.000	0.000	0.000	0.158	0.300	0.000	0.000		0.458
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.000	0.000		0.037
SUBTOTAL	0.000	0.000	0.046	1.055	1.291	2.459	0.933	0.035	0.000		5.818

TOTAL HOURS OF VALID OBSERVATIONS	2180.000
TOTAL HOURS OF ELEVATED RELEASES	1979.040
TOTAL HOURS OF STABILITY CLASS C	136.840
TOTAL HOURS OF ELEVATED STABILITY CLASS C	126.840

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

DATE PRINTED: 2014/07/30

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.000	0.086	0.084	0.111	0.028	0.000		0.310
NNE	0.000	0.000	0.000	0.092	0.352	0.283	0.075	0.000	0.000		0.802
NE	0.000	0.000	0.046	0.000	0.442	0.358	0.113	0.000	0.000		0.959
ENE	0.000	0.000	0.046	0.046	0.000	0.041	0.000	0.000	0.000		0.133
E	0.000	0.000	0.092	0.138	0.313	0.000	0.075	0.000	0.000		0.617
ESE	0.000	0.000	0.046	0.183	0.401	0.246	0.111	0.000	0.000		0.988
SE	0.000	0.000	0.275	0.917	0.664	1.010	0.335	0.188	0.008		3.397
SSE	0.000	0.000	0.550	0.917	0.752	1.168	0.972	0.036	0.000		4.397
S	0.000	0.000	0.550	1.147	0.749	1.919	1.534	0.248	0.010		6.157
SSW	0.000	0.000	0.367	0.688	0.577	1.447	0.564	0.057	0.021		3.720
SW	0.000	0.000	0.734	1.193	0.800	0.892	0.076	0.000	0.000		3.694
WSW	0.000	0.000	0.321	1.147	0.396	1.061	0.188	0.000	0.000		3.112
W	0.000	0.000	0.138	0.596	1.142	2.037	0.374	0.000	0.000		4.287
WNW	0.000	0.000	0.046	0.367	1.049	1.832	0.748	0.140	0.000		4.181
NW	0.000	0.000	0.092	0.229	0.441	0.971	0.712	0.027	0.000		2.472
NNW	0.000	0.000	0.000	0.138	0.000	0.195	0.185	0.189	0.000		0.708
SUBTOTAL	0.000	0.000	3.303	7.798	8.163	13.542	6.175	0.913	0.039		39.933

TOTAL HOURS OF VALID OBSERVATIONS 2180.000
TOTAL HOURS OF ELEVATED RELEASES 1979.040
TOTAL HOURS OF STABILITY CLASS D 924.020
TOTAL HOURS OF ELEVATED STABILITY CLASS D 870.550

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

DATE PRINTED: 2014/07/30

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.275	0.307	0.204	0.038	0.000	0.000		0.824
NNE	0.000	0.000	0.092	0.046	0.266	0.606	0.263	0.000	0.000		1.272
NE	0.000	0.000	0.046	0.321	0.043	0.367	0.038	0.000	0.000		0.814
ENE	0.000	0.000	0.046	0.138	0.267	0.406	0.000	0.000	0.000		0.856
E	0.000	0.000	0.138	0.183	0.263	0.535	0.038	0.000	0.000		1.157
ESE	0.000	0.000	0.046	0.321	0.485	1.347	0.112	0.036	0.000		2.347
SE	0.000	0.000	0.092	0.229	0.263	1.054	0.114	0.062	0.000		1.814
SSE	0.000	0.000	0.367	0.596	0.840	1.328	0.673	0.117	0.000		3.922
S	0.000	0.000	0.505	1.147	0.483	1.851	1.151	0.453	0.011		5.601
SSW	0.000	0.000	0.367	0.826	0.750	1.094	0.376	0.105	0.010		3.527
SW	0.000	0.000	0.550	1.147	0.399	0.081	0.000	0.000	0.000		2.177
WSW	0.000	0.000	0.550	0.734	0.137	0.081	0.000	0.012	0.000		1.515
W	0.000	0.000	0.183	0.596	0.797	0.367	0.038	0.000	0.000		1.981
WNW	0.000	0.000	0.046	0.229	0.482	0.200	0.037	0.000	0.000		0.995
NW	0.000	0.000	0.092	0.046	0.134	0.199	0.037	0.000	0.000		0.508
NNW	0.000	0.000	0.138	0.046	0.222	0.162	0.301	0.000	0.000		0.868
SUBTOTAL	0.000	0.000	3.257	6.881	6.138	9.880	3.216	0.786	0.021		30.178

TOTAL HOURS OF VALID OBSERVATIONS	2180.000
TOTAL HOURS OF ELEVATED RELEASES	1979.040
TOTAL HOURS OF STABILITY CLASS E	726.720
TOTAL HOURS OF ELEVATED STABILITY CLASS E	657.880

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

DATE PRINTED: 2014/07/30

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.046	0.092	0.087	0.237	0.076	0.000	0.000		0.537
NNE	0.000	0.000	0.000	0.000	0.000	0.119	0.000	0.000	0.000		0.119
NE	0.000	0.000	0.092	0.046	0.045	0.117	0.038	0.000	0.000		0.339
ENE	0.000	0.000	0.000	0.138	0.133	0.084	0.038	0.000	0.000		0.393
E	0.000	0.000	0.138	0.000	0.000	0.164	0.000	0.000	0.000		0.301
ESE	0.000	0.000	0.046	0.183	0.000	0.330	0.000	0.000	0.000		0.559
SE	0.000	0.000	0.092	0.183	0.403	0.454	0.000	0.000	0.000		1.133
SSE	0.000	0.000	0.275	0.183	0.309	0.479	0.147	0.000	0.000		1.394
S	0.000	0.000	0.275	0.367	0.259	0.719	0.337	0.031	0.000		1.988
SSW	0.000	0.000	0.138	0.183	0.044	0.522	0.038	0.000	0.000		0.925
SW	0.000	0.000	0.229	0.688	0.136	0.039	0.000	0.000	0.000		1.093
WSW	0.000	0.046	0.046	0.229	0.269	0.000	0.000	0.000	0.000		0.590
W	0.000	0.000	0.046	0.092	0.000	0.000	0.000	0.000	0.000		0.138
WNW	0.000	0.000	0.000	0.092	0.045	0.000	0.000	0.000	0.000		0.137
NW	0.000	0.000	0.092	0.000	0.181	0.000	0.000	0.000	0.000		0.273
NNW	0.000	0.000	0.046	0.092	0.133	0.083	0.000	0.000	0.000		0.353
SUBTOTAL	0.000	0.046	1.560	2.569	2.044	3.348	0.674	0.031	0.000		10.272

TOTAL HOURS OF VALID OBSERVATIONS	2180.000
TOTAL HOURS OF ELEVATED RELEASES	1979.040
TOTAL HOURS OF STABILITY CLASS F	243.140
TOTAL HOURS OF ELEVATED STABILITY CLASS F	223.920

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

DATE PRINTED: 2014/07/30

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - JUN 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000		0.046
NNE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000		0.046
NE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000		0.046
ENE	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000		0.045
E	0.000	0.000	0.000	0.046	0.087	0.041	0.000	0.000	0.000		0.174
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	0.092	0.092	0.134	0.000	0.000	0.000	0.000		0.317
SSE	0.000	0.000	0.138	0.000	0.000	0.040	0.038	0.000	0.000		0.216
S	0.000	0.046	0.092	0.000	0.000	0.039	0.000	0.000	0.000		0.177
SSW	0.000	0.000	0.046	0.183	0.000	0.118	0.000	0.000	0.000		0.347
SW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000		0.046
WSW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000		0.046
W	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000		0.046
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	0.000	0.041	0.000	0.000	0.000		0.041
SUBTOTAL	0.000	0.046	0.505	0.505	0.266	0.278	0.038	0.000	0.000		1.638

TOTAL HOURS OF VALID OBSERVATIONS	2180.000
TOTAL HOURS OF ELEVATED RELEASES	1979.040
TOTAL HOURS OF STABILITY CLASS G	44.620
TOTAL HOURS OF ELEVATED STABILITY CLASS G	35.700

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

DATE PRINTED: 2014/07/30

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

BROWNS FERRY NUCLEAR PLANT

2014 METEOROLOGICAL DATA

TABLE 8C

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR SPLIT LEVEL RELEASES

(GROUND LEVEL RELEASE MODE AND ELEVATED RELEASE MODE)

THIRD QUARTER

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
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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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED (MPH)						
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	TOTAL
N	0.000	0.000	0.000	0.000	0.009	0.134	0.000	0.000	0.000	0.143
NNE	0.000	0.000	0.000	0.000	0.000	0.097	0.000	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	0.006	0.000	0.000	0.000	0.000	0.006
E	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.008
ESE	0.000	0.000	0.008	0.018	0.008	0.000	0.000	0.000	0.000	0.034
SE	0.000	0.000	0.010	0.091	0.000	0.000	0.000	0.000	0.000	0.102
SSE	0.000	0.000	0.031	0.008	0.000	0.000	0.000	0.000	0.000	0.039
S	0.000	0.000	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.032
SSW	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.020
SW	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.007
WSW	0.000	0.000	0.000	0.016	0.000	0.000	0.000	0.000	0.000	0.016
W	0.000	0.000	0.000	0.021	0.049	0.037	0.000	0.000	0.000	0.107
WNW	0.000	0.000	0.000	0.000	0.004	0.038	0.000	0.000	0.000	0.042
NW	0.000	0.000	0.000	0.000	0.000	0.028	0.046	0.000	0.000	0.074
NNW	0.000	0.000	0.000	0.000	0.000	0.132	0.009	0.000	0.000	0.142
SUBTOTAL	0.000	0.000	0.100	0.169	0.076	0.466	0.055	0.000	0.000	0.866

TOTAL HOURS OF VALID OBSERVATIONS	2118.000
TOTAL HOURS OF GROUND LEVEL RELEASE	129.140
TOTAL HOURS OF STABILITY CLASS A	39.180
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A	18.350

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: 2014/10/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.000	0.041	0.042	0.000	0.000	0.000		0.083
NNE	0.000	0.000	0.000	0.000	0.000	0.019	0.008	0.000	0.000		0.027
NE	0.000	0.000	0.000	0.001	0.003	0.000	0.000	0.000	0.000		0.004
ENE	0.000	0.000	0.000	0.001	0.008	0.000	0.000	0.000	0.000		0.009
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	0.016	0.000	0.000	0.000	0.000		0.026
SE	0.000	0.000	0.010	0.008	0.000	0.000	0.000	0.000	0.000		0.018
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	0.001	0.002	0.000	0.000	0.000	0.000	0.000		0.003
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	0.003	0.000	0.000	0.000	0.000	0.000		0.004
WSW	0.000	0.000	0.003	0.028	0.015	0.000	0.000	0.000	0.000		0.046
W	0.000	0.000	0.000	0.015	0.048	0.017	0.000	0.000	0.000		0.079
WNW	0.000	0.000	0.000	0.000	0.033	0.044	0.000	0.000	0.000		0.078
NW	0.000	0.000	0.000	0.000	0.016	0.025	0.000	0.000	0.000		0.042
NNW	0.000	0.000	0.000	0.000	0.003	0.027	0.000	0.000	0.000		0.030
SUBTOTAL	0.000	0.000	0.024	0.069	0.182	0.174	0.008	0.000	0.000		0.457

TOTAL HOURS OF VALID OBSERVATIONS	2118.000
TOTAL HOURS OF GROUND LEVEL RELEASE	129.140
TOTAL HOURS OF STABILITY CLASS B	69.650
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B	9.680

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: 2014/10/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.000	0.013	0.008	0.000	0.000	0.000		0.021
NNE	0.000	0.000	0.000	0.000	0.010	0.006	0.000	0.000	0.000		0.017
NE	0.000	0.000	0.000	0.000	0.001	0.012	0.000	0.000	0.000		0.014
ENE	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000		0.004
E	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000		0.004
ESE	0.000	0.000	0.004	0.021	0.014	0.000	0.000	0.000	0.000		0.039
SE	0.000	0.000	0.013	0.007	0.000	0.000	0.000	0.000	0.000		0.020
SSE	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000		0.004
S	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000		0.003
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	0.003	0.000	0.000	0.000	0.000	0.000	0.000		0.003
WSW	0.000	0.000	0.000	0.005	0.021	0.000	0.000	0.000	0.000		0.026
W	0.000	0.000	0.000	0.015	0.032	0.008	0.000	0.000	0.000		0.054
WNW	0.000	0.000	0.000	0.000	0.012	0.017	0.000	0.000	0.000		0.030
NW	0.000	0.000	0.000	0.000	0.034	0.034	0.008	0.000	0.000		0.076
NNW	0.000	0.000	0.000	0.000	0.023	0.015	0.000	0.000	0.000		0.038
SUBTOTAL	0.000	0.000	0.027	0.052	0.165	0.100	0.008	0.000	0.000		0.352

TOTAL HOURS OF VALID OBSERVATIONS 2118.000
TOTAL HOURS OF GROUND LEVEL RELEASE 129.140
TOTAL HOURS OF STABILITY CLASS C 117.860
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 7.460

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: 2014/10/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.033	0.095	0.038	0.000	0.000	0.000		0.166
NNE	0.000	0.000	0.008	0.052	0.086	0.076	0.000	0.000	0.000		0.223
NE	0.000	0.000	0.000	0.015	0.028	0.025	0.007	0.000	0.000		0.075
ENE	0.000	0.000	0.000	0.010	0.018	0.015	0.000	0.000	0.000		0.043
E	0.000	0.000	0.010	0.027	0.005	0.000	0.000	0.000	0.000		0.042
ESE	0.000	0.000	0.035	0.062	0.045	0.000	0.000	0.000	0.000		0.142
SE	0.000	0.000	0.023	0.000	0.000	0.000	0.000	0.000	0.000		0.023
SSE	0.000	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.000		0.011
S	0.000	0.000	0.056	0.000	0.000	0.000	0.000	0.000	0.000		0.056
SSW	0.000	0.000	0.034	0.023	0.000	0.000	0.000	0.000	0.000		0.057
SW	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000		0.003
WSW	0.000	0.000	0.007	0.080	0.039	0.008	0.000	0.000	0.000		0.134
W	0.000	0.000	0.012	0.043	0.078	0.000	0.000	0.000	0.000		0.134
WNW	0.000	0.000	0.000	0.017	0.040	0.068	0.009	0.000	0.000		0.134
NW	0.000	0.000	0.000	0.002	0.013	0.036	0.000	0.000	0.000		0.051
NNW	0.000	0.000	0.000	0.027	0.042	0.029	0.000	0.000	0.000		0.097
SUBTOTAL	0.000	0.000	0.198	0.391	0.489	0.294	0.017	0.000	0.000		1.389

TOTAL HOURS OF VALID OBSERVATIONS 2118.000
TOTAL HOURS OF GROUND LEVEL RELEASE 129.140
TOTAL HOURS OF STABILITY CLASS D 851.060
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 29.420

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: 2014/10/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.070	0.133	0.041	0.000	0.000	0.000	0.000		0.244
NNE	0.000	0.000	0.009	0.189	0.050	0.021	0.000	0.000	0.000		0.269
NE	0.000	0.002	0.004	0.034	0.013	0.017	0.000	0.000	0.000		0.071
ENE	0.000	0.000	0.069	0.029	0.036	0.016	0.000	0.000	0.000		0.150
E	0.000	0.000	0.120	0.130	0.031	0.000	0.000	0.000	0.000		0.281
ESE	0.000	0.000	0.034	0.044	0.040	0.018	0.000	0.000	0.000		0.137
SE	0.000	0.000	0.019	0.009	0.000	0.000	0.000	0.000	0.000		0.028
SSE	0.000	0.000	0.024	0.009	0.000	0.000	0.000	0.000	0.000		0.034
S	0.000	0.000	0.063	0.000	0.000	0.000	0.000	0.000	0.000		0.063
SSW	0.000	0.001	0.020	0.015	0.000	0.000	0.000	0.000	0.000		0.036
SW	0.000	0.002	0.004	0.008	0.000	0.000	0.000	0.000	0.000		0.015
WSW	0.000	0.000	0.004	0.016	0.000	0.000	0.000	0.000	0.000		0.020
W	0.000	0.005	0.012	0.021	0.000	0.008	0.000	0.000	0.000		0.047
WNW	0.000	0.005	0.004	0.003	0.051	0.004	0.000	0.000	0.000		0.067
NW	0.000	0.000	0.000	0.000	0.009	0.006	0.000	0.000	0.000		0.016
NNW	0.000	0.000	0.026	0.083	0.052	0.036	0.000	0.000	0.000		0.196
SUBTOTAL	0.000	0.015	0.483	0.726	0.322	0.126	0.000	0.000	0.000		1.672

TOTAL HOURS OF VALID OBSERVATIONS 2118.000
TOTAL HOURS OF GROUND LEVEL RELEASE 129.140
TOTAL HOURS OF STABILITY CLASS E 638.110
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 35.420

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: 2014/10/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.006	0.178	0.129	0.000	0.000	0.000	0.000	0.000		0.313
NNE	0.000	0.000	0.065	0.098	0.031	0.007	0.000	0.000	0.000		0.200
NE	0.000	0.000	0.019	0.014	0.013	0.054	0.000	0.000	0.000		0.100
ENE	0.000	0.000	0.025	0.033	0.007	0.000	0.000	0.000	0.000		0.065
E	0.000	0.000	0.045	0.066	0.000	0.000	0.000	0.000	0.000		0.111
ESE	0.000	0.000	0.014	0.018	0.000	0.000	0.000	0.000	0.000		0.033
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	0.008	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	0.008	0.000	0.000	0.000	0.000	0.000		0.008
W	0.000	0.000	0.000	0.003	0.005	0.000	0.000	0.000	0.000		0.008
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	0.002	0.002	0.000	0.000	0.000	0.000	0.000		0.004
NNW	0.000	0.000	0.017	0.064	0.017	0.008	0.000	0.000	0.000		0.106
SUBTOTAL	0.000	0.006	0.386	0.434	0.073	0.077	0.000	0.000	0.000		0.976

TOTAL HOURS OF VALID OBSERVATIONS 2118.000
TOTAL HOURS OF GROUND LEVEL RELEASE 129.140
TOTAL HOURS OF STABILITY CLASS F 328.890
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 20.670

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: 2014/10/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.131	0.060	0.000	0.000	0.000	0.000	0.000		0.192
NNE	0.000	0.000	0.021	0.062	0.007	0.009	0.000	0.000	0.000		0.100
NE	0.000	0.000	0.014	0.012	0.000	0.014	0.000	0.000	0.000		0.040
ENE	0.000	0.000	0.012	0.011	0.000	0.000	0.000	0.000	0.000		0.023
E	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000		0.003
ESE	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000		0.002
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	0.005	0.000	0.000	0.000	0.000	0.000		0.005
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	0.004	0.014	0.002	0.000	0.000	0.000	0.000	0.000		0.020
SUBTOTAL	0.000	0.004	0.196	0.154	0.007	0.023	0.000	0.000	0.000		0.384

TOTAL HOURS OF VALID OBSERVATIONS 2118.000
TOTAL HOURS OF GROUND LEVEL RELEASE 129.140
TOTAL HOURS OF STABILITY CLASS G 73.250
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 8.140

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: 2014/10/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.000		0.040
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.039	0.000	0.000		0.039
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
SE	0.000	0.000	0.000	0.000	0.044	0.165	0.000	0.000	0.000		0.210
SSE	0.000	0.000	0.000	0.047	0.271	0.086	0.038	0.000	0.000		0.442
S	0.000	0.000	0.000	0.000	0.093	0.000	0.076	0.000	0.000		0.169
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	0.083	0.000	0.000	0.000		0.083
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	0.047	0.409	0.374	0.153	0.000	0.000		0.983

TOTAL HOURS OF VALID OBSERVATIONS 2118.000
TOTAL HOURS OF ELEVATED RELEASES 1988.860
TOTAL HOURS OF STABILITY CLASS A 39.180
TOTAL HOURS OF ELEVATED STABILITY CLASS A 20.830

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

DATE PRINTED: 2014/10/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.000	0.000	0.324	0.039	0.000	0.000		0.363
NNE	0.000	0.000	0.000	0.000	0.000	0.121	0.117	0.000	0.000		0.238
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	0.090	0.248	0.039	0.000	0.000		0.377
SSE	0.000	0.000	0.000	0.094	0.271	0.000	0.038	0.000	0.000		0.404
S	0.000	0.000	0.000	0.047	0.137	0.040	0.000	0.000	0.000		0.224
SSW	0.000	0.000	0.000	0.047	0.045	0.084	0.000	0.000	0.000		0.176
SW	0.000	0.000	0.000	0.000	0.000	0.083	0.000	0.000	0.000		0.083
WSW	0.000	0.000	0.000	0.094	0.044	0.169	0.000	0.000	0.000		0.308
W	0.000	0.000	0.000	0.047	0.090	0.247	0.039	0.000	0.000		0.424
WNW	0.000	0.000	0.000	0.000	0.000	0.042	0.000	0.000	0.000		0.042
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.076	0.000	0.000		0.076
NNW	0.000	0.000	0.000	0.000	0.000	0.040	0.077	0.000	0.000		0.118
SUBTOTAL	0.000	0.000	0.000	0.331	0.677	1.398	0.426	0.000	0.000		2.831

TOTAL HOURS OF VALID OBSERVATIONS	2118.000
TOTAL HOURS OF ELEVATED RELEASES	1988.860
TOTAL HOURS OF STABILITY CLASS B	69.650
TOTAL HOURS OF ELEVATED STABILITY CLASS B	59.970

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

DATE PRINTED: 2014/10/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)						
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.492	0.118	0.000	0.000	0.610
NNE	0.000	0.000	0.000	0.000	0.000	0.204	0.116	0.000	0.000	0.320
NE	0.000	0.000	0.000	0.000	0.000	0.044	0.000	0.000	0.000	0.044
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	0.472	0.409	0.127	0.039	0.000	0.000	1.047
SSE	0.000	0.000	0.094	0.378	0.136	0.040	0.000	0.000	0.000	0.648
S	0.000	0.000	0.000	0.189	0.137	0.000	0.039	0.000	0.000	0.365
SSW	0.000	0.000	0.000	0.142	0.091	0.000	0.000	0.000	0.000	0.233
SW	0.000	0.000	0.000	0.000	0.270	0.043	0.000	0.000	0.000	0.313
WSW	0.000	0.000	0.000	0.094	0.133	0.250	0.000	0.000	0.000	0.477
W	0.000	0.000	0.000	0.047	0.182	0.211	0.038	0.000	0.000	0.478
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	0.042	0.192	0.000	0.000	0.234
NNW	0.000	0.000	0.000	0.000	0.000	0.243	0.154	0.000	0.000	0.398
SUBTOTAL	0.000	0.000	0.094	1.369	1.357	1.695	0.696	0.000	0.000	5.212

TOTAL HOURS OF VALID OBSERVATIONS	2118.000
TOTAL HOURS OF ELEVATED RELEASES	1988.860
TOTAL HOURS OF STABILITY CLASS C	117.860
TOTAL HOURS OF ELEVATED STABILITY CLASS C	110.400

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

DATE PRINTED: 2014/10/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.142	0.425	0.547	1.534	0.273	0.000	0.000		2.920
NNE	0.000	0.000	0.331	0.519	0.547	1.494	0.077	0.000	0.000		2.968
NE	0.000	0.000	0.047	0.472	0.271	0.289	0.000	0.000	0.000		1.080
ENE	0.000	0.000	0.283	0.283	0.183	0.000	0.000	0.000	0.000		0.749
E	0.000	0.000	0.047	0.425	0.139	0.043	0.000	0.000	0.000		0.654
ESE	0.000	0.047	0.094	0.378	0.412	0.212	0.039	0.000	0.000		1.182
SE	0.000	0.000	0.567	1.180	0.693	0.588	0.536	0.034	0.000		3.599
SSE	0.000	0.047	0.992	1.039	0.278	0.497	0.466	0.000	0.000		3.318
S	0.000	0.094	0.472	1.275	0.409	0.492	0.311	0.000	0.000		3.054
SSW	0.000	0.000	0.236	0.944	0.272	0.415	0.117	0.000	0.000		1.984
SW	0.000	0.000	0.755	1.180	0.316	0.372	0.000	0.000	0.000		2.624
WSW	0.000	0.047	0.331	1.653	1.236	1.204	0.078	0.000	0.000		4.548
W	0.000	0.000	0.094	1.322	1.283	1.138	0.078	0.000	0.000		3.915
WNW	0.000	0.000	0.047	0.331	0.545	1.432	0.076	0.000	0.000		2.431
NW	0.000	0.000	0.094	0.519	0.500	0.625	0.116	0.000	0.000		1.855
NNW	0.000	0.000	0.142	0.425	0.365	0.708	0.271	0.000	0.000		1.910
SUBTOTAL	0.000	0.236	4.674	12.370	7.996	11.044	2.438	0.034	0.000		38.793

TOTAL HOURS OF VALID OBSERVATIONS	2118.000
TOTAL HOURS OF ELEVATED RELEASES	1988.860
TOTAL HOURS OF STABILITY CLASS D	851.060
TOTAL HOURS OF ELEVATED STABILITY CLASS D	821.640

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

DATE PRINTED: 2014/10/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.094	0.142	0.539	1.572	0.195	0.000	0.000		2.542
NNE	0.000	0.000	0.331	0.567	0.776	1.312	0.156	0.000	0.000		3.141
NE	0.000	0.000	0.189	0.236	0.360	0.251	0.000	0.000	0.000		1.036
ENE	0.000	0.000	0.236	0.236	0.417	0.168	0.000	0.000	0.000		1.058
E	0.000	0.047	0.000	0.331	0.504	0.846	0.039	0.000	0.000		1.767
ESE	0.000	0.000	0.236	0.236	0.593	1.469	0.116	0.000	0.000		2.650
SE	0.000	0.000	0.236	0.378	0.551	0.543	0.346	0.000	0.000		2.053
SSE	0.000	0.000	0.094	0.708	0.733	0.592	0.116	0.000	0.000		2.243
S	0.000	0.047	0.236	1.039	0.636	0.458	0.192	0.000	0.000		2.607
SSW	0.000	0.000	0.331	0.850	0.639	0.249	0.078	0.000	0.000		2.147
SW	0.000	0.000	0.567	0.992	0.275	0.131	0.000	0.000	0.000		1.964
WSW	0.000	0.000	0.189	0.850	0.318	0.209	0.039	0.000	0.000		1.605
W	0.000	0.000	0.142	0.567	0.362	0.213	0.000	0.000	0.000		1.284
WNW	0.000	0.000	0.047	0.189	0.137	0.336	0.000	0.000	0.000		0.709
NW	0.000	0.000	0.094	0.047	0.045	0.168	0.000	0.000	0.000		0.355
NNW	0.000	0.000	0.000	0.189	0.133	0.700	0.273	0.000	0.000		1.295
SUBTOTAL	0.000	0.094	3.022	7.554	7.017	9.216	1.551	0.000	0.000		28.456

TOTAL HOURS OF VALID OBSERVATIONS	2118.000
TOTAL HOURS OF ELEVATED RELEASES	1988.860
TOTAL HOURS OF STABILITY CLASS E	638.110
TOTAL HOURS OF ELEVATED STABILITY CLASS E	602.690

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

DATE PRINTED: 2014/10/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.094	0.236	0.409	0.953	0.116	0.000	0.000		1.809
NNE	0.000	0.000	0.142	0.189	0.359	1.534	0.078	0.000	0.000		2.303
NE	0.000	0.047	0.142	0.236	0.770	0.667	0.000	0.000	0.000		1.862
ENE	0.000	0.000	0.094	0.142	0.413	0.550	0.000	0.000	0.000		1.199
E	0.000	0.047	0.331	0.189	0.409	0.756	0.000	0.000	0.000		1.732
ESE	0.000	0.000	0.000	0.283	0.181	0.337	0.000	0.000	0.000		0.801
SE	0.000	0.047	0.283	0.331	0.090	0.171	0.000	0.000	0.000		0.922
SSE	0.000	0.000	0.142	0.094	0.045	0.000	0.000	0.000	0.000		0.281
S	0.000	0.047	0.331	0.236	0.000	0.043	0.000	0.000	0.000		0.657
SSW	0.000	0.000	0.094	0.047	0.047	0.000	0.000	0.000	0.000		0.189
SW	0.000	0.000	0.236	0.189	0.000	0.000	0.000	0.000	0.000		0.425
WSW	0.000	0.000	0.142	0.236	0.092	0.000	0.000	0.000	0.000		0.470
W	0.000	0.000	0.189	0.283	0.091	0.000	0.000	0.000	0.000		0.563
WNW	0.000	0.000	0.142	0.142	0.000	0.000	0.000	0.000	0.000		0.283
NW	0.000	0.000	0.142	0.047	0.000	0.000	0.000	0.000	0.000		0.189
NNW	0.000	0.000	0.094	0.283	0.092	0.164	0.234	0.000	0.000		0.868
SUBTOTAL	0.000	0.189	2.597	3.163	2.999	5.177	0.428	0.000	0.000		14.552

TOTAL HOURS OF VALID OBSERVATIONS	2118.000
TOTAL HOURS OF ELEVATED RELEASES	1988.860
TOTAL HOURS OF STABILITY CLASS F	328.890
TOTAL HOURS OF ELEVATED STABILITY CLASS F	308.220

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

DATE PRINTED: 2014/10/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.094	0.047	0.133	0.124	0.000	0.000	0.000		0.398
NNE	0.000	0.000	0.000	0.000	0.091	0.620	0.155	0.000	0.000		0.866
NE	0.000	0.000	0.094	0.142	0.183	0.127	0.078	0.000	0.000		0.624
ENE	0.000	0.000	0.000	0.142	0.137	0.043	0.000	0.000	0.000		0.322
E	0.000	0.000	0.047	0.000	0.093	0.043	0.000	0.000	0.000		0.184
ESE	0.000	0.000	0.047	0.000	0.044	0.042	0.000	0.000	0.000		0.134
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	0.094	0.000	0.000	0.000	0.000	0.000	0.000		0.094
S	0.000	0.000	0.000	0.047	0.044	0.000	0.000	0.000	0.000		0.091
SSW	0.000	0.094	0.000	0.000	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	0.000	0.000	0.000	0.000		0.000
W	0.000	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000		0.094
WNW	0.000	0.000	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	0.047	0.000	0.078	0.000	0.000		0.125
SUBTOTAL	0.000	0.094	0.472	0.425	0.772	1.000	0.311	0.000	0.000		3.074

TOTAL HOURS OF VALID OBSERVATIONS 2118.000
TOTAL HOURS OF ELEVATED RELEASES 1988.860
TOTAL HOURS OF STABILITY CLASS G 73.250
TOTAL HOURS OF ELEVATED STABILITY CLASS G 65.110

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

DATE PRINTED: 2014/10/28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

BROWNS FERRY NUCLEAR PLANT

2014 METEOROLOGICAL DATA

TABLE 8D

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR SPLIT LEVEL RELEASES

(GROUND LEVEL RELEASE MODE AND ELEVATED RELEASE MODE)

FOURTH QUARTER

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.000	0.000	0.034	0.000	0.000	0.000		0.034
NNE	0.000	0.000	0.000	0.000	0.000	0.069	0.000	0.000	0.000		0.069
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	0.005	0.000	0.000	0.000	0.000	0.000		0.005
SE	0.000	0.000	0.009	0.013	0.016	0.000	0.000	0.000	0.000		0.037
SSE	0.000	0.000	0.035	0.024	0.000	0.000	0.000	0.000	0.000		0.059
S	0.000	0.000	0.044	0.077	0.000	0.000	0.000	0.000	0.000		0.121
SSW	0.000	0.000	0.000	0.022	0.000	0.000	0.000	0.000	0.000		0.022
SW	0.000	0.000	0.006	0.034	0.000	0.000	0.000	0.000	0.000		0.040
WSW	0.000	0.000	0.000	0.013	0.013	0.008	0.000	0.000	0.000		0.035
W	0.000	0.000	0.000	0.000	0.000	0.038	0.000	0.000	0.000		0.038
WNW	0.000	0.000	0.000	0.001	0.000	0.100	0.117	0.000	0.000		0.218
NW	0.000	0.000	0.000	0.000	0.000	0.115	0.021	0.000	0.000		0.136
NNW	0.000	0.000	0.000	0.000	0.000	0.060	0.039	0.000	0.000		0.098
SUBTOTAL	0.000	0.000	0.093	0.188	0.029	0.425	0.177	0.000	0.000		0.911

TOTAL HOURS OF VALID OBSERVATIONS 2129.000
TOTAL HOURS OF GROUND LEVEL RELEASE 233.060
TOTAL HOURS OF STABILITY CLASS A 34.730
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 19.400

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: 2015/01/09

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.000	0.015	0.045	0.000	0.000	0.000		0.059
NNE	0.000	0.000	0.000	0.000	0.019	0.083	0.000	0.000	0.000		0.102
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	0.000	0.000	0.000	0.000	0.000	0.000		0.000
SE	0.000	0.000	0.023	0.018	0.018	0.000	0.000	0.000	0.000		0.060
SSE	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.000	0.000		0.024
S	0.000	0.000	0.008	0.016	0.000	0.000	0.000	0.000	0.000		0.023
SSW	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000		0.008
SW	0.000	0.000	0.006	0.007	0.000	0.000	0.000	0.000	0.000		0.012
WSW	0.000	0.000	0.000	0.011	0.016	0.008	0.000	0.000	0.000		0.034
W	0.000	0.000	0.000	0.001	0.000	0.016	0.000	0.000	0.000		0.017
WNW	0.000	0.000	0.000	0.001	0.029	0.009	0.013	0.000	0.000		0.052
NW	0.000	0.000	0.000	0.000	0.031	0.047	0.034	0.000	0.000		0.113
NNW	0.000	0.000	0.000	0.000	0.003	0.024	0.000	0.000	0.000		0.028
SUBTOTAL	0.000	0.000	0.061	0.062	0.130	0.240	0.047	0.000	0.000		0.539

TOTAL HOURS OF VALID OBSERVATIONS	2129.000
TOTAL HOURS OF GROUND LEVEL RELEASE	233.060
TOTAL HOURS OF STABILITY CLASS B	43.320
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B	11.480

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: 2015/01/09

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.004	0.023	0.021	0.000	0.000	0.000		0.048
NNE	0.000	0.000	0.000	0.001	0.014	0.024	0.000	0.000	0.000		0.039
NE	0.000	0.000	0.000	0.000	0.004	0.007	0.000	0.000	0.000		0.010
ENE	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000		0.001
E	0.000	0.000	0.000	0.000	0.000	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	0.003	0.000	0.000	0.000	0.000	0.000		0.003
SSE	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000		0.006
S	0.000	0.000	0.008	0.010	0.000	0.000	0.000	0.000	0.000		0.018
SSW	0.000	0.000	0.000	0.022	0.000	0.000	0.000	0.000	0.000		0.022
SW	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000		0.008
WSW	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000		0.008
W	0.000	0.000	0.000	0.000	0.020	0.023	0.000	0.000	0.000		0.043
WNW	0.000	0.000	0.000	0.000	0.006	0.000	0.022	0.000	0.000		0.027
NW	0.000	0.000	0.000	0.000	0.010	0.021	0.069	0.000	0.000		0.100
NNW	0.000	0.000	0.000	0.000	0.012	0.067	0.000	0.000	0.000		0.079
SUBTOTAL	0.000	0.000	0.021	0.042	0.095	0.163	0.090	0.000	0.000		0.411

TOTAL HOURS OF VALID OBSERVATIONS 2129.000
TOTAL HOURS OF GROUND LEVEL RELEASE 233.060
TOTAL HOURS OF STABILITY CLASS C 87.250
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 8.750

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: 2015/01/09

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.068	0.204	0.217	0.055	0.000	0.000		0.543
NNE	0.000	0.000	0.001	0.068	0.109	0.150	0.000	0.000	0.000		0.327
NE	0.000	0.000	0.000	0.007	0.038	0.029	0.009	0.000	0.000		0.083
ENE	0.000	0.000	0.000	0.006	0.005	0.000	0.000	0.000	0.000		0.011
E	0.000	0.000	0.004	0.001	0.000	0.000	0.000	0.000	0.000		0.006
ESE	0.000	0.000	0.008	0.070	0.124	0.042	0.000	0.000	0.000		0.245
SE	0.000	0.000	0.023	0.083	0.047	0.099	0.000	0.000	0.000		0.251
SSE	0.000	0.000	0.069	0.013	0.000	0.000	0.000	0.000	0.000		0.081
S	0.000	0.000	0.092	0.139	0.047	0.000	0.000	0.000	0.000		0.278
SSW	0.000	0.000	0.038	0.070	0.021	0.000	0.000	0.000	0.000		0.128
SW	0.000	0.000	0.022	0.006	0.000	0.000	0.000	0.000	0.000		0.028
WSW	0.000	0.000	0.013	0.065	0.041	0.030	0.000	0.000	0.000		0.149
W	0.000	0.000	0.003	0.047	0.125	0.082	0.000	0.000	0.000		0.257
WNW	0.000	0.000	0.000	0.004	0.020	0.098	0.029	0.000	0.000		0.151
NW	0.000	0.000	0.000	0.003	0.055	0.145	0.342	0.000	0.000		0.546
NNW	0.000	0.000	0.000	0.026	0.085	0.293	0.194	0.000	0.000		0.597
SUBTOTAL	0.000	0.000	0.272	0.674	0.921	1.184	0.629	0.000	0.000		3.680

TOTAL HOURS OF VALID OBSERVATIONS	2129.000
TOTAL HOURS OF GROUND LEVEL RELEASE	233.060
TOTAL HOURS OF STABILITY CLASS D	881.810
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D	78.350

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: 2015/01/09

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.033	0.107	0.136	0.035	0.000	0.000	0.000		0.310
NNE	0.000	0.000	0.019	0.120	0.079	0.042	0.000	0.000	0.000		0.261
NE	0.000	0.000	0.008	0.033	0.025	0.008	0.000	0.000	0.000		0.074
ENE	0.000	0.001	0.006	0.020	0.017	0.009	0.000	0.000	0.000		0.053
E	0.000	0.012	0.016	0.009	0.000	0.009	0.000	0.000	0.000		0.047
ESE	0.000	0.005	0.089	0.179	0.066	0.018	0.000	0.000	0.000		0.357
SE	0.000	0.008	0.124	0.150	0.132	0.024	0.000	0.000	0.000		0.438
SSE	0.000	0.032	0.289	0.029	0.000	0.000	0.000	0.000	0.000		0.351
S	0.000	0.008	0.189	0.129	0.349	0.047	0.000	0.000	0.000		0.721
SSW	0.000	0.001	0.088	0.043	0.000	0.000	0.000	0.000	0.000		0.132
SW	0.000	0.000	0.023	0.016	0.000	0.000	0.000	0.000	0.000		0.039
WSW	0.000	0.001	0.018	0.011	0.016	0.000	0.000	0.000	0.000		0.046
W	0.000	0.000	0.040	0.017	0.026	0.000	0.000	0.000	0.000		0.083
WNW	0.000	0.000	0.003	0.012	0.026	0.052	0.000	0.000	0.000		0.093
NW	0.000	0.000	0.012	0.026	0.008	0.007	0.010	0.000	0.000		0.063
NNW	0.000	0.000	0.026	0.109	0.098	0.062	0.000	0.000	0.000		0.295
SUBTOTAL	0.000	0.070	0.985	1.011	0.977	0.312	0.010	0.000	0.000		3.364

TOTAL HOURS OF VALID OBSERVATIONS	2129.000
TOTAL HOURS OF GROUND LEVEL RELEASE	233.060
TOTAL HOURS OF STABILITY CLASS E	733.280
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E	71.630

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: 2015/01/09

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.128	0.093	0.000	0.000	0.000	0.000	0.000		0.222
NNE	0.000	0.000	0.051	0.114	0.024	0.009	0.000	0.000	0.000		0.198
NE	0.000	0.001	0.005	0.000	0.000	0.000	0.000	0.000	0.000		0.006
ENE	0.000	0.003	0.004	0.000	0.000	0.000	0.000	0.000	0.000		0.008
E	0.000	0.011	0.058	0.011	0.000	0.000	0.000	0.000	0.000		0.080
ESE	0.000	0.012	0.058	0.016	0.000	0.000	0.000	0.000	0.000		0.085
SE	0.000	0.023	0.145	0.051	0.009	0.000	0.000	0.000	0.000		0.228
SSE	0.000	0.025	0.197	0.044	0.000	0.000	0.000	0.000	0.000		0.267
S	0.000	0.006	0.012	0.140	0.054	0.039	0.000	0.000	0.000		0.252
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	0.007	0.000	0.000	0.000	0.000	0.000	0.000		0.007
WSW	0.000	0.000	0.000	0.006	0.010	0.000	0.000	0.000	0.000		0.016
W	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000		0.006
WNW	0.000	0.000	0.002	0.000	0.000	0.009	0.000	0.000	0.000		0.011
NW	0.000	0.000	0.002	0.000	0.000	0.009	0.009	0.000	0.000		0.021
NNW	0.000	0.000	0.027	0.039	0.007	0.000	0.000	0.000	0.000		0.073
SUBTOTAL	0.000	0.083	0.695	0.514	0.111	0.066	0.009	0.000	0.000		1.478

TOTAL HOURS OF VALID OBSERVATIONS	2129.000
TOTAL HOURS OF GROUND LEVEL RELEASE	233.060
TOTAL HOURS OF STABILITY CLASS F	269.420
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F	31.470

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: 2015/01/09

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.104	0.037	0.000	0.000	0.000	0.000	0.000		0.140
NNE	0.000	0.000	0.045	0.040	0.000	0.000	0.000	0.000	0.000		0.085
NE	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000		0.001
ENE	0.000	0.042	0.022	0.003	0.000	0.000	0.000	0.000	0.000		0.067
E	0.000	0.002	0.017	0.000	0.000	0.000	0.000	0.000	0.000		0.019
ESE	0.000	0.002	0.021	0.005	0.000	0.000	0.000	0.000	0.000		0.028
SE	0.000	0.011	0.026	0.000	0.000	0.000	0.000	0.000	0.000		0.037
SSE	0.000	0.021	0.048	0.000	0.000	0.000	0.000	0.000	0.000		0.069
S	0.000	0.013	0.009	0.008	0.047	0.000	0.000	0.000	0.000		0.078
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	0.003	0.020	0.014	0.000	0.000	0.000	0.000	0.000		0.037
SUBTOTAL	0.000	0.094	0.314	0.107	0.047	0.000	0.000	0.000	0.000		0.563

TOTAL HOURS OF VALID OBSERVATIONS	2129.000
TOTAL HOURS OF GROUND LEVEL RELEASE	233.060
TOTAL HOURS OF STABILITY CLASS G	79.190
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G	11.980

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: 2015/01/09

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	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	0.000
NE	0.000	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	0.000
E	0.000	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	0.000
SE	0.000	0.000	0.000	0.000	0.044	0.083	0.000	0.000	0.000	0.000	0.127
SSE	0.000	0.000	0.000	0.000	0.046	0.124	0.000	0.000	0.000	0.000	0.171
S	0.000	0.000	0.000	0.000	0.000	0.040	0.039	0.000	0.000	0.000	0.079
SSW	0.000	0.000	0.000	0.000	0.000	0.082	0.000	0.000	0.000	0.000	0.082
SW	0.000	0.000	0.000	0.000	0.000	0.081	0.039	0.000	0.000	0.000	0.120
WSW	0.000	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	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.104	0.000	0.000	0.141
NW	0.000	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	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.090	0.411	0.115	0.104	0.000		0.720

TOTAL HOURS OF VALID OBSERVATIONS	2129.000
TOTAL HOURS OF ELEVATED RELEASES	1895.940
TOTAL HOURS OF STABILITY CLASS A	34.730
TOTAL HOURS OF ELEVATED STABILITY CLASS A	15.330

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

DATE PRINTED: 2015/01/09

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.000	0.000	0.121	0.076	0.000	0.000		0.196
NNE	0.000	0.000	0.000	0.000	0.000	0.040	0.078	0.000	0.000		0.118
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	0.084	0.000	0.000	0.000		0.129
SSE	0.000	0.000	0.000	0.094	0.088	0.000	0.039	0.000	0.000		0.221
S	0.000	0.000	0.000	0.000	0.000	0.081	0.078	0.000	0.000		0.158
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	0.094	0.000	0.202	0.000	0.000	0.000		0.296
WSW	0.000	0.000	0.000	0.000	0.000	0.042	0.000	0.000	0.000		0.042
W	0.000	0.000	0.000	0.000	0.000	0.000	0.155	0.000	0.000		0.155
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.039	0.027	0.000		0.066
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	0.113	0.000	0.000		0.113
SUBTOTAL	0.000	0.000	0.000	0.188	0.133	0.570	0.577	0.027	0.000		1.496

TOTAL HOURS OF VALID OBSERVATIONS	2129.000
TOTAL HOURS OF ELEVATED RELEASES	1895.940
TOTAL HOURS OF STABILITY CLASS B	43.320
TOTAL HOURS OF ELEVATED STABILITY CLASS B	31.840

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

DATE PRINTED: 2015/01/09

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.000	0.000	0.243	0.076	0.000	0.000		0.319
NNE	0.000	0.000	0.000	0.000	0.000	0.406	0.077	0.000	0.000		0.483
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	0.188	0.089	0.040	0.075	0.000	0.000		0.392
SSE	0.000	0.000	0.000	0.047	0.046	0.000	0.000	0.000	0.000		0.093
S	0.000	0.000	0.000	0.000	0.000	0.163	0.078	0.000	0.000		0.241
SSW	0.000	0.000	0.000	0.094	0.000	0.083	0.116	0.000	0.000		0.293
SW	0.000	0.000	0.000	0.000	0.047	0.123	0.039	0.000	0.000		0.208
WSW	0.000	0.000	0.000	0.047	0.044	0.040	0.000	0.000	0.000		0.131
W	0.000	0.000	0.000	0.047	0.000	0.080	0.078	0.000	0.000		0.205
WNW	0.000	0.000	0.000	0.000	0.046	0.202	0.344	0.108	0.000		0.699
NW	0.000	0.000	0.000	0.000	0.000	0.240	0.191	0.000	0.000		0.431
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.194	0.000	0.000		0.194
SUBTOTAL	0.000	0.000	0.000	0.423	0.271	1.620	1.265	0.108	0.000		3.687

TOTAL HOURS OF VALID OBSERVATIONS	2129.000
TOTAL HOURS OF ELEVATED RELEASES	1895.940
TOTAL HOURS OF STABILITY CLASS C	87.250
TOTAL HOURS OF ELEVATED STABILITY CLASS C	78.500

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

DATE PRINTED: 2015/01/09

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.047	0.282	0.470	1.220	2.396	1.617	0.197	0.004		6.233
NNE	0.000	0.000	0.188	0.705	0.954	1.541	0.999	0.033	0.000		4.419
NE	0.000	0.000	0.000	0.329	0.498	0.292	0.038	0.000	0.000		1.157
ENE	0.000	0.000	0.047	0.376	0.226	0.086	0.000	0.000	0.000		0.735
E	0.000	0.047	0.047	0.047	0.046	0.042	0.000	0.000	0.000		0.228
ESE	0.000	0.000	0.000	0.094	0.090	0.318	0.039	0.000	0.000		0.540
SE	0.000	0.000	0.235	0.282	0.358	0.365	0.685	0.153	0.000		2.078
SSE	0.000	0.000	0.376	0.188	0.091	0.294	0.229	0.000	0.000		1.178
S	0.000	0.000	0.282	0.141	0.136	0.823	0.420	0.115	0.000		1.917
SSW	0.000	0.000	0.235	0.188	0.271	1.408	0.609	0.124	0.000		2.835
SW	0.000	0.000	0.282	0.376	0.590	0.492	0.078	0.000	0.000		1.818
WSW	0.000	0.000	0.282	0.329	0.178	0.655	0.269	0.000	0.000		1.713
W	0.000	0.000	0.047	0.470	0.412	1.357	0.307	0.000	0.000		2.593
WNW	0.000	0.000	0.235	0.329	0.498	0.942	0.422	0.128	0.000		2.554
NW	0.000	0.000	0.329	0.376	0.903	1.199	0.870	0.424	0.010		4.110
NNW	0.000	0.000	0.094	0.423	0.404	1.110	1.446	0.155	0.000		3.631
SUBTOTAL	0.000	0.094	2.959	5.120	6.876	13.321	8.027	1.329	0.014		37.739

TOTAL HOURS OF VALID OBSERVATIONS	2129.000
TOTAL HOURS OF ELEVATED RELEASES	1895.940
TOTAL HOURS OF STABILITY CLASS D	881.810
TOTAL HOURS OF ELEVATED STABILITY CLASS D	803.460

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

DATE PRINTED: 2015/01/09

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.141	0.047	0.271	1.326	0.465	0.000	0.000		2.250
NNE	0.000	0.000	0.047	0.282	0.541	1.405	0.387	0.000	0.000		2.661
NE	0.000	0.000	0.000	0.235	0.318	0.714	0.116	0.000	0.000		1.384
ENE	0.000	0.000	0.094	0.329	0.136	0.123	0.000	0.000	0.000		0.682
E	0.000	0.000	0.094	0.047	0.182	0.213	0.038	0.000	0.000		0.574
ESE	0.000	0.000	0.188	0.141	0.138	0.656	0.191	0.000	0.000		1.314
SE	0.000	0.000	0.094	0.423	0.225	1.767	1.184	0.254	0.000		3.946
SSE	0.000	0.000	0.188	0.188	0.226	1.191	1.151	0.219	0.000		3.163
S	0.000	0.000	0.141	0.094	0.450	1.705	1.181	0.184	0.006		3.761
SSW	0.000	0.000	0.094	0.423	0.412	1.284	0.608	0.284	0.008		3.113
SW	0.000	0.000	0.141	0.470	0.502	0.332	0.078	0.000	0.000		1.522
WSW	0.000	0.000	0.094	0.329	0.500	0.123	0.000	0.000	0.000		1.046
W	0.000	0.000	0.141	0.235	0.495	0.208	0.039	0.000	0.000		1.117
WNW	0.000	0.000	0.047	0.282	0.318	0.329	0.115	0.000	0.000		1.090
NW	0.000	0.000	0.094	0.235	0.224	0.370	0.113	0.000	0.000		1.035
NNW	0.000	0.000	0.047	0.188	0.543	1.486	0.154	0.000	0.000		2.418
SUBTOTAL	0.000	0.000	1.644	3.946	5.483	13.232	5.819	0.941	0.014		31.078

TOTAL HOURS OF VALID OBSERVATIONS	2129.000
TOTAL HOURS OF ELEVATED RELEASES	1895.940
TOTAL HOURS OF STABILITY CLASS E	733.280
TOTAL HOURS OF ELEVATED STABILITY CLASS E	661.650

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

DATE PRINTED: 2015/01/09

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED(MPH)							TOTAL
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41		
N	0.000	0.000	0.000	0.047	0.267	0.922	0.000	0.000	0.000		1.236
NNE	0.000	0.000	0.047	0.141	0.182	0.952	0.078	0.000	0.000		1.399
NE	0.000	0.000	0.000	0.094	0.182	0.248	0.000	0.000	0.000		0.523
ENE	0.000	0.000	0.094	0.047	0.233	0.042	0.000	0.000	0.000		0.416
E	0.000	0.000	0.047	0.094	0.185	0.000	0.000	0.000	0.000		0.326
ESE	0.000	0.000	0.047	0.094	0.182	0.042	0.000	0.000	0.000		0.365
SE	0.000	0.000	0.000	0.282	0.266	0.591	0.000	0.022	0.000		1.161
SSE	0.000	0.000	0.094	0.282	0.369	0.171	0.302	0.000	0.000		1.218
S	0.000	0.000	0.000	0.094	0.183	0.453	0.270	0.047	0.000		1.047
SSW	0.000	0.000	0.188	0.094	0.180	0.042	0.000	0.000	0.000		0.504
SW	0.000	0.000	0.141	0.188	0.046	0.000	0.000	0.000	0.000		0.375
WSW	0.000	0.000	0.282	0.094	0.000	0.000	0.000	0.000	0.000		0.376
W	0.000	0.000	0.188	0.188	0.047	0.000	0.000	0.000	0.000		0.422
WNW	0.000	0.000	0.188	0.141	0.184	0.000	0.000	0.000	0.000		0.512
NW	0.000	0.000	0.000	0.141	0.228	0.129	0.000	0.000	0.000		0.497
NNW	0.000	0.000	0.047	0.047	0.134	0.572	0.000	0.000	0.000		0.800
SUBTOTAL	0.000	0.000	1.362	2.067	2.866	4.163	0.650	0.069	0.000		11.177

TOTAL HOURS OF VALID OBSERVATIONS	2129.000
TOTAL HOURS OF ELEVATED RELEASES	1895.940
TOTAL HOURS OF STABILITY CLASS F	269.420
TOTAL HOURS OF ELEVATED STABILITY CLASS F	237.950

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

DATE PRINTED: 2015/01/09

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - DEC 31, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED (MPH)						
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.361	0.000	0.000	0.000	0.361
NNE	0.000	0.000	0.000	0.047	0.134	0.163	0.078	0.000	0.000	0.421
NE	0.000	0.000	0.047	0.047	0.046	0.000	0.000	0.000	0.000	0.140
ENE	0.000	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.094
E	0.000	0.000	0.000	0.047	0.000	0.042	0.000	0.000	0.000	0.089
ESE	0.000	0.047	0.094	0.047	0.045	0.000	0.000	0.000	0.000	0.233
SE	0.000	0.047	0.094	0.188	0.044	0.125	0.000	0.000	0.000	0.498
SSE	0.000	0.047	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.141
S	0.000	0.047	0.047	0.000	0.000	0.119	0.039	0.000	0.000	0.252
SSW	0.000	0.000	0.141	0.047	0.046	0.044	0.000	0.000	0.000	0.277
SW	0.000	0.047	0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.188
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	0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.141
WNW	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047
NW	0.000	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.094
NNW	0.000	0.000	0.000	0.047	0.047	0.042	0.000	0.000	0.000	0.136
SUBTOTAL	0.000	0.235	1.080	0.470	0.361	0.894	0.117	0.000	0.000	3.157

TOTAL HOURS OF VALID OBSERVATIONS	2129.000
TOTAL HOURS OF ELEVATED RELEASES	1895.940
TOTAL HOURS OF STABILITY CLASS G	79.190
TOTAL HOURS OF ELEVATED STABILITY CLASS G	67.210

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

DATE PRINTED: 2015/01/09

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

BROWNS FERRY NUCLEAR PLANT

2014 METEOROLOGICAL DATA

TABLE 9A

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR ELEVATED RELEASES

FIRST QUARTER

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - MAR 31, 2014

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	0.097	0.049	0.000	0.146
NNE	0.000	0.000	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.049
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	0.049	0.000	0.000	0.049
SE	0.000	0.000	0.000	0.000	0.000	0.194	0.049	0.000	0.000	0.243
SSE	0.000	0.000	0.000	0.049	0.000	0.049	0.049	0.146	0.000	0.291
S	0.000	0.000	0.000	0.000	0.049	0.049	0.194	0.000	0.000	0.291
SSW	0.000	0.000	0.000	0.000	0.000	0.049	0.000	0.000	0.000	0.049
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.049	0.000	0.049
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	0.049	0.000	0.000	0.049
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	0.049	0.049	0.049	0.340	0.485	0.243	0.000	1.213

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2137
TOTAL HOURS OF STABILITY CLASS A	26
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	25
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2061
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/05/07

MEAN WIND SPEED = 14.12

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - MAR 31, 2014

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	0.049	0.146	0.097	0.000	0.291
NNE	0.000	0.000	0.000	0.000	0.000	0.049	0.049	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	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.194	0.000	0.000	0.000	0.194
SE	0.000	0.000	0.000	0.000	0.049	0.000	0.049	0.000	0.000	0.097
SSE	0.000	0.000	0.000	0.000	0.000	0.049	0.000	0.000	0.000	0.049
S	0.000	0.000	0.000	0.000	0.000	0.049	0.049	0.000	0.000	0.097
SSW	0.000	0.000	0.000	0.049	0.000	0.000	0.146	0.049	0.000	0.243
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	0.049	0.049	0.000	0.000	0.097
WNW	0.000	0.000	0.000	0.000	0.000	0.049	0.000	0.049	0.000	0.097
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.049	0.049
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	0.049	0.049	0.485	0.485	0.194	0.049	1.310

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2137
TOTAL HOURS OF STABILITY CLASS B	31
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	27
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2061
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/05/07

MEAN WIND SPEED = 14.53

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - MAR 31, 2014

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	0.146	0.000	0.000	0.146
NNE	0.000	0.000	0.000	0.000	0.194	0.194	0.146	0.000	0.000	0.534
NE	0.000	0.000	0.000	0.000	0.000	0.097	0.000	0.000	0.000	0.097
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	0.049	0.243	0.340	0.000	0.000	0.000	0.631
SE	0.000	0.000	0.000	0.000	0.146	0.194	0.000	0.000	0.000	0.340
SSE	0.000	0.000	0.000	0.049	0.000	0.194	0.000	0.049	0.000	0.291
S	0.000	0.000	0.000	0.000	0.000	0.049	0.000	0.000	0.000	0.049
SSW	0.000	0.000	0.000	0.049	0.000	0.049	0.049	0.049	0.000	0.194
SW	0.000	0.000	0.000	0.000	0.000	0.097	0.049	0.000	0.000	0.146
WSW	0.000	0.000	0.000	0.000	0.097	0.097	0.049	0.000	0.000	0.243
W	0.000	0.000	0.000	0.000	0.097	0.097	0.049	0.097	0.000	0.340
WNW	0.000	0.000	0.000	0.000	0.000	0.146	0.049	0.097	0.000	0.291
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.049	0.146	0.146	0.340
NNW	0.000	0.000	0.000	0.000	0.000	0.097	0.291	0.000	0.000	0.388
SUBTOTAL	0.000	0.000	0.000	0.146	0.776	1.650	0.873	0.437	0.146	4.027

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2137
TOTAL HOURS OF STABILITY CLASS C	87
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	83
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2061
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/05/07

MEAN WIND SPEED = 12.13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - MAR 31, 2014

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	0.146	0.097	0.340	1.310	3.930	1.407	0.097	7.327
NNE	0.000	0.049	0.000	0.194	0.922	3.057	1.795	0.049	0.000	6.065
NE	0.000	0.000	0.097	0.243	0.243	1.116	0.291	0.000	0.000	1.989
ENE	0.000	0.000	0.000	0.340	0.243	0.291	0.000	0.000	0.000	0.873
E	0.000	0.000	0.000	0.243	0.146	0.049	0.000	0.000	0.000	0.437
ESE	0.000	0.000	0.049	0.097	0.631	0.388	0.340	0.000	0.000	1.504
SE	0.000	0.000	0.049	0.146	0.194	0.679	0.970	0.437	0.000	2.475
SSE	0.000	0.000	0.194	0.194	0.146	0.582	0.437	0.534	0.146	2.232
S	0.000	0.000	0.243	0.000	0.194	0.922	0.388	0.097	0.049	1.892
SSW	0.000	0.000	0.291	0.388	0.049	0.291	0.728	0.340	0.000	2.086
SW	0.000	0.049	0.388	0.291	0.049	0.388	0.340	0.194	0.000	1.698
WSW	0.000	0.049	0.097	0.582	0.146	0.534	0.146	0.000	0.000	1.553
W	0.000	0.000	0.291	0.146	0.631	0.825	0.437	0.194	0.000	2.523
WNW	0.000	0.000	0.097	0.340	0.728	1.310	0.534	0.776	0.340	4.124
NW	0.000	0.000	0.097	0.291	0.097	0.679	1.504	2.135	1.407	6.211
NNW	0.000	0.000	0.097	0.194	0.194	0.631	1.892	0.679	0.388	4.076
SUBTOTAL	0.000	0.146	2.135	3.785	4.949	13.052	13.731	6.841	2.426	47.065

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2137
TOTAL HOURS OF STABILITY CLASS D	990
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	970
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2061
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/05/07

MEAN WIND SPEED = 12.85

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - MAR 31, 2014

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	0.146	0.631	0.825	0.146	0.000	1.747
NNE	0.000	0.000	0.000	0.097	0.146	0.485	0.873	0.049	0.000	1.650
NE	0.000	0.000	0.049	0.049	0.097	0.825	0.534	0.000	0.000	1.553
ENE	0.000	0.000	0.049	0.000	0.097	0.243	0.097	0.000	0.000	0.485
E	0.000	0.000	0.049	0.049	0.049	0.340	0.000	0.000	0.000	0.485
ESE	0.000	0.000	0.097	0.049	0.243	0.485	0.776	0.000	0.000	1.650
SE	0.000	0.000	0.049	0.049	0.340	0.776	0.922	0.388	0.049	2.572
SSE	0.000	0.000	0.049	0.243	0.291	1.164	1.650	0.679	0.146	4.221
S	0.000	0.000	0.000	0.049	0.146	1.019	1.213	0.873	0.340	3.639
SSW	0.000	0.000	0.000	0.000	0.194	1.019	1.359	0.922	0.000	3.493
SW	0.000	0.000	0.000	0.194	0.388	1.359	0.922	0.097	0.049	3.008
WSW	0.000	0.000	0.000	0.146	0.243	0.776	0.291	0.049	0.000	1.504
W	0.000	0.000	0.049	0.097	0.146	0.631	0.776	0.146	0.000	1.844
WNW	0.000	0.000	0.000	0.146	0.194	0.922	0.485	0.000	0.000	1.747
NW	0.000	0.000	0.146	0.097	0.097	0.534	0.534	0.049	0.000	1.456
NNW	0.000	0.000	0.097	0.000	0.097	0.631	1.359	0.194	0.000	2.377
SUBTOTAL	0.000	0.000	0.631	1.262	2.911	11.839	12.615	3.590	0.582	33.430

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2137
TOTAL HOURS OF STABILITY CLASS E	722
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	689
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2061
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/05/07

MEAN WIND SPEED = 12.79

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - MAR 31, 2014

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	0.049	0.000	0.049	0.243	0.000	0.000	0.340
NNE	0.000	0.000	0.000	0.049	0.049	0.000	0.194	0.049	0.000	0.340
NE	0.000	0.000	0.000	0.000	0.049	0.097	0.049	0.000	0.000	0.194
ENE	0.000	0.000	0.000	0.000	0.194	0.049	0.000	0.000	0.000	0.243
E	0.000	0.000	0.000	0.049	0.049	0.000	0.000	0.000	0.000	0.097
ESE	0.000	0.000	0.000	0.049	0.146	0.243	0.049	0.000	0.000	0.485
SE	0.000	0.000	0.000	0.146	0.194	0.388	0.097	0.000	0.000	0.825
SSE	0.000	0.000	0.000	0.097	0.049	0.340	0.825	0.437	0.437	2.183
S	0.000	0.000	0.049	0.049	0.097	0.582	1.164	0.485	0.049	2.475
SSW	0.000	0.000	0.000	0.049	0.194	0.291	0.825	0.000	0.000	1.359
SW	0.000	0.000	0.000	0.000	0.243	0.243	0.291	0.000	0.000	0.776
WSW	0.000	0.000	0.049	0.000	0.194	0.243	0.049	0.000	0.000	0.534
W	0.000	0.000	0.000	0.000	0.049	0.243	0.097	0.000	0.000	0.388
WNW	0.000	0.000	0.097	0.000	0.097	0.243	0.049	0.000	0.000	0.485
NW	0.000	0.000	0.000	0.000	0.000	0.146	0.000	0.000	0.000	0.146
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.097	0.000	0.000	0.097
SUBTOTAL	0.000	0.000	0.194	0.534	1.601	3.154	4.027	0.970	0.485	10.966

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2137
TOTAL HOURS OF STABILITY CLASS F	240
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	226
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2061
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/05/07

MEAN WIND SPEED = 12.87

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - MAR 31, 2014

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	0.049	0.000	0.000	0.000	0.000	0.049
ESE	0.000	0.000	0.000	0.146	0.049	0.049	0.097	0.000	0.000	0.340
SE	0.000	0.000	0.000	0.000	0.000	0.146	0.000	0.000	0.000	0.146
SSE	0.000	0.000	0.000	0.000	0.097	0.194	0.049	0.000	0.000	0.340
S	0.000	0.000	0.000	0.049	0.146	0.000	0.388	0.194	0.000	0.776
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.097	0.000	0.000	0.097
SW	0.000	0.000	0.000	0.000	0.000	0.049	0.000	0.000	0.000	0.049
WSW	0.000	0.000	0.000	0.000	0.000	0.049	0.000	0.000	0.000	0.049
W	0.000	0.000	0.000	0.000	0.000	0.097	0.000	0.000	0.000	0.097
WNW	0.000	0.000	0.000	0.000	0.000	0.049	0.000	0.000	0.000	0.049
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	0.340	0.631	0.631	0.194	0.000	1.989

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2137
TOTAL HOURS OF STABILITY CLASS G	41
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	41
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2061
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/05/07

MEAN WIND SPEED = 11.51

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

BROWNS FERRY NUCLEAR PLANT

2014 METEOROLOGICAL DATA

TABLE 9B

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR ELEVATED RELEASES

SECOND QUARTER

BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
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, 2014 - JUN 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
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	0.183	0.092	0.000	0.000	0.275
SE	0.000	0.000	0.000	0.000	0.000	0.092	0.000	0.046	0.000	0.138
SSE	0.000	0.000	0.000	0.000	0.046	0.046	0.138	0.000	0.000	0.229
S	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.092
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	0.000	0.000	0.000	0.138	0.000	0.000	0.000	0.138
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.550	0.275	0.046	0.000	0.917

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2180
TOTAL HOURS OF STABILITY CLASS A	20
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	20
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2180
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/07/30

MEAN WIND SPEED = 12.50

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - JUN 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
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	0.092	0.046	0.000	0.000	0.138
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	0.092	0.000	0.000	0.000	0.138
SE	0.000	0.000	0.000	0.046	0.046	0.092	0.000	0.092	0.046	0.321
SSE	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
S	0.000	0.000	0.000	0.000	0.046	0.275	0.321	0.000	0.000	0.642
SSW	0.000	0.000	0.000	0.000	0.000	0.138	0.046	0.000	0.000	0.183
SW	0.000	0.000	0.000	0.000	0.000	0.275	0.000	0.000	0.000	0.275
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	0.138	0.138	0.000	0.000	0.275
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.138	0.000	0.000	0.138
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.046
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.229	0.000	0.275
SUBTOTAL	0.000	0.000	0.000	0.046	0.183	1.101	0.780	0.321	0.046	2.477

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2180
TOTAL HOURS OF STABILITY CLASS B	54
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	54
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2180
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/07/30

MEAN WIND SPEED = 12.91

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - JUN 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
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	0.229	0.092	0.000	0.000	0.321
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.092	0.046	0.000	0.138
ENE	0.000	0.000	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.092
E	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
ESE	0.000	0.000	0.000	0.092	0.183	0.229	0.046	0.000	0.000	0.550
SE	0.000	0.000	0.000	0.092	0.183	0.183	0.000	0.046	0.000	0.505
SSE	0.000	0.000	0.000	0.138	0.138	0.046	0.046	0.000	0.000	0.367
S	0.000	0.000	0.000	0.046	0.183	0.229	0.275	0.046	0.000	0.780
SSW	0.000	0.000	0.046	0.046	0.046	0.367	0.321	0.092	0.000	0.917
SW	0.000	0.000	0.046	0.092	0.000	0.275	0.183	0.000	0.000	0.596
WSW	0.000	0.000	0.000	0.000	0.092	0.459	0.092	0.000	0.000	0.642
W	0.000	0.000	0.000	0.000	0.000	0.229	0.459	0.000	0.000	0.688
WNW	0.000	0.000	0.000	0.000	0.000	0.092	0.275	0.046	0.000	0.413
NW	0.000	0.000	0.000	0.000	0.000	0.138	0.183	0.000	0.000	0.321
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	0.138	0.505	0.826	2.569	2.064	0.321	0.000	6.422

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2180
TOTAL HOURS OF STABILITY CLASS C	140
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	140
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2180
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/07/30

MEAN WIND SPEED = 11.03

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - JUN 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.046	0.000	0.183	0.138	0.000	0.000	0.367
NNE	0.000	0.000	0.046	0.000	0.275	0.321	0.138	0.000	0.000	0.780
NE	0.000	0.000	0.000	0.000	0.138	0.413	0.413	0.000	0.000	0.963
ENE	0.000	0.000	0.092	0.046	0.000	0.183	0.000	0.000	0.000	0.321
E	0.000	0.000	0.046	0.000	0.183	0.183	0.046	0.092	0.000	0.550
ESE	0.000	0.000	0.138	0.092	0.505	0.872	0.229	0.092	0.000	1.927
SE	0.000	0.000	0.183	0.505	0.367	0.688	0.505	0.459	0.321	3.028
SSE	0.000	0.000	0.229	0.780	0.596	1.422	1.330	0.734	0.000	5.092
S	0.000	0.000	0.229	0.459	0.917	1.560	2.294	0.596	0.321	6.376
SSW	0.000	0.000	0.367	0.413	0.413	1.239	1.560	0.046	0.046	4.083
SW	0.000	0.000	0.275	0.780	0.917	1.147	0.734	0.092	0.000	3.945
WSW	0.000	0.000	0.275	0.780	0.505	1.560	0.688	0.092	0.000	3.899
W	0.000	0.000	0.138	0.275	0.872	2.752	0.734	0.413	0.000	5.183
WNW	0.000	0.000	0.000	0.275	0.734	2.385	1.009	0.321	0.046	4.771
NW	0.000	0.000	0.000	0.321	0.275	0.642	0.826	0.092	0.000	2.156
NNW	0.000	0.000	0.000	0.046	0.000	0.092	0.275	0.459	0.000	0.872
SUBTOTAL	0.000	0.000	2.018	4.817	6.697	15.642	10.917	3.486	0.734	44.312

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2180
TOTAL HOURS OF STABILITY CLASS D	966
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	966
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2180
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/07/30

MEAN WIND SPEED = 10.87

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - JUN 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.092	0.000	0.092	0.229	0.138	0.092	0.000	0.642
NNE	0.000	0.000	0.046	0.092	0.138	0.505	0.688	0.183	0.000	1.651
NE	0.000	0.000	0.000	0.046	0.138	0.367	0.275	0.000	0.000	0.826
ENE	0.000	0.000	0.000	0.092	0.092	0.413	0.138	0.000	0.000	0.734
E	0.000	0.000	0.000	0.046	0.000	0.275	0.229	0.046	0.000	0.596
ESE	0.000	0.000	0.046	0.138	0.229	1.147	0.596	0.138	0.046	2.339
SE	0.000	0.000	0.092	0.092	0.229	1.147	0.917	0.046	0.046	2.569
SSE	0.000	0.000	0.183	0.138	0.596	1.376	1.009	0.550	0.046	3.899
S	0.000	0.046	0.138	0.367	0.688	1.972	2.156	1.101	0.367	6.835
SSW	0.000	0.046	0.046	0.367	0.321	1.009	1.560	0.183	0.138	3.670
SW	0.000	0.000	0.275	0.367	0.596	1.239	0.321	0.000	0.000	2.798
WSW	0.000	0.000	0.046	0.321	0.550	0.550	0.183	0.000	0.046	1.697
W	0.000	0.000	0.138	0.459	0.642	0.963	0.229	0.092	0.000	2.523
WNW	0.000	0.000	0.046	0.092	0.183	0.596	0.092	0.000	0.000	1.009
NW	0.000	0.000	0.046	0.092	0.092	0.183	0.138	0.046	0.000	0.596
NNW	0.000	0.000	0.092	0.046	0.092	0.229	0.229	0.138	0.000	0.826
SUBTOTAL	0.000	0.092	1.284	2.752	4.679	12.202	8.899	2.615	0.688	33.211

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2180
TOTAL HOURS OF STABILITY CLASS E	724
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	724
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2180
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/07/30

MEAN WIND SPEED = 11.18

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - JUN 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.000	0.000	0.275	0.046	0.229	0.000	0.550
NNE	0.000	0.000	0.000	0.046	0.092	0.000	0.229	0.000	0.000	0.367
NE	0.000	0.000	0.046	0.046	0.000	0.046	0.092	0.092	0.000	0.321
ENE	0.000	0.000	0.000	0.000	0.092	0.092	0.046	0.000	0.000	0.229
E	0.000	0.000	0.000	0.046	0.183	0.046	0.092	0.000	0.000	0.367
ESE	0.000	0.000	0.046	0.046	0.046	0.229	0.000	0.000	0.000	0.367
SE	0.000	0.000	0.046	0.000	0.138	0.275	0.046	0.000	0.000	0.505
SSE	0.000	0.000	0.138	0.229	0.367	0.780	0.367	0.138	0.000	2.018
S	0.000	0.046	0.000	0.046	0.275	0.275	1.147	0.229	0.046	2.064
SSW	0.000	0.000	0.000	0.229	0.183	0.321	0.642	0.183	0.000	1.560
SW	0.000	0.000	0.046	0.046	0.092	0.550	0.092	0.046	0.000	0.872
WSW	0.000	0.000	0.046	0.138	0.046	0.413	0.321	0.000	0.000	0.963
W	0.000	0.046	0.046	0.046	0.000	0.000	0.046	0.000	0.000	0.183
WNW	0.000	0.000	0.000	0.046	0.000	0.138	0.000	0.000	0.000	0.183
NW	0.000	0.000	0.046	0.000	0.138	0.138	0.000	0.000	0.000	0.321
NNW	0.000	0.000	0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.092
SUBTOTAL	0.000	0.092	0.505	0.963	1.697	3.578	3.165	0.917	0.046	10.963

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2180
TOTAL HOURS OF STABILITY CLASS F	239
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	239
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2180
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/07/30

MEAN WIND SPEED = 10.87

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT **UNITS 1, 2, AND 3** **2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - JUN 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
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	0.046	0.000	0.000	0.000	0.000	0.000	0.046
NE	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
ENE	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
E	0.000	0.000	0.046	0.000	0.000	0.138	0.000	0.000	0.000	0.183
ESE	0.000	0.000	0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.092
SE	0.000	0.000	0.000	0.046	0.000	0.046	0.000	0.000	0.000	0.092
SSE	0.000	0.000	0.000	0.092	0.046	0.092	0.046	0.000	0.000	0.275
S	0.000	0.000	0.046	0.138	0.000	0.046	0.092	0.000	0.000	0.321
SSW	0.000	0.000	0.092	0.138	0.000	0.092	0.046	0.092	0.000	0.459
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	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.092
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	0.046	0.000	0.000	0.000	0.046
SUBTOTAL	0.000	0.046	0.321	0.505	0.092	0.459	0.183	0.092	0.000	1.697

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2180
TOTAL HOURS OF STABILITY CLASS G	37
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	37
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2180
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/07/30

MEAN WIND SPEED = 7.38

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

BROWNS FERRY NUCLEAR PLANT

2014 METEOROLOGICAL DATA

TABLE 9C

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR ELEVATED RELEASES

THIRD QUARTER

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - SEP 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.047	0.047	0.189	0.047	0.000	0.000	0.331
SSE	0.000	0.000	0.000	0.000	0.236	0.189	0.000	0.047	0.000	0.472
S	0.000	0.000	0.000	0.000	0.000	0.000	0.094	0.000	0.000	0.094
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	0.047	0.047	0.000	0.000	0.094
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	0.047	0.283	0.425	0.283	0.047	0.000	1.086

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2118
TOTAL HOURS OF STABILITY CLASS A	23
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	23
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2118
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/10/28

MEAN WIND SPEED = 10.44

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED (MPH)						
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.236	0.331	0.000	0.000	0.567
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.142	0.000	0.000	0.142
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	0.142	0.047	0.000	0.000	0.189
SE	0.000	0.000	0.000	0.047	0.189	0.142	0.094	0.000	0.000	0.472
SSE	0.000	0.000	0.000	0.047	0.236	0.000	0.000	0.047	0.000	0.331
S	0.000	0.000	0.000	0.000	0.047	0.000	0.047	0.000	0.000	0.094
SSW	0.000	0.000	0.000	0.000	0.000	0.094	0.047	0.000	0.000	0.142
SW	0.000	0.000	0.000	0.047	0.000	0.094	0.047	0.000	0.000	0.189
WSW	0.000	0.000	0.000	0.000	0.142	0.142	0.047	0.000	0.000	0.331
W	0.000	0.000	0.000	0.000	0.047	0.189	0.236	0.000	0.000	0.472
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.047	0.047	0.000	0.094
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	0.142	0.000	0.000	0.142
SUBTOTAL	0.000	0.000	0.000	0.142	0.661	1.039	1.228	0.094	0.000	3.163

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2118
TOTAL HOURS OF STABILITY CLASS B	67
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	67
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2118
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/10/28

MEAN WIND SPEED = 11.12

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED (MPH)						
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.378	0.331	0.000	0.000	0.708
NNE	0.000	0.000	0.000	0.000	0.000	0.094	0.236	0.000	0.000	0.331
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	0.094	0.236	0.047	0.047	0.000	0.000	0.425
SE	0.000	0.000	0.047	0.331	0.331	0.236	0.047	0.000	0.000	0.992
SSE	0.000	0.000	0.047	0.094	0.142	0.000	0.047	0.000	0.000	0.331
S	0.000	0.000	0.000	0.094	0.236	0.000	0.047	0.000	0.000	0.378
SSW	0.000	0.000	0.000	0.094	0.047	0.047	0.000	0.000	0.000	0.189
SW	0.000	0.000	0.000	0.047	0.000	0.331	0.047	0.000	0.000	0.425
WSW	0.000	0.000	0.000	0.000	0.142	0.378	0.142	0.000	0.000	0.661
W	0.000	0.000	0.000	0.000	0.142	0.142	0.047	0.047	0.000	0.378
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	0.047	0.236	0.000	0.000	0.283
NNW	0.000	0.000	0.000	0.000	0.000	0.189	0.331	0.000	0.000	0.519
SUBTOTAL	0.000	0.000	0.094	0.755	1.275	1.936	1.558	0.047	0.000	5.666

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2118
TOTAL HOURS OF STABILITY CLASS C	120
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	120
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2118
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/10/28

MEAN WIND SPEED = 9.80

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - SEP 30, 2014

WIND DIRECTION	CALM	0.60-1.40	1.41-3.40	WIND SPEED (MPH)						
				3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	TOTAL
N	0.000	0.000	0.094	0.331	0.567	1.889	0.803	0.000	0.000	3.683
NNE	0.000	0.000	0.094	0.519	0.425	1.133	0.708	0.000	0.000	2.880
NE	0.000	0.000	0.142	0.331	0.283	0.472	0.047	0.000	0.000	1.275
ENE	0.000	0.047	0.094	0.189	0.189	0.000	0.000	0.000	0.000	0.519
E	0.000	0.000	0.047	0.236	0.283	0.094	0.000	0.000	0.000	0.661
ESE	0.000	0.047	0.189	0.425	0.519	0.614	0.094	0.000	0.000	1.889
SE	0.000	0.000	0.378	1.133	0.425	0.519	0.567	0.331	0.000	3.352
SSE	0.000	0.000	0.708	0.803	0.614	0.567	0.614	0.142	0.000	3.447
S	0.000	0.047	0.661	0.472	0.519	0.283	0.803	0.000	0.000	2.786
SSW	0.000	0.047	0.236	0.378	0.142	0.567	0.283	0.000	0.000	1.653
SW	0.000	0.000	0.425	0.897	0.708	0.897	0.236	0.047	0.000	3.211
WSW	0.000	0.000	0.142	1.180	0.850	2.125	0.897	0.094	0.000	5.288
W	0.000	0.000	0.142	0.803	1.133	1.558	0.189	0.047	0.000	3.872
WNW	0.000	0.000	0.094	0.283	0.661	1.558	0.142	0.000	0.000	2.738
NW	0.000	0.000	0.047	0.472	0.425	0.755	0.283	0.000	0.000	1.983
NNW	0.000	0.000	0.094	0.283	0.331	0.567	0.567	0.000	0.000	1.841
SUBTOTAL	0.000	0.189	3.588	8.735	8.074	13.598	6.232	0.661	0.000	41.077

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2118
TOTAL HOURS OF STABILITY CLASS D	870
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	870
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2118
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/10/28

MEAN WIND SPEED = 8.25

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT **UNITS 1, 2, AND 3** **2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - SEP 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.047	0.094	0.047	1.086	1.605	0.094	0.000	2.975
NNE	0.000	0.000	0.094	0.142	0.283	0.897	1.322	0.094	0.000	2.833
NE	0.000	0.000	0.047	0.094	0.189	0.992	0.189	0.000	0.000	1.511
ENE	0.000	0.000	0.094	0.142	0.236	0.378	0.142	0.000	0.000	0.992
E	0.000	0.000	0.142	0.000	0.189	0.472	0.236	0.047	0.000	1.086
ESE	0.000	0.047	0.047	0.094	0.283	1.180	0.992	0.142	0.000	2.786
SE	0.000	0.047	0.189	0.142	0.472	1.180	0.661	0.142	0.000	2.833
SSE	0.000	0.000	0.094	0.189	0.850	1.511	0.283	0.000	0.000	2.927
S	0.000	0.047	0.047	0.425	0.425	0.519	0.378	0.094	0.000	1.936
SSW	0.000	0.000	0.094	0.189	0.519	0.992	0.283	0.094	0.000	2.172
SW	0.000	0.000	0.094	0.378	0.425	1.180	0.236	0.000	0.000	2.314
WSW	0.000	0.000	0.094	0.331	0.425	0.614	0.142	0.047	0.000	1.653
W	0.000	0.000	0.047	0.378	0.331	0.614	0.236	0.000	0.000	1.605
WNW	0.000	0.000	0.000	0.189	0.189	0.472	0.094	0.000	0.000	0.944
NW	0.000	0.000	0.047	0.094	0.094	0.142	0.047	0.000	0.000	0.425
NNW	0.000	0.000	0.047	0.094	0.094	0.331	0.708	0.000	0.000	1.275
SUBTOTAL	0.000	0.142	1.228	2.975	5.052	12.559	7.554	0.755	0.000	30.264

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2118
TOTAL HOURS OF STABILITY CLASS E	641
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	641
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2118
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/10/28

MEAN WIND SPEED = 9.94

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT **UNITS 1, 2, AND 3** **2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - SEP 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.047	0.047	0.047	0.094	0.236	0.614	0.189	0.000	1.275
NNE	0.000	0.000	0.000	0.094	0.283	0.708	0.992	0.236	0.000	2.314
NE	0.000	0.000	0.000	0.189	0.283	0.661	0.803	0.047	0.000	1.983
ENE	0.000	0.000	0.000	0.236	0.283	0.472	0.236	0.000	0.000	1.228
E	0.000	0.000	0.047	0.331	0.378	0.755	0.189	0.000	0.000	1.700
ESE	0.000	0.000	0.236	0.094	0.094	0.567	0.283	0.000	0.000	1.275
SE	0.000	0.000	0.236	0.094	0.142	0.472	0.000	0.000	0.000	0.944
SSE	0.000	0.000	0.047	0.189	0.142	0.189	0.000	0.000	0.000	0.567
S	0.000	0.000	0.283	0.142	0.047	0.189	0.047	0.000	0.000	0.708
SSW	0.000	0.000	0.000	0.189	0.094	0.047	0.000	0.000	0.000	0.331
SW	0.000	0.000	0.142	0.189	0.047	0.047	0.000	0.000	0.000	0.425
WSW	0.000	0.000	0.094	0.000	0.047	0.236	0.000	0.000	0.000	0.378
W	0.000	0.000	0.094	0.236	0.142	0.142	0.000	0.000	0.000	0.614
WNW	0.000	0.000	0.047	0.047	0.283	0.047	0.000	0.000	0.000	0.425
NW	0.000	0.047	0.094	0.283	0.047	0.000	0.000	0.000	0.000	0.472
NNW	0.000	0.000	0.047	0.094	0.094	0.189	0.189	0.189	0.000	0.803
SUBTOTAL	0.000	0.094	1.416	2.455	2.502	4.958	3.352	0.661	0.000	15.439

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2118
TOTAL HOURS OF STABILITY CLASS F	327
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	327
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2118
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/10/28

MEAN WIND SPEED = 9.23

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - SEP 30, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.000	0.047	0.094	0.000	0.047	0.000	0.189
NNE	0.000	0.000	0.047	0.000	0.047	0.189	0.236	0.142	0.000	0.661
NE	0.000	0.000	0.000	0.094	0.047	0.283	0.236	0.189	0.000	0.850
ENE	0.000	0.000	0.000	0.000	0.142	0.094	0.047	0.000	0.000	0.283
E	0.000	0.000	0.000	0.000	0.000	0.047	0.047	0.000	0.000	0.094
ESE	0.000	0.000	0.047	0.094	0.236	0.047	0.000	0.000	0.000	0.425
SE	0.000	0.000	0.000	0.047	0.000	0.094	0.000	0.000	0.000	0.142
SSE	0.000	0.000	0.000	0.094	0.047	0.000	0.000	0.000	0.000	0.142
S	0.000	0.000	0.094	0.000	0.000	0.000	0.094	0.000	0.000	0.189
SSW	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047
SW	0.000	0.000	0.047	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.047
NW	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047
NNW	0.000	0.000	0.000	0.000	0.047	0.000	0.047	0.047	0.000	0.142
SUBTOTAL	0.000	0.000	0.331	0.331	0.661	0.850	0.708	0.425	0.000	3.305

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2118
TOTAL HOURS OF STABILITY CLASS G	70
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	70
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2118
TOTAL HOURS CALM	0

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

DATE PRINTED: 2014/10/28

MEAN WIND SPEED = 10.37

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

BROWNS FERRY NUCLEAR PLANT

2014 METEOROLOGICAL DATA

TABLE 9D

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR ELEVATED RELEASES

FOURTH QUARTER

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - DEC 31, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
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	0.047	0.000	0.000	0.000	0.047
SE	0.000	0.000	0.000	0.000	0.047	0.094	0.000	0.000	0.000	0.141
SSE	0.000	0.000	0.000	0.000	0.000	0.141	0.000	0.000	0.000	0.141
S	0.000	0.000	0.000	0.000	0.000	0.047	0.047	0.000	0.000	0.094
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.094	0.000	0.000	0.094
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.141	0.000	0.000	0.141
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	0.047	0.000	0.047
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.141	0.000	0.141
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	0.329	0.282	0.188	0.000	0.845

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2206
TOTAL HOURS OF STABILITY CLASS A	18
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	18
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2129
TOTAL HOURS CALM	0

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

DATE PRINTED: 2015/01/09

MEAN WIND SPEED = 14.16

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - DEC 31, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.000	0.000	0.094	0.047	0.000	0.000	0.141
NNE	0.000	0.000	0.000	0.000	0.000	0.047	0.094	0.000	0.000	0.141
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	0.047	0.000	0.000	0.000	0.047
SE	0.000	0.000	0.000	0.094	0.047	0.094	0.000	0.000	0.000	0.235
SSE	0.000	0.000	0.000	0.000	0.047	0.000	0.047	0.000	0.000	0.094
S	0.000	0.000	0.000	0.000	0.000	0.047	0.141	0.000	0.000	0.188
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	0.094	0.000	0.235	0.000	0.000	0.329
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	0.141	0.047	0.000	0.188
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.047	0.047	0.000	0.094
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	0.094	0.141	0.000	0.235
SUBTOTAL	0.000	0.000	0.000	0.094	0.188	0.376	0.845	0.235	0.000	1.738

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2206
TOTAL HOURS OF STABILITY CLASS B	37
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	37
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2129
TOTAL HOURS CALM	0

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

DATE PRINTED: 2015/01/09

MEAN WIND SPEED = 13.54

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - DEC 31, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.000	0.000	0.188	0.235	0.000	0.000	0.423
NNE	0.000	0.000	0.000	0.000	0.000	0.235	0.188	0.000	0.000	0.423
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	0.094	0.000	0.000	0.000	0.000	0.094
SE	0.000	0.000	0.000	0.094	0.188	0.047	0.000	0.094	0.000	0.423
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	0.141	0.141	0.000	0.000	0.282
SSW	0.000	0.000	0.000	0.047	0.000	0.047	0.141	0.047	0.000	0.282
SW	0.000	0.000	0.000	0.047	0.000	0.047	0.094	0.094	0.000	0.282
WSW	0.000	0.000	0.000	0.000	0.047	0.047	0.047	0.000	0.000	0.141
W	0.000	0.000	0.000	0.000	0.094	0.094	0.188	0.047	0.000	0.423
WNW	0.000	0.000	0.000	0.000	0.000	0.141	0.329	0.329	0.000	0.798
NW	0.000	0.000	0.000	0.000	0.000	0.047	0.376	0.000	0.000	0.423
NNW	0.000	0.000	0.000	0.000	0.000	0.047	0.188	0.047	0.000	0.282
SUBTOTAL	0.000	0.000	0.000	0.188	0.423	1.080	1.926	0.658	0.000	4.274

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2206
TOTAL HOURS OF STABILITY CLASS C	92
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	91
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2129
TOTAL HOURS CALM	0

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

DATE PRINTED: 2015/01/09

MEAN WIND SPEED = 13.34

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - DEC 31, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.376	0.423	0.798	2.959	2.630	0.470	0.000	7.656
NNE	0.000	0.000	0.047	0.423	0.798	1.879	0.845	0.282	0.000	4.274
NE	0.000	0.000	0.000	0.376	0.423	0.517	0.047	0.000	0.000	1.362
ENE	0.000	0.000	0.047	0.235	0.094	0.235	0.000	0.000	0.000	0.611
E	0.000	0.047	0.000	0.047	0.094	0.047	0.000	0.000	0.000	0.235
ESE	0.000	0.000	0.047	0.094	0.188	0.235	0.376	0.094	0.094	1.127
SE	0.000	0.047	0.235	0.282	0.094	0.141	0.658	0.423	0.000	1.879
SSE	0.000	0.000	0.047	0.094	0.094	0.517	0.329	0.094	0.000	1.174
S	0.000	0.000	0.235	0.047	0.000	0.752	0.658	0.282	0.000	1.973
SSW	0.000	0.000	0.329	0.235	0.047	0.892	1.174	0.470	0.141	3.288
SW	0.000	0.000	0.141	0.047	0.047	0.892	0.752	0.047	0.000	1.926
WSW	0.000	0.000	0.141	0.564	0.141	0.376	0.752	0.235	0.000	2.208
W	0.000	0.000	0.094	0.376	0.376	0.798	1.221	0.376	0.000	3.241
WNW	0.000	0.000	0.235	0.517	0.658	1.033	0.705	0.235	0.047	3.429
NW	0.000	0.000	0.094	0.517	0.376	1.080	0.798	1.174	0.282	4.321
NNW	0.000	0.000	0.188	0.188	0.188	0.986	1.174	1.033	0.094	3.852
SUBTOTAL	0.000	0.094	2.255	4.462	4.415	13.340	12.118	5.214	0.658	42.555

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2206
TOTAL HOURS OF STABILITY CLASS D	952
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	906
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2129
TOTAL HOURS CALM	0

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

DATE PRINTED: 2015/01/09

MEAN WIND SPEED = 11.73

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

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, 2014 - DEC 31, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.094	0.094	0.892	1.456	0.047	0.000	2.583
NNE	0.000	0.047	0.000	0.141	0.094	1.362	0.986	0.329	0.000	2.959
NE	0.000	0.000	0.047	0.000	0.094	0.986	0.611	0.235	0.000	1.973
ENE	0.000	0.000	0.047	0.047	0.094	0.329	0.094	0.000	0.000	0.611
E	0.000	0.000	0.000	0.094	0.047	0.282	0.000	0.094	0.000	0.517
ESE	0.000	0.000	0.000	0.094	0.047	0.376	0.376	0.188	0.047	1.127
SE	0.000	0.000	0.094	0.141	0.047	0.611	1.597	0.892	0.235	3.617
SSE	0.000	0.000	0.094	0.047	0.423	1.644	1.691	0.611	0.000	4.509
S	0.000	0.000	0.000	0.000	0.188	1.315	2.067	0.986	0.141	4.697
SSW	0.000	0.000	0.094	0.047	0.188	0.892	1.644	0.658	0.235	3.758
SW	0.000	0.047	0.047	0.094	0.235	0.798	0.423	0.094	0.000	1.738
WSW	0.000	0.000	0.047	0.141	0.188	0.752	0.141	0.000	0.000	1.268
W	0.000	0.000	0.094	0.235	0.376	0.564	0.423	0.000	0.000	1.691
WNW	0.000	0.000	0.047	0.188	0.235	0.376	0.329	0.000	0.000	1.174
NW	0.000	0.000	0.000	0.141	0.094	0.423	0.188	0.141	0.000	0.986
NNW	0.000	0.000	0.000	0.094	0.094	0.798	0.986	0.047	0.000	2.020
SUBTOTAL	0.000	0.094	0.611	1.597	2.536	12.400	13.011	4.321	0.658	35.228

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2206
TOTAL HOURS OF STABILITY CLASS E	780
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	750
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2129
TOTAL HOURS CALM	0

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

DATE PRINTED: 2015/01/09

MEAN WIND SPEED = 12.93

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - DEC 31, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.047	0.000	0.094	0.376	0.564	0.047	0.000	1.127
NNE	0.000	0.000	0.047	0.047	0.094	0.517	0.939	0.141	0.000	1.785
NE	0.000	0.000	0.047	0.094	0.000	0.188	0.423	0.000	0.000	0.752
ENE	0.000	0.000	0.047	0.047	0.047	0.188	0.094	0.000	0.000	0.423
E	0.000	0.000	0.000	0.000	0.094	0.188	0.000	0.000	0.000	0.282
ESE	0.000	0.000	0.000	0.047	0.047	0.141	0.000	0.000	0.000	0.235
SE	0.000	0.000	0.047	0.094	0.094	0.188	0.047	0.000	0.000	0.470
SSE	0.000	0.000	0.047	0.094	0.376	0.798	0.329	0.235	0.047	1.926
S	0.000	0.047	0.047	0.094	0.000	0.423	0.658	0.094	0.047	1.409
SSW	0.000	0.000	0.141	0.047	0.094	0.188	0.141	0.000	0.000	0.611
SW	0.000	0.000	0.047	0.000	0.094	0.141	0.094	0.000	0.000	0.376
WSW	0.000	0.000	0.094	0.047	0.047	0.000	0.000	0.000	0.000	0.188
W	0.000	0.000	0.000	0.235	0.047	0.094	0.000	0.000	0.000	0.376
WNW	0.000	0.000	0.047	0.141	0.376	0.329	0.000	0.000	0.000	0.892
NW	0.000	0.000	0.094	0.000	0.094	0.376	0.094	0.000	0.000	0.658
NNW	0.000	0.000	0.000	0.000	0.000	0.141	0.376	0.000	0.000	0.517
SUBTOTAL	0.000	0.047	0.752	0.986	1.597	4.274	3.758	0.517	0.094	12.024

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2206
TOTAL HOURS OF STABILITY CLASS F	256
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	256
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2129
TOTAL HOURS CALM	0

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

DATE PRINTED: 2015/01/09

MEAN WIND SPEED = 10.57

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

BROWNS FERRY NUCLEAR PLANT UNITS 1, 2, AND 3 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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, 2014 - DEC 31, 2014

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.047	0.000	0.000	0.282	0.094	0.000	0.423
NNE	0.000	0.047	0.000	0.000	0.000	0.000	0.282	0.141	0.000	0.470
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	0.047	0.094	0.047	0.047	0.000	0.000	0.000	0.235
E	0.000	0.000	0.000	0.047	0.000	0.000	0.047	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	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.094
SSE	0.000	0.000	0.094	0.094	0.000	0.141	0.000	0.000	0.000	0.329
S	0.000	0.047	0.047	0.047	0.188	0.000	0.141	0.047	0.000	0.517
SSW	0.000	0.000	0.047	0.188	0.047	0.047	0.047	0.000	0.000	0.376
SW	0.000	0.000	0.047	0.000	0.000	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	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.094
WNW	0.000	0.000	0.141	0.094	0.000	0.000	0.000	0.000	0.000	0.235
NW	0.000	0.000	0.047	0.047	0.094	0.000	0.000	0.000	0.000	0.188
NNW	0.000	0.000	0.000	0.047	0.000	0.000	0.047	0.000	0.000	0.094
SUBTOTAL	0.000	0.094	0.658	0.752	0.470	0.235	0.845	0.282	0.000	3.335

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2206
TOTAL HOURS OF STABILITY CLASS G	71
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	71
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2129
TOTAL HOURS CALM	0

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

DATE PRINTED: 2015/01/09

MEAN WIND SPEED = 8.69

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

ATTACHMENT 1

Deviations from ODCM Controls and Surveillance Requirements

This report is to comply with Browns Ferry Nuclear Plant Offsite Dose Calculation Manual (ODCM). The ODCM requires that all deviations be reported in the Annual Radioactive Effluent Release Report.

Liquid Radwaste

During the reporting period, January 1, 2014 through December 31, 2014, not all liquid radwaste was processed by the plant Liquid Radwaste Treatment System due to impact to Radwaste equipment. These releases met the discharge limits for release. (PER 861975)

Charcoal Absorber Operation

The Unit 1 charcoal absorber trains were out of service greater than 7 days beginning 11/25/2014. A Special Report was submitted to the NRC on 12/23/14 in accordance with ODCM Administrative Control 5.4, "Special Reports," to discuss the gaseous radwaste being discharged without complete use of the Browns Ferry Nuclear treatment equipment for more than 7 days (ODCM 1.2.2.4).

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

ATTACHMENT 2

2014 Inoperable Radiological Effluent Instrumentation Report

This report is to comply with Browns Ferry Nuclear Plant 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, 2014, there were no radioactive effluent monitoring instruments out of service for greater than 30 days.