



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

April 28, 2017

10 CFR 50.4
10 CFR 50.36a
10 CFR 50 Appendix I

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: **2016 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 2016. This document is in conformance with Title 10 of the Code of Federal Regulations (10 CFR) 50.36a and 10 CFR 50, Appendix I, Section IV.B.1.

Attachment 1 to Enclosure 1 documents deviations which have occurred from Offsite Dose Calculation Manual (ODCM) controls and surveillance requirements. Attachment 2 to Enclosure 1 provides information on radiological effluent instrumentation inoperable for greater than 30 days.

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,

A handwritten signature in blue ink, appearing to read 'S. M. Bono'.

S. M. Bono
Site Vice President

U.S. Nuclear Regulatory Commission

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April 28, 2017

Enclosure: 2016 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**

2016 Annual Radioactive Effluent Release Report

See Enclosed

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2016 Annual Radioactive EFFLUENT Release REPORT**

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Supplemental Information

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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Supplemental Information

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 $2E-4$ μCi 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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Supplemental Information

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>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	
	<u>Units</u>					
	1. Number of batches released	Each	1	1	11	10
	2. Total time for batches released	Minutes	140.00	175.00	3310.00	2044.00
	3. Maximum time period for a batch release	Minutes	140.00	175.00	405.00	250.00
	4. Average time period for a batch release	Minutes	140.00	175.00	300.91	204.40
	5. Minimum time period for a batch release	Minutes	140.00	175.00	150.00	110.00
	6. Average BFN batch flow during period of release into the river stream	ft ³ /sec	90,195	11,354	15,271	17,169
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 River	H-3	2.19E+00	8.30E-01	4.50E-01	1.12E+00
	F-18			7.93E-02	3.12E-02

b. Gaseous

1. Number of releases: 0

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 2016.

1. Three of the abnormal releases were from the U1, U2, and U3 Station Sumps. These releases occurred throughout 2016 and were the result of several identified sources including multiple steam leaks which occurred in the U-1, U-2 and U-3 Steam Jet Air Ejector Rooms along with the U-1 and U-2 Recombiner Rooms and U-2 Moisture Separator Room. (CRs 1205661, 1206175, 1207246, 1240249, 1240570, 1255845, 1250531)
2. During a walkdown of the Reactor Bldg roof, a leak coming from the U-2B Turbine Building exhaust (2-FAN-064-0047B) was discovered. This leak was coming from the warped expansion joints around the exhaust duct and falling onto the Reactor Bldg roof. (CR 1241503)

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7. Missed Compensatory Samples

During the reporting period , January 1, 2016 through December 31, 2016, there was one missed compensatory sample.

CR 1194524 was flagged as a potential for a missed ODCM required compensatory sample.

Review of the CR and the identified surveillance, 0-SI-4.8.A.1-1 (Liquid Effluent Permit) performance, determined a procedure violation occurred with the incorrect attachment completed by Operations personnel. Performance of the wrong attachment during the release resulted in the requirements of ODCM, Table 1.1-1, Action E for 0-FIC-77-60, Radwaste Discharge Flow Loop when inoperable not being met for that release.

The completion of the correct attachment would have satisfied the ODCM requirement in Table 1.1-1, instrument 4, Action E stated below.

With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, effluent releases via this pathway may be continued provided the flow rate is estimated at least once per 4 hours during actual releases. Pump curves may be used to estimate flow.

During the final review of this surveillance, calculations were performed, utilizing the data collected and the correct attachment, which subsequently verified the operability of the 0-FIC-77-60.

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

In calendar year 2016, BFN had no permanent changes to the Radwaste System or the Process Control Program.

9. Revisions to the Offsite Dose Calculation Manual (ODCM)

During 2016 there were no revisions made to the Offsite Dose Calculation Manual (ODCM).

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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>
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	2.694E-04	2.719E-04	3.112E-04	1.937E-04	36
2. Average Release Rate for Period	μCi/sec	3.427E-05	3.458E-05	3.915E-05	2.436E-05	
3. Percent of Applicable Limit	%	****	****	****	****	
C. Particulates						
1. Particulates with half-lives > eight days	Curies	7.470E-04	1.134E-03	6.657E-04	6.939E-04	35
2. Average Release Rate for Period	μCi/sec	9.501E-05	1.442E-04	8.375E-05	8.729E-05	
3. Percent of Applicable Limit	%	****	****	****	****	
4. Gross Alpha Radioactivity	Curies	**	**	**	**	
D. Tritium						
1. Total Release	Curies	1.854E+02	9.903E+0 1	4.754E+01	1.744E+02	21
2. Average Release Rate for Period	μCi/sec	2.358E+01	1.259E+0 1	5.980E+00	2.194E+01	
3. Percent of Applicable Limit	%	****	****	****	****	
E. Carbon-14***						
1. Total Release	Curies	7.804	9.515	9.270	8.381	
2. Total as CO ₂	Curies	8.215	10.016	9.758	8.822	

* - 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	**	**	**	**
<u>Total for Period</u>	**	**	**	**
2. Iodines				
I-131	5.31E-05	1.26E-04	1.26E-04	6.20E-05
I-135	**	**	**	**
I-133	9.83E-05	4.18E-04	3.55E-04	1.32E-04
<u>Total for Period</u>	<u>1.51E-04</u>	<u>5.44E-04</u>	<u>4.81E-04</u>	<u>1.94E-04</u>

** - Not Detected.

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**GASEOUS EFFLUENTS
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**TABLE 1B (Continued)
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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	9.46E-06	**	1.82E-05	2.19E-05
Sr-90	**	**	**	**
Sr-91	**	7.75E-06	**	**
Br-84	**	**	**	**
Cs-138	1.00E-03	5.58E-03	1.18E-02	1.73E-03
Ba-140	7.72E-06	**	5.27E-06	5.04E-06
La-140	**	6.42E-07	3.27E-06	**
Te-132	**	**	**	**
Zn-69m	**	**	**	**
Others (Au-199)	2.10E-05	1.98E-05	5.72E-06	3.31E-05
Rb-88	**	**	**	**
Rb-89	**	**	**	**
Y-91m	4.62E-05	7.62E-05	8.72E-05	5.83E-05
Co-60	3.87E-06	**	**	1.71E-06
Ba-139	1.21E-02	1.33E-02	2.19E-02	1.99E-02
<u>Total for Period*</u>	<u>1.32E-02</u>	<u>1.90E-02</u>	<u>3.38E-02</u>	<u>2.17E-02</u>
4. Tritium	4.29E+00	3.10E+00	3.17E+00	1.76E+00
5. Carbon-14***	<u>7.804</u>	<u>9.515</u>	<u>9.270</u>	<u>8.381</u>

* - 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
 (Continuous Mode Only)**

**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>	**	**	**	**
2. Iodines				
I-131	8.24E-05	1.72E-05	2.12E-05	3.25E-05
I-132	**	**	**	**
I-133	2.03E-04	3.66E-05	2.89E-05	4.39E-05
<u>Total for Period</u>	<u>2.85E-04</u>	<u>5.39E-05</u>	<u>5.01E-05</u>	<u>7.64E-05</u>

** - Not Detected.

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**GASEOUS EFFLUENTS
(Continuous Mode Only)**

**TABLE 1C (Continued)
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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>
3. Particulates*				
Co-60	5.82E-05	1.42E-04	2.98E-05	2.03E-05
Sr-89	**	**	**	**
Sr-90	**	**	**	**
Cs-134	**	**	**	**
Cs-137	**	**	9.35E-07	7.05E-07
Ba-140	**	**	**	**
Sr-91	**	**	**	**
Tc-99m	**	**	**	**
Mo-99	**	**	**	**
Y-91m	7.94E-06	**	**	**
Cs-138	6.77E-03	**	**	**
Ba-139	**	**	**	4.27E-04
<u>Total for Period*</u>	<u>6.84E-03</u>	<u>1.42E-04</u>	<u>3.07E-05</u>	<u>4.48E-04</u>
Tritium	<u>7.04E+01</u>	<u>1.52E+01</u>	<u>2.76E+00</u>	<u>5.50E+00</u>

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

** - Not Detected.

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**GASEOUS EFFLUENTS
(Continuous Mode Only)**

**TABLE 1D
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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>
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	1.34E-04	1.29E-04	1.64E-04	9.92E-05
I-132	**	**	**	**
I-133	4.85E-04	7.25E-04	7.20E-04	5.87E-04
<u>Total for Period</u>	<u>6.19E-04</u>	<u>8.54E-04</u>	<u>8.84E-04</u>	6.86E-04

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

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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	**	**	**	**
Ag-110m	3.72E-06	**	6.57E-06	1.59E-05
Cs-137	7.26E-07	6.67E-06	2.03E-06	9.54E-06
Ba-140	1.85E-05	**	**	**
La-140	**	**	**	**
Na-24	**	**	**	**
Mn-54	3.06E-05	1.65E-06	**	1.27E-05
Mn-56	3.78E-04	**	3.69E-03	**
Cr-51	8.64E-05	**	**	1.92E-05
Co-58	3.33E-05	**	**	**
Co-60	4.59E-04	9.63E-04	5.98E-04	4.71E-04
Zn-65	1.45E-05	**	**	8.12E-05
Y-91m	2.37E-04	**	1.02E-04	5.41E-05
Sr-91	**	**	**	**
Sr-92	**	**	**	**
Cs-138	**	**	**	**
Ba-139	4.27E-03	**	**	2.08E-03
Y-92	**	**	**	**
Ni-65	**	**	**	**
Other (Se-75)	***	**	**	1.54E-06

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**GASEOUS EFFLUENTS
(Continuous Mode Only)**

**TABLE 1D (Continued)
Page 3 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>
3. Particulates***				
Cs-134	**	**	**	**
Co-57	**	**	**	**
Sb-124	**	**	**	**
Tc-99m	**	**	**	**
Mo-99	**	**	**	**
Zn-69m	4.37E-05	**	3.59E-05	**
Fe-59	**	**	**	**
Total for Period**	<u>5.58E-03</u>	<u>9.72E-04</u>	<u>4.43E-03</u>	<u>2.74E-03</u>
Tritium	<u>1.11E+02</u>	<u>8.07E+01</u>	<u>4.16E+01</u>	<u>1.67E+02</u>

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

** - Not Detected.

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

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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	5.239E-04	2.924E-04	8.61E-02**	5.06E-02**	9
Average Diluted Concentration						
2. Released During the Period	μCi/ml	8.236E-10	7.356E-10	1.397E-08**	1.282E-08**	
3. Percent of Applicable Limit	%	***	***	***	***	
B. Tritium						
1. Total Releases	Curies	2.20E+00**	8.84E-01**	3.40E+00**	2.20E+00**	6
Average Diluted Concentration						
2. Released During Period	μCi/ml	3.461E-06**	2.224E-06**	5.513E-07**	5.573E-07**	
3. Percent of Applicable Limit	%	***	***	***	***	
C. Dissolved and Entrained Noble Gases						
1. Total Releases	Curies	*	*	7.603E-05	*	8
Average Diluted Concentration						
2. Released During Period	μCi/ml	*	*	1.233E-11	*	
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	3.808E+04	3.189E+04	9.200E+05	3.646E+05	3
F. Volume of Dilution Water for Period	Liters	6.360E+08	3.975E+08	6.165E+09	3.946E+09	10
G. Total CCW	Gigagal	2.74E+02	2.64E+02	2.65E+02	2.46E+02	

* - Not Detected.

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

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

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LIQUID EFFLUENTS

**TABLE 2B
Page 1 of 2
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-144	*	*	*	*
3.	Co-58	1.15E-05	4.07E-06	4.22E-05	8.61E-05
4.	Co-60	2.37E-04	7.73E-05	1.61E-03	4.44E-03
5.	Cr-51	*	*	*	*
6.	Cs-134	*	*	2.00E-05	1.80E-04
7.	Cs-137	7.03E-05	6.38E-05	1.33E-03	1.37E-02
8.	Fe-55	8.49E-05	8.77E-05	4.65E-04	4.41E-04
9.	I-134	*	*	*	*
10.	La-140	*	*	*	*
11.	Mo-99	*	*	3.27E-05	3.43E-06
12.	Mn-54	1.00E-04	5.54E-05	1.63E-04	3.54E-04
13.	Tc-99m	*	*	3.19E-05	3.35E-06
14.	Na-24	*	*	2.37E-03	9.79E-05
15.	Sb-124	*	*	1.01E-05	*
16.	Sr-89	*	*	*	*
17.	Sr-92	*	*	*	*
18.	Y-91m	*	*	2.09E-05	*
19.	Zn-65	9.49E-06	*	2.19E-05	9.35E-05
20.	Zn-69m	*	*	*	*
21.	Zr-97	*	*	*	*
22.	Xe-133	*	*	*	*
23.	Xe-133m	*	*	*	*
24.	Xe-135	*	*	7.60E-05	*
25.	I-131	*	*	1.05E-05	*

* - Not Detected.

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LIQUID EFFLUENTS

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

<u>Isotope Others In Curies</u> (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	1.26E-06	*	7.94E-02	*
2.	Sb-122	*	*	*	*
3.	As-76	*	*	4.58E-04	*
4.	Be-7	*	*	*	*
5.	Sn-113	*	*	*	*
6.	La-141	*	*	*	*
7.	Tc-104	*	*	*	*
8.	Cs-139	*	*	*	*
9.	Ag-110m	9.25E-06	3.88E-06	2.91E-05	5.21E-06
10.	Nb-95	*	*	*	*
11.	Ru-103	*	*	*	*
12.	Sr-90	2.20E-07	2.37E-07	*	1.50E-05
13.	Sr-91	*	*	*	*
14.	Tc-101	*	*	*	*
15.	Y-92	*	*	9.54E-06	*
16.	Nb-97	*	*	3.76E-06	3.21E-06
17.	Kr-87	*	*	*	*
18.	Cu-64	*	*	1.24E-05	*
19.	I-133	*	*	4.30E-05	*
20.	La-142	*	*	*	*
21.	Mn-56	*	*	*	*
22.	Ru-106	*	*	2.06E-05	*

* - Not Detected.

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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 2016	July-Dec 2016	Error %
a. Spent resins, filters, filter sludge, evaporator bottoms, etc.	m ³	4.43E+01	5.63E+01	+/- 25%
	Ci	1.57E+03	1.99E+03	+/-25%
b. Dry compressible waste, contaminated equipment, etc.	m ³	1.31E+03	1.01E+03	+/- 25%
	Ci	4.62E+04	3.56E+04	+/- 25%
c. Irradiated Components, Control Rod blades & 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	m ³	0.00E+00	0.00E+00	+/- 25%
	Ci	0.00E+00	0.00E+00	+/- 25%

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Solid Waste

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

2. Estimate of Major Nuclide Composition

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

	<u>Nuclide</u>	<u>Percentage</u>	<u>Curies</u>
1)	H-3	3.27E-02	4.99E-02
2)	C-14	3.55E-01	5.41E-01
3)	Cr-51	1.55E-01	2.37E-01
4)	Mn-54	4.13E+00	6.30E+00
5)	Fe-55	1.16E+01	1.77E+01
6)	Fe-59	2.00E-02	3.05E-02
7)	Co-58	7.67E-01	1.17E+00
8)	Co-60	6.38E+01	9.73E+01
9)	Ni-63	4.99E-01	7.62E-01
10)	Zn-65	2.86E+00	4.37E+00
11)	Sr-89	2.28E-02	3.48E-02
12)	Sr-90	3.62E-02	5.52E-02
13)	Zr-95	1.19E-03	1.82E-03
14)	Nb-95	2.30E-03	3.51E-03
15)	Tc-99	1.49E-02	2.28E-02
16)	Ag-110m	2.08E+00	3.18E+00
17)	Sb-124	3.04E-03	4.64E-03
18)	I-129	6.02E-04	9.19E-04
19)	I-131	5.70E-03	8.70E-03
20)	Cs-134	6.55E-01	9.99E-01
21)	Cs-137	1.27E+01	1.94E+01
22)	Ba-140	1.11E-02	1.69E-02
23)	La-140	2.44E-05	3.72E-05
24)	Ce-141	6.75E-03	1.03E-02
25)	Ce-144	2.56E-01	3.91E-01

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Solid Waste

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

2. Estimate of Major Nuclide Composition (Continued)

**a. Spent resins, filters, filter sludge,
evaporator bottoms, etc. (Continued)**

	<u>Nuclide</u>	<u>Percentage</u>	<u>Curies</u>
26)	Au-199	3.54E-08	5.40E-08
27)	Pu-238	2.52E-06	3.84E-06
28)	Pu-239	1.02E-06	1.55E-06
29)	Pu-241	8.65E-03	1.32E-02
30)	Am-241	1.53E-04	2.33E-04
31)	Cm-242	3.36E-05	5.13E-05
32)	Cm-243	7.93E-05	1.21E-04

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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)

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

	<u>Nuclide</u>	<u>Percentage</u>	<u>Curies</u>
1)	H-3	3.49E-02	1.37E-03
2)	C-14	4.67E-03	1.83E-04
3)	Cr-51	8.34E-01	3.27E-02
4)	Mn-54	2.65E+00	1.04E-01
5)	Fe-55	2.34E+01	9.19E-01
6)	Fe-59	8.82E-02	3.46E-03
7)	Co-58	6.40E-01	2.51E-02
8)	Co-60	6.09E+01	2.39E+00
9)	Ni-63	9.76E-01	3.83E-02
10)	Zn-65	1.96E+00	7.68E-02
11)	Sr-90	3.65E-02	1.43E-03
12)	Zr-95	0.00E+00	0.00E+00
13)	Nb-95	4.87E-02	1.91E-03
14)	Tc-99	3.03E-02	1.19E-03
15)	Ag-110m	1.98E+00	7.75E-02
16)	Sb-124	0.00E+00	0.00E+00
17)	I-129	3.16E-03	1.24E-04
18)	Cs-134	5.15E-01	2.02E-02
19)	Cs-137	5.68E+00	2.23E-01
20)	Ce-144	1.47E-01	5.76E-03
21)	Pu-238	2.40E-04	9.43E-06
22)	Pu-239	1.23E-04	4.81E-06
23)	Pu-241	1.35E-02	5.29E-04
24)	Am-241	2.70E-03	1.06E-04
25)	Cm-244	6.25E-04	2.45E-05

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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, LPRM's
with fission chambers**

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

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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)

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

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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>
3	Hittman	Alaron Corporation
47	Hittman	Energy Solutions Inc.
50	Interstate Ventures, Inc.	Toxco, Inc
2	TVA Transportation Services	Toxco, Inc
29	Hittman	Waste Control Specialist
18	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

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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:

≤ 5 mrad per quarter and
 ≤ 10 mrad per year for gamma radiation.
- and -
 ≤ 10 mrad per quarter and
 ≤ 20 mrad per year for beta radiation.

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

≤ 7.5 mrem per quarter and
 ≤ 15 mrem per year to any organ.

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

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

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

100 mrem per year.

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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 2016 Meteorological Data Tables 7A, 7B, 7C, and 7D.

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RADIOLOGICAL IMPACT

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 2016 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 2016 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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RADIOLOGICAL IMPACT

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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RADIOLOGICAL IMPACT

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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RADIOLOGICAL IMPACT

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 approximately 0.75 mrem/quarter during 2016.

The total annual dose commitment to a member of the public for 2016 was 3 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.

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

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RADIOLOGICAL IMPACT

9. Total Dose (continued)

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
Page 1 of 4
Doses from Airborne Effluents**

First Quarter

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location
External				
Gamma Air	3.66E-11 mrad	5 mrad	< 1 %	NNW/1650 meters
Beta Air	1.12E-10 mrad	10 mrad	< 1 %	NNW/1650 meters
Submersion				
Total Body	1.40E-03 mrem	NA	NA	ESE/1750 meters
Skin	1.65E-03 mrem	NA	NA	ESE/1750 meters
Organ Doses				
Child/Bone	5.90E-02 mrem	7.5 mrem	< 1 %	NNW/2290 meters
Child/Thyroid	5.69E-02 mrem	7.5 mrem	< 1 %	NNW/2290 meters
Child/Total Body	5.63E-02 mrem	7.5 mrem	< 1 %	NNW/2290 meters

Population Doses

Total Body Dose 2.17E-01 man-rem

Maximum Organ Dose (organ) 5.65E-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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RADIOLOGICAL IMPACT

**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	9.12E-12 mrad	5 mrad	< 1 %	N/1525 meters
Beta Air	2.79e-11 mrad	10 mrad	< 1 %	N/1525 meters
Submersion				
Total Body	3.11E-03 mrad	NA	NA	E/1410 meters
Skin	3.66E-03 mrad	NA	NA	E/1410 meters
Organ Doses				
Child/Bone	3.55E-02	7.5 mrem	< 1 %	N/2540 meters
Child/Thyroid	1.79E-02 mrem	7.5 mrem	< 1 %	N/2540 meters
Child/Total Body	1.81E-02 mrem	7.5 mrem	< 1 %	N/2540 meters

Population Doses

Total Body Dose 1.81E-01 man-rem

Maximum Organ Dose (organ) 6.49E-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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RADIOLOGICAL IMPACT

**TABLE 4 (Continued)
 Page 3 of 4
 Doses from Airborne Effluents**

Third Quarter

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location
External				
Gamma Air	7.37E-12 mrad	5 mrad	< 1 %	S/2250 meters
Beta Air	2.25E-11 mrad	10 mrad	< 1 %	S/2250 meters
Submersion				
Total Body	1.58E-03 mrad	NA	NA	NNW/1650 meters
Skin	1.86E-03 mrad	NA	NA	NNW/1650 meters
Organ Doses				
Child/Bone	3.54E-02	7.5 mrem	< 1 %	NE/3790 meters
Child/Thyroid	1.19E-02	7.5 mrem	< 1 %	N/2540 meters
Child/Total Body	1.16E-02	7.5 mrem	< 1 %	N/2540 meters

Population Doses

Total Body Dose 1.60E-01 man-rem

Maximum Organ Dose (organ) 7.02E-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).

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RADIOLOGICAL IMPACT

**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	1.40E-11 mrad	5 mrad	< 1 %	NNW/1650 meters
Beta Air	4.27E-11 mrad	10 mrad	< 1 %	NNW/1650 meters
Submersion				
Total Body	8.31E-04 mrad	NA	NA	NNW/1650 meters
Skin	9.78E-04 mrad	NA	NA	NNW/1650 meters
Organ Doses				
Child/ Bone	2.48E-02	7.5 mrem	< 1 %	NNW/3590 meters
Child/Thyroid	2.01E-02 mrem	7.5 mrem	< 1 %	N/2540 meters
Child /Total Body	2.00E-02 mrem	7.5 mrem	< 1 %	N/2540 meters

Population Doses

Total Body Dose 1.69E-01 man-rem

Maximum Organ Dose (organ) 4.87E-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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RADIOLOGICAL IMPACT

**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
Child	Total Body	Fish Ingestion	2.1e-06		
		Recreation	5.0E-06		
		Water Ingestion	9.6E-06		
		Total	1.7E-05	1.5 mrem	< 1 %
Teen	Liver	Fish Ingestion	1.4E-05		
		Recreation	5.0E-06		
		Water Ingestion	5.2E-06		
		Total	2.4E-05	5 mrem	< 1 %
Child	Thyroid	Fish Ingestion	1.2E-07		
		Recreation	5.0E-06		
		Water Ingestion	9.4E-06		
		Total	1.5E-05	5 mrem	< 1 %

Average Riverflow past BFN (cubic feet per second): 90195

Population Doses

Total Body Dose 7.2E-04 man-rem

Maximum Organ Dose (organ) 7.7E-04 man-rem (liver)

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

* Includes dose from abnormal releases.

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RADIOLOGICAL IMPACT

**Table 5 (Continued)
Page 2 of 4
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	6.2E-05		
		Recreation	1.6E-05		
		Water Ingestion	2.4E-05		
		Total	1.0E-04	1.5 mrem	< 1 %
Teen	Liver	Fish Ingestion	9.8E-05		
		Recreation	1.6E-05		
		Water Ingestion	1.8E-05		
		Total	1.3E-04	5 mrem	< 1 %
Child	Thyroid	Fish Ingestion	3.7E-07		
		Recreation	1.6E-05		
		Water Ingestion	3.0E-05		
		Total	4.6E-05	5 mrem	< 1 %

Average Riverflow past BFN (cubic feet per second): 11354

Population Doses

Total Body Dose 2.3E-03 man-rem

Maximum Organ Dose (organ) 2.7E-03 man-rem (liver)

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

* Includes dose from abnormal releases.

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RADIOLOGICAL IMPACT

**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	9.8E-04		
		Recreation	2.4E-04		
		Water Ingestion	8.3E-05		
		Total	1.3E-03	1.5 mrem	1 %
Adult	Liver	Fish Ingestion	1.5E-03		
		Recreation	2.4E-04		
		Water Ingestion	9.2E-05		
		Total	1.8E-03	5 mrem	< 1 %
Child	Thyroid	Fish Ingestion	3.0E-06		
		Recreation	2.4E-04		
		Water Ingestion	9.1E-05		
		Total	3.3E-04	5 mrem	< 1 %

Average Riverflow past BFN (cubic feet per second): 15271

Population Doses

Total Body Dose 3.2E-02 man-rem

Maximum Organ Dose (organ) 3.7E-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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RADIOLOGICAL IMPACT

**Table 5 (Continued)
Page 4 of 4
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	8.8E-03		
		Recreation	1.0E-03		
		Water Ingestion	2.0E-04		
		Total	1.0E-02	1.5 mrem	< 1 %
Teen	Liver	Fish Ingestion	1.4E-02		
		Recreation	1.0E-03		
		Water Ingestion	2.6E-04		
		Total	1.5E-02	5 mrem	< 1 %
Child	Thyroid	Fish Ingestion	6.1E-07		
		Recreation	1.0E-03		
		Water Ingestion	5.0E-05		
		Total	1.1E-03	5 mrem	< 1 %

Average Riverflow past BFN (cubic feet per second): 17169

Population Doses

Total Body Dose 1.6E-01 man-rem

Maximum Organ Dose (organ) 2.1E-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
Page 1 of 1
Total Dose from I-131 Water Ingestion Pathway**

Quarter	1	2	3	4	Totals
I-131 Ci	0	0	1.05E-05	0	1.05E-05
Infant/Thyroid (mrem)	0	0	6.7E-06	0	6.7E-06
Population/Thyroid (mrem)	0	0	4.1E-05	0	4.1E-05

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. There was no drinking water pathway dose from I-131 and the performance of the I-131 specific analysis is not required for BFN REMP drinking water samples.

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RADIOLOGICAL IMPACT

**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	1.40E-03	3.11E-03	1.58E-03	8.31E-04	
Critical organ dose (air)	5.9E-02	3.55E-02	3.54E-02	2.48E-02	
Total body dose (liquid)	1.7E-05	1.0E-04	1.3E-03	1.0E-02	
Maximum organ dose (liquid)	2.4E-05	1.3E-04	1.8E-03	1.5E-02	
Direct Radiation Dose	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
Total	6.04E-02	3.88E-02	4.01E-02	5.06E-02	
Cumulative Total Dose (mrem) (Total body or any other organ)					1.90E-01
Annual Dose Limit (mrem)					2.5E+01
Percent of Limit					< 1%
Thyroid Dose (mrem)					
Total body air submersion	1.40E-03	3.11E-03	1.58E-03	8.31E-04	
Thyroid dose (airborne)	5.69E-02	1.79E-02	1.19E-02	2.01E-02	
Total body dose (liquid)	1.7E-05	1.0E-04	1.3E-03	1.0E-02	
Thyroid dose (liquid)	1.5E-05	4.6E-05	3.3E-04	1.1E-03	
Direct Radiation Dose	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
Total	5.83E-02	2.12E-02	1.51E-02	3.20E-02	
Cumulative Total Dose (Thyroid) mrem					1.27E-01
Annual Dose Limit (mrem)					7.5E+01
Percent of Limit					< 1%

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BROWNS FERRY NUCLEAR PLANT

2016 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, 2016 - MAR 31, 2016

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	0.185	0.000	0.000	0.000	0.185
NNE	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
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	0.046	0.000	0.000	0.000	0.000	0.046
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	0.139	0.046	0.000	0.000	0.000	0.000	0.185
SE	0.000	0.000	0.046	0.231	0.000	0.000	0.000	0.000	0.000	0.278
SSE	0.000	0.000	0.231	0.556	0.000	0.000	0.000	0.000	0.000	0.787
S	0.000	0.000	0.278	0.231	0.417	0.046	0.000	0.000	0.000	0.972
SSW	0.000	0.000	0.093	0.417	0.093	0.000	0.000	0.000	0.000	0.602
SW	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.093
WSW	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.093
W	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
NNW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
SUBTOTAL	0.000	0.000	0.694	1.759	0.602	0.417	0.000	0.000	0.000	3.472

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2160
TOTAL HOURS OF STABILITY CLASS A	75
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	75
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2160
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: 2016/05/06

MEAN WIND SPEED = 4.98

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2016 - MAR 31, 2016

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	0.231	0.000	0.000	0.000	0.231
NNE	0.000	0.000	0.000	0.000	0.046	0.093	0.000	0.000	0.000	0.139
NE	0.000	0.000	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.093
ENE	0.000	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.093
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.093
SE	0.000	0.000	0.046	0.093	0.046	0.000	0.000	0.000	0.000	0.185
SSE	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.000	0.093
S	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
SSW	0.000	0.000	0.046	0.093	0.046	0.000	0.000	0.000	0.000	0.185
SW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
WSW	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
W	0.000	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.093
WNW	0.000	0.000	0.000	0.000	0.000	0.139	0.278	0.000	0.000	0.417
NW	0.000	0.000	0.000	0.000	0.000	0.139	0.139	0.000	0.000	0.278
NNW	0.000	0.000	0.000	0.000	0.000	0.046	0.139	0.000	0.000	0.185
SUBTOTAL	0.000	0.000	0.185	0.324	0.417	0.741	0.556	0.000	0.000	2.222

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2160
TOTAL HOURS OF STABILITY CLASS B	48
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	48
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2160
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: 2016/05/06

MEAN WIND SPEED = 8.84

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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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, 2016 - MAR 31, 2016

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	0.046	0.093	0.000	0.000	0.000	0.185
NNE	0.000	0.000	0.000	0.000	0.093	0.046	0.000	0.000	0.000	0.139
NE	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
ENE	0.000	0.000	0.000	0.000	0.139	0.046	0.000	0.000	0.000	0.185
E	0.000	0.000	0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.093
ESE	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.093
SE	0.000	0.000	0.139	0.093	0.046	0.000	0.000	0.000	0.000	0.278
SSE	0.000	0.000	0.093	0.046	0.000	0.000	0.000	0.000	0.000	0.139
S	0.000	0.000	0.185	0.000	0.046	0.000	0.000	0.000	0.000	0.231
SSW	0.000	0.000	0.046	0.093	0.000	0.000	0.000	0.000	0.000	0.139
SW	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.000	0.093
WSW	0.000	0.000	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.093
W	0.000	0.000	0.000	0.000	0.093	0.093	0.000	0.000	0.000	0.185
WNW	0.000	0.000	0.000	0.000	0.093	0.370	0.417	0.000	0.000	0.880
NW	0.000	0.000	0.000	0.000	0.046	0.324	0.139	0.000	0.000	0.509
NNW	0.000	0.000	0.000	0.000	0.093	0.231	0.000	0.000	0.000	0.324
SUBTOTAL	0.000	0.000	0.602	0.370	0.787	1.296	0.556	0.000	0.000	3.611

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2160
TOTAL HOURS OF STABILITY CLASS C	78
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	78
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2160
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: 2016/05/06

MEAN WIND SPEED = 8.15

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2016 - MAR 31, 2016

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	0.185	0.602	0.741	0.370	0.000	0.000	0.000	1.898
NNE	0.000	0.000	0.231	1.019	0.463	0.370	0.000	0.000	0.000	2.083
NE	0.000	0.000	0.278	0.509	0.417	0.139	0.000	0.000	0.000	1.343
ENE	0.000	0.000	0.602	0.833	0.370	0.000	0.000	0.000	0.000	1.806
E	0.000	0.000	0.185	0.278	0.093	0.000	0.000	0.000	0.000	0.556
ESE	0.000	0.000	0.185	0.509	0.278	0.000	0.000	0.000	0.000	0.972
SE	0.000	0.046	0.556	0.556	0.139	0.000	0.000	0.000	0.000	1.296
SSE	0.000	0.000	0.648	0.417	0.000	0.000	0.000	0.000	0.000	1.065
S	0.000	0.000	0.694	0.556	0.417	0.046	0.000	0.000	0.000	1.713
SSW	0.000	0.000	0.185	0.093	0.417	0.000	0.000	0.000	0.000	0.694
SW	0.000	0.000	0.278	0.278	0.046	0.000	0.000	0.000	0.000	0.602
WSW	0.000	0.000	0.278	0.556	0.093	0.139	0.000	0.000	0.000	1.065
W	0.000	0.000	0.278	0.833	0.556	0.741	0.093	0.000	0.000	2.500
WNW	0.000	0.000	0.185	0.509	0.880	1.759	1.713	0.093	0.000	5.139
NW	0.000	0.000	0.185	0.278	0.833	3.287	1.667	0.000	0.000	6.250
NNW	0.000	0.000	0.602	0.417	1.574	1.898	0.880	0.000	0.000	5.370
SUBTOTAL	0.000	0.046	5.556	8.241	7.315	8.750	4.352	0.093	0.000	34.352

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2160
TOTAL HOURS OF STABILITY CLASS D	742
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	742
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2160
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: 2016/05/06

MEAN WIND SPEED = 7.28

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2016 - MAR 31, 2016

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	0.139	0.648	0.231	0.231	0.139	0.000	0.000	0.000	1.389
NNE	0.000	0.046	0.556	0.417	0.417	0.185	0.000	0.000	0.000	1.620
NE	0.000	0.046	0.556	0.509	0.417	0.324	0.000	0.000	0.000	1.852
ENE	0.000	0.185	0.556	0.370	0.093	0.046	0.046	0.000	0.000	1.296
E	0.000	0.093	1.296	0.231	0.046	0.000	0.000	0.000	0.000	1.667
ESE	0.000	0.000	0.556	0.926	0.231	0.231	0.000	0.000	0.000	1.944
SE	0.000	0.185	0.880	1.065	0.093	0.000	0.000	0.000	0.000	2.222
SSE	0.000	0.139	1.435	0.694	0.046	0.000	0.000	0.000	0.000	2.315
S	0.000	0.046	1.574	1.667	0.833	0.463	0.000	0.000	0.000	4.583
SSW	0.000	0.185	0.694	0.324	0.463	0.185	0.000	0.000	0.000	1.852
SW	0.000	0.093	0.648	0.231	0.046	0.093	0.000	0.000	0.000	1.111
WSW	0.000	0.093	0.509	0.556	0.046	0.000	0.000	0.000	0.000	1.204
W	0.000	0.139	0.648	0.694	0.231	0.139	0.000	0.000	0.000	1.852
WNW	0.000	0.046	0.231	0.000	0.185	0.231	0.000	0.000	0.000	0.694
NW	0.000	0.093	0.231	0.463	1.019	0.741	0.046	0.000	0.000	2.593
NNW	0.000	0.046	0.648	0.741	1.528	0.556	0.000	0.000	0.000	3.519
SUBTOTAL	0.000	1.574	11.667	9.120	5.926	3.333	0.093	0.000	0.000	31.713

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2160
TOTAL HOURS OF STABILITY CLASS E	685
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	685
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2160
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: 2016/05/06

MEAN WIND SPEED = 4.35

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2016 - MAR 31, 2016

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	0.093	0.880	0.324	0.000	0.000	0.000	0.000	0.000	1.296
NNE	0.000	0.046	0.556	0.417	0.046	0.000	0.000	0.000	0.000	1.065
NE	0.000	0.231	0.093	0.046	0.000	0.000	0.000	0.000	0.000	0.370
ENE	0.000	0.093	0.185	0.093	0.000	0.000	0.000	0.000	0.000	0.370
E	0.000	0.000	0.324	0.185	0.000	0.000	0.000	0.000	0.000	0.509
ESE	0.000	0.139	0.278	0.139	0.000	0.000	0.000	0.000	0.000	0.556
SE	0.000	0.139	1.296	0.463	0.046	0.000	0.000	0.000	0.000	1.944
SSE	0.000	0.278	2.037	0.463	0.046	0.000	0.000	0.000	0.000	2.824
S	0.000	0.185	1.250	1.991	1.250	0.046	0.000	0.000	0.000	4.722
SSW	0.000	0.000	0.370	0.139	0.278	0.046	0.000	0.000	0.000	0.833
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	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
WNW	0.000	0.185	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.231
NW	0.000	0.046	0.231	0.185	0.000	0.000	0.000	0.000	0.000	0.463
NNW	0.000	0.093	0.417	0.278	0.093	0.046	0.000	0.000	0.000	0.926
SUBTOTAL	0.000	1.574	7.963	4.722	1.759	0.139	0.000	0.000	0.000	16.157

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2160
TOTAL HOURS OF STABILITY CLASS F	349
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	349
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2160
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: 2016/05/06

MEAN WIND SPEED = 3.35

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, 2016 - MAR 31, 2016

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	0.278	0.463	0.139	0.000	0.000	0.000	0.000	0.000	0.880
NNE	0.000	0.278	0.093	0.139	0.000	0.000	0.000	0.000	0.000	0.509
NE	0.000	0.139	0.139	0.000	0.000	0.000	0.000	0.000	0.000	0.278
ENE	0.000	0.000	0.139	0.000	0.000	0.000	0.000	0.000	0.000	0.139
E	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.093
ESE	0.000	0.093	0.093	0.000	0.000	0.000	0.000	0.000	0.000	0.185
SE	0.000	0.000	0.231	0.139	0.000	0.000	0.000	0.000	0.000	0.370
SSE	0.000	0.324	2.269	0.648	0.000	0.000	0.000	0.000	0.000	3.241
S	0.000	0.046	1.065	0.556	0.231	0.000	0.000	0.000	0.000	1.898
SSW	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.093
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	0.093	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.093
NW	0.000	0.093	0.139	0.046	0.000	0.000	0.000	0.000	0.000	0.278
NNW	0.000	0.185	0.231	0.000	0.000	0.000	0.000	0.000	0.000	0.417
SUBTOTAL	0.000	1.667	4.907	1.667	0.231	0.000	0.000	0.000	0.000	8.472

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2160
TOTAL HOURS OF STABILITY CLASS G	183
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	183
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2160
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: 2016/05/06

MEAN WIND SPEED = 2.59

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
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BROWNS FERRY NUCLEAR PLANT

2016 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, 2016 - JUN 30, 2016

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	0.092	0.321	0.000	0.000	0.000	0.413
NNE	0.000	0.000	0.000	0.000	0.092	0.275	0.000	0.000	0.000	0.367
NE	0.000	0.000	0.000	0.000	0.046	0.138	0.000	0.000	0.000	0.184
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	0.092	0.184	0.643	0.000	0.000	0.000	0.000	0.918
SE	0.000	0.000	0.505	1.194	0.321	0.000	0.000	0.000	0.000	2.020
SSE	0.000	0.000	0.918	0.643	0.000	0.000	0.000	0.000	0.000	1.561
S	0.000	0.000	1.286	0.689	0.046	0.000	0.000	0.000	0.000	2.020
SSW	0.000	0.000	0.505	0.781	0.000	0.000	0.000	0.000	0.000	1.286
SW	0.000	0.000	0.046	0.413	0.000	0.000	0.000	0.000	0.000	0.459
WSW	0.000	0.000	0.000	0.551	0.046	0.000	0.000	0.000	0.000	0.597
W	0.000	0.000	0.000	0.138	0.459	0.230	0.000	0.000	0.000	0.826
WNW	0.000	0.000	0.000	0.000	0.000	0.138	0.092	0.000	0.000	0.230
NW	0.000	0.000	0.000	0.046	0.046	0.230	0.551	0.046	0.000	0.918
NNW	0.000	0.000	0.000	0.000	0.092	0.275	0.000	0.000	0.000	0.367
SUBTOTAL	0.000	0.000	3.352	4.637	1.882	1.607	0.643	0.046	0.000	12.167

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS A	265
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	265
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2178
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: 2016/08/05

MEAN WIND SPEED = 5.42

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

BROWNS FERRY NUCLEAR PLANT

APR 1, 2016 - JUN 30, 2016

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	0.321	0.230	0.000	0.000	0.000	0.551
NNE	0.000	0.000	0.000	0.000	0.184	0.138	0.000	0.000	0.000	0.321
NE	0.000	0.000	0.000	0.000	0.230	0.230	0.000	0.000	0.000	0.459
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	0.092	0.092	0.046	0.000	0.000	0.000	0.000	0.230
SE	0.000	0.000	0.459	0.184	0.046	0.000	0.000	0.000	0.000	0.689
SSE	0.000	0.000	0.321	0.000	0.000	0.000	0.000	0.000	0.000	0.321
S	0.000	0.000	0.321	0.275	0.000	0.000	0.000	0.000	0.000	0.597
SSW	0.000	0.000	0.413	0.275	0.000	0.000	0.000	0.000	0.000	0.689
SW	0.000	0.000	0.275	0.230	0.000	0.000	0.000	0.000	0.000	0.505
WSW	0.000	0.000	0.046	0.275	0.046	0.000	0.000	0.000	0.000	0.367
W	0.000	0.000	0.000	0.092	0.184	0.138	0.000	0.000	0.000	0.413
WNW	0.000	0.000	0.000	0.000	0.000	0.367	0.230	0.000	0.000	0.597
NW	0.000	0.000	0.000	0.000	0.230	0.321	0.138	0.000	0.000	0.689
NNW	0.000	0.000	0.000	0.000	0.138	0.551	0.092	0.000	0.000	0.781
SUBTOTAL	0.000	0.000	1.928	1.423	1.423	1.974	0.459	0.000	0.000	7.208

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS B	157
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	157
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2178
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: 2016/08/05

MEAN WIND SPEED = 6.27

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

BROWNS FERRY NUCLEAR PLANT

APR 1, 2016 - JUN 30, 2016

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	0.138	0.092	0.000	0.000	0.000	0.275
NNE	0.000	0.000	0.000	0.000	0.092	0.092	0.000	0.000	0.000	0.184
NE	0.000	0.000	0.000	0.184	0.092	0.046	0.000	0.000	0.000	0.321
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	0.092	0.046	0.000	0.000	0.000	0.000	0.000	0.138
ESE	0.000	0.000	0.000	0.092	0.092	0.000	0.000	0.000	0.000	0.184
SE	0.000	0.000	0.184	0.092	0.000	0.000	0.000	0.000	0.000	0.275
SSE	0.000	0.000	0.597	0.092	0.000	0.000	0.000	0.000	0.000	0.689
S	0.000	0.000	0.230	0.000	0.000	0.000	0.000	0.000	0.000	0.230
SSW	0.000	0.000	0.184	0.184	0.000	0.000	0.000	0.000	0.000	0.367
SW	0.000	0.000	0.230	0.092	0.000	0.000	0.000	0.000	0.000	0.321
WSW	0.000	0.000	0.092	0.321	0.000	0.000	0.000	0.000	0.000	0.413
W	0.000	0.000	0.000	0.046	0.459	0.184	0.000	0.000	0.000	0.689
WNW	0.000	0.000	0.046	0.000	0.138	0.505	0.321	0.000	0.000	1.010
NW	0.000	0.000	0.000	0.046	0.184	0.689	0.092	0.000	0.000	1.010
NNW	0.000	0.000	0.000	0.000	0.321	0.413	0.046	0.000	0.000	0.781
SUBTOTAL	0.000	0.000	1.653	1.240	1.515	2.020	0.459	0.000	0.000	6.887

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS C	150
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	150
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2178
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: 2016/08/05

MEAN WIND SPEED = 6.46

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

BROWNS FERRY NUCLEAR PLANT

APR 1, 2016 - JUN 30, 2016

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	0.459	0.275	0.689	0.230	0.000	0.000	0.000	1.653
NNE	0.000	0.000	0.138	0.367	0.413	0.275	0.000	0.000	0.000	1.194
NE	0.000	0.046	0.092	0.551	0.551	0.092	0.000	0.000	0.000	1.331
ENE	0.000	0.000	0.230	0.092	0.046	0.000	0.000	0.000	0.000	0.367
E	0.000	0.046	0.138	0.321	0.092	0.000	0.000	0.000	0.000	0.597
ESE	0.000	0.000	0.597	0.505	0.781	0.046	0.000	0.000	0.000	1.928
SE	0.000	0.000	0.918	0.230	0.138	0.000	0.000	0.000	0.000	1.286
SSE	0.000	0.000	1.286	0.092	0.000	0.000	0.000	0.000	0.000	1.377
S	0.000	0.046	1.791	0.275	0.046	0.000	0.000	0.000	0.000	2.158
SSW	0.000	0.000	2.709	0.413	0.000	0.000	0.000	0.000	0.000	3.122
SW	0.000	0.046	0.918	0.000	0.000	0.000	0.000	0.000	0.000	0.964
WSW	0.000	0.000	1.056	0.689	0.046	0.046	0.000	0.000	0.000	1.837
W	0.000	0.000	0.643	1.653	0.735	0.275	0.000	0.000	0.000	3.306
WNW	0.000	0.000	0.046	0.321	0.505	1.469	0.230	0.000	0.000	2.571
NW	0.000	0.000	0.092	0.275	0.689	1.423	0.230	0.000	0.000	2.709
NNW	0.000	0.000	0.275	0.275	0.689	0.367	0.046	0.000	0.000	1.653
SUBTOTAL	0.000	0.184	11.387	6.336	5.418	4.224	0.505	0.000	0.000	28.053

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS D	611
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	611
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2178
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: 2016/08/05

MEAN WIND SPEED = 4.86

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

BROWNS FERRY NUCLEAR PLANT

APR 1, 2016 - JUN 30, 2016

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	0.046	0.597	0.459	0.138	0.138	0.000	0.000	0.000	1.377
NNE	0.000	0.092	0.459	0.413	0.597	0.000	0.000	0.000	0.000	1.561
NE	0.000	0.230	0.367	0.092	0.138	0.092	0.000	0.000	0.000	0.918
ENE	0.000	0.046	0.781	0.321	0.138	0.000	0.000	0.000	0.000	1.286
E	0.000	0.321	1.561	1.010	0.000	0.000	0.000	0.000	0.000	2.893
ESE	0.000	0.184	1.653	1.240	0.321	0.000	0.000	0.000	0.000	3.398
SE	0.000	0.092	0.964	0.000	0.092	0.000	0.000	0.000	0.000	1.148
SSE	0.000	0.138	1.010	0.046	0.000	0.000	0.000	0.000	0.000	1.194
S	0.000	0.413	2.663	0.230	0.092	0.000	0.000	0.000	0.000	3.398
SSW	0.000	0.092	1.377	0.138	0.000	0.000	0.000	0.000	0.000	1.607
SW	0.000	0.184	0.321	0.000	0.000	0.000	0.000	0.000	0.000	0.505
WSW	0.000	0.092	0.689	0.138	0.046	0.000	0.000	0.000	0.000	0.964
W	0.000	0.046	0.826	0.781	0.275	0.138	0.000	0.000	0.000	2.066
WNW	0.000	0.046	0.092	0.230	0.184	0.184	0.000	0.000	0.000	0.735
NW	0.000	0.000	0.275	0.184	0.230	0.275	0.000	0.000	0.000	0.964
NNW	0.000	0.000	0.826	0.689	0.551	0.184	0.000	0.000	0.000	2.250
SUBTOTAL	0.000	2.020	14.463	5.969	2.801	1.010	0.000	0.000	0.000	26.263

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS E	572
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	572
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2178
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: 2016/08/05

MEAN WIND SPEED = 3.38

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

BROWNS FERRY NUCLEAR PLANT

APR 1, 2016 - JUN 30, 2016

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	0.321	1.837	0.597	0.046	0.000	0.000	0.000	0.000	2.801
NNE	0.000	0.092	0.413	0.275	0.000	0.000	0.000	0.000	0.000	0.781
NE	0.000	0.184	0.551	0.184	0.092	0.000	0.000	0.000	0.000	1.010
ENE	0.000	0.184	0.781	0.275	0.000	0.000	0.000	0.000	0.000	1.240
E	0.000	0.551	1.010	0.275	0.000	0.000	0.000	0.000	0.000	1.837
ESE	0.000	0.184	0.689	0.138	0.046	0.000	0.000	0.000	0.000	1.056
SE	0.000	0.321	0.230	0.000	0.000	0.000	0.000	0.000	0.000	0.551
SSE	0.000	0.184	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.230
S	0.000	0.138	0.505	0.000	0.000	0.000	0.000	0.000	0.000	0.643
SSW	0.000	0.000	0.138	0.000	0.000	0.000	0.000	0.000	0.000	0.138
SW	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.092
WSW	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.092
W	0.000	0.092	0.230	0.000	0.000	0.000	0.000	0.000	0.000	0.321
WNW	0.000	0.046	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.138
NW	0.000	0.138	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.138
NNW	0.000	0.230	1.010	0.551	0.046	0.000	0.000	0.000	0.000	1.837
SUBTOTAL	0.000	2.801	7.576	2.296	0.230	0.000	0.000	0.000	0.000	12.902

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS F	281
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	281
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2178
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: 2016/08/05

MEAN WIND SPEED = 2.50

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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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, 2016 - JUN 30, 2016

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	0.413	0.872	0.275	0.000	0.000	0.000	0.000	0.000	1.561
NNE	0.000	0.781	0.230	0.092	0.000	0.000	0.000	0.000	0.000	1.102
NE	0.000	0.367	0.367	0.000	0.000	0.000	0.000	0.000	0.000	0.735
ENE	0.000	0.367	0.184	0.092	0.000	0.000	0.000	0.000	0.000	0.643
E	0.000	0.184	0.184	0.000	0.000	0.000	0.000	0.000	0.000	0.367
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	0.000	0.000	0.000	0.000	0.000	0.000	0.092
SSE	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
S	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.092
SSW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
SW	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
WNW	0.000	0.092	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.184
NW	0.000	0.413	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.459
NNW	0.000	0.459	0.643	0.000	0.000	0.000	0.000	0.000	0.000	1.102
SUBTOTAL	0.000	3.260	2.801	0.459	0.000	0.000	0.000	0.000	0.000	6.520

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS G	142
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	142
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2178
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: 2016/08/05

MEAN WIND SPEED = 1.71

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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BROWNS FERRY NUCLEAR PLANT

2016 METEOROLOGICAL DATA

TABLE 7C

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR GROUND LEVEL RELEASES

THIRD 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

JUL 1, 2016 - SEP 30, 2016

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	0.457	0.822	0.000	0.000	0.000	1.325
NNE	0.000	0.000	0.000	0.091	0.183	0.228	0.000	0.000	0.000	0.503
NE	0.000	0.000	0.000	0.000	0.046	0.228	0.000	0.000	0.000	0.274
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
ESE	0.000	0.000	0.046	0.411	0.228	0.046	0.000	0.000	0.000	0.731
SE	0.000	0.000	0.777	1.233	0.000	0.000	0.000	0.000	0.000	2.010
SSE	0.000	0.000	1.279	1.279	0.000	0.000	0.000	0.000	0.000	2.558
S	0.000	0.000	1.873	0.777	0.000	0.000	0.000	0.000	0.000	2.650
SSW	0.000	0.000	0.640	0.503	0.000	0.000	0.000	0.000	0.000	1.142
SW	0.000	0.000	0.091	0.183	0.000	0.000	0.000	0.000	0.000	0.274
WSW	0.000	0.000	0.046	0.685	0.320	0.046	0.000	0.000	0.000	1.096
W	0.000	0.000	0.000	0.183	0.503	0.228	0.000	0.000	0.000	0.914
WNW	0.000	0.000	0.046	0.000	0.183	0.411	0.000	0.000	0.000	0.640
NW	0.000	0.000	0.000	0.000	0.137	0.274	0.000	0.000	0.000	0.411
NNW	0.000	0.000	0.000	0.000	0.137	0.365	0.000	0.000	0.000	0.503
SUBTOTAL	0.000	0.000	4.797	5.436	2.193	2.650	0.000	0.000	0.000	15.075

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2189
TOTAL HOURS OF STABILITY CLASS A	330
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	330
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
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: 2017/01/10

MEAN WIND SPEED = 4.94

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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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

JUL 1, 2016 - SEP 30, 2016

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	0.137	0.183	0.091	0.000	0.000	0.000	0.411
NNE	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
NE	0.000	0.000	0.000	0.091	0.046	0.000	0.000	0.000	0.000	0.137
ENE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.137	0.274	0.091	0.000	0.000	0.000	0.000	0.503
SE	0.000	0.000	0.320	0.411	0.000	0.000	0.000	0.000	0.000	0.731
SSE	0.000	0.000	0.411	0.183	0.000	0.000	0.000	0.000	0.000	0.594
S	0.000	0.000	0.457	0.228	0.000	0.000	0.000	0.000	0.000	0.685
SSW	0.000	0.000	0.640	0.228	0.000	0.000	0.000	0.000	0.000	0.868
SW	0.000	0.000	0.137	0.183	0.000	0.000	0.000	0.000	0.000	0.320
WSW	0.000	0.000	0.046	0.457	0.228	0.000	0.000	0.000	0.000	0.731
W	0.000	0.000	0.046	0.457	0.503	0.137	0.000	0.000	0.000	1.142
WNW	0.000	0.000	0.000	0.046	0.228	0.320	0.000	0.000	0.000	0.594
NW	0.000	0.000	0.000	0.137	0.091	0.137	0.000	0.000	0.000	0.365
NNW	0.000	0.000	0.000	0.046	0.046	0.091	0.000	0.000	0.000	0.183
SUBTOTAL	0.000	0.000	2.193	2.924	1.462	0.777	0.000	0.000	0.000	7.355

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2189
TOTAL HOURS OF STABILITY CLASS B	161
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	161
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
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: 2017/01/10

MEAN WIND SPEED = 4.71

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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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, 2016 - SEP 30, 2016

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	0.046	0.046	0.000	0.000	0.000	0.137
NNE	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
NE	0.000	0.000	0.000	0.046	0.137	0.091	0.000	0.000	0.000	0.274
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.091
ESE	0.000	0.000	0.137	0.365	0.091	0.000	0.000	0.000	0.000	0.594
SE	0.000	0.000	0.548	0.046	0.000	0.000	0.000	0.000	0.000	0.594
SSE	0.000	0.000	0.365	0.000	0.000	0.000	0.000	0.000	0.000	0.365
S	0.000	0.000	0.411	0.137	0.000	0.000	0.000	0.000	0.000	0.548
SSW	0.000	0.000	0.548	0.183	0.000	0.000	0.000	0.000	0.000	0.731
SW	0.000	0.000	0.594	0.000	0.000	0.000	0.000	0.000	0.000	0.594
WSW	0.000	0.000	0.137	0.411	0.091	0.000	0.000	0.000	0.000	0.640
W	0.000	0.000	0.000	0.457	0.320	0.046	0.000	0.000	0.000	0.822
WNW	0.000	0.000	0.000	0.091	0.183	0.183	0.000	0.000	0.000	0.457
NW	0.000	0.000	0.000	0.137	0.137	0.000	0.046	0.000	0.000	0.320
NNW	0.000	0.000	0.000	0.000	0.091	0.046	0.000	0.000	0.000	0.137
SUBTOTAL	0.000	0.000	2.787	1.964	1.142	0.411	0.046	0.000	0.000	6.350

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2189
TOTAL HOURS OF STABILITY CLASS C	139
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	139
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
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: 2017/01/10

MEAN WIND SPEED = 4.33

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

BROWNS FERRY NUCLEAR PLANT

JUL 1, 2016 - SEP 30, 2016

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	0.228	0.685	0.320	0.183	0.000	0.000	0.000	1.416
NNE	0.000	0.000	0.137	0.548	0.411	0.137	0.000	0.000	0.000	1.233
NE	0.000	0.046	0.274	0.503	0.320	0.228	0.000	0.000	0.000	1.370
ENE	0.000	0.000	0.274	0.274	0.183	0.000	0.000	0.000	0.000	0.731
E	0.000	0.000	0.457	0.594	0.183	0.000	0.000	0.000	0.000	1.233
ESE	0.000	0.046	0.685	1.188	0.274	0.000	0.000	0.000	0.000	2.193
SE	0.000	0.000	1.096	0.091	0.000	0.000	0.000	0.000	0.000	1.188
SSE	0.000	0.046	1.964	0.091	0.000	0.000	0.000	0.000	0.000	2.101
S	0.000	0.137	2.924	0.183	0.000	0.000	0.000	0.000	0.000	3.243
SSW	0.000	0.046	2.695	0.365	0.000	0.000	0.000	0.000	0.000	3.106
SW	0.000	0.000	1.416	0.000	0.000	0.000	0.000	0.000	0.000	1.416
WSW	0.000	0.046	1.370	0.822	0.183	0.000	0.000	0.000	0.000	2.421
W	0.000	0.000	0.640	1.005	0.503	0.228	0.000	0.000	0.000	2.376
WNW	0.000	0.046	0.320	0.594	0.091	0.411	0.000	0.000	0.000	1.462
NW	0.000	0.000	0.183	0.091	0.046	0.183	0.000	0.000	0.000	0.503
NNW	0.000	0.000	0.183	0.183	0.274	0.274	0.000	0.000	0.000	0.914
SUBTOTAL	0.000	0.411	14.847	7.218	2.787	1.645	0.000	0.000	0.000	26.907

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2189
TOTAL HOURS OF STABILITY CLASS D	589
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	589
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
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: 2017/01/10

MEAN WIND SPEED = 3.71

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

BROWNS FERRY NUCLEAR PLANT

JUL 1, 2016 - SEP 30, 2016

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	0.046	1.279	1.096	0.046	0.000	0.000	0.000	0.000	2.467
NNE	0.000	0.137	0.822	1.233	0.457	0.091	0.000	0.000	0.000	2.741
NE	0.000	0.411	0.685	0.685	0.594	0.183	0.000	0.000	0.000	2.558
ENE	0.000	0.228	1.370	0.548	0.091	0.000	0.000	0.000	0.000	2.238
E	0.000	0.274	1.645	0.777	0.137	0.000	0.000	0.000	0.000	2.832
ESE	0.000	0.137	1.690	0.365	0.000	0.000	0.000	0.000	0.000	2.193
SE	0.000	0.320	0.822	0.000	0.000	0.000	0.000	0.000	0.000	1.142
SSE	0.000	0.457	0.411	0.046	0.000	0.000	0.000	0.000	0.000	0.914
S	0.000	0.365	1.279	0.046	0.000	0.000	0.000	0.000	0.000	1.690
SSW	0.000	0.320	1.416	0.183	0.000	0.000	0.000	0.000	0.000	1.919
SW	0.000	0.183	0.503	0.000	0.000	0.000	0.000	0.000	0.000	0.685
WSW	0.000	0.091	0.594	0.091	0.000	0.000	0.000	0.000	0.000	0.777
W	0.000	0.000	0.457	0.503	0.091	0.000	0.000	0.000	0.000	1.051
WNW	0.000	0.000	0.274	0.046	0.046	0.000	0.000	0.000	0.000	0.365
NW	0.000	0.137	0.274	0.137	0.000	0.046	0.000	0.000	0.000	0.594
NNW	0.000	0.046	0.503	0.365	0.274	0.000	0.000	0.000	0.000	1.188
SUBTOTAL	0.000	3.152	14.025	6.122	1.736	0.320	0.000	0.000	0.000	25.354

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2189
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	2189
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: 2017/01/10

MEAN WIND SPEED = 3.00

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

BROWNS FERRY NUCLEAR PLANT

JUL 1, 2016 - SEP 30, 2016

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	0.137	1.325	0.503	0.000	0.000	0.000	0.000	0.000	1.964
NNE	0.000	0.365	1.279	0.777	0.228	0.000	0.000	0.000	0.000	2.650
NE	0.000	0.091	1.279	0.228	0.046	0.000	0.000	0.000	0.000	1.645
ENE	0.000	0.046	1.370	0.183	0.000	0.000	0.000	0.000	0.000	1.599
E	0.000	0.320	1.827	0.320	0.000	0.000	0.000	0.000	0.000	2.467
ESE	0.000	0.228	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.548
SE	0.000	0.091	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.228
SSE	0.000	0.183	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.503
S	0.000	0.091	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.183
SSW	0.000	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.137
SW	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.091
WSW	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.091
W	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.091
WNW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
NW	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.091
NNW	0.000	0.091	0.320	0.046	0.000	0.000	0.000	0.000	0.000	0.457
SUBTOTAL	0.000	1.873	8.543	2.101	0.274	0.000	0.000	0.000	0.000	12.791

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2189
TOTAL HOURS OF STABILITY CLASS F	280
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	280
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
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: 2017/01/10

MEAN WIND SPEED = 2.54

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

JUL 1, 2016 - SEP 30, 2016

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	0.015	1.051	0.822	0.046	0.000	0.000	0.000	0.000	0.000	1.933
NNE	0.007	0.503	0.365	0.046	0.000	0.000	0.000	0.000	0.000	0.920
NE	0.004	0.137	0.411	0.000	0.000	0.000	0.000	0.000	0.000	0.552
ENE	0.006	0.228	0.503	0.046	0.046	0.000	0.000	0.000	0.000	0.828
E	0.003	0.091	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.414
ESE	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.092
SE	0.001	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.138
SSE	0.001	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.138
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
W	0.001	0.091	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.138
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.002	0.183	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.276
NNW	0.005	0.457	0.183	0.000	0.000	0.000	0.000	0.000	0.000	0.645
SUBTOTAL	0.046	3.061	2.787	0.183	0.091	0.000	0.000	0.000	0.000	6.167

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2189
TOTAL HOURS OF STABILITY CLASS G	135
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	135
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
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: 2017/01/10

MEAN WIND SPEED = 1.80

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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BROWNS FERRY NUCLEAR PLANT

2016 METEOROLOGICAL DATA

TABLE 7D

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR GROUND LEVEL RELEASES

FOURTH 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

OCT 1, 2016 - DEC 31, 2016

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	0.635	0.045	0.000	0.000	0.681
NNE	0.000	0.000	0.000	0.000	0.000	0.454	0.000	0.000	0.000	0.454
NE	0.000	0.000	0.000	0.000	0.000	0.045	0.136	0.000	0.000	0.181
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	0.045	0.000	0.000	0.000	0.000	0.045
ESE	0.000	0.000	0.045	0.181	0.318	0.000	0.000	0.000	0.000	0.544
SE	0.000	0.000	0.272	1.543	0.136	0.000	0.000	0.000	0.000	1.951
SSE	0.000	0.000	0.862	0.862	0.000	0.000	0.000	0.000	0.000	1.724
S	0.000	0.000	0.499	0.408	0.000	0.000	0.000	0.000	0.000	0.907
SSW	0.000	0.000	0.045	0.544	0.045	0.000	0.000	0.000	0.000	0.635
SW	0.000	0.000	0.000	0.136	0.000	0.000	0.000	0.000	0.000	0.136
WSW	0.000	0.000	0.045	0.091	0.000	0.000	0.000	0.000	0.000	0.136
W	0.000	0.000	0.000	0.045	0.091	0.000	0.000	0.000	0.000	0.136
WNW	0.000	0.000	0.045	0.000	0.045	0.136	0.000	0.000	0.000	0.227
NW	0.000	0.000	0.000	0.000	0.045	0.408	0.227	0.000	0.000	0.681
NNW	0.000	0.000	0.000	0.000	0.045	0.363	0.181	0.000	0.000	0.590
SUBTOTAL	0.000	0.000	1.815	3.811	0.771	2.042	0.590	0.000	0.000	9.029

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2204
TOTAL HOURS OF STABILITY CLASS A	199
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	199
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2204
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: 2017/01/27

MEAN WIND SPEED = 5.91

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

BROWNS FERRY NUCLEAR PLANT

OCT 1, 2016 - DEC 31, 2016

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	0.272	0.000	0.000	0.000	0.272
NNE	0.000	0.000	0.000	0.000	0.091	0.272	0.000	0.000	0.000	0.363
NE	0.000	0.000	0.000	0.000	0.091	0.000	0.045	0.000	0.000	0.136
ENE	0.000	0.000	0.045	0.000	0.045	0.000	0.000	0.000	0.000	0.091
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.091
SE	0.000	0.000	0.181	0.272	0.000	0.000	0.000	0.000	0.000	0.454
SSE	0.000	0.000	0.181	0.000	0.000	0.000	0.000	0.000	0.000	0.181
S	0.000	0.000	0.181	0.181	0.000	0.000	0.000	0.000	0.000	0.363
SSW	0.000	0.000	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.091
SW	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.045
WSW	0.000	0.000	0.045	0.091	0.000	0.000	0.000	0.000	0.000	0.136
W	0.000	0.000	0.000	0.136	0.000	0.000	0.000	0.000	0.000	0.136
WNW	0.000	0.000	0.045	0.136	0.091	0.318	0.000	0.000	0.000	0.590
NW	0.000	0.000	0.000	0.000	0.136	0.318	0.091	0.091	0.000	0.635
NNW	0.000	0.000	0.000	0.000	0.045	0.272	0.045	0.000	0.000	0.363
SUBTOTAL	0.000	0.000	0.771	0.953	0.499	1.452	0.181	0.091	0.000	3.947

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2204
TOTAL HOURS OF STABILITY CLASS B	87
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	87
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2204
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: 2017/01/27

MEAN WIND SPEED = 6.84

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

BROWNS FERRY NUCLEAR PLANT

OCT 1, 2016 - DEC 31, 2016

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	0.272	0.091	0.000	0.000	0.000	0.363
NNE	0.000	0.000	0.000	0.000	0.181	0.181	0.000	0.000	0.000	0.363
NE	0.000	0.000	0.000	0.000	0.136	0.091	0.000	0.000	0.000	0.227
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	0.045	0.000	0.000	0.000	0.000	0.000	0.045
ESE	0.000	0.000	0.045	0.181	0.136	0.000	0.000	0.000	0.000	0.363
SE	0.000	0.000	0.318	0.181	0.000	0.000	0.000	0.000	0.000	0.499
SSE	0.000	0.000	0.544	0.091	0.000	0.000	0.000	0.000	0.000	0.635
S	0.000	0.000	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.136
SSW	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.045
SW	0.000	0.000	0.091	0.045	0.000	0.000	0.000	0.000	0.000	0.136
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.045	0.000	0.045	0.000	0.000	0.000	0.091
WNW	0.000	0.000	0.000	0.227	0.318	0.227	0.091	0.000	0.000	0.862
NW	0.000	0.000	0.045	0.045	0.091	0.136	0.091	0.045	0.000	0.454
NNW	0.000	0.000	0.000	0.136	0.272	0.318	0.000	0.000	0.000	0.726
SUBTOTAL	0.000	0.000	1.225	0.998	1.407	1.089	0.181	0.045	0.000	4.946

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2204
TOTAL HOURS OF STABILITY CLASS C	109
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	109
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2204
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: 2017/01/27

MEAN WIND SPEED = 6.20

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

BROWNS FERRY NUCLEAR PLANT

OCT 1, 2016 - DEC 31, 2016

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	0.045	0.136	1.044	0.726	0.726	0.000	0.000	0.000	2.677
NNE	0.000	0.000	0.454	0.907	0.771	0.726	0.000	0.000	0.000	2.858
NE	0.000	0.045	0.363	0.953	0.544	0.136	0.000	0.000	0.000	2.042
ENE	0.000	0.000	0.181	0.363	0.136	0.000	0.000	0.000	0.000	0.681
E	0.000	0.000	0.499	0.227	0.091	0.000	0.000	0.000	0.000	0.817
ESE	0.000	0.000	0.817	0.907	0.318	0.000	0.000	0.000	0.000	2.042
SE	0.000	0.000	0.953	0.181	0.000	0.000	0.000	0.000	0.000	1.134
SSE	0.000	0.045	1.452	0.136	0.000	0.000	0.000	0.000	0.000	1.633
S	0.000	0.091	0.681	0.590	0.045	0.000	0.000	0.000	0.000	1.407
SSW	0.000	0.000	0.454	0.000	0.000	0.000	0.000	0.000	0.000	0.454
SW	0.000	0.000	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.136
WSW	0.000	0.000	0.454	0.091	0.045	0.000	0.000	0.000	0.000	0.590
W	0.000	0.000	0.227	0.499	0.227	0.136	0.000	0.000	0.000	1.089
WNW	0.000	0.000	0.045	0.408	0.408	0.907	0.136	0.000	0.000	1.906
NW	0.000	0.000	0.045	0.454	0.635	1.316	1.044	0.045	0.000	3.539
NNW	0.000	0.000	0.091	0.363	1.089	1.361	0.136	0.000	0.000	3.040
SUBTOTAL	0.000	0.227	6.987	7.123	5.036	5.309	1.316	0.045	0.000	26.044

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2204
TOTAL HOURS OF STABILITY CLASS D	574
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	574
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2204
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: 2017/01/27

MEAN WIND SPEED = 5.83

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

BROWNS FERRY NUCLEAR PLANT

OCT 1, 2016 - DEC 31, 2016

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	0.045	0.998	0.454	0.091	0.227	0.000	0.000	0.000	1.815
NNE	0.000	0.045	0.363	0.817	0.408	0.091	0.000	0.000	0.000	1.724
NE	0.000	0.000	0.771	0.318	0.272	0.136	0.000	0.000	0.000	1.497
ENE	0.000	0.272	0.272	0.227	0.091	0.000	0.000	0.000	0.000	0.862
E	0.000	0.136	0.907	0.635	0.000	0.000	0.000	0.000	0.000	1.679
ESE	0.000	0.227	1.815	1.633	0.045	0.000	0.000	0.000	0.000	3.721
SE	0.000	0.181	0.998	0.227	0.000	0.000	0.000	0.000	0.000	1.407
SSE	0.000	0.136	0.998	0.227	0.045	0.000	0.000	0.000	0.000	1.407
S	0.000	0.091	1.089	0.544	0.499	0.227	0.000	0.000	0.000	2.450
SSW	0.000	0.000	0.318	0.136	0.227	0.000	0.000	0.000	0.000	0.681
SW	0.000	0.091	0.091	0.045	0.000	0.000	0.000	0.000	0.000	0.227
WSW	0.000	0.045	0.181	0.000	0.045	0.000	0.000	0.000	0.000	0.272
W	0.000	0.136	0.635	0.091	0.000	0.045	0.000	0.000	0.000	0.907
WNW	0.000	0.045	0.136	0.181	0.045	0.091	0.091	0.000	0.000	0.590
NW	0.000	0.000	0.408	0.363	0.136	0.363	0.000	0.045	0.000	1.316
NNW	0.000	0.045	0.726	0.998	0.408	0.499	0.000	0.000	0.000	2.677
SUBTOTAL	0.000	1.497	10.708	6.897	2.314	1.679	0.091	0.045	0.000	23.230

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2204
TOTAL HOURS OF STABILITY CLASS E	512
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	512
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2204
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: 2017/01/27

MEAN WIND SPEED = 3.87

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

BROWNS FERRY NUCLEAR PLANT

OCT 1, 2016 - DEC 31, 2016

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	0.005	0.181	1.316	0.635	0.091	0.000	0.000	0.000	0.000	2.229
NNE	0.002	0.091	0.408	1.134	0.136	0.000	0.000	0.000	0.000	1.771
NE	0.002	0.272	0.318	0.318	0.136	0.000	0.000	0.000	0.000	1.046
ENE	0.004	0.181	0.817	0.091	0.000	0.000	0.000	0.000	0.000	1.092
E	0.005	0.227	1.270	0.544	0.000	0.000	0.000	0.000	0.000	2.047
ESE	0.007	0.499	1.361	0.091	0.000	0.000	0.000	0.000	0.000	1.958
SE	0.004	0.544	0.544	0.136	0.000	0.000	0.000	0.000	0.000	1.229
SSE	0.003	0.544	0.363	0.045	0.045	0.000	0.000	0.000	0.000	1.001
S	0.003	0.091	0.817	0.817	0.499	0.272	0.000	0.000	0.000	2.499
SSW	0.001	0.136	0.091	0.045	0.000	0.000	0.000	0.000	0.000	0.273
SW	0.001	0.136	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.228
WSW	0.001	0.227	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.319
W	0.001	0.091	0.227	0.000	0.000	0.000	0.000	0.000	0.000	0.319
WNW	0.001	0.181	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.273
NW	0.002	0.136	0.408	0.045	0.000	0.000	0.000	0.000	0.000	0.592
NNW	0.004	0.091	0.907	0.544	0.045	0.000	0.000	0.000	0.000	1.592
SUBTOTAL	0.045	3.630	9.074	4.492	0.953	0.272	0.000	0.000	0.000	18.466

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2204
TOTAL HOURS OF STABILITY CLASS F	407
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	407
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2204
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: 2017/01/27

MEAN WIND SPEED = 2.88

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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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

OCT 1, 2016 - DEC 31, 2016

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	0.016	1.316	0.998	0.681	0.000	0.000	0.000	0.000	0.000	3.011
NNE	0.011	1.134	0.454	0.091	0.000	0.000	0.000	0.000	0.000	1.690
NE	0.009	0.454	0.817	0.045	0.000	0.000	0.000	0.000	0.000	1.325
ENE	0.010	0.318	1.089	0.045	0.000	0.000	0.000	0.000	0.000	1.462
E	0.009	0.363	0.907	0.045	0.000	0.000	0.000	0.000	0.000	1.325
ESE	0.003	0.318	0.181	0.000	0.000	0.000	0.000	0.000	0.000	0.503
SE	0.006	0.635	0.181	0.045	0.000	0.000	0.000	0.000	0.000	0.868
SSE	0.009	0.590	0.681	0.000	0.000	0.000	0.000	0.000	0.000	1.279
S	0.006	0.227	0.590	0.000	0.227	0.000	0.000	0.000	0.000	1.049
SSW	0.002	0.227	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.320
SW	0.001	0.136	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.183
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.001	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.091
WNW	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
NW	0.002	0.227	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.320
NNW	0.006	0.454	0.363	0.045	0.000	0.000	0.000	0.000	0.000	0.868
SUBTOTAL	0.091	6.534	6.488	0.998	0.227	0.000	0.000	0.000	0.000	14.338

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2204
TOTAL HOURS OF STABILITY CLASS G	316
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	316
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2204
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: 2017/01/27

MEAN WIND SPEED = 1.85

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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BROWNS FERRY NUCLEAR PLANT

2016 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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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, 2016 - MAR 31, 2016

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	0.028	0.000	0.000	0.000	0.028
NNE	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.007
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	0.005	0.000	0.000	0.000	0.000	0.005
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	0.005	0.000	0.000	0.000	0.000	0.012
SE	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.010
SSE	0.000	0.000	0.012	0.016	0.000	0.000	0.000	0.000	0.000	0.028
S	0.000	0.000	0.010	0.020	0.083	0.019	0.000	0.000	0.000	0.132
SSW	0.000	0.000	0.007	0.027	0.017	0.000	0.000	0.000	0.000	0.051
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	0.006	0.000	0.000	0.000	0.000	0.000	0.006
W	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.008
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.009
NNW	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.009
SUBTOTAL	0.000	0.000	0.029	0.088	0.111	0.079	0.000	0.000	0.000	0.306

TOTAL HOURS OF VALID OBSERVATIONS 2159.000
TOTAL HOURS OF GROUND LEVEL RELEASE 326.730
TOTAL HOURS OF STABILITY CLASS A 13.570
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 6.610

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: 2016/05/06

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - MAR 31, 2016

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	0.037	0.000	0.000	0.000	0.037
NNE	0.000	0.000	0.000	0.000	0.007	0.016	0.000	0.000	0.000	0.023
NE	0.000	0.000	0.000	0.000	0.000	0.014	0.000	0.000	0.000	0.014
ENE	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.010
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	0.000	0.015	0.008	0.000	0.000	0.000	0.000	0.023
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	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.009
SSW	0.000	0.000	0.000	0.013	0.011	0.000	0.000	0.000	0.000	0.023
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	0.006	0.000	0.000	0.000	0.000	0.006
W	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.010
WNW	0.000	0.000	0.000	0.000	0.000	0.021	0.066	0.000	0.000	0.087
NW	0.000	0.000	0.000	0.000	0.000	0.025	0.035	0.000	0.000	0.059
NNW	0.000	0.000	0.000	0.000	0.000	0.008	0.027	0.000	0.000	0.035
SUBTOTAL	0.000	0.000	0.008	0.037	0.061	0.120	0.128	0.000	0.000	0.354

TOTAL HOURS OF VALID OBSERVATIONS 2159.000
TOTAL HOURS OF GROUND LEVEL RELEASE 326.730
TOTAL HOURS OF STABILITY CLASS B 27.510
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 7.640

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: 2016/05/06

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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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, 2016 - MAR 31, 2016

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	0.004	0.014	0.000	0.000	0.000	0.018
NNE	0.000	0.000	0.000	0.000	0.006	0.007	0.000	0.000	0.000	0.013
NE	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.003
ENE	0.000	0.000	0.000	0.000	0.012	0.006	0.000	0.000	0.000	0.018
E	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.006
ESE	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.006
SE	0.000	0.000	0.008	0.013	0.008	0.000	0.000	0.000	0.000	0.029
SSE	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.020
S	0.000	0.000	0.007	0.000	0.014	0.000	0.000	0.000	0.000	0.021
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	0.024	0.000	0.000	0.000	0.024
W	0.000	0.000	0.000	0.000	0.006	0.017	0.000	0.000	0.000	0.023
WNW	0.000	0.000	0.000	0.000	0.006	0.057	0.105	0.000	0.000	0.169
NW	0.000	0.000	0.000	0.000	0.005	0.057	0.028	0.000	0.000	0.090
NNW	0.000	0.000	0.000	0.000	0.008	0.038	0.000	0.000	0.000	0.046
SUBTOTAL	0.000	0.000	0.036	0.019	0.079	0.220	0.133	0.000	0.000	0.487

TOTAL HOURS OF VALID OBSERVATIONS 2159.000
TOTAL HOURS OF GROUND LEVEL RELEASE 326.730
TOTAL HOURS OF STABILITY CLASS C 65.970
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 10.520

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: 2016/05/06

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2016 - MAR 31, 2016

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	0.004	0.043	0.101	0.077	0.000	0.000	0.000	0.225
NNE	0.000	0.000	0.002	0.063	0.064	0.074	0.000	0.000	0.000	0.203
NE	0.000	0.000	0.000	0.021	0.038	0.022	0.000	0.000	0.000	0.081
ENE	0.000	0.000	0.000	0.034	0.032	0.000	0.000	0.000	0.000	0.066
E	0.000	0.000	0.000	0.019	0.012	0.000	0.000	0.000	0.000	0.031
ESE	0.000	0.000	0.002	0.035	0.047	0.000	0.000	0.000	0.000	0.085
SE	0.000	0.000	0.044	0.083	0.039	0.000	0.000	0.000	0.000	0.167
SSE	0.000	0.000	0.051	0.078	0.000	0.000	0.000	0.000	0.000	0.130
S	0.000	0.000	0.032	0.107	0.204	0.040	0.000	0.000	0.000	0.382
SSW	0.000	0.000	0.006	0.013	0.083	0.000	0.000	0.000	0.000	0.101
SW	0.000	0.000	0.000	0.020	0.009	0.000	0.000	0.000	0.000	0.029
WSW	0.000	0.000	0.002	0.032	0.011	0.052	0.000	0.000	0.000	0.098
W	0.000	0.000	0.000	0.031	0.061	0.145	0.020	0.000	0.000	0.257
WNW	0.000	0.000	0.000	0.014	0.069	0.280	0.510	0.066	0.000	0.939
NW	0.000	0.000	0.000	0.014	0.086	0.559	0.481	0.000	0.000	1.140
NNW	0.000	0.000	0.003	0.017	0.181	0.329	0.437	0.000	0.000	0.966
SUBTOTAL	0.000	0.000	0.146	0.624	1.037	1.578	1.448	0.066	0.000	4.899

TOTAL HOURS OF VALID OBSERVATIONS 2159.000
TOTAL HOURS OF GROUND LEVEL RELEASE 326.730
TOTAL HOURS OF STABILITY CLASS D 871.620
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 105.760

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

DATE PRINTED: 2016/05/06

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2016 - MAR 31, 2016

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	0.014	0.027	0.038	0.025	0.000	0.000	0.000	0.106
NNE	0.000	0.000	0.018	0.044	0.064	0.031	0.000	0.000	0.000	0.158
NE	0.000	0.000	0.016	0.028	0.047	0.053	0.000	0.000	0.000	0.145
ENE	0.000	0.000	0.006	0.035	0.011	0.009	0.010	0.000	0.000	0.071
E	0.000	0.000	0.063	0.025	0.008	0.000	0.000	0.000	0.000	0.096
ESE	0.000	0.000	0.031	0.131	0.040	0.055	0.000	0.000	0.000	0.256
SE	0.000	0.001	0.098	0.201	0.021	0.000	0.000	0.000	0.000	0.322
SSE	0.000	0.007	0.185	0.372	0.032	0.000	0.000	0.000	0.000	0.596
S	0.000	0.006	0.167	0.389	0.366	0.371	0.000	0.000	0.000	1.300
SSW	0.000	0.000	0.053	0.052	0.107	0.067	0.000	0.000	0.000	0.278
SW	0.000	0.000	0.045	0.027	0.008	0.032	0.000	0.000	0.000	0.113
WSW	0.000	0.000	0.021	0.056	0.007	0.000	0.000	0.000	0.000	0.085
W	0.000	0.000	0.018	0.058	0.034	0.026	0.000	0.000	0.000	0.136
WNW	0.000	0.000	0.002	0.000	0.023	0.039	0.000	0.000	0.000	0.065
NW	0.000	0.000	0.005	0.038	0.145	0.131	0.013	0.000	0.000	0.332
NNW	0.000	0.000	0.031	0.083	0.232	0.101	0.000	0.000	0.000	0.447
SUBTOTAL	0.000	0.015	0.774	1.567	1.185	0.941	0.022	0.000	0.000	4.504

TOTAL HOURS OF VALID OBSERVATIONS 2159.000
TOTAL HOURS OF GROUND LEVEL RELEASE 326.730
TOTAL HOURS OF STABILITY CLASS E 811.390
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 97.250

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

DATE PRINTED: 2016/05/06

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - MAR 31, 2016

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	0.002	0.061	0.049	0.000	0.000	0.000	0.000	0.000	0.112
NNE	0.000	0.000	0.032	0.052	0.008	0.000	0.000	0.000	0.000	0.093
NE	0.000	0.000	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.010
ENE	0.000	0.000	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.018
E	0.000	0.000	0.015	0.025	0.000	0.000	0.000	0.000	0.000	0.041
ESE	0.000	0.005	0.020	0.018	0.000	0.000	0.000	0.000	0.000	0.043
SE	0.000	0.010	0.139	0.094	0.031	0.000	0.000	0.000	0.000	0.274
SSE	0.000	0.028	0.374	0.204	0.040	0.000	0.000	0.000	0.000	0.646
S	0.000	0.013	0.192	0.494	0.655	0.045	0.000	0.000	0.000	1.398
SSW	0.000	0.000	0.038	0.025	0.057	0.018	0.000	0.000	0.000	0.137
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007
NW	0.000	0.000	0.012	0.018	0.000	0.000	0.000	0.000	0.000	0.030
NNW	0.000	0.000	0.043	0.038	0.015	0.008	0.000	0.000	0.000	0.105
SUBTOTAL	0.000	0.064	0.939	1.032	0.807	0.071	0.000	0.000	0.000	2.913

TOTAL HOURS OF VALID OBSERVATIONS 2159.000
TOTAL HOURS OF GROUND LEVEL RELEASE 326.730
TOTAL HOURS OF STABILITY CLASS F 303.450
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 62.890

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

DATE PRINTED: 2016/05/06

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - MAR 31, 2016

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	0.027	0.020	0.000	0.000	0.000	0.000	0.000	0.047
NNE	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.000	0.017
NE	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.009
ENE	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.005
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.012	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.018
SE	0.000	0.000	0.017	0.023	0.000	0.000	0.000	0.000	0.000	0.040
SSE	0.000	0.040	0.416	0.494	0.000	0.000	0.000	0.000	0.000	0.950
S	0.000	0.000	0.194	0.197	0.163	0.000	0.000	0.000	0.000	0.554
SSW	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	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	0.004	0.006	0.000	0.000	0.000	0.000	0.000	0.009
NNW	0.000	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.011
SUBTOTAL	0.000	0.062	0.688	0.757	0.163	0.000	0.000	0.000	0.000	1.670

TOTAL HOURS OF VALID OBSERVATIONS 2159.000
TOTAL HOURS OF GROUND LEVEL RELEASE 326.730
TOTAL HOURS OF STABILITY CLASS G 65.490
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 36.060

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: 2016/05/06

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2016 - MAR 31, 2016

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	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.046	0.000	0.041	0.000	0.000	0.000	0.088
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	0.082	0.112	0.000	0.000	0.193
SW	0.000	0.000	0.000	0.000	0.000	0.042	0.000	0.000	0.000	0.042
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.046	0.000	0.164	0.112	0.000	0.000	0.322

TOTAL HOURS OF VALID OBSERVATIONS 2159.000
TOTAL HOURS OF ELEVATED RELEASES 1832.270
TOTAL HOURS OF STABILITY CLASS A 13.570
TOTAL HOURS OF ELEVATED STABILITY CLASS A 6.960

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: 2016/05/06

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - MAR 31, 2016

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	0.118	0.000	0.000	0.000	0.118
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	0.041	0.000	0.000	0.000	0.086
SE	0.000	0.000	0.000	0.046	0.044	0.042	0.000	0.000	0.000	0.133
SSE	0.000	0.000	0.000	0.000	0.089	0.000	0.000	0.000	0.000	0.089
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	0.000	0.045	0.000	0.112	0.000	0.000	0.157
SW	0.000	0.000	0.000	0.046	0.091	0.039	0.000	0.000	0.000	0.176
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	0.082	0.038	0.000	0.000	0.121
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	0.093	0.314	0.364	0.150	0.000	0.000	0.920

TOTAL HOURS OF VALID OBSERVATIONS 2159.000
TOTAL HOURS OF ELEVATED RELEASES 1832.270
TOTAL HOURS OF STABILITY CLASS B 27.510
TOTAL HOURS OF ELEVATED STABILITY CLASS B 19.870

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: 2016/05/06

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - MAR 31, 2016

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	0.120	0.076	0.000	0.000	0.196
NNE	0.000	0.000	0.000	0.000	0.000	0.157	0.000	0.000	0.000	0.157
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	0.046	0.000	0.000	0.000	0.000	0.046
ESE	0.000	0.000	0.000	0.046	0.132	0.042	0.000	0.000	0.000	0.220
SE	0.000	0.000	0.000	0.093	0.089	0.000	0.000	0.000	0.000	0.182
SSE	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.091
S	0.000	0.000	0.000	0.093	0.000	0.040	0.000	0.000	0.000	0.133
SSW	0.000	0.000	0.046	0.000	0.045	0.000	0.112	0.028	0.000	0.232
SW	0.000	0.000	0.000	0.000	0.046	0.041	0.000	0.000	0.000	0.087
WSW	0.000	0.000	0.000	0.000	0.044	0.082	0.000	0.000	0.000	0.126
W	0.000	0.000	0.000	0.000	0.044	0.039	0.000	0.000	0.000	0.083
WNW	0.000	0.000	0.000	0.000	0.000	0.161	0.376	0.151	0.000	0.687
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.151	0.029	0.000	0.180
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.149	0.000	0.000	0.149
SUBTOTAL	0.000	0.000	0.046	0.232	0.538	0.681	0.863	0.208	0.000	2.568

TOTAL HOURS OF VALID OBSERVATIONS 2159.000
TOTAL HOURS OF ELEVATED RELEASES 1832.270
TOTAL HOURS OF STABILITY CLASS C 65.970
TOTAL HOURS OF ELEVATED STABILITY CLASS C 55.450

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: 2016/05/06

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2016 - MAR 31, 2016

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	0.093	0.278	0.402	1.093	0.535	0.000	0.000	2.400
NNE	0.000	0.000	0.139	0.232	0.620	0.890	0.532	0.000	0.000	2.413
NE	0.000	0.000	0.046	0.324	0.445	0.736	0.077	0.000	0.000	1.629
ENE	0.000	0.000	0.046	0.648	0.446	0.456	0.000	0.000	0.000	1.596
E	0.000	0.000	0.139	0.278	0.400	0.249	0.000	0.000	0.000	1.066
ESE	0.000	0.000	0.000	0.324	0.359	0.369	0.076	0.000	0.000	1.128
SE	0.000	0.000	0.278	0.463	0.090	0.609	0.529	0.186	0.000	2.155
SSE	0.000	0.000	0.093	0.324	0.136	0.156	0.413	0.128	0.000	1.250
S	0.000	0.000	0.185	0.232	0.227	0.279	0.376	0.189	0.006	1.493
SSW	0.000	0.000	0.232	0.093	0.092	0.448	0.413	0.190	0.000	1.468
SW	0.000	0.000	0.046	0.139	0.179	0.325	0.075	0.000	0.000	0.764
WSW	0.000	0.000	0.093	0.324	0.362	0.493	0.075	0.119	0.000	1.466
W	0.000	0.000	0.185	0.463	0.442	0.861	0.487	0.121	0.000	2.560
WNW	0.000	0.000	0.093	0.278	0.570	1.220	1.494	0.596	0.010	4.261
NW	0.000	0.000	0.000	0.000	0.397	1.821	2.628	0.444	0.011	5.300
NNW	0.000	0.000	0.000	0.371	0.576	1.704	1.437	0.418	0.020	4.525
SUBTOTAL	0.000	0.000	1.667	4.771	5.742	11.708	9.146	2.390	0.048	35.473

TOTAL HOURS OF VALID OBSERVATIONS 2159.000
TOTAL HOURS OF ELEVATED RELEASES 1832.270
TOTAL HOURS OF STABILITY CLASS D 871.620
TOTAL HOURS OF ELEVATED STABILITY CLASS D 765.860

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: 2016/05/06

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - MAR 31, 2016

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	0.463	0.266	0.804	0.341	0.028	0.000	1.902
NNE	0.000	0.000	0.046	0.278	0.314	0.843	0.113	0.030	0.000	1.625
NE	0.000	0.000	0.093	0.232	0.492	0.456	0.076	0.000	0.000	1.349
ENE	0.000	0.000	0.046	0.371	0.496	0.290	0.037	0.037	0.000	1.277
E	0.000	0.000	0.046	0.278	0.176	0.417	0.000	0.000	0.000	0.918
ESE	0.000	0.000	0.000	0.278	0.444	1.107	0.227	0.033	0.000	2.088
SE	0.000	0.000	0.000	0.139	0.221	1.358	0.758	0.119	0.008	2.604
SSE	0.000	0.000	0.139	0.046	0.354	1.114	1.127	0.665	0.041	3.487
S	0.000	0.046	0.046	0.185	0.267	0.895	1.015	1.115	0.020	3.590
SSW	0.000	0.000	0.046	0.139	0.222	1.375	1.314	0.544	0.013	3.653
SW	0.000	0.000	0.278	0.417	0.450	0.939	0.038	0.061	0.000	2.182
WSW	0.000	0.046	0.093	0.139	0.399	0.584	0.037	0.000	0.000	1.298
W	0.000	0.000	0.046	0.278	0.535	0.414	0.114	0.000	0.000	1.388
WNW	0.000	0.000	0.046	0.185	0.266	0.080	0.152	0.000	0.000	0.730
NW	0.000	0.000	0.000	0.139	0.176	1.197	0.648	0.000	0.000	2.160
NNW	0.000	0.000	0.000	0.324	0.360	1.800	0.343	0.000	0.000	2.827
SUBTOTAL	0.000	0.093	0.926	3.891	5.439	13.674	6.342	2.631	0.082	33.077

TOTAL HOURS OF VALID OBSERVATIONS 2159.000
TOTAL HOURS OF ELEVATED RELEASES 1832.270
TOTAL HOURS OF STABILITY CLASS E 811.390
TOTAL HOURS OF ELEVATED STABILITY CLASS E 714.140

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: 2016/05/06

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - MAR 31, 2016

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	0.046	0.046	0.263	0.287	0.113	0.000	0.000	0.756
NNE	0.000	0.000	0.000	0.000	0.138	0.527	0.153	0.000	0.000	0.818
NE	0.000	0.000	0.000	0.000	0.000	0.205	0.000	0.000	0.000	0.205
ENE	0.000	0.000	0.000	0.093	0.044	0.083	0.000	0.000	0.000	0.220
E	0.000	0.000	0.139	0.093	0.219	0.208	0.000	0.000	0.000	0.659
ESE	0.000	0.046	0.093	0.000	0.045	0.120	0.000	0.000	0.000	0.304
SE	0.000	0.046	0.232	0.185	0.044	0.526	0.300	0.086	0.000	1.419
SSE	0.000	0.000	0.093	0.046	0.043	0.845	0.822	0.255	0.019	2.122
S	0.000	0.000	0.139	0.046	0.046	0.723	0.869	0.375	0.001	2.200
SSW	0.000	0.000	0.046	0.093	0.000	0.324	0.038	0.037	0.000	0.537
SW	0.000	0.000	0.046	0.093	0.000	0.040	0.000	0.000	0.000	0.179
WSW	0.000	0.000	0.139	0.093	0.000	0.000	0.000	0.000	0.000	0.232
W	0.000	0.000	0.093	0.000	0.000	0.041	0.000	0.000	0.000	0.134
WNW	0.000	0.000	0.046	0.139	0.132	0.000	0.000	0.000	0.000	0.318
NW	0.000	0.000	0.139	0.046	0.089	0.165	0.000	0.000	0.000	0.440
NNW	0.000	0.000	0.046	0.046	0.223	0.207	0.076	0.000	0.000	0.599
SUBTOTAL	0.000	0.093	1.297	1.019	1.287	4.302	2.372	0.753	0.020	11.142

TOTAL HOURS OF VALID OBSERVATIONS 2159.000
TOTAL HOURS OF ELEVATED RELEASES 1832.270
TOTAL HOURS OF STABILITY CLASS F 303.450
TOTAL HOURS OF ELEVATED STABILITY CLASS F 240.560

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: 2016/05/06

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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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, 2016 - MAR 31, 2016

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	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.078	0.000	0.000	0.000	0.078
NE	0.000	0.000	0.000	0.000	0.046	0.000	0.040	0.000	0.000	0.000	0.087
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	0.046	0.000	0.000	0.000	0.000	0.046
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	0.046	0.046	0.164	0.000	0.000	0.000	0.256
SSE	0.000	0.000	0.000	0.000	0.000	0.046	0.042	0.260	0.067	0.000	0.415
S	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.113	0.000	0.000	0.160
SSW	0.000	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	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
WSW	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
W	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
WNW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
NW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
NNW	0.000	0.000	0.046	0.000	0.000	0.043	0.000	0.000	0.000	0.000	0.089
SUBTOTAL	0.000	0.046	0.185	0.185	0.181	0.324	0.374	0.067	0.000		1.363

TOTAL HOURS OF VALID OBSERVATIONS 2159.000
TOTAL HOURS OF ELEVATED RELEASES 1832.270
TOTAL HOURS OF STABILITY CLASS G 65.490
TOTAL HOURS OF ELEVATED STABILITY CLASS G 29.430

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: 2016/05/06

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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BROWNS FERRY NUCLEAR PLANT

2016 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
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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

APR 1, 2016 - JUN 30, 2016

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	0.009	0.051	0.000	0.000	0.000	0.060
NNE	0.000	0.000	0.000	0.000	0.009	0.040	0.000	0.000	0.000	0.048
NE	0.000	0.000	0.000	0.000	0.004	0.017	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	0.018	0.032	0.124	0.000	0.000	0.000	0.000	0.174
SE	0.000	0.000	0.017	0.137	0.060	0.000	0.000	0.000	0.000	0.214
SSE	0.000	0.000	0.044	0.028	0.000	0.000	0.000	0.000	0.000	0.072
S	0.000	0.000	0.112	0.082	0.043	0.000	0.000	0.000	0.000	0.238
SSW	0.000	0.000	0.040	0.080	0.000	0.000	0.000	0.000	0.000	0.120
SW	0.000	0.000	0.005	0.022	0.000	0.000	0.000	0.000	0.000	0.027
WSW	0.000	0.000	0.000	0.027	0.005	0.000	0.000	0.000	0.000	0.032
W	0.000	0.000	0.000	0.004	0.049	0.036	0.000	0.000	0.000	0.090
WNW	0.000	0.000	0.000	0.000	0.000	0.024	0.030	0.000	0.000	0.053
NW	0.000	0.000	0.000	0.003	0.004	0.029	0.154	0.033	0.000	0.224
NNW	0.000	0.000	0.000	0.000	0.010	0.045	0.000	0.000	0.000	0.055
SUBTOTAL	0.000	0.000	0.236	0.417	0.317	0.242	0.184	0.033	0.000	1.430

TOTAL HOURS OF VALID OBSERVATIONS 2098.000
TOTAL HOURS OF GROUND LEVEL RELEASE 192.540
TOTAL HOURS OF STABILITY CLASS A 65.640
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 30.000

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: 2016/08/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - JUN 30, 2016

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	0.028	0.033	0.000	0.000	0.000	0.061
NNE	0.000	0.000	0.000	0.000	0.017	0.022	0.000	0.000	0.000	0.039
NE	0.000	0.000	0.000	0.000	0.019	0.031	0.000	0.000	0.000	0.049
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	0.006	0.011	0.009	0.000	0.000	0.000	0.000	0.026
SE	0.000	0.000	0.013	0.011	0.008	0.000	0.000	0.000	0.000	0.032
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	0.023	0.051	0.000	0.000	0.000	0.000	0.000	0.075
SSW	0.000	0.000	0.042	0.010	0.000	0.000	0.000	0.000	0.000	0.052
SW	0.000	0.000	0.004	0.002	0.000	0.000	0.000	0.000	0.000	0.006
WSW	0.000	0.000	0.000	0.008	0.007	0.000	0.000	0.000	0.000	0.015
W	0.000	0.000	0.000	0.002	0.016	0.022	0.000	0.000	0.000	0.040
WNW	0.000	0.000	0.000	0.000	0.000	0.059	0.063	0.000	0.000	0.122
NW	0.000	0.000	0.000	0.000	0.022	0.042	0.029	0.000	0.000	0.092
NNW	0.000	0.000	0.000	0.000	0.011	0.084	0.027	0.000	0.000	0.123
SUBTOTAL	0.000	0.000	0.092	0.095	0.136	0.294	0.119	0.000	0.000	0.737

TOTAL HOURS OF VALID OBSERVATIONS 2098.000
TOTAL HOURS OF GROUND LEVEL RELEASE 192.540
TOTAL HOURS OF STABILITY CLASS B 116.280
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 15.460

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: 2016/08/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2016 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, 2016 - JUN 30, 2016

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	0.010	0.015	0.000	0.000	0.000	0.025
NNE	0.000	0.000	0.000	0.000	0.005	0.015	0.000	0.000	0.000	0.020
NE	0.000	0.000	0.000	0.005	0.008	0.008	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	0.005	0.002	0.000	0.000	0.000	0.000	0.000	0.007
ESE	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.008
SE	0.000	0.000	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.009
SSE	0.000	0.000	0.011	0.042	0.000	0.000	0.000	0.000	0.000	0.053
S	0.000	0.000	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.016
SSW	0.000	0.000	0.010	0.019	0.000	0.000	0.000	0.000	0.000	0.028
SW	0.000	0.000	0.011	0.005	0.000	0.000	0.000	0.000	0.000	0.017
WSW	0.000	0.000	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.013
W	0.000	0.000	0.000	0.003	0.045	0.025	0.000	0.000	0.000	0.073
WNW	0.000	0.000	0.000	0.000	0.010	0.072	0.075	0.000	0.000	0.158
NW	0.000	0.000	0.000	0.000	0.018	0.094	0.000	0.000	0.000	0.112
NNW	0.000	0.000	0.000	0.000	0.027	0.063	0.010	0.000	0.000	0.100
SUBTOTAL	0.000	0.000	0.059	0.102	0.122	0.292	0.085	0.000	0.000	0.660

TOTAL HOURS OF VALID OBSERVATIONS 2098.000
TOTAL HOURS OF GROUND LEVEL RELEASE 192.540
TOTAL HOURS OF STABILITY CLASS C 189.570
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 13.840

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: 2016/08/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2016 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, 2016 - JUN 30, 2016

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	0.003	0.010	0.083	0.041	0.000	0.000	0.000	0.137
NNE	0.000	0.000	0.000	0.019	0.033	0.029	0.000	0.000	0.000	0.081
NE	0.000	0.000	0.000	0.004	0.017	0.000	0.000	0.000	0.000	0.021
ENE	0.000	0.000	0.000	0.002	0.006	0.000	0.000	0.000	0.000	0.008
E	0.000	0.000	0.000	0.016	0.006	0.000	0.000	0.000	0.000	0.022
ESE	0.000	0.000	0.031	0.074	0.122	0.010	0.000	0.000	0.000	0.237
SE	0.000	0.000	0.045	0.100	0.040	0.000	0.000	0.000	0.000	0.185
SSE	0.000	0.000	0.055	0.039	0.000	0.000	0.000	0.000	0.000	0.094
S	0.000	0.000	0.120	0.081	0.041	0.000	0.000	0.000	0.000	0.242
SSW	0.000	0.000	0.227	0.074	0.000	0.000	0.000	0.000	0.000	0.301
SW	0.000	0.000	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.040
WSW	0.000	0.000	0.016	0.039	0.007	0.010	0.000	0.000	0.000	0.071
W	0.000	0.000	0.000	0.073	0.087	0.047	0.000	0.000	0.000	0.207
WNW	0.000	0.000	0.000	0.004	0.038	0.235	0.067	0.000	0.000	0.343
NW	0.000	0.000	0.000	0.012	0.060	0.228	0.048	0.000	0.000	0.348
NNW	0.000	0.000	0.000	0.010	0.074	0.061	0.020	0.000	0.000	0.164
SUBTOTAL	0.000	0.000	0.536	0.558	0.614	0.660	0.134	0.000	0.000	2.502

TOTAL HOURS OF VALID OBSERVATIONS 2098.000
TOTAL HOURS OF GROUND LEVEL RELEASE 192.540
TOTAL HOURS OF STABILITY CLASS D 783.230
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 52.490

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

DATE PRINTED: 2016/08/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - JUN 30, 2016

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	0.032	0.053	0.024	0.027	0.000	0.000	0.000	0.136
NNE	0.000	0.000	0.012	0.050	0.095	0.000	0.000	0.000	0.000	0.157
NE	0.000	0.003	0.010	0.009	0.020	0.016	0.000	0.000	0.000	0.058
ENE	0.000	0.005	0.008	0.022	0.020	0.000	0.000	0.000	0.000	0.054
E	0.000	0.007	0.106	0.118	0.000	0.000	0.000	0.000	0.000	0.231
ESE	0.000	0.005	0.118	0.178	0.056	0.000	0.000	0.000	0.000	0.357
SE	0.000	0.001	0.082	0.000	0.023	0.000	0.000	0.000	0.000	0.106
SSE	0.000	0.004	0.111	0.000	0.000	0.000	0.000	0.000	0.000	0.114
S	0.000	0.007	0.328	0.112	0.073	0.000	0.000	0.000	0.000	0.521
SSW	0.000	0.000	0.156	0.020	0.000	0.000	0.000	0.000	0.000	0.176
SW	0.000	0.001	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.016
WSW	0.000	0.000	0.016	0.010	0.009	0.000	0.000	0.000	0.000	0.035
W	0.000	0.000	0.017	0.065	0.037	0.024	0.000	0.000	0.000	0.143
WNW	0.000	0.000	0.000	0.013	0.023	0.033	0.000	0.000	0.000	0.069
NW	0.000	0.000	0.011	0.024	0.037	0.050	0.000	0.000	0.000	0.123
NNW	0.000	0.000	0.021	0.079	0.080	0.025	0.000	0.000	0.000	0.204
SUBTOTAL	0.000	0.034	1.041	0.755	0.497	0.174	0.000	0.000	0.000	2.501

TOTAL HOURS OF VALID OBSERVATIONS 2098.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 192.540
 TOTAL HOURS OF STABILITY CLASS E 635.730
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 52.470

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: 2016/08/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - JUN 30, 2016

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	0.160	0.093	0.009	0.000	0.000	0.000	0.000	0.262
NNE	0.000	0.000	0.026	0.041	0.000	0.000	0.000	0.000	0.000	0.067
NE	0.000	0.010	0.006	0.020	0.015	0.000	0.000	0.000	0.000	0.051
ENE	0.000	0.010	0.020	0.033	0.000	0.000	0.000	0.000	0.000	0.062
E	0.000	0.032	0.052	0.032	0.000	0.000	0.000	0.000	0.000	0.116
ESE	0.000	0.010	0.055	0.021	0.010	0.000	0.000	0.000	0.000	0.096
SE	0.000	0.033	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.061
SSE	0.000	0.029	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.037
S	0.000	0.006	0.150	0.000	0.000	0.000	0.000	0.000	0.000	0.156
SSW	0.000	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.013
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
WNW	0.000	0.007	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.009
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.064	0.080	0.009	0.000	0.000	0.000	0.000	0.152
SUBTOTAL	0.000	0.137	0.584	0.321	0.041	0.000	0.000	0.000	0.000	1.084

TOTAL HOURS OF VALID OBSERVATIONS 2098.000
TOTAL HOURS OF GROUND LEVEL RELEASE 192.540
TOTAL HOURS OF STABILITY CLASS F 227.990
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 22.740

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

DATE PRINTED: 2016/08/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**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 G (DELTA T > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

APR 1, 2016 - JUN 30, 2016

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	0.003	0.083	0.038	0.000	0.000	0.000	0.000	0.000	0.124
NNE	0.000	0.012	0.012	0.012	0.000	0.000	0.000	0.000	0.000	0.037
NE	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
ENE	0.000	0.011	0.003	0.013	0.000	0.000	0.000	0.000	0.000	0.027
E	0.000	0.012	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.018
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	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002
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	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.010
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	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.005
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
NNW	0.000	0.000	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.038
SUBTOTAL	0.000	0.041	0.159	0.063	0.000	0.000	0.000	0.000	0.000	0.264

TOTAL HOURS OF VALID OBSERVATIONS 2098.000
TOTAL HOURS OF GROUND LEVEL RELEASE 192.540
TOTAL HOURS OF STABILITY CLASS G 79.560
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 5.540

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: 2016/08/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**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 2 OF 2 ELEVATED RELEASE MODE

APR 1, 2016 - JUN 30, 2016

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	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	0.000	0.044	0.165	0.078	0.000	0.000	0.288
SSE	0.000	0.000	0.000	0.000	0.048	0.135	0.122	0.115	0.038	0.000	0.458
S	0.000	0.000	0.000	0.000	0.000	0.091	0.211	0.000	0.000	0.000	0.301
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.083	0.000	0.000	0.000	0.083
SW	0.000	0.000	0.000	0.000	0.000	0.044	0.000	0.000	0.000	0.000	0.044
WSW	0.000	0.000	0.000	0.000	0.048	0.140	0.127	0.000	0.000	0.000	0.315
W	0.000	0.000	0.000	0.000	0.000	0.045	0.126	0.000	0.000	0.000	0.172
WNW	0.000	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	0.038	0.000	0.000	0.038
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	0.095	0.499	0.836	0.231	0.038	0.000		1.699

TOTAL HOURS OF VALID OBSERVATIONS 2098.000
TOTAL HOURS OF ELEVATED RELEASES 1905.460
TOTAL HOURS OF STABILITY CLASS A 65.640
TOTAL HOURS OF ELEVATED STABILITY CLASS A 35.640

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: 2016/08/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - JUN 30, 2016

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	0.125	0.040	0.000	0.000	0.165
NNE	0.000	0.000	0.000	0.000	0.045	0.082	0.000	0.000	0.000	0.127
NE	0.000	0.000	0.000	0.000	0.000	0.084	0.000	0.000	0.000	0.084
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.041	0.000	0.000	0.000	0.041
SE	0.000	0.000	0.000	0.000	0.094	0.120	0.428	0.000	0.000	0.642
SSE	0.000	0.000	0.000	0.143	0.047	0.082	0.038	0.000	0.000	0.309
S	0.000	0.000	0.000	0.143	0.092	0.292	0.311	0.000	0.000	0.838
SSW	0.000	0.000	0.000	0.238	0.230	0.384	0.000	0.000	0.000	0.853
SW	0.000	0.000	0.000	0.191	0.139	0.044	0.000	0.000	0.000	0.374
WSW	0.000	0.000	0.000	0.143	0.091	0.000	0.000	0.000	0.000	0.234
W	0.000	0.000	0.000	0.048	0.046	0.459	0.079	0.000	0.000	0.632
WNW	0.000	0.000	0.000	0.000	0.000	0.042	0.114	0.000	0.000	0.156
NW	0.000	0.000	0.000	0.000	0.000	0.041	0.116	0.032	0.000	0.189
NNW	0.000	0.000	0.000	0.000	0.000	0.125	0.039	0.000	0.000	0.163
SUBTOTAL	0.000	0.000	0.000	0.906	0.784	1.920	1.164	0.032	0.000	4.806

TOTAL HOURS OF VALID OBSERVATIONS 2098.000
TOTAL HOURS OF ELEVATED RELEASES 1905.460
TOTAL HOURS OF STABILITY CLASS B 116.280
TOTAL HOURS OF ELEVATED STABILITY CLASS B 100.820

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: 2016/08/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2016 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, 2016 - JUN 30, 2016

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	0.091	0.778	0.000	0.000	0.000	0.869
NNE	0.000	0.000	0.000	0.000	0.044	0.632	0.040	0.000	0.000	0.716
NE	0.000	0.000	0.000	0.000	0.046	0.084	0.000	0.000	0.000	0.130
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	0.038	0.000	0.000	0.038
SE	0.000	0.000	0.000	0.143	0.279	0.462	0.231	0.000	0.000	1.115
SSE	0.000	0.000	0.048	0.095	0.048	0.084	0.000	0.000	0.000	0.275
S	0.000	0.000	0.048	0.286	0.180	0.121	0.155	0.000	0.004	0.794
SSW	0.000	0.000	0.000	0.334	0.047	0.295	0.000	0.000	0.000	0.675
SW	0.000	0.000	0.048	0.238	0.187	0.170	0.000	0.000	0.000	0.643
WSW	0.000	0.000	0.048	0.191	0.140	0.254	0.000	0.000	0.000	0.632
W	0.000	0.000	0.000	0.095	0.274	0.163	0.040	0.000	0.000	0.572
WNW	0.000	0.000	0.000	0.000	0.045	0.123	0.580	0.079	0.000	0.826
NW	0.000	0.000	0.000	0.000	0.000	0.340	0.268	0.055	0.000	0.663
NNW	0.000	0.000	0.000	0.000	0.000	0.289	0.077	0.061	0.000	0.428
SUBTOTAL	0.000	0.000	0.191	1.382	1.380	3.796	1.428	0.194	0.004	8.376
TOTAL HOURS OF VALID OBSERVATIONS				2098.000						
TOTAL HOURS OF ELEVATED RELEASES				1905.460						
TOTAL HOURS OF STABILITY CLASS C				189.570						
TOTAL HOURS OF ELEVATED STABILITY CLASS C				175.730						

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: 2016/08/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

APR 1, 2016 - JUN 30, 2016

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	0.048	0.286	0.552	1.041	0.235	0.000	0.000	2.161
NNE	0.000	0.048	0.000	0.191	0.319	0.502	0.118	0.000	0.000	1.178
NE	0.000	0.000	0.048	0.143	0.231	0.215	0.000	0.000	0.000	0.636
ENE	0.000	0.000	0.143	0.000	0.092	0.042	0.000	0.000	0.000	0.277
E	0.000	0.000	0.095	0.191	0.181	0.171	0.000	0.000	0.000	0.638
ESE	0.000	0.000	0.048	0.429	0.136	0.379	0.118	0.000	0.000	1.111
SE	0.000	0.000	0.477	1.001	0.417	0.835	1.007	0.100	0.000	3.835
SSE	0.000	0.000	0.524	0.572	0.415	0.798	0.619	0.130	0.000	3.059
S	0.000	0.000	0.191	0.572	0.505	1.253	1.169	0.086	0.017	3.792
SSW	0.000	0.000	0.286	0.524	1.063	1.266	0.504	0.000	0.000	3.643
SW	0.000	0.000	0.381	0.620	0.462	0.168	0.000	0.000	0.000	1.631
WSW	0.000	0.048	0.095	0.620	0.688	0.337	0.039	0.038	0.000	1.864
W	0.000	0.000	0.000	0.858	0.910	1.134	0.116	0.000	0.000	3.018
WNW	0.000	0.000	0.000	0.286	0.455	1.524	0.660	0.095	0.000	3.021
NW	0.000	0.000	0.095	0.095	0.227	1.387	1.095	0.000	0.000	2.900
NNW	0.000	0.000	0.048	0.143	0.276	1.339	0.195	0.065	0.000	2.067
SUBTOTAL	0.000	0.095	2.479	6.530	6.931	12.389	5.875	0.514	0.017	34.830

TOTAL HOURS OF VALID OBSERVATIONS 2098.000
 TOTAL HOURS OF ELEVATED RELEASES 1905.460
 TOTAL HOURS OF STABILITY CLASS D 783.230
 TOTAL HOURS OF ELEVATED STABILITY CLASS D 730.740

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: 2016/08/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - JUN 30, 2016

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	0.095	0.191	0.094	0.956	0.194	0.000	0.000	1.531
NNE	0.000	0.000	0.095	0.286	0.407	1.088	0.156	0.000	0.000	2.032
NE	0.000	0.000	0.095	0.000	0.235	0.292	0.040	0.000	0.000	0.661
ENE	0.000	0.000	0.095	0.191	0.182	0.251	0.000	0.000	0.000	0.719
E	0.000	0.000	0.048	0.191	0.323	0.168	0.000	0.000	0.000	0.729
ESE	0.000	0.000	0.238	0.524	0.735	1.298	0.000	0.000	0.000	2.796
SE	0.000	0.000	0.191	0.477	0.368	0.969	0.156	0.038	0.000	2.198
SSE	0.000	0.000	0.286	0.334	0.644	0.787	0.431	0.086	0.000	2.568
S	0.000	0.000	0.143	0.477	0.553	1.375	0.859	0.041	0.009	3.457
SSW	0.000	0.000	0.095	0.524	0.699	1.285	0.118	0.000	0.000	2.721
SW	0.000	0.000	0.191	0.906	0.328	0.000	0.039	0.000	0.000	1.464
WSW	0.000	0.000	0.191	0.381	0.506	0.215	0.000	0.000	0.000	1.293
W	0.000	0.000	0.048	0.477	0.781	0.684	0.039	0.000	0.000	2.029
WNW	0.000	0.000	0.048	0.191	0.180	0.210	0.078	0.000	0.000	0.705
NW	0.000	0.000	0.048	0.143	0.093	0.500	0.236	0.000	0.000	1.020
NNW	0.000	0.000	0.048	0.238	0.274	1.082	0.235	0.000	0.000	1.878
SUBTOTAL	0.000	0.000	1.954	5.529	6.402	11.161	2.581	0.165	0.009	27.801

TOTAL HOURS OF VALID OBSERVATIONS 2098.000
TOTAL HOURS OF ELEVATED RELEASES 1905.460
TOTAL HOURS OF STABILITY CLASS E 635.730
TOTAL HOURS OF ELEVATED STABILITY CLASS E 583.260

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: 2016/08/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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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, 2016 - JUN 30, 2016

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	0.048	0.046	1.078	0.079	0.000	0.000	1.250
NNE	0.000	0.000	0.048	0.048	0.142	0.671	0.040	0.000	0.000	0.948
NE	0.000	0.048	0.143	0.143	0.232	0.327	0.000	0.000	0.000	0.893
ENE	0.000	0.000	0.095	0.143	0.092	0.126	0.000	0.000	0.000	0.457
E	0.000	0.000	0.095	0.238	0.136	0.166	0.000	0.000	0.000	0.636
ESE	0.000	0.000	0.048	0.238	0.186	0.214	0.000	0.000	0.000	0.686
SE	0.000	0.000	0.095	0.191	0.143	0.169	0.000	0.000	0.000	0.598
SSE	0.000	0.000	0.095	0.048	0.091	0.130	0.000	0.029	0.000	0.392
S	0.000	0.000	0.095	0.000	0.228	0.587	0.038	0.000	0.000	0.949
SSW	0.000	0.000	0.095	0.048	0.089	0.206	0.000	0.000	0.000	0.439
SW	0.000	0.000	0.000	0.143	0.000	0.000	0.000	0.000	0.000	0.143
WSW	0.000	0.000	0.191	0.095	0.000	0.000	0.000	0.000	0.000	0.286
W	0.000	0.000	0.143	0.286	0.190	0.000	0.000	0.000	0.000	0.619
WNW	0.000	0.048	0.000	0.143	0.046	0.042	0.000	0.000	0.000	0.279
NW	0.000	0.000	0.000	0.000	0.134	0.382	0.000	0.000	0.000	0.517
NNW	0.000	0.000	0.000	0.143	0.091	0.460	0.000	0.000	0.000	0.694
SUBTOTAL	0.000	0.095	1.144	1.954	1.847	4.558	0.156	0.029	0.000	9.783

TOTAL HOURS OF VALID OBSERVATIONS 2098.000
TOTAL HOURS OF ELEVATED RELEASES 1905.460
TOTAL HOURS OF STABILITY CLASS F 227.990
TOTAL HOURS OF ELEVATED STABILITY CLASS F 205.250

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: 2016/08/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - JUN 30, 2016

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	0.048	0.047	0.122	0.000	0.000	0.000	0.217
NNE	0.000	0.000	0.048	0.000	0.045	0.375	0.000	0.000	0.000	0.468
NE	0.000	0.000	0.048	0.143	0.231	0.214	0.000	0.000	0.000	0.636
ENE	0.000	0.000	0.000	0.095	0.048	0.000	0.000	0.000	0.000	0.143
E	0.000	0.000	0.048	0.048	0.045	0.044	0.000	0.000	0.000	0.184
ESE	0.000	0.000	0.048	0.095	0.094	0.000	0.000	0.000	0.000	0.237
SE	0.000	0.000	0.191	0.334	0.275	0.000	0.000	0.000	0.000	0.799
SSE	0.000	0.000	0.000	0.143	0.000	0.044	0.000	0.000	0.000	0.187
S	0.000	0.000	0.095	0.048	0.046	0.000	0.000	0.000	0.000	0.189
SSW	0.000	0.048	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.095
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	0.048	0.143	0.000	0.000	0.000	0.000	0.000	0.000	0.191
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	0.042	0.000	0.000	0.000	0.042
NNW	0.000	0.000	0.048	0.000	0.092	0.000	0.000	0.000	0.000	0.140
SUBTOTAL	0.000	0.095	0.715	0.953	0.923	0.841	0.000	0.000	0.000	3.528

TOTAL HOURS OF VALID OBSERVATIONS 2098.000
TOTAL HOURS OF ELEVATED RELEASES 1905.460
TOTAL HOURS OF STABILITY CLASS G 79.560
TOTAL HOURS OF ELEVATED STABILITY CLASS G 74.020

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: 2016/08/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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BROWNS FERRY NUCLEAR PLANT

2016 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
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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, 2016 - SEP 30, 2016

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	0.040	0.120	0.000	0.000	0.000	0.159
NNE	0.000	0.000	0.000	0.000	0.016	0.034	0.000	0.000	0.000	0.050
NE	0.000	0.000	0.000	0.000	0.003	0.035	0.000	0.000	0.000	0.038
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	0.009	0.000	0.000	0.000	0.000	0.000	0.009
ESE	0.000	0.000	0.005	0.055	0.039	0.008	0.000	0.000	0.000	0.107
SE	0.000	0.000	0.043	0.091	0.000	0.000	0.000	0.000	0.000	0.134
SSE	0.000	0.000	0.059	0.038	0.000	0.000	0.000	0.000	0.000	0.097
S	0.000	0.000	0.104	0.025	0.000	0.000	0.000	0.000	0.000	0.129
SSW	0.000	0.000	0.044	0.037	0.000	0.000	0.000	0.000	0.000	0.082
SW	0.000	0.000	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.005
WSW	0.000	0.000	0.005	0.059	0.048	0.008	0.000	0.000	0.000	0.120
W	0.000	0.000	0.000	0.009	0.052	0.032	0.000	0.000	0.000	0.093
WNW	0.000	0.000	0.002	0.000	0.010	0.056	0.000	0.000	0.000	0.067
NW	0.000	0.000	0.000	0.000	0.008	0.039	0.000	0.000	0.000	0.047
NNW	0.000	0.000	0.000	0.000	0.011	0.057	0.000	0.000	0.000	0.068
SUBTOTAL	0.000	0.000	0.265	0.327	0.226	0.388	0.000	0.000	0.000	1.206

TOTAL HOURS OF VALID OBSERVATIONS 2189.000
TOTAL HOURS OF GROUND LEVEL RELEASE 134.070
TOTAL HOURS OF STABILITY CLASS A 72.550
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 26.390

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: 2017/01/10

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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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, 2016 - SEP 30, 2016

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	0.009	0.021	0.012	0.000	0.000	0.000	0.042
NNE	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.005
NE	0.000	0.000	0.000	0.001	0.005	0.000	0.000	0.000	0.000	0.006
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	0.016	0.022	0.012	0.000	0.000	0.000	0.000	0.050
SE	0.000	0.000	0.022	0.020	0.000	0.000	0.000	0.000	0.000	0.042
SSE	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
S	0.000	0.000	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.016
SSW	0.000	0.000	0.012	0.014	0.000	0.000	0.000	0.000	0.000	0.026
SW	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.004
WSW	0.000	0.000	0.000	0.021	0.034	0.000	0.000	0.000	0.000	0.055
W	0.000	0.000	0.000	0.010	0.037	0.014	0.000	0.000	0.000	0.061
WNW	0.000	0.000	0.000	0.000	0.010	0.041	0.000	0.000	0.000	0.051
NW	0.000	0.000	0.000	0.000	0.007	0.017	0.000	0.000	0.000	0.024
NNW	0.000	0.000	0.000	0.000	0.002	0.014	0.000	0.000	0.000	0.016
SUBTOTAL	0.000	0.000	0.068	0.102	0.133	0.099	0.000	0.000	0.000	0.402

TOTAL HOURS OF VALID OBSERVATIONS 2189.000
TOTAL HOURS OF GROUND LEVEL RELEASE 134.070
TOTAL HOURS OF STABILITY CLASS B 96.890
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: 2017/01/10

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2016 - SEP 30, 2016

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	0.003	0.004	0.008	0.000	0.000	0.000	0.015
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	0.002	0.010	0.012	0.000	0.000	0.000	0.024
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.005
ESE	0.000	0.000	0.000	0.046	0.015	0.000	0.000	0.000	0.000	0.061
SE	0.000	0.000	0.010	0.002	0.000	0.000	0.000	0.000	0.000	0.011
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	0.007	0.015	0.000	0.000	0.000	0.000	0.000	0.022
SW	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.005
WSW	0.000	0.000	0.002	0.023	0.011	0.000	0.000	0.000	0.000	0.036
W	0.000	0.000	0.000	0.007	0.035	0.007	0.000	0.000	0.000	0.049
WNW	0.000	0.000	0.000	0.000	0.015	0.023	0.000	0.000	0.000	0.037
NW	0.000	0.000	0.000	0.000	0.009	0.000	0.010	0.000	0.000	0.019
NNW	0.000	0.000	0.000	0.000	0.009	0.008	0.000	0.000	0.000	0.017
SUBTOTAL	0.000	0.000	0.025	0.098	0.113	0.058	0.010	0.000	0.000	0.303

TOTAL HOURS OF VALID OBSERVATIONS 2189.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 134.070
 TOTAL HOURS OF STABILITY CLASS C 186.470
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 6.640

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: 2017/01/10

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2016 - SEP 30, 2016

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	0.052	0.042	0.033	0.000	0.000	0.000	0.127
NNE	0.000	0.000	0.000	0.029	0.048	0.022	0.000	0.000	0.000	0.100
NE	0.000	0.000	0.000	0.009	0.032	0.036	0.000	0.000	0.000	0.076
ENE	0.000	0.000	0.000	0.011	0.017	0.000	0.000	0.000	0.000	0.028
E	0.000	0.000	0.008	0.049	0.025	0.000	0.000	0.000	0.000	0.082
ESE	0.000	0.000	0.067	0.174	0.048	0.000	0.000	0.000	0.000	0.289
SE	0.000	0.000	0.078	0.018	0.000	0.000	0.000	0.000	0.000	0.095
SSE	0.000	0.000	0.105	0.000	0.000	0.000	0.000	0.000	0.000	0.105
S	0.000	0.000	0.144	0.009	0.000	0.000	0.000	0.000	0.000	0.153
SSW	0.000	0.000	0.126	0.049	0.000	0.000	0.000	0.000	0.000	0.175
SW	0.000	0.000	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.041
WSW	0.000	0.000	0.032	0.043	0.027	0.000	0.000	0.000	0.000	0.101
W	0.000	0.000	0.003	0.054	0.051	0.034	0.000	0.000	0.000	0.142
WNW	0.000	0.000	0.000	0.005	0.008	0.059	0.000	0.000	0.000	0.072
NW	0.000	0.000	0.000	0.005	0.003	0.029	0.000	0.000	0.000	0.037
NNW	0.000	0.000	0.000	0.009	0.038	0.047	0.000	0.000	0.000	0.094
SUBTOTAL	0.000	0.000	0.603	0.517	0.339	0.260	0.000	0.000	0.000	1.719

TOTAL HOURS OF VALID OBSERVATIONS 2189.000
TOTAL HOURS OF GROUND LEVEL RELEASE 134.070
TOTAL HOURS OF STABILITY CLASS D 848.250
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 37.620

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

DATE PRINTED: 2017/01/10

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2016 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, 2016 - SEP 30, 2016

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	0.072	0.122	0.007	0.000	0.000	0.000	0.000	0.201
NNE	0.000	0.000	0.038	0.134	0.065	0.017	0.000	0.000	0.000	0.255
NE	0.000	0.002	0.016	0.074	0.083	0.030	0.000	0.000	0.000	0.205
ENE	0.000	0.000	0.052	0.048	0.013	0.000	0.000	0.000	0.000	0.112
E	0.000	0.002	0.079	0.080	0.021	0.000	0.000	0.000	0.000	0.183
ESE	0.000	0.000	0.087	0.061	0.000	0.000	0.000	0.000	0.000	0.148
SE	0.000	0.007	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.055
SSE	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.007
S	0.000	0.005	0.085	0.000	0.000	0.000	0.000	0.000	0.000	0.090
SSW	0.000	0.009	0.088	0.030	0.000	0.000	0.000	0.000	0.000	0.127
SW	0.000	0.000	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.018
WSW	0.000	0.000	0.001	0.005	0.000	0.000	0.000	0.000	0.000	0.005
W	0.000	0.000	0.004	0.024	0.012	0.000	0.000	0.000	0.000	0.040
WNW	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.003
NW	0.000	0.005	0.000	0.006	0.000	0.006	0.000	0.000	0.000	0.017
NNW	0.000	0.000	0.011	0.045	0.043	0.000	0.000	0.000	0.000	0.100
SUBTOTAL	0.000	0.031	0.608	0.629	0.247	0.053	0.000	0.000	0.000	1.567

TOTAL HOURS OF VALID OBSERVATIONS 2189.000
TOTAL HOURS OF GROUND LEVEL RELEASE 134.070
TOTAL HOURS OF STABILITY CLASS E 630.000
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 34.310

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

DATE PRINTED: 2017/01/10

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - SEP 30, 2016

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	0.121	0.069	0.000	0.000	0.000	0.000	0.000	0.190
NNE	0.000	0.000	0.079	0.102	0.037	0.000	0.000	0.000	0.000	0.217
NE	0.000	0.000	0.053	0.031	0.007	0.000	0.000	0.000	0.000	0.092
ENE	0.000	0.000	0.047	0.020	0.000	0.000	0.000	0.000	0.000	0.067
E	0.000	0.003	0.072	0.030	0.000	0.000	0.000	0.000	0.000	0.105
ESE	0.000	0.012	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.020
SE	0.000	0.003	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.008
SSE	0.000	0.005	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.009
S	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005
SSW	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.006
W	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
WNW	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.003
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.002	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.015
SUBTOTAL	0.000	0.039	0.400	0.261	0.044	0.000	0.000	0.000	0.000	0.744

TOTAL HOURS OF VALID OBSERVATIONS 2189.000
TOTAL HOURS OF GROUND LEVEL RELEASE 134.070
TOTAL HOURS OF STABILITY CLASS F 295.640
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 16.290

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: 2017/01/10

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**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 G (DELTA T > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2016 - SEP 30, 2016

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	0.005	0.053	0.005	0.000	0.000	0.000	0.000	0.000	0.063
NNE	0.000	0.007	0.025	0.003	0.000	0.000	0.000	0.000	0.000	0.035
NE	0.000	0.008	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.015
ENE	0.000	0.001	0.013	0.005	0.008	0.000	0.000	0.000	0.000	0.027
E	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.021
ESE	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.003
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.005	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	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.003
NNW	0.000	0.002	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.014
SUBTOTAL	0.000	0.023	0.132	0.016	0.013	0.000	0.000	0.000	0.000	0.184

TOTAL HOURS OF VALID OBSERVATIONS 2189.000
TOTAL HOURS OF GROUND LEVEL RELEASE 134.070
TOTAL HOURS OF STABILITY CLASS G 59.200
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 4.030

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: 2017/01/10

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**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 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2016 - SEP 30, 2016

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	0.076	0.000	0.000	0.076
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	0.080	0.000	0.000	0.000	0.080
SE	0.000	0.000	0.000	0.046	0.177	0.196	0.000	0.000	0.000	0.000	0.419
SSE	0.000	0.000	0.000	0.091	0.265	0.081	0.151	0.000	0.000	0.000	0.588
S	0.000	0.000	0.000	0.046	0.134	0.238	0.000	0.000	0.000	0.000	0.418
SSW	0.000	0.000	0.000	0.000	0.045	0.082	0.000	0.000	0.000	0.000	0.127
SW	0.000	0.000	0.000	0.000	0.043	0.118	0.075	0.000	0.000	0.000	0.236
WSW	0.000	0.000	0.000	0.000	0.042	0.039	0.000	0.000	0.000	0.000	0.081
W	0.000	0.000	0.000	0.000	0.043	0.041	0.000	0.000	0.000	0.000	0.084
WNW	0.000	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	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	0.183	0.749	0.875	0.302	0.000	0.000	0.000	2.109

TOTAL HOURS OF VALID OBSERVATIONS 2189.000
TOTAL HOURS OF ELEVATED RELEASES 2054.930
TOTAL HOURS OF STABILITY CLASS A 72.550
TOTAL HOURS OF ELEVATED STABILITY CLASS A 46.160

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: 2017/01/10

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - SEP 30, 2016

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	0.558	0.038	0.000	0.000	0.596
NNE	0.000	0.000	0.000	0.000	0.000	0.157	0.000	0.000	0.000	0.157
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	0.183	0.266	0.317	0.000	0.000	0.000	0.767
SSE	0.000	0.000	0.000	0.274	0.177	0.082	0.000	0.000	0.000	0.533
S	0.000	0.000	0.000	0.274	0.176	0.077	0.038	0.000	0.000	0.565
SSW	0.000	0.000	0.000	0.046	0.091	0.042	0.000	0.000	0.000	0.179
SW	0.000	0.000	0.000	0.000	0.043	0.204	0.000	0.000	0.000	0.247
WSW	0.000	0.000	0.000	0.000	0.180	0.283	0.076	0.000	0.000	0.539
W	0.000	0.000	0.000	0.000	0.090	0.080	0.000	0.000	0.000	0.170
WNW	0.000	0.000	0.000	0.000	0.044	0.117	0.000	0.000	0.000	0.161
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.075	0.000	0.000	0.075
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.000	0.000	0.037
SUBTOTAL	0.000	0.000	0.000	0.777	1.067	1.917	0.264	0.000	0.000	4.025

TOTAL HOURS OF VALID OBSERVATIONS 2189.000
TOTAL HOURS OF ELEVATED RELEASES 2054.930
TOTAL HOURS OF STABILITY CLASS B 96.890
TOTAL HOURS OF ELEVATED STABILITY CLASS B 88.100

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: 2017/01/10

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - SEP 30, 2016

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	0.174	0.481	0.075	0.000	0.000	0.731
NNE	0.000	0.000	0.000	0.046	0.000	0.206	0.000	0.000	0.000	0.252
NE	0.000	0.000	0.000	0.000	0.043	0.077	0.038	0.000	0.000	0.158
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.039	0.037	0.000	0.000	0.077
SE	0.000	0.000	0.000	0.228	0.132	0.120	0.150	0.000	0.000	0.630
SSE	0.000	0.000	0.091	0.320	0.354	0.082	0.110	0.000	0.000	0.957
S	0.000	0.000	0.091	0.503	0.219	0.352	0.038	0.000	0.000	1.203
SSW	0.000	0.000	0.091	0.274	0.090	0.042	0.000	0.000	0.000	0.497
SW	0.000	0.000	0.091	0.320	0.132	0.164	0.000	0.000	0.000	0.706
WSW	0.000	0.000	0.000	0.228	0.260	0.515	0.000	0.000	0.000	1.004
W	0.000	0.000	0.000	0.137	0.392	0.371	0.038	0.000	0.000	0.938
WNW	0.000	0.000	0.000	0.000	0.131	0.401	0.038	0.000	0.000	0.570
NW	0.000	0.000	0.000	0.000	0.044	0.322	0.000	0.000	0.000	0.365
NNW	0.000	0.000	0.000	0.000	0.043	0.039	0.000	0.000	0.000	0.083
SUBTOTAL	0.000	0.000	0.411	2.056	2.012	3.211	0.525	0.000	0.000	8.215

TOTAL HOURS OF VALID OBSERVATIONS 2189.000
 TOTAL HOURS OF ELEVATED RELEASES 2054.930
 TOTAL HOURS OF STABILITY CLASS C 186.470
 TOTAL HOURS OF ELEVATED STABILITY CLASS C 179.830

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: 2017/01/10

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2016 - SEP 30, 2016

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	0.091	0.228	0.263	1.005	0.263	0.000	0.000	1.851
NNE	0.000	0.000	0.137	0.320	0.178	0.681	0.076	0.000	0.000	1.392
NE	0.000	0.000	0.046	0.137	0.398	0.323	0.076	0.000	0.000	0.979
ENE	0.000	0.000	0.183	0.183	0.133	0.000	0.000	0.000	0.000	0.499
E	0.000	0.000	0.000	0.274	0.090	0.163	0.000	0.000	0.000	0.527
ESE	0.000	0.000	0.000	0.457	0.346	0.816	0.113	0.000	0.000	1.732
SE	0.000	0.000	0.228	1.142	0.531	0.728	0.448	0.035	0.000	3.113
SSE	0.000	0.000	1.096	0.868	0.442	1.395	0.934	0.032	0.000	4.768
S	0.000	0.046	0.868	1.645	1.812	0.918	0.264	0.103	0.000	5.656
SSW	0.000	0.000	0.640	1.827	0.972	0.968	0.187	0.000	0.000	4.594
SW	0.000	0.046	0.868	1.096	0.974	0.576	0.000	0.000	0.000	3.560
WSW	0.000	0.000	0.183	0.868	0.617	0.603	0.037	0.000	0.000	2.308
W	0.000	0.000	0.274	0.685	0.882	0.606	0.038	0.000	0.000	2.485
WNW	0.000	0.046	0.046	0.548	0.478	0.522	0.038	0.000	0.000	1.677
NW	0.000	0.000	0.091	0.183	0.391	0.202	0.037	0.036	0.000	0.941
NNW	0.000	0.000	0.046	0.183	0.175	0.322	0.226	0.000	0.000	0.952
SUBTOTAL	0.000	0.137	4.797	10.644	8.682	9.829	2.736	0.207	0.000	37.032

TOTAL HOURS OF VALID OBSERVATIONS 2189.000
TOTAL HOURS OF ELEVATED RELEASES 2054.930
TOTAL HOURS OF STABILITY CLASS D 848.250
TOTAL HOURS OF ELEVATED STABILITY CLASS D 810.630

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: 2017/01/10

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2016 - SEP 30, 2016

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	0.091	0.274	0.228	0.264	1.329	0.188	0.000	0.000	2.375
NNE	0.000	0.000	0.137	0.183	0.527	1.813	0.150	0.000	0.000	2.810
NE	0.000	0.000	0.183	0.411	0.225	1.364	0.114	0.000	0.000	2.296
ENE	0.000	0.000	0.228	0.274	0.354	0.327	0.000	0.000	0.000	1.184
E	0.000	0.000	0.137	0.411	0.748	0.489	0.000	0.000	0.000	1.785
ESE	0.000	0.000	0.046	0.091	0.350	0.814	0.038	0.000	0.000	1.339
SE	0.000	0.000	0.594	0.594	0.748	0.610	0.188	0.000	0.000	2.734
SSE	0.000	0.046	0.320	0.640	0.663	0.731	0.225	0.000	0.000	2.624
S	0.000	0.046	0.640	0.731	0.397	0.447	0.076	0.000	0.000	2.337
SSW	0.000	0.000	0.411	0.822	0.442	0.727	0.188	0.000	0.000	2.590
SW	0.000	0.000	0.640	0.411	0.265	0.041	0.000	0.000	0.000	1.357
WSW	0.000	0.000	0.137	0.365	0.135	0.038	0.000	0.000	0.000	0.676
W	0.000	0.046	0.320	0.457	0.355	0.082	0.000	0.000	0.000	1.259
WNW	0.000	0.000	0.137	0.183	0.046	0.282	0.038	0.000	0.000	0.686
NW	0.000	0.046	0.000	0.046	0.217	0.079	0.000	0.000	0.000	0.388
NNW	0.000	0.000	0.183	0.091	0.180	0.320	0.000	0.000	0.000	0.773
SUBTOTAL	0.000	0.274	4.386	5.939	5.915	9.494	1.205	0.000	0.000	27.213

TOTAL HOURS OF VALID OBSERVATIONS 2189.000
TOTAL HOURS OF ELEVATED RELEASES 2054.930
TOTAL HOURS OF STABILITY CLASS E 630.000
TOTAL HOURS OF ELEVATED STABILITY CLASS E 595.690

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: 2017/01/10

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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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, 2016 - SEP 30, 2016

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	0.395	0.401	0.000	0.000	0.000	0.842
NNE	0.000	0.046	0.000	0.183	0.261	0.997	0.038	0.000	0.000	1.524
NE	0.000	0.000	0.228	0.594	0.226	1.327	0.038	0.000	0.000	2.413
ENE	0.000	0.000	0.046	0.365	0.656	0.691	0.000	0.000	0.000	1.758
E	0.000	0.000	0.046	0.503	0.661	0.490	0.000	0.000	0.000	1.700
ESE	0.000	0.000	0.137	0.411	0.307	0.283	0.000	0.000	0.000	1.138
SE	0.000	0.000	0.274	0.183	0.177	0.042	0.000	0.000	0.000	0.676
SSE	0.000	0.000	0.091	0.274	0.045	0.042	0.000	0.000	0.000	0.453
S	0.000	0.000	0.274	0.137	0.000	0.039	0.000	0.000	0.000	0.450
SSW	0.000	0.000	0.137	0.091	0.177	0.204	0.000	0.000	0.000	0.609
SW	0.000	0.000	0.183	0.000	0.000	0.000	0.000	0.000	0.000	0.183
WSW	0.000	0.000	0.228	0.091	0.000	0.000	0.000	0.000	0.000	0.320
W	0.000	0.000	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.137
WNW	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
NW	0.000	0.000	0.046	0.046	0.000	0.081	0.000	0.000	0.000	0.172
NNW	0.000	0.000	0.046	0.091	0.043	0.160	0.000	0.000	0.000	0.340
SUBTOTAL	0.000	0.091	1.873	3.015	2.949	4.757	0.076	0.000	0.000	12.762

TOTAL HOURS OF VALID OBSERVATIONS 2189.000
TOTAL HOURS OF ELEVATED RELEASES 2054.930
TOTAL HOURS OF STABILITY CLASS F 295.640
TOTAL HOURS OF ELEVATED STABILITY CLASS F 279.350

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: 2017/01/10

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - SEP 30, 2016

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	0.000
NNE	0.000	0.000	0.046	0.000	0.087	0.235	0.038	0.000	0.000	0.000	0.405
NE	0.000	0.000	0.000	0.091	0.131	0.289	0.000	0.000	0.000	0.000	0.511
ENE	0.000	0.000	0.000	0.274	0.132	0.165	0.000	0.000	0.000	0.000	0.571
E	0.000	0.000	0.000	0.046	0.044	0.041	0.037	0.000	0.000	0.000	0.168
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	0.046	0.046	0.046	0.042	0.000	0.000	0.000	0.000	0.179
SSE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
S	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.091
SSW	0.000	0.000	0.046	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.137
SW	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.091
WSW	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.091
W	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.091
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
NNW	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.091
SUBTOTAL	0.000	0.000	0.548	0.685	0.439	0.772	0.075	0.000	0.000	0.000	2.520

TOTAL HOURS OF VALID OBSERVATIONS 2189.000
TOTAL HOURS OF ELEVATED RELEASES 2054.930
TOTAL HOURS OF STABILITY CLASS G 59.200
TOTAL HOURS OF ELEVATED STABILITY CLASS G 55.170

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: 2017/01/10

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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BROWNS FERRY NUCLEAR PLANT

2016 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
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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

OCT 1, 2016 - DEC 31, 2016

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	0.107	0.013	0.000	0.000	0.120
NNE	0.000	0.000	0.000	0.000	0.000	0.074	0.000	0.000	0.000	0.074
NE	0.000	0.000	0.000	0.000	0.000	0.009	0.028	0.000	0.000	0.037
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.005
ESE	0.000	0.000	0.000	0.030	0.056	0.000	0.000	0.000	0.000	0.086
SE	0.000	0.000	0.016	0.157	0.024	0.000	0.000	0.000	0.000	0.197
SSE	0.000	0.000	0.078	0.152	0.000	0.000	0.000	0.000	0.000	0.230
S	0.000	0.000	0.029	0.039	0.000	0.000	0.000	0.000	0.000	0.069
SSW	0.000	0.000	0.000	0.065	0.021	0.000	0.000	0.000	0.000	0.086
SW	0.000	0.000	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.013
WSW	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.006
W	0.000	0.000	0.000	0.003	0.007	0.000	0.000	0.000	0.000	0.010
WNW	0.000	0.000	0.000	0.000	0.001	0.014	0.000	0.000	0.000	0.015
NW	0.000	0.000	0.000	0.000	0.005	0.060	0.044	0.000	0.000	0.108
NNW	0.000	0.000	0.000	0.000	0.004	0.060	0.044	0.000	0.000	0.108
SUBTOTAL	0.000	0.000	0.124	0.466	0.121	0.324	0.129	0.000	0.000	1.163

TOTAL HOURS OF VALID OBSERVATIONS 2204.000
TOTAL HOURS OF GROUND LEVEL RELEASE 247.070
TOTAL HOURS OF STABILITY CLASS A 45.030
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 25.640

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: 2017/01/27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - DEC 31, 2016

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	0.050	0.000	0.000	0.000	0.050
NNE	0.000	0.000	0.000	0.000	0.006	0.036	0.000	0.000	0.000	0.043
NE	0.000	0.000	0.000	0.000	0.008	0.000	0.009	0.000	0.000	0.017
ENE	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.003
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	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.011
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	0.015	0.018	0.000	0.000	0.000	0.000	0.000	0.032
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.005	0.041	0.000	0.000	0.000	0.046
NW	0.000	0.000	0.000	0.000	0.008	0.044	0.029	0.079	0.000	0.161
NNW	0.000	0.000	0.000	0.000	0.004	0.042	0.009	0.000	0.000	0.055
SUBTOTAL	0.000	0.000	0.015	0.039	0.034	0.213	0.048	0.079	0.000	0.428

TOTAL HOURS OF VALID OBSERVATIONS 2204.000
TOTAL HOURS OF GROUND LEVEL RELEASE 247.070
TOTAL HOURS OF STABILITY CLASS B 43.910
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 9.440

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: 2017/01/27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2016 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, 2016 - DEC 31, 2016

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	0.028	0.014	0.000	0.000	0.000	0.041
NNE	0.000	0.000	0.000	0.000	0.015	0.030	0.000	0.000	0.000	0.045
NE	0.000	0.000	0.000	0.000	0.009	0.014	0.000	0.000	0.000	0.023
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.020	0.029	0.000	0.000	0.000	0.000	0.049
SE	0.000	0.000	0.001	0.015	0.000	0.000	0.000	0.000	0.000	0.016
SSE	0.000	0.000	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.016
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.003
SW	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.002
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	0.009	0.000	0.000	0.000	0.009
WNW	0.000	0.000	0.000	0.000	0.011	0.031	0.017	0.000	0.000	0.060
NW	0.000	0.000	0.000	0.000	0.006	0.020	0.018	0.037	0.000	0.080
NNW	0.000	0.000	0.000	0.002	0.020	0.053	0.000	0.000	0.000	0.075
SUBTOTAL	0.000	0.000	0.020	0.040	0.118	0.171	0.035	0.037	0.000	0.421

TOTAL HOURS OF VALID OBSERVATIONS 2204.000
TOTAL HOURS OF GROUND LEVEL RELEASE 247.070
TOTAL HOURS OF STABILITY CLASS C 79.610
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 9.270

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: 2017/01/27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2016 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, 2016 - DEC 31, 2016

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	0.003	0.051	0.101	0.137	0.000	0.000	0.000	0.291
NNE	0.000	0.000	0.001	0.048	0.089	0.123	0.000	0.000	0.000	0.260
NE	0.000	0.000	0.000	0.029	0.054	0.020	0.000	0.000	0.000	0.103
ENE	0.000	0.000	0.000	0.019	0.015	0.000	0.000	0.000	0.000	0.034
E	0.000	0.000	0.005	0.024	0.015	0.000	0.000	0.000	0.000	0.043
ESE	0.000	0.000	0.029	0.130	0.074	0.000	0.000	0.000	0.000	0.233
SE	0.000	0.000	0.025	0.027	0.000	0.000	0.000	0.000	0.000	0.053
SSE	0.000	0.000	0.045	0.022	0.000	0.000	0.000	0.000	0.000	0.067
S	0.000	0.002	0.050	0.098	0.021	0.000	0.000	0.000	0.000	0.171
SSW	0.000	0.000	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.018
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	0.001	0.005	0.008	0.000	0.000	0.000	0.000	0.014
W	0.000	0.000	0.004	0.024	0.028	0.023	0.000	0.000	0.000	0.078
WNW	0.000	0.000	0.000	0.005	0.026	0.149	0.039	0.000	0.000	0.220
NW	0.000	0.000	0.000	0.014	0.056	0.205	0.375	0.038	0.000	0.688
NNW	0.000	0.000	0.000	0.019	0.109	0.235	0.035	0.000	0.000	0.397
SUBTOTAL	0.000	0.002	0.180	0.516	0.596	0.890	0.449	0.038	0.000	2.672

TOTAL HOURS OF VALID OBSERVATIONS 2204.000
TOTAL HOURS OF GROUND LEVEL RELEASE 247.070
TOTAL HOURS OF STABILITY CLASS D 743.400
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 58.880

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: 2017/01/27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2016 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, 2016 - DEC 31, 2016

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	0.042	0.056	0.015	0.044	0.000	0.000	0.000	0.157
NNE	0.000	0.007	0.010	0.078	0.067	0.016	0.000	0.000	0.000	0.178
NE	0.000	0.000	0.009	0.027	0.039	0.022	0.000	0.000	0.000	0.097
ENE	0.000	0.010	0.010	0.026	0.014	0.000	0.000	0.000	0.000	0.059
E	0.000	0.007	0.046	0.078	0.000	0.000	0.000	0.000	0.000	0.130
ESE	0.000	0.012	0.145	0.278	0.008	0.000	0.000	0.000	0.000	0.442
SE	0.000	0.000	0.112	0.049	0.000	0.000	0.000	0.000	0.000	0.160
SSE	0.000	0.000	0.087	0.135	0.045	0.000	0.000	0.000	0.000	0.267
S	0.000	0.007	0.145	0.117	0.331	0.221	0.000	0.000	0.000	0.821
SSW	0.000	0.000	0.035	0.025	0.049	0.000	0.000	0.000	0.000	0.110
SW	0.000	0.005	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.017
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	0.005	0.005	0.000	0.009	0.000	0.000	0.000	0.019
WNW	0.000	0.000	0.000	0.015	0.006	0.016	0.061	0.000	0.000	0.098
NW	0.000	0.000	0.002	0.028	0.019	0.069	0.000	0.039	0.000	0.157
NNW	0.000	0.000	0.034	0.120	0.061	0.091	0.000	0.000	0.000	0.305
SUBTOTAL	0.000	0.047	0.686	1.044	0.664	0.488	0.061	0.039	0.000	3.028

TOTAL HOURS OF VALID OBSERVATIONS 2204.000
TOTAL HOURS OF GROUND LEVEL RELEASE 247.070
TOTAL HOURS OF STABILITY CLASS E 675.530
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 66.740

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

DATE PRINTED: 2017/01/27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCT 1, 2016 - DEC 31, 2016

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	0.006	0.132	0.090	0.017	0.000	0.000	0.000	0.000	0.245
NNE	0.000	0.000	0.028	0.167	0.024	0.000	0.000	0.000	0.000	0.218
NE	0.000	0.007	0.012	0.041	0.020	0.000	0.000	0.000	0.000	0.081
ENE	0.000	0.013	0.049	0.013	0.000	0.000	0.000	0.000	0.000	0.074
E	0.000	0.006	0.106	0.061	0.000	0.000	0.000	0.000	0.000	0.173
ESE	0.000	0.032	0.134	0.013	0.000	0.000	0.000	0.000	0.000	0.178
SE	0.000	0.031	0.029	0.035	0.000	0.000	0.000	0.000	0.000	0.095
SSE	0.000	0.051	0.031	0.043	0.045	0.000	0.000	0.000	0.000	0.171
S	0.000	0.010	0.153	0.239	0.311	0.271	0.000	0.000	0.000	0.984
SSW	0.000	0.005	0.018	0.015	0.000	0.000	0.000	0.000	0.000	0.038
SW	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.008
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.004
WNW	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004
NW	0.000	0.000	0.002	0.006	0.000	0.000	0.000	0.000	0.000	0.008
NNW	0.000	0.000	0.060	0.080	0.008	0.000	0.000	0.000	0.000	0.148
SUBTOTAL	0.000	0.165	0.758	0.811	0.425	0.271	0.000	0.000	0.000	2.430

TOTAL HOURS OF VALID OBSERVATIONS 2204.000
TOTAL HOURS OF GROUND LEVEL RELEASE 247.070
TOTAL HOURS OF STABILITY CLASS F 429.840
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 53.550

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: 2017/01/27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2016 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, 2016 - DEC 31, 2016

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	0.014	0.066	0.091	0.000	0.000	0.000	0.000	0.000	0.170
NNE	0.000	0.007	0.020	0.013	0.000	0.000	0.000	0.000	0.000	0.040
NE	0.000	0.004	0.020	0.006	0.000	0.000	0.000	0.000	0.000	0.029
ENE	0.000	0.010	0.049	0.004	0.000	0.000	0.000	0.000	0.000	0.063
E	0.000	0.017	0.057	0.005	0.000	0.000	0.000	0.000	0.000	0.079
ESE	0.000	0.020	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.029
SE	0.000	0.049	0.021	0.009	0.000	0.000	0.000	0.000	0.000	0.079
SSE	0.000	0.064	0.143	0.000	0.000	0.000	0.000	0.000	0.000	0.207
S	0.000	0.013	0.130	0.000	0.174	0.000	0.000	0.000	0.000	0.317
SSW	0.000	0.001	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.013
SW	0.000	0.003	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.008
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	0.001	0.024	0.007	0.000	0.000	0.000	0.000	0.000	0.033
SUBTOTAL	0.000	0.206	0.555	0.134	0.174	0.000	0.000	0.000	0.000	1.069

TOTAL HOURS OF VALID OBSERVATIONS 2204.000
TOTAL HOURS OF GROUND LEVEL RELEASE 247.070
TOTAL HOURS OF STABILITY CLASS G 186.680
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 23.550

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: 2017/01/27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2016 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, 2016 - DEC 31, 2016

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	0.183	0.032	0.000	0.215
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.074	0.000	0.000	0.074
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	0.038	0.000	0.000	0.000	0.038
SE	0.000	0.000	0.000	0.000	0.000	0.120	0.037	0.000	0.000	0.157
SSE	0.000	0.000	0.000	0.000	0.042	0.080	0.148	0.000	0.000	0.270
S	0.000	0.000	0.000	0.000	0.087	0.039	0.000	0.000	0.000	0.125
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.129	0.277	0.441	0.032	0.000	0.880

TOTAL HOURS OF VALID OBSERVATIONS 2204.000
TOTAL HOURS OF ELEVATED RELEASES 1956.930
TOTAL HOURS OF STABILITY CLASS A 45.030
TOTAL HOURS OF ELEVATED STABILITY CLASS A 19.390

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: 2017/01/27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

OCT 1, 2016 - DEC 31, 2016

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	0.116	0.110	0.000	0.000	0.226
NNE	0.000	0.000	0.000	0.000	0.000	0.154	0.075	0.000	0.000	0.229
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.072	0.000	0.000	0.072
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	0.111	0.000	0.000	0.111
SE	0.000	0.000	0.000	0.000	0.044	0.166	0.000	0.000	0.000	0.209
SSE	0.000	0.000	0.000	0.000	0.131	0.000	0.037	0.030	0.007	0.205
S	0.000	0.000	0.000	0.000	0.000	0.041	0.038	0.000	0.000	0.078
SSW	0.000	0.000	0.000	0.045	0.000	0.158	0.000	0.000	0.000	0.203
SW	0.000	0.000	0.000	0.045	0.000	0.039	0.000	0.000	0.000	0.085
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	0.145	0.000	0.000	0.145
SUBTOTAL	0.000	0.000	0.000	0.091	0.174	0.674	0.588	0.030	0.007	1.564

TOTAL HOURS OF VALID OBSERVATIONS 2204.000
TOTAL HOURS OF ELEVATED RELEASES 1956.930
TOTAL HOURS OF STABILITY CLASS B 43.910
TOTAL HOURS OF ELEVATED STABILITY CLASS B 34.470

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: 2017/01/27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

OCT 1, 2016 - DEC 31, 2016

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	0.237	0.149	0.029	0.000	0.415
NNE	0.000	0.000	0.000	0.000	0.043	0.199	0.074	0.000	0.000	0.316
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.036	0.000	0.000	0.036
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	0.117	0.000	0.000	0.000	0.117
SE	0.000	0.000	0.000	0.045	0.217	0.316	0.112	0.000	0.000	0.690
SSE	0.000	0.000	0.000	0.000	0.000	0.080	0.036	0.021	0.000	0.137
S	0.000	0.000	0.000	0.000	0.000	0.038	0.000	0.000	0.000	0.038
SSW	0.000	0.000	0.000	0.136	0.000	0.116	0.075	0.000	0.000	0.327
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	0.045	0.000	0.000	0.000	0.000	0.000	0.045
W	0.000	0.000	0.000	0.000	0.045	0.124	0.000	0.000	0.000	0.169
WNW	0.000	0.000	0.000	0.000	0.044	0.041	0.075	0.000	0.000	0.160
NW	0.000	0.000	0.000	0.000	0.000	0.238	0.223	0.000	0.007	0.468
NNW	0.000	0.000	0.000	0.000	0.000	0.196	0.075	0.000	0.000	0.272
SUBTOTAL	0.000	0.000	0.000	0.227	0.349	1.703	0.856	0.049	0.007	3.191

TOTAL HOURS OF VALID OBSERVATIONS 2204.000
 TOTAL HOURS OF ELEVATED RELEASES 1956.930
 TOTAL HOURS OF STABILITY CLASS C 79.610
 TOTAL HOURS OF ELEVATED STABILITY CLASS C 70.340

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: 2017/01/27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2016 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, 2016 - DEC 31, 2016

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	0.045	0.227	0.441	1.475	1.292	0.029	0.000	3.509
NNE	0.000	0.000	0.136	0.136	0.656	1.241	0.483	0.000	0.000	2.652
NE	0.000	0.000	0.227	0.363	0.564	0.891	0.036	0.000	0.000	2.082
ENE	0.000	0.000	0.091	0.181	0.172	0.205	0.000	0.000	0.000	0.649
E	0.000	0.000	0.136	0.091	0.086	0.080	0.038	0.000	0.000	0.431
ESE	0.000	0.000	0.227	0.227	0.397	0.558	0.075	0.000	0.000	1.484
SE	0.000	0.000	0.454	1.044	0.657	0.885	0.480	0.218	0.000	3.736
SSE	0.000	0.000	0.590	0.499	0.221	0.436	0.368	0.117	0.000	2.231
S	0.000	0.000	0.408	0.136	0.045	0.351	0.480	0.067	0.000	1.488
SSW	0.000	0.000	0.272	0.227	0.044	0.234	0.149	0.049	0.000	0.975
SW	0.000	0.000	0.272	0.136	0.085	0.040	0.000	0.000	0.000	0.534
WSW	0.000	0.000	0.181	0.227	0.090	0.080	0.038	0.000	0.000	0.616
W	0.000	0.000	0.091	0.272	0.616	0.437	0.222	0.000	0.000	1.638
WNW	0.000	0.000	0.181	0.363	0.699	0.676	0.555	0.060	0.000	2.535
NW	0.000	0.000	0.091	0.227	0.350	1.556	0.956	0.296	0.026	3.501
NNW	0.000	0.000	0.000	0.272	0.605	1.200	0.921	0.000	0.000	2.998
SUBTOTAL	0.000	0.000	3.403	4.628	5.728	10.345	6.093	0.835	0.026	31.058
TOTAL HOURS OF VALID OBSERVATIONS				2204.000						
TOTAL HOURS OF ELEVATED RELEASES				1956.930						
TOTAL HOURS OF STABILITY CLASS D				743.400						
TOTAL HOURS OF ELEVATED STABILITY CLASS D				684.520						

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: 2017/01/27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

OCT 1, 2016 - DEC 31, 2016

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	0.091	0.136	0.305	0.592	0.481	0.000	0.000	1.604
NNE	0.000	0.000	0.091	0.181	0.475	1.032	0.336	0.000	0.000	2.115
NE	0.000	0.000	0.091	0.408	0.655	0.719	0.038	0.000	0.000	1.911
ENE	0.000	0.000	0.136	0.272	0.309	0.279	0.000	0.000	0.000	0.996
E	0.000	0.000	0.045	0.227	0.218	0.322	0.000	0.000	0.000	0.812
ESE	0.000	0.000	0.181	0.318	0.434	1.356	0.113	0.000	0.000	2.402
SE	0.000	0.000	0.272	0.635	0.524	1.902	0.559	0.090	0.000	3.982
SSE	0.000	0.045	0.136	0.635	0.388	0.873	0.479	0.279	0.010	2.846
S	0.000	0.000	0.091	0.318	0.178	0.948	0.848	0.460	0.030	2.873
SSW	0.000	0.000	0.045	0.363	0.352	0.675	0.407	0.204	0.000	2.045
SW	0.000	0.000	0.091	0.318	0.134	0.039	0.038	0.000	0.000	0.618
WSW	0.000	0.000	0.045	0.181	0.088	0.000	0.036	0.000	0.000	0.352
W	0.000	0.000	0.045	0.318	0.222	0.081	0.075	0.000	0.000	0.742
WNW	0.000	0.000	0.045	0.363	0.088	0.201	0.073	0.030	0.000	0.800
NW	0.000	0.091	0.181	0.227	0.086	0.407	0.222	0.036	0.000	1.250
NNW	0.000	0.045	0.045	0.136	0.387	1.547	0.113	0.000	0.000	2.273
SUBTOTAL	0.000	0.181	1.633	5.036	4.841	10.974	3.817	1.100	0.039	27.622

TOTAL HOURS OF VALID OBSERVATIONS 2204.000
TOTAL HOURS OF ELEVATED RELEASES 1956.930
TOTAL HOURS OF STABILITY CLASS E 675.530
TOTAL HOURS OF ELEVATED STABILITY CLASS E 608.790

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: 2017/01/27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - DEC 31, 2016

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	0.045	0.045	0.130	0.679	0.149	0.000	0.000	1.049
NNE	0.000	0.000	0.000	0.000	0.175	1.140	0.113	0.000	0.000	1.427
NE	0.000	0.000	0.136	0.272	0.309	0.599	0.075	0.000	0.000	1.392
ENE	0.000	0.000	0.091	0.181	0.176	0.477	0.000	0.000	0.000	0.925
E	0.000	0.000	0.091	0.091	0.302	0.650	0.000	0.000	0.000	1.133
ESE	0.000	0.000	0.136	0.227	0.216	0.970	0.038	0.000	0.000	1.587
SE	0.000	0.000	0.272	0.363	0.433	1.295	0.180	0.062	0.000	2.606
SSE	0.000	0.000	0.136	0.454	0.265	0.626	0.329	0.092	0.002	1.904
S	0.000	0.000	0.227	0.136	0.259	0.718	0.370	0.035	0.018	1.763
SSW	0.000	0.000	0.000	0.091	0.304	0.202	0.075	0.000	0.000	0.672
SW	0.000	0.000	0.000	0.045	0.044	0.000	0.000	0.000	0.000	0.089
WSW	0.000	0.000	0.136	0.227	0.044	0.000	0.000	0.000	0.000	0.407
W	0.000	0.000	0.091	0.363	0.090	0.000	0.000	0.000	0.000	0.544
WNW	0.000	0.000	0.091	0.091	0.089	0.000	0.000	0.000	0.000	0.271
NW	0.000	0.000	0.000	0.091	0.266	0.079	0.000	0.000	0.000	0.436
NNW	0.000	0.045	0.045	0.181	0.000	0.594	0.000	0.000	0.000	0.867
SUBTOTAL	0.000	0.045	1.497	2.858	3.105	8.029	1.329	0.189	0.020	17.073

TOTAL HOURS OF VALID OBSERVATIONS 2204.000
TOTAL HOURS OF ELEVATED RELEASES 1956.930
TOTAL HOURS OF STABILITY CLASS F 429.840
TOTAL HOURS OF ELEVATED STABILITY CLASS F 376.290

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: 2017/01/27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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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, 2016 - DEC 31, 2016

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	0.045	0.045	0.000	0.199	0.000	0.000	0.000	0.290
NNE	0.000	0.045	0.000	0.000	0.000	0.079	0.000	0.000	0.000	0.124
NE	0.000	0.000	0.000	0.045	0.086	0.437	0.000	0.000	0.000	0.569
ENE	0.000	0.045	0.000	0.136	0.176	0.206	0.000	0.000	0.000	0.563
E	0.000	0.000	0.000	0.045	0.042	0.042	0.000	0.000	0.000	0.130
ESE	0.000	0.000	0.045	0.045	0.000	0.040	0.000	0.000	0.000	0.131
SE	0.000	0.045	0.363	0.771	0.830	0.206	0.000	0.032	0.000	2.248
SSE	0.000	0.045	0.363	0.272	0.000	0.000	0.149	0.087	0.000	0.917
S	0.000	0.000	0.091	0.136	0.177	0.039	0.000	0.000	0.000	0.442
SSW	0.000	0.000	0.272	0.091	0.045	0.000	0.000	0.000	0.000	0.408
SW	0.000	0.045	0.318	0.091	0.000	0.000	0.000	0.000	0.000	0.454
WSW	0.000	0.000	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.136
W	0.000	0.000	0.045	0.091	0.045	0.000	0.000	0.000	0.000	0.181
WNW	0.000	0.000	0.091	0.136	0.134	0.000	0.000	0.000	0.000	0.361
NW	0.000	0.045	0.000	0.181	0.132	0.000	0.000	0.000	0.000	0.359
NNW	0.000	0.000	0.045	0.000	0.043	0.000	0.000	0.000	0.000	0.088
SUBTOTAL	0.000	0.272	1.815	2.087	1.711	1.248	0.149	0.119	0.000	7.402

TOTAL HOURS OF VALID OBSERVATIONS 2204.000
TOTAL HOURS OF ELEVATED RELEASES 1956.930
TOTAL HOURS OF STABILITY CLASS G 186.680
TOTAL HOURS OF ELEVATED STABILITY CLASS G 163.130

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: 2017/01/27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
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BROWNS FERRY NUCLEAR PLANT

2016 METEOROLOGICAL DATA

TABLE 9A

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR ELEVATED RELEASES

FIRST QUARTER

**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 A (DELTA T<=-1.9 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2016 - MAR 31, 2016

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	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	0.000	0.000	0.046	0.000	0.000	0.000	0.046
SSE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.046
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.093	0.046	0.000	0.185
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.000	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	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	0.046	0.000	0.139	0.139	0.046	0.000	0.000	0.370

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2160
TOTAL HOURS OF STABILITY CLASS A	8
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	8
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2160
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: 2016/05/06

MEAN WIND SPEED = 13.11

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2016 - MAR 31, 2016

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	0.046	0.093	0.000	0.000	0.139
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.046	0.139	0.000	0.000	0.000	0.185
SE	0.000	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.093
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	0.000	0.046	0.000	0.000	0.000	0.046
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.093	0.000	0.139
SW	0.000	0.000	0.000	0.046	0.093	0.046	0.046	0.000	0.000	0.231
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	0.046	0.093	0.000	0.000	0.139
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.046	0.278	0.324	0.278	0.093	0.000	1.019

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2160
TOTAL HOURS OF STABILITY CLASS B	22
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	22
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2160
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: 2016/05/06

MEAN WIND SPEED = 10.89

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2016 - MAR 31, 2016

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	0.185	0.139	0.000	0.000	0.324
NNE	0.000	0.000	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.093
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	0.046	0.000	0.000	0.000	0.046
ESE	0.000	0.000	0.000	0.000	0.046	0.185	0.000	0.000	0.000	0.231
SE	0.000	0.000	0.000	0.046	0.093	0.046	0.000	0.000	0.000	0.185
SSE	0.000	0.000	0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.093
S	0.000	0.000	0.000	0.046	0.046	0.046	0.000	0.000	0.000	0.139
SSW	0.000	0.000	0.000	0.000	0.046	0.000	0.046	0.139	0.000	0.231
SW	0.000	0.000	0.000	0.046	0.000	0.000	0.046	0.000	0.000	0.093
WSW	0.000	0.000	0.046	0.000	0.000	0.093	0.000	0.000	0.000	0.139
W	0.000	0.000	0.000	0.000	0.046	0.046	0.046	0.046	0.000	0.185
WNW	0.000	0.000	0.000	0.000	0.000	0.185	0.324	0.370	0.000	0.880
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.185	0.000	0.000	0.185
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.093	0.093	0.000	0.185
SUBTOTAL	0.000	0.000	0.093	0.139	0.324	0.926	0.880	0.648	0.000	3.009

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2160
TOTAL HOURS OF STABILITY CLASS C	65
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	65
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2160
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: 2016/05/06

MEAN WIND SPEED = 13.30

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2016 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, 2016 - MAR 31, 2016

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	0.093	0.231	0.463	1.065	1.065	0.000	0.000	2.917
NNE	0.000	0.000	0.093	0.185	0.185	1.250	0.787	0.093	0.000	2.593
NE	0.000	0.000	0.046	0.231	0.185	0.694	0.370	0.000	0.000	1.528
ENE	0.000	0.000	0.000	0.278	0.231	0.833	0.324	0.000	0.000	1.667
E	0.000	0.000	0.093	0.278	0.324	0.602	0.093	0.000	0.000	1.389
ESE	0.000	0.000	0.139	0.231	0.324	0.926	0.324	0.093	0.000	2.037
SE	0.000	0.000	0.139	0.278	0.185	0.185	0.602	0.648	0.000	2.037
SSE	0.000	0.046	0.000	0.093	0.139	0.231	0.463	0.185	0.000	1.157
S	0.000	0.000	0.185	0.185	0.046	0.231	0.556	0.463	0.093	1.759
SSW	0.000	0.000	0.185	0.139	0.046	0.370	0.324	0.556	0.000	1.620
SW	0.000	0.000	0.185	0.093	0.046	0.463	0.139	0.093	0.000	1.019
WSW	0.000	0.000	0.046	0.324	0.139	0.694	0.370	0.093	0.231	1.898
W	0.000	0.000	0.046	0.278	0.463	0.694	1.111	0.648	0.278	3.519
WNW	0.000	0.000	0.185	0.278	0.417	1.435	1.204	1.759	0.139	5.417
NW	0.000	0.000	0.046	0.139	0.324	0.926	2.407	1.667	0.093	5.602
NNW	0.000	0.000	0.000	0.046	0.278	1.667	1.898	0.602	0.509	5.000
SUBTOTAL	0.000	0.046	1.481	3.287	3.796	12.269	12.037	6.898	1.343	41.157

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2160
TOTAL HOURS OF STABILITY CLASS D	889
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	889
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2160
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: 2016/05/06

MEAN WIND SPEED = 12.80

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2016 - MAR 31, 2016

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	0.093	0.278	0.833	1.019	0.139	0.000	2.361
NNE	0.000	0.000	0.093	0.093	0.324	0.509	0.417	0.139	0.000	1.574
NE	0.000	0.000	0.000	0.093	0.185	0.741	0.370	0.093	0.000	1.481
ENE	0.000	0.000	0.000	0.046	0.139	0.602	0.324	0.046	0.046	1.204
E	0.000	0.000	0.000	0.046	0.185	0.370	0.278	0.000	0.000	0.880
ESE	0.000	0.000	0.000	0.139	0.185	0.602	0.694	0.185	0.139	1.944
SE	0.000	0.000	0.000	0.093	0.185	0.556	2.037	0.509	0.093	3.472
SSE	0.000	0.000	0.000	0.093	0.139	0.741	1.898	1.528	0.972	5.370
S	0.000	0.000	0.046	0.000	0.139	0.833	1.343	1.806	1.019	5.185
SSW	0.000	0.000	0.046	0.046	0.139	0.787	1.806	1.528	0.185	4.537
SW	0.000	0.000	0.046	0.093	0.324	1.157	0.694	0.139	0.000	2.454
WSW	0.000	0.000	0.046	0.000	0.093	1.065	0.463	0.046	0.000	1.713
W	0.000	0.046	0.185	0.139	0.185	0.278	0.278	0.185	0.000	1.296
WNW	0.000	0.046	0.046	0.185	0.093	0.324	0.185	0.000	0.000	0.880
NW	0.000	0.000	0.000	0.046	0.093	0.556	1.296	0.139	0.000	2.130
NNW	0.000	0.000	0.093	0.000	0.093	0.694	2.037	0.093	0.000	3.009
SUBTOTAL	0.000	0.093	0.602	1.204	2.778	10.648	15.139	6.574	2.454	39.491

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2160
TOTAL HOURS OF STABILITY CLASS E	853
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	853
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2160
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: 2016/05/06

MEAN WIND SPEED = 14.35

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2016 - MAR 31, 2016

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	0.046	0.139	0.000	0.093	0.231	0.093	0.000	0.602
NNE	0.000	0.000	0.046	0.139	0.046	0.185	0.602	0.046	0.000	1.065
NE	0.000	0.000	0.046	0.000	0.046	0.093	0.324	0.000	0.000	0.509
ENE	0.000	0.000	0.046	0.046	0.000	0.000	0.185	0.000	0.000	0.278
E	0.000	0.000	0.000	0.000	0.000	0.139	0.000	0.000	0.000	0.139
ESE	0.000	0.093	0.093	0.046	0.046	0.278	0.231	0.000	0.000	0.787
SE	0.000	0.000	0.231	0.046	0.000	0.093	0.231	0.185	0.046	0.833
SSE	0.000	0.093	0.139	0.093	0.000	0.278	1.389	1.157	0.694	3.843
S	0.000	0.000	0.093	0.000	0.139	0.185	1.667	0.648	0.093	2.824
SSW	0.000	0.000	0.000	0.046	0.000	0.139	0.417	0.046	0.000	0.648
SW	0.000	0.000	0.046	0.000	0.000	0.000	0.185	0.000	0.000	0.231
WSW	0.000	0.000	0.046	0.000	0.046	0.046	0.000	0.000	0.000	0.139
W	0.000	0.000	0.093	0.046	0.046	0.093	0.000	0.000	0.000	0.278
WNW	0.000	0.000	0.046	0.000	0.046	0.231	0.000	0.000	0.000	0.324
NW	0.000	0.000	0.139	0.093	0.093	0.278	0.093	0.000	0.000	0.694
NNW	0.000	0.000	0.000	0.046	0.000	0.093	0.046	0.046	0.000	0.231
SUBTOTAL	0.000	0.185	1.111	0.741	0.509	2.222	5.602	2.222	0.833	13.426

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2160
TOTAL HOURS OF STABILITY CLASS F	290
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	290
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2160
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: 2016/05/06

MEAN WIND SPEED = 14.08

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 G (DELTA T > 4.0 C/100 M)

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2016 - MAR 31, 2016

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	0.046	0.000	0.000	0.000	0.046
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.000	0.093
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	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.046
SSE	0.000	0.000	0.000	0.046	0.000	0.093	0.231	0.185	0.000	0.556
S	0.000	0.000	0.046	0.046	0.000	0.046	0.185	0.046	0.000	0.370
SSW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
SW	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.093
WSW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
SUBTOTAL	0.000	0.046	0.093	0.278	0.046	0.278	0.509	0.278	0.000	1.528

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2160
TOTAL HOURS OF STABILITY CLASS G	33
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	33
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2160
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: 2016/05/06

MEAN WIND SPEED = 12.25

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
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BROWNS FERRY NUCLEAR PLANT

2016 METEOROLOGICAL DATA

TABLE 9B

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR ELEVATED 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, 2016 - JUN 30, 2016

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	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	0.000	0.000	0.230	0.138	0.000	0.000	0.367
SSE	0.000	0.000	0.000	0.046	0.046	0.046	0.138	0.092	0.046	0.046	0.413
S	0.000	0.000	0.000	0.000	0.000	0.000	0.321	0.046	0.000	0.000	0.367
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.092	0.000	0.000	0.092
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
WSW	0.000	0.000	0.000	0.000	0.000	0.046	0.138	0.138	0.000	0.000	0.321
W	0.000	0.000	0.000	0.000	0.000	0.000	0.138	0.046	0.000	0.000	0.184
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.046
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	0.046	0.092	0.918	0.597	0.138	0.046	0.046	1.837

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS A	40
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	40
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2178
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: 2016/08/05

MEAN WIND SPEED = 12.25

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

BROWNS FERRY NUCLEAR PLANT

APR 1, 2016 - JUN 30, 2016

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	0.092	0.092	0.000	0.000	0.184
NNE	0.000	0.000	0.000	0.000	0.000	0.138	0.046	0.000	0.000	0.184
NE	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.275	0.000	0.275
SE	0.000	0.000	0.000	0.000	0.046	0.046	0.275	0.138	0.000	0.505
SSE	0.000	0.000	0.000	0.092	0.046	0.000	0.138	0.046	0.000	0.321
S	0.000	0.000	0.000	0.138	0.046	0.184	0.367	0.092	0.000	0.826
SSW	0.000	0.000	0.000	0.230	0.092	0.413	0.138	0.000	0.000	0.872
SW	0.000	0.000	0.000	0.184	0.092	0.138	0.046	0.000	0.000	0.459
WSW	0.000	0.000	0.000	0.046	0.138	0.184	0.046	0.000	0.000	0.413
W	0.000	0.000	0.000	0.000	0.046	0.138	0.321	0.046	0.000	0.551
WNW	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.092	0.000	0.184
NW	0.000	0.000	0.000	0.000	0.000	0.046	0.138	0.046	0.092	0.321
NNW	0.000	0.000	0.000	0.000	0.000	0.138	0.046	0.000	0.000	0.184
SUBTOTAL	0.000	0.000	0.000	0.689	0.505	1.607	1.974	0.459	0.092	5.326

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS B	116
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	116
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2178
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: 2016/08/05

MEAN WIND SPEED = 11.98

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

BROWNS FERRY NUCLEAR PLANT

APR 1, 2016 - JUN 30, 2016

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	0.459	0.597	0.000	0.000	1.056
NNE	0.000	0.000	0.000	0.000	0.000	0.643	0.138	0.000	0.000	0.781
NE	0.000	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.092
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.230	0.138	0.046	0.000	0.413
SE	0.000	0.000	0.000	0.184	0.230	0.230	0.092	0.138	0.000	0.872
SSE	0.000	0.000	0.046	0.046	0.000	0.092	0.000	0.000	0.000	0.184
S	0.000	0.000	0.000	0.275	0.046	0.184	0.184	0.092	0.046	0.826
SSW	0.000	0.000	0.000	0.275	0.092	0.184	0.138	0.000	0.000	0.689
SW	0.000	0.000	0.046	0.275	0.092	0.275	0.092	0.000	0.000	0.781
WSW	0.000	0.000	0.046	0.092	0.230	0.184	0.138	0.000	0.000	0.689
W	0.000	0.000	0.000	0.046	0.184	0.184	0.275	0.046	0.000	0.735
WNW	0.000	0.000	0.000	0.000	0.046	0.138	0.459	0.413	0.000	1.056
NW	0.000	0.000	0.000	0.000	0.000	0.321	0.275	0.184	0.000	0.781
NNW	0.000	0.000	0.000	0.000	0.000	0.138	0.184	0.138	0.000	0.459
SUBTOTAL	0.000	0.000	0.138	1.194	0.964	3.306	2.709	1.056	0.046	9.412

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS C	205
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	205
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2178
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: 2016/08/05

MEAN WIND SPEED = 11.44

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

BROWNS FERRY NUCLEAR PLANT

APR 1, 2016 - JUN 30, 2016

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	0.046	0.275	0.275	1.194	0.689	0.092	0.000	2.571
NNE	0.000	0.046	0.000	0.046	0.321	0.918	0.413	0.000	0.000	1.745
NE	0.000	0.000	0.046	0.092	0.505	0.597	0.046	0.000	0.000	1.286
ENE	0.000	0.000	0.092	0.092	0.046	0.092	0.000	0.000	0.000	0.321
E	0.000	0.000	0.092	0.092	0.092	0.138	0.184	0.000	0.000	0.597
ESE	0.000	0.000	0.138	0.551	0.551	0.643	0.551	0.413	0.000	2.847
SE	0.000	0.000	0.367	0.459	0.321	0.597	0.597	1.056	0.138	3.535
SSE	0.000	0.000	0.184	0.321	0.321	0.735	0.459	0.275	0.138	2.433
S	0.000	0.000	0.321	0.367	0.321	0.964	1.561	0.597	0.138	4.270
SSW	0.000	0.000	0.138	0.275	0.689	1.102	1.010	0.184	0.000	3.398
SW	0.000	0.000	0.184	0.321	0.367	0.964	0.184	0.000	0.000	2.020
WSW	0.000	0.000	0.092	0.275	0.505	1.056	0.184	0.046	0.046	2.204
W	0.000	0.046	0.000	0.275	0.597	1.469	0.735	0.184	0.000	3.306
WNW	0.000	0.000	0.000	0.138	0.413	1.745	1.056	0.275	0.000	3.627
NW	0.000	0.000	0.000	0.092	0.184	1.194	1.194	0.184	0.000	2.847
NNW	0.000	0.000	0.092	0.000	0.092	1.240	0.551	0.092	0.000	2.066
SUBTOTAL	0.000	0.092	1.791	3.673	5.601	14.646	9.412	3.398	0.459	39.073

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS D	851
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	851
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2178
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: 2016/08/05

MEAN WIND SPEED = 10.93

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

BROWNS FERRY NUCLEAR PLANT

APR 1, 2016 - JUN 30, 2016

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	0.092	0.184	0.643	1.010	0.184	0.000	2.112
NNE	0.000	0.046	0.000	0.092	0.138	0.551	0.735	0.138	0.000	1.699
NE	0.000	0.046	0.000	0.092	0.092	0.459	0.413	0.092	0.000	1.194
ENE	0.000	0.000	0.046	0.138	0.092	0.230	0.046	0.092	0.000	0.643
E	0.000	0.000	0.046	0.046	0.184	0.275	0.046	0.000	0.000	0.597
ESE	0.000	0.000	0.092	0.275	0.230	0.826	1.194	0.000	0.000	2.617
SE	0.000	0.000	0.046	0.046	0.413	0.964	0.781	0.184	0.000	2.433
SSE	0.000	0.092	0.138	0.230	0.367	0.964	0.735	0.184	0.046	2.755
S	0.000	0.000	0.275	0.230	0.413	1.056	1.837	0.230	0.184	4.224
SSW	0.000	0.046	0.046	0.046	0.321	0.964	0.964	0.092	0.000	2.479
SW	0.000	0.000	0.138	0.000	0.138	1.102	0.321	0.046	0.000	1.745
WSW	0.000	0.000	0.000	0.046	0.367	0.735	0.184	0.000	0.000	1.331
W	0.000	0.000	0.092	0.275	0.505	1.102	0.230	0.046	0.000	2.250
WNW	0.000	0.000	0.046	0.092	0.184	0.459	0.230	0.000	0.000	1.010
NW	0.000	0.046	0.000	0.046	0.138	0.321	0.413	0.000	0.000	0.964
NNW	0.000	0.000	0.046	0.092	0.092	0.367	1.331	0.046	0.000	1.974
SUBTOTAL	0.000	0.275	1.010	1.837	3.857	11.019	10.468	1.331	0.230	30.028

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS E	654
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	654
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2178
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: 2016/08/05

MEAN WIND SPEED = 11.35

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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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

APR 1, 2016 - JUN 30, 2016

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	0.184	1.286	0.184	0.000	1.653
NNE	0.000	0.000	0.092	0.046	0.092	0.275	0.551	0.092	0.000	1.148
NE	0.000	0.000	0.000	0.046	0.092	0.046	0.275	0.138	0.000	0.597
ENE	0.000	0.000	0.046	0.092	0.046	0.459	0.138	0.092	0.000	0.872
E	0.000	0.000	0.000	0.092	0.092	0.138	0.184	0.000	0.000	0.505
ESE	0.000	0.000	0.046	0.275	0.184	0.138	0.138	0.000	0.000	0.781
SE	0.000	0.000	0.000	0.138	0.046	0.367	0.092	0.000	0.000	0.643
SSE	0.000	0.000	0.092	0.092	0.275	0.138	0.046	0.046	0.000	0.689
S	0.000	0.000	0.000	0.000	0.000	0.367	0.413	0.046	0.000	0.826
SSW	0.000	0.000	0.046	0.046	0.000	0.046	0.459	0.000	0.000	0.597
SW	0.000	0.000	0.000	0.000	0.000	0.092	0.092	0.000	0.000	0.184
WSW	0.000	0.000	0.184	0.184	0.000	0.000	0.000	0.000	0.000	0.367
W	0.000	0.000	0.046	0.000	0.230	0.046	0.000	0.000	0.000	0.321
WNW	0.000	0.000	0.000	0.092	0.230	0.092	0.000	0.000	0.000	0.413
NW	0.000	0.046	0.046	0.092	0.092	0.230	0.046	0.000	0.000	0.551
NNW	0.000	0.000	0.046	0.000	0.000	0.138	0.459	0.000	0.000	0.643
SUBTOTAL	0.000	0.046	0.643	1.194	1.377	2.755	4.178	0.597	0.000	10.790

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS F	235
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	235
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2178
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: 2016/08/05

MEAN WIND SPEED = 10.97

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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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, 2016 - JUN 30, 2016

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	0.092	0.000	0.000	0.092
NNE	0.000	0.000	0.000	0.046	0.000	0.184	0.367	0.046	0.000	0.643
NE	0.000	0.000	0.000	0.000	0.000	0.092	0.000	0.046	0.000	0.138
ENE	0.000	0.000	0.000	0.000	0.000	0.367	0.184	0.000	0.000	0.551
E	0.000	0.000	0.000	0.000	0.000	0.138	0.000	0.000	0.000	0.138
ESE	0.000	0.000	0.046	0.184	0.046	0.046	0.000	0.000	0.000	0.321
SE	0.000	0.000	0.092	0.092	0.046	0.046	0.138	0.000	0.000	0.413
SSE	0.000	0.000	0.092	0.184	0.000	0.184	0.000	0.000	0.000	0.459
S	0.000	0.000	0.046	0.092	0.046	0.092	0.046	0.000	0.000	0.321
SSW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
SW	0.000	0.000	0.092	0.092	0.000	0.000	0.000	0.000	0.000	0.184
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	0.046	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	0.046	0.000	0.046	0.046	0.000	0.000	0.000	0.138
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	0.459	0.781	0.184	1.194	0.826	0.092	0.000	3.535

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS G	77
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	77
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2178
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: 2016/08/05

MEAN WIND SPEED = 9.17

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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BROWNS FERRY NUCLEAR PLANT

2016 METEOROLOGICAL DATA

TABLE 9C

JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR ELEVATED RELEASES

THIRD 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

JUL 1, 2016 - SEP 30, 2016

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	0.091	0.000	0.000	0.091
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	0.046	0.046	0.000	0.000	0.091
SE	0.000	0.000	0.000	0.000	0.228	0.137	0.091	0.000	0.000	0.457
SSE	0.000	0.000	0.000	0.183	0.091	0.183	0.183	0.046	0.000	0.685
S	0.000	0.000	0.000	0.000	0.046	0.183	0.137	0.000	0.000	0.365
SSW	0.000	0.000	0.000	0.000	0.000	0.183	0.000	0.000	0.000	0.183
SW	0.000	0.000	0.000	0.000	0.000	0.091	0.046	0.137	0.000	0.274
WSW	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.091
W	0.000	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.091
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.183	0.365	0.959	0.640	0.183	0.000	2.330

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2189
TOTAL HOURS OF STABILITY CLASS A	51
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	51
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
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: 2017/01/10

MEAN WIND SPEED = 10.93

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

BROWNS FERRY NUCLEAR PLANT

JUL 1, 2016 - SEP 30, 2016

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	0.411	0.365	0.000	0.000	0.777
NNE	0.000	0.000	0.000	0.000	0.000	0.137	0.000	0.000	0.000	0.137
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	0.046	0.000	0.000	0.000	0.046
SE	0.000	0.000	0.000	0.137	0.274	0.137	0.183	0.000	0.000	0.731
SSE	0.000	0.000	0.000	0.503	0.091	0.137	0.000	0.000	0.000	0.731
S	0.000	0.000	0.000	0.091	0.046	0.046	0.137	0.000	0.000	0.320
SSW	0.000	0.000	0.000	0.183	0.046	0.091	0.000	0.000	0.000	0.320
SW	0.000	0.000	0.000	0.000	0.000	0.137	0.137	0.000	0.000	0.274
WSW	0.000	0.000	0.000	0.000	0.046	0.320	0.228	0.000	0.000	0.594
W	0.000	0.000	0.000	0.000	0.000	0.183	0.000	0.000	0.000	0.183
WNW	0.000	0.000	0.000	0.000	0.046	0.137	0.046	0.000	0.000	0.228
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.046
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.914	0.548	1.782	1.142	0.000	0.000	4.386

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2189
TOTAL HOURS OF STABILITY CLASS B	96
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	96
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
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: 2017/01/10

MEAN WIND SPEED = 9.90

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2016 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, 2016 - SEP 30, 2016

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	0.548	0.228	0.000	0.000	0.822
NNE	0.000	0.000	0.000	0.046	0.046	0.228	0.000	0.000	0.000	0.320
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.137	0.000	0.000	0.137
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	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.137	0.000	0.000	0.137
SE	0.000	0.000	0.046	0.228	0.228	0.091	0.183	0.000	0.000	0.777
SSE	0.000	0.000	0.046	0.274	0.183	0.137	0.000	0.137	0.000	0.777
S	0.000	0.000	0.183	0.183	0.137	0.228	0.365	0.000	0.000	1.096
SSW	0.000	0.000	0.091	0.183	0.091	0.137	0.000	0.000	0.000	0.503
SW	0.000	0.000	0.046	0.320	0.046	0.137	0.183	0.000	0.000	0.731
WSW	0.000	0.000	0.000	0.365	0.228	0.365	0.411	0.000	0.000	1.370
W	0.000	0.000	0.000	0.046	0.137	0.868	0.000	0.000	0.000	1.051
WNW	0.000	0.000	0.000	0.000	0.091	0.320	0.183	0.000	0.000	0.594
NW	0.000	0.000	0.000	0.000	0.000	0.320	0.091	0.000	0.000	0.411
NNW	0.000	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.091
SUBTOTAL	0.000	0.000	0.457	1.645	1.279	3.426	1.919	0.137	0.000	8.862

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2189
TOTAL HOURS OF STABILITY CLASS C	194
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	194
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
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: 2017/01/10

MEAN WIND SPEED = 9.11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2016 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, 2016 - SEP 30, 2016

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	0.046	0.137	0.228	0.868	0.685	0.046	0.000	2.010
NNE	0.000	0.000	0.137	0.091	0.274	0.731	0.365	0.000	0.000	1.599
NE	0.000	0.000	0.137	0.046	0.503	0.320	0.137	0.000	0.000	1.142
ENE	0.000	0.000	0.000	0.137	0.183	0.000	0.000	0.000	0.000	0.320
E	0.000	0.000	0.091	0.091	0.091	0.183	0.091	0.000	0.000	0.548
ESE	0.000	0.000	0.228	0.274	0.320	1.051	0.548	0.000	0.000	2.421
SE	0.000	0.000	0.137	0.685	0.548	0.548	0.594	0.274	0.000	2.787
SSE	0.000	0.000	0.548	0.640	0.365	0.640	1.416	0.594	0.000	4.203
S	0.000	0.000	0.914	0.914	0.731	2.056	0.685	0.183	0.000	5.482
SSW	0.000	0.046	0.411	0.777	0.731	1.736	0.868	0.046	0.000	4.614
SW	0.000	0.000	0.777	0.959	0.685	1.553	0.731	0.046	0.000	4.751
WSW	0.000	0.000	0.411	0.685	0.274	1.233	0.365	0.046	0.000	3.015
W	0.000	0.000	0.274	0.548	0.548	0.959	0.320	0.000	0.000	2.650
WNW	0.000	0.000	0.091	0.274	0.457	0.822	0.137	0.000	0.000	1.782
NW	0.000	0.000	0.091	0.228	0.183	0.411	0.091	0.046	0.000	1.051
NNW	0.000	0.000	0.046	0.137	0.091	0.320	0.365	0.000	0.000	0.959
SUBTOTAL	0.000	0.046	4.340	6.624	6.213	13.431	7.401	1.279	0.000	39.333

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2189
TOTAL HOURS OF STABILITY CLASS D	861
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	861
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
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: 2017/01/10

MEAN WIND SPEED = 8.80

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

JUL 1, 2016 - SEP 30, 2016

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	0.002	0.000	0.137	0.137	0.000	0.777	1.096	0.046	0.000	2.195
NNE	0.001	0.000	0.046	0.228	0.183	0.868	1.462	0.137	0.000	2.925
NE	0.002	0.000	0.137	0.137	0.320	0.777	1.051	0.183	0.000	2.606
ENE	0.002	0.000	0.091	0.091	0.365	0.548	0.320	0.000	0.000	1.418
E	0.001	0.000	0.046	0.137	0.320	0.640	0.183	0.000	0.000	1.326
ESE	0.002	0.000	0.137	0.000	0.046	0.731	0.457	0.000	0.000	1.373
SE	0.000	0.000	0.000	0.137	0.320	1.462	0.503	0.000	0.000	2.421
SSE	0.003	0.000	0.183	0.457	0.640	1.508	0.320	0.183	0.000	3.292
S	0.005	0.000	0.274	0.457	0.594	0.411	0.320	0.000	0.000	2.061
SSW	0.008	0.000	0.457	0.274	0.274	0.868	0.868	0.000	0.000	2.749
SW	0.006	0.000	0.365	0.411	0.320	0.548	0.411	0.000	0.000	2.062
WSW	0.004	0.046	0.183	0.228	0.183	0.274	0.046	0.000	0.000	0.963
W	0.006	0.046	0.320	0.411	0.274	0.503	0.183	0.000	0.000	1.742
WNW	0.001	0.000	0.046	0.183	0.137	0.411	0.091	0.000	0.000	0.869
NW	0.001	0.046	0.000	0.046	0.091	0.091	0.046	0.000	0.000	0.321
NNW	0.001	0.000	0.046	0.091	0.046	0.091	0.320	0.000	0.000	0.595
SUBTOTAL	0.046	0.137	2.467	3.426	4.111	10.507	7.675	0.548	0.000	28.917

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2189
TOTAL HOURS OF STABILITY CLASS E	633
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	633
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
TOTAL HOURS CALM	1

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: 2017/01/10

MEAN WIND SPEED = 9.64

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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2016 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, 2016 - SEP 30, 2016

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	0.091	0.183	0.274	0.000	0.000	0.548
NNE	0.000	0.000	0.000	0.137	0.137	0.183	0.731	0.137	0.000	1.325
NE	0.000	0.000	0.091	0.137	0.091	0.274	1.051	0.274	0.000	1.919
ENE	0.000	0.000	0.046	0.091	0.137	0.777	0.731	0.000	0.000	1.782
E	0.000	0.000	0.000	0.046	0.228	0.822	0.183	0.000	0.000	1.279
ESE	0.000	0.000	0.091	0.228	0.091	0.959	0.274	0.000	0.000	1.645
SE	0.000	0.000	0.046	0.320	0.137	0.503	0.046	0.000	0.000	1.051
SSE	0.000	0.000	0.137	0.228	0.274	0.274	0.091	0.000	0.000	1.005
S	0.000	0.000	0.091	0.183	0.046	0.091	0.000	0.000	0.000	0.411
SSW	0.000	0.000	0.046	0.091	0.137	0.091	0.228	0.046	0.000	0.640
SW	0.000	0.000	0.091	0.137	0.000	0.091	0.046	0.000	0.000	0.365
WSW	0.000	0.000	0.000	0.091	0.000	0.046	0.000	0.000	0.000	0.137
W	0.000	0.046	0.183	0.091	0.046	0.000	0.000	0.000	0.000	0.365
WNW	0.000	0.000	0.046	0.091	0.046	0.000	0.000	0.000	0.000	0.183
NW	0.000	0.046	0.091	0.137	0.000	0.183	0.000	0.000	0.000	0.457
NNW	0.000	0.000	0.091	0.046	0.137	0.091	0.046	0.000	0.000	0.411
SUBTOTAL	0.000	0.091	1.051	2.056	1.599	4.568	3.700	0.457	0.000	13.522

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2189
TOTAL HOURS OF STABILITY CLASS F	296
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	296
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
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: 2017/01/10

MEAN WIND SPEED = 9.81

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
2016 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, 2016 - SEP 30, 2016

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	0.046	0.000	0.000	0.000	0.091
NNE	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.228	0.000	0.320
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.183	0.000	0.000	0.183
ENE	0.000	0.000	0.000	0.000	0.000	0.320	0.091	0.000	0.000	0.411
E	0.000	0.000	0.091	0.137	0.000	0.183	0.000	0.000	0.000	0.411
ESE	0.000	0.000	0.000	0.137	0.046	0.137	0.046	0.000	0.000	0.365
SE	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.091
SSE	0.000	0.000	0.046	0.000	0.000	0.091	0.000	0.000	0.000	0.137
S	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
SSW	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.091
SW	0.000	0.000	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.137
WSW	0.000	0.000	0.000	0.137	0.000	0.000	0.000	0.000	0.000	0.137
W	0.000	0.000	0.000	0.046	0.046	0.046	0.000	0.000	0.000	0.137
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	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.091
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	0.503	0.594	0.091	0.868	0.365	0.228	0.000	2.650

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2189
TOTAL HOURS OF STABILITY CLASS G	58
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	58
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
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: 2017/01/10

MEAN WIND SPEED = 8.83

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**BROWNS FERRY NUCLEAR PLANT
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BROWNS FERRY NUCLEAR PLANT

2016 METEOROLOGICAL DATA

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JOINT FREQUENCY DISTRIBUTION IN PERCENT

FOR ELEVATED RELEASES

FOURTH 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

OCT 1, 2016 - DEC 31, 2016

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	0.136	0.136	0.000	0.272
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.091
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.045	0.000	0.091
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.091	0.091	0.000	0.181
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.136	0.136	0.045	0.318
S	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.045	0.000	0.091
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.045	0.272	0.544	0.181	0.000	1.044

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2204
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	2204
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: 2017/01/27

MEAN WIND SPEED = 14.63

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

BROWNS FERRY NUCLEAR PLANT

OCT 1, 2016 - DEC 31, 2016

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	0.045	0.227	0.000	0.000	0.272
NNE	0.000	0.000	0.000	0.000	0.000	0.045	0.227	0.000	0.000	0.272
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.091	0.000	0.091
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.045	0.000	0.091
SE	0.000	0.000	0.000	0.000	0.045	0.181	0.045	0.000	0.000	0.272
SSE	0.000	0.000	0.000	0.000	0.136	0.000	0.045	0.045	0.045	0.272
S	0.000	0.000	0.000	0.000	0.000	0.045	0.045	0.000	0.000	0.091
SSW	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.045
SW	0.000	0.000	0.000	0.045	0.045	0.000	0.181	0.000	0.000	0.272
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	0.091	0.091	0.000	0.181
SUBTOTAL	0.000	0.000	0.000	0.045	0.227	0.363	0.907	0.272	0.045	1.860

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2204
TOTAL HOURS OF STABILITY CLASS B	41
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	41
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2204
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: 2017/01/27

MEAN WIND SPEED = 14.19

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

BROWNS FERRY NUCLEAR PLANT

OCT 1, 2016 - DEC 31, 2016

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	0.272	0.045	0.000	0.544
NNE	0.000	0.000	0.000	0.000	0.000	0.272	0.091	0.000	0.000	0.363
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045	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	0.091	0.136	0.091	0.000	0.000	0.318
SE	0.000	0.000	0.045	0.000	0.045	0.136	0.272	0.045	0.000	0.544
SSE	0.000	0.000	0.000	0.000	0.000	0.091	0.045	0.091	0.000	0.227
S	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.045
SSW	0.000	0.000	0.000	0.045	0.000	0.000	0.136	0.045	0.000	0.227
SW	0.000	0.000	0.000	0.091	0.000	0.000	0.045	0.000	0.000	0.136
WSW	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.045
W	0.000	0.000	0.000	0.000	0.091	0.181	0.091	0.000	0.000	0.363
WNW	0.000	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.091
NW	0.000	0.000	0.000	0.000	0.000	0.181	0.272	0.000	0.045	0.499
NNW	0.000	0.000	0.000	0.000	0.000	0.181	0.091	0.000	0.000	0.272
SUBTOTAL	0.000	0.000	0.045	0.136	0.227	1.543	1.452	0.272	0.045	3.721

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2204
TOTAL HOURS OF STABILITY CLASS C	82
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	82
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2204
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: 2017/01/27

MEAN WIND SPEED = 12.60

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

BROWNS FERRY NUCLEAR PLANT

OCT 1, 2016 - DEC 31, 2016

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	0.318	0.318	1.270	1.588	0.635	0.000	4.129
NNE	0.000	0.000	0.181	0.091	0.272	1.270	0.998	0.045	0.000	2.858
NE	0.000	0.000	0.091	0.363	0.363	1.361	0.045	0.045	0.000	2.269
ENE	0.000	0.000	0.045	0.227	0.045	0.318	0.045	0.000	0.000	0.681
E	0.000	0.045	0.136	0.136	0.091	0.181	0.136	0.045	0.000	0.771
ESE	0.000	0.000	0.181	0.318	0.408	0.635	0.499	0.000	0.000	2.042
SE	0.000	0.000	0.363	0.590	0.318	0.862	0.499	0.544	0.000	3.176
SSE	0.000	0.000	0.454	0.091	0.635	0.454	0.590	0.318	0.045	2.586
S	0.000	0.091	0.318	0.045	0.091	0.091	0.681	0.091	0.000	1.407
SSW	0.000	0.000	0.272	0.045	0.045	0.091	0.499	0.045	0.091	1.089
SW	0.000	0.000	0.181	0.045	0.181	0.045	0.000	0.000	0.000	0.454
WSW	0.000	0.000	0.181	0.272	0.227	0.227	0.091	0.000	0.000	0.998
W	0.000	0.000	0.136	0.181	0.318	0.771	0.363	0.181	0.045	1.996
WNW	0.000	0.000	0.181	0.272	0.726	0.953	0.681	0.181	0.091	3.085
NW	0.000	0.000	0.045	0.181	0.227	1.134	0.998	0.817	0.363	3.766
NNW	0.000	0.000	0.000	0.091	0.408	1.497	1.134	0.363	0.000	3.494
SUBTOTAL	0.000	0.136	2.768	3.267	4.673	11.162	8.848	3.312	0.635	34.800

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2204
TOTAL HOURS OF STABILITY CLASS D	767
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	767
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2204
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: 2017/01/27

MEAN WIND SPEED = 11.05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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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

OCT 1, 2016 - DEC 31, 2016

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	0.045	0.091	0.544	0.953	0.318	0.000	1.951
NNE	0.000	0.000	0.000	0.091	0.045	1.134	0.998	0.227	0.000	2.495
NE	0.000	0.000	0.000	0.136	0.091	0.817	0.771	0.136	0.000	1.951
ENE	0.000	0.000	0.000	0.045	0.181	0.635	0.272	0.000	0.000	1.134
E	0.000	0.000	0.091	0.091	0.136	0.318	0.272	0.000	0.000	0.907
ESE	0.000	0.000	0.045	0.045	0.227	0.363	0.590	0.091	0.000	1.361
SE	0.000	0.000	0.136	0.136	0.408	0.998	2.178	0.454	0.000	4.310
SSE	0.000	0.000	0.091	0.136	0.363	1.270	0.998	0.635	0.454	3.947
S	0.000	0.000	0.000	0.181	0.499	0.907	0.998	0.998	0.771	4.356
SSW	0.000	0.000	0.091	0.091	0.181	0.862	1.089	0.408	0.272	2.995
SW	0.000	0.045	0.045	0.136	0.136	0.227	0.181	0.000	0.000	0.771
WSW	0.000	0.000	0.091	0.136	0.091	0.136	0.000	0.045	0.045	0.544
W	0.000	0.000	0.045	0.136	0.318	0.136	0.136	0.045	0.000	0.817
WNW	0.000	0.045	0.091	0.000	0.318	0.590	0.136	0.091	0.045	1.316
NW	0.000	0.000	0.136	0.045	0.136	0.272	0.181	0.227	0.000	0.998
NNW	0.000	0.000	0.181	0.000	0.045	0.771	1.044	0.091	0.000	2.132
SUBTOTAL	0.000	0.091	1.044	1.452	3.267	9.982	10.799	3.766	1.588	31.987

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2204
TOTAL HOURS OF STABILITY CLASS E	705
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	705
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2204
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: 2017/01/27

MEAN WIND SPEED = 13.19

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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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

OCT 1, 2016 - DEC 31, 2016

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	0.091	0.091	0.817	0.136	0.000	1.134
NNE	0.000	0.000	0.000	0.045	0.000	0.136	0.998	0.136	0.000	1.316
NE	0.000	0.045	0.045	0.045	0.045	0.590	0.907	0.363	0.000	2.042
ENE	0.000	0.045	0.045	0.000	0.091	0.363	0.408	0.000	0.000	0.953
E	0.000	0.000	0.045	0.045	0.045	0.363	0.181	0.000	0.000	0.681
ESE	0.000	0.000	0.045	0.000	0.045	0.771	0.408	0.000	0.000	1.270
SE	0.000	0.000	0.091	0.181	0.091	0.907	0.681	0.272	0.000	2.223
SSE	0.000	0.000	0.181	0.136	0.227	0.862	0.998	0.454	0.045	2.904
S	0.000	0.045	0.000	0.091	0.272	0.862	0.817	0.136	0.227	2.450
SSW	0.000	0.000	0.000	0.091	0.227	0.454	0.635	0.045	0.000	1.452
SW	0.000	0.000	0.000	0.091	0.000	0.181	0.045	0.000	0.000	0.318
WSW	0.000	0.000	0.000	0.045	0.045	0.227	0.045	0.000	0.000	0.363
W	0.000	0.000	0.000	0.181	0.000	0.045	0.000	0.000	0.000	0.227
WNW	0.000	0.000	0.000	0.091	0.272	0.272	0.000	0.000	0.000	0.635
NW	0.000	0.000	0.000	0.045	0.136	0.091	0.045	0.000	0.000	0.318
NNW	0.000	0.000	0.000	0.000	0.091	0.272	0.181	0.045	0.000	0.590
SUBTOTAL	0.000	0.136	0.454	1.089	1.679	6.488	7.169	1.588	0.272	18.875

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2204
TOTAL HOURS OF STABILITY CLASS F	416
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	416
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2204
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: 2017/01/27

MEAN WIND SPEED = 12.20

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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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

OCT 1, 2016 - DEC 31, 2016

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	0.045	0.000	0.000	0.045
NNE	0.000	0.000	0.000	0.000	0.000	0.181	0.045	0.000	0.000	0.227
NE	0.000	0.045	0.000	0.000	0.000	0.045	0.272	0.000	0.000	0.363
ENE	0.000	0.000	0.000	0.000	0.045	0.091	0.227	0.000	0.000	0.363
E	0.000	0.091	0.136	0.045	0.045	0.363	0.045	0.000	0.000	0.726
ESE	0.000	0.000	0.000	0.091	0.136	0.091	0.000	0.000	0.000	0.318
SE	0.000	0.045	0.136	0.227	0.227	0.000	0.045	0.045	0.000	0.726
SSE	0.000	0.000	0.136	0.091	0.272	0.272	0.227	0.136	0.045	1.180
S	0.000	0.000	0.136	0.000	0.091	0.363	0.045	0.000	0.000	0.635
SSW	0.000	0.045	0.091	0.045	0.045	0.272	0.045	0.000	0.000	0.544
SW	0.000	0.000	0.045	0.136	0.181	0.136	0.045	0.000	0.000	0.544
WSW	0.000	0.045	0.045	0.318	0.045	0.000	0.000	0.000	0.000	0.454
W	0.000	0.000	0.045	0.091	0.181	0.045	0.000	0.000	0.000	0.363
WNW	0.000	0.091	0.181	0.045	0.045	0.181	0.000	0.000	0.000	0.544
NW	0.000	0.000	0.091	0.091	0.227	0.091	0.000	0.000	0.000	0.499
NNW	0.000	0.000	0.000	0.091	0.045	0.045	0.000	0.000	0.000	0.181
SUBTOTAL	0.000	0.363	1.044	1.270	1.588	2.178	1.044	0.181	0.045	7.713

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2204
TOTAL HOURS OF STABILITY CLASS G	170
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	170
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2204
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: 2017/01/27

MEAN WIND SPEED = 7.82

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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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.

During the reporting period, January 1, 2016 through December 31, 2016, there were no deviations to the ODCM.

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Attachment 2

2016 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, 2016 through December 31, 2016, there were five radiological instruments inoperable for greater than 30 days.

The 0-RM-90-130 radioactive liquid effluent monitor was inoperable from July 23, 2015 to April 1, 2016. This was due to Background radiation counts for BFN-0-RM-090-0130 being elevated (~2800 counts/sec) while in process preventing BFN-0-RM-090-0130 from being placed in service. It appeared that the elevated background was from an actual fixed background from within the containment chamber section of the process. WO 117211266 was initiated to disassemble the piping to perform cleaning of the containment chamber. Following the cleaning, minimal to no change in background counts were noted thus the work order is to replace the containment chamber and required associated flanged piping. Additional cleaning was performed (flushes) and a new monitor was also installed and calibrated (CR 110179)

The 0-RM-90-147/148 was declared inoperable on 2/10/2016 due to Stack Gas Rad Monitor CH1 and CH2 indicating low counts (9 counts and 10 counts respectfully). Operations entered LCOT# 0-090-ODCM-2016-0008. Monitor was declared operable on 4/20/2016. (CR 1135716)

The 0-FIC-77-60 Radwaste Discharge Valve Flow Loop was inoperable on 3/24/2016 during performance of 0-SI-4.8.A.1-1, Liquid Effluent Permit, due to the average flow rate being outside the plus or minus 8% of flow rate calculated based on tank volume change over time, (ODCM Table 2.1-1.d Channel Functional Test). LCOT# 0-077-ODCM-2016-0016. Monitor declared operable on 8/10/2016 during performance of 0-SI-4.8.A.1-1. (CR's 1153528, 1207403)

The 2-FCV-77-61 Radwaste Discharge Valve Flow Loop was declared inoperable on 7/14/2016 under LCOT# 2-077-ODCM-2016-0020. 2-SI-4.8.A.3, Automatic Isolation Logic Functional Test of Radwaste Discharge Valve, was not performed as scheduled because U-2 was on cooling towers. (CR 1190109)

On 11/14/2016, only partial performance with Attachment 3 of 2-SI-4.8.A.3 to be performed at a later date. (WO 118410520).

On 12/29/16, determination made that work could not be completed as scheduled due to on-going Radwaste upgrades. Performance of Attachment 3 and any other necessary sections of 2-SI-4.8.A.3 will be scheduled following completion of Radwaste upgrades. (WO 118315571)

The 3-FCV-77-61 Radwaste Discharge Valve inoperable under 3-77-ODCM-2013-22. 3-FCV-77-61 declared inoperable on 6/18/2013 due to failed A/C steps during the performance of 3-SI-4.8.A.3, Automatic Isolation Logic Functional Test of Radwaste Discharge Canal Valve 3-FCV-77-61. (CR 945823 and WO 116248474)

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Groundwater Protection Program

In 2007, the Nuclear Energy Institute (NEI) established the Groundwater Protection Initiative (GPI), NEI 07-07. The Groundwater Protection Initiative was established to 1) improve management of situations involving inadvertent radiological releases that get into groundwater and 2) to improve communication with external stakeholders to enhance trust and confidence on the part of local communities, States, the NRC, and the public in the nuclear industry's commitment to a high standard of public radiation safety and protection of the environment. This section provides information and sample results from on-site groundwater locations that were sampled in support of the Groundwater Protection Initiative at Browns Ferry Nuclear Plant (BFN). The groundwater wells described in this section are not part of the Radiological Environmental Monitoring Program (REMP).

Onsite groundwater monitoring was performed in 2016. The purpose of on-site groundwater monitoring is to ensure timely detection of inadvertent radiological releases to groundwater. Non REMP groundwater wells monitor for potential leaks from plant equipment. As part of the GPI, BFN monitored a total of 26 groundwater wells located in the Protected Area (PA) and the Owner Controlled Area (OCA) during 2016, with normal sampling frequencies quarterly and semiannually. Some wells were sampled monthly as certain criteria were met or for investigation purposes. Samples are routinely analyzed for environmental levels of tritium (H-3) and principle gamma emitters (PGE) with selected wells analyzed for Hard-to-Detect (HTD) radionuclides (Gross Alpha, Fe-55, Ni-63, Sr-89, and Sr-90). In support of the groundwater program the site also monitors onsite storm drains, catch basins and surface water.

In the early 2000s, BFN initiated a groundwater study to identify the source low levels of detected tritium onsite. Results from the groundwater study, completed in June 2006, suggest the source of tritiated groundwater were from historical leaks and spills associated with Radwaste/Condensate transfer tunnel. Groundwater and surface water level measurement during the study indicated the return channel and subsequently the Tennessee River will ultimately be recipient to tritiated groundwater discharge from the site. It has been determined that there are no groundwater wells onsite or within 2-miles of the site that are used as a source of drinking water. Groundwater movement in the area has been determined to be from the plant site toward the Tennessee River.

One event occurred in 2016 which required voluntary notification per NEI 07-07, Industry Groundwater Protection Initiative (Condition Report 1183798). The notification was prompted when two onsite groundwater wells, MW-01 and MW-08, exceeded the Environmental Protection Agency (EPA) drinking water value of 20,000 pCi/L (picocuries per liter) tritium (Condition Reports 1164659, 1183737). During the investigation of MW-01 exceeding the EPA limit, a leak within the Unit 2 Turbine Building Steam tunnel was found to be the apparent source. Following investigation, it was found that the leak from the Steam tunnel reached groundwater through degraded expansion joints within the tunnel room. BFN made an entry into the tunnel at full power to remove blockage from a floor drain which was allowing contaminated water to pool on the floor and reach the degraded expansion joints. The highest concentration well identified for year 2016 was MW-01 which resulted in 36,444 pCi/L of tritium. The leak occurred underneath the turbine building in which followed a preferential flow path to the East and West sides of the plant. MW-01 is located on the West side of the plant and MW 08 is located on the East side of the plant. Since the initial spike of 36,444 pCi/L tritium in March 2016 for MW-01 and MW-08 tritium concentration of 22,400 pCi/L, the tritium concentration values have trended back down considerably. The site monitored MW-01, MW 08 and other groundwater wells down gradient of the leak on an increased frequency following the discovery of the leak. The leak within the U2 Turbine Building Steam Tunnel was

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repaired in Spring 2017 during the Unit 2 Refueling Outage. The expansion joints, floor drains, and floor coatings were inspected during the Spring 2017 outage. The expansion joints in the tunnel were repaired by applying a coating atop the joint to keep future water from exiting the joints.

Groundwater sample results that were taken in support of the GPI for 2016 are listed in the tables below. Low levels of tritium were detected in the monitoring wells listed below. No other nuclides, other than tritium, were detected in any groundwater well, surface water, catch basin, or storm drain in 2016.

Sample Date	Well ID	Tritium Activity (pCi/L)	Gamma Activity (pCi/L)	Hard-to-Detect Activity (pCi/L)
1st Quarter				
1/13/2016 13:54	GW Dewat A	1560	<MDA	n/a
1/13/2016 14:15	GW Dewat E	7580	<MDA	n/a
2/10/2016 10:45	GW Dewat A	7839	<MDA	n/a
2/10/2016 11:00	GW Dewat E	12665	<MDA	n/a
3/4/2016 11:45	GW Dewat A	5890	<MDA	<MDA
3/4/2016 12:20	GW Dewat E	13300	<MDA	<MDA
3/15/2016 12:25	GW MW-11	< 228	<MDA	n/a
3/15/2016 12:55	GW MW-03	749	<MDA	n/a
3/15/2016 14:35	GW MW-04	1963	<MDA	n/a
3/15/2016 14:40	GW MW-10	< 228	<MDA	n/a
3/15/2016 16:35	GW MW-09	< 228	<MDA	n/a
3/15/2016 16:50	GW MW-02	1023	<MDA	n/a
3/15/2016 18:35	GW MW-07	1032	<MDA	n/a
3/16/2016 9:15	GW MW-08	2193	<MDA	n/a
3/16/2016 11:00	GW MW-01	36444	<MDA	n/a
3/17/2016 18:45	GW Dewat A	16146	<MDA	n/a
1/13/2016 13:54	GW Dewat A	1560	<MDA	n/a
1/13/2016 14:15	GW Dewat E	7580	<MDA	n/a
2/10/2016 10:45	GW Dewat A	7839	<MDA	n/a
2/10/2016 11:00	GW Dewat E	12665	<MDA	n/a
3/4/2016 11:45	GW Dewat A	5890	<MDA	n/a
3/4/2016 12:20	GW Dewat E	13300	<MDA	n/a
3/15/2016 12:25	GW MW-11	< 228	<MDA	n/a
3/15/2016 12:55	GW MW-03	749	<MDA	n/a
3/15/2016 14:35	GW MW-04	1963	<MDA	n/a
3/15/2016 14:40	GW MW-10	< 228	<MDA	n/a
3/15/2016 16:35	GW MW-09	< 228	<MDA	n/a
3/15/2016 16:50	GW MW-02	1023	<MDA	n/a
3/15/2016 18:35	GW MW-07	1032	<MDA	n/a
3/16/2016 9:15	GW MW-08	2193	<MDA	n/a
3/16/2016 11:00	GW MW-01	36444	<MDA	n/a
3/17/2016 18:45	GW Dewat A	16146	<MDA	n/a
2nd Quarter				
4/13/2016 13:00	GW Dewat A	787	<MDA	n/a

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Sample Date	Well ID	Tritium Activity (pCi/L)	Gamma Activity (pCi/L)	Hard-to-Detect Activity (pCi/L)
4/13/2016 13:30	GW Dewat E	11269	<MDA	n/a
4/26/2016 11:55	GW MW-01	5660	<MDA	n/a
4/26/2016 15:30	GW MW-01	5490	<MDA	<MDA
4/27/2016 15:15	GW MW-02	3895	<MDA	<MDA
4/28/2016 14:05	GW MW-04	3460	<MDA	<MDA
4/28/2016 15:00	GW Dewat A	15290	<MDA	<MDA
5/5/2016 15:00	GW MW-01	4245	<MDA	n/a
5/12/2016 12:00	GW MW-01	3640	<MDA	n/a
5/12/2016 12:45	GW Dewat A	15598	<MDA	n/a
5/12/2016 13:15	GW Dewat E	11575	<MDA	n/a
5/19/2016 14:45	GW MW-01	3550	<MDA	n/a
5/26/2016 9:30	GW MW-04	1876	<MDA	n/a
5/26/2016 11:00	GW MW-02	2232	<MDA	n/a
5/27/2016 15:00	GW MW-01	3120	<MDA	n/a
6/2/2016 9:00	GW Dewat E	11458	<MDA	n/a
6/15/2016 8:15	GW MW-03	561	<MDA	n/a
6/15/2016 9:15	GW MW-04	1909	<MDA	n/a
6/15/2016 10:25	GW MW-02	1949	<MDA	n/a
6/15/2016 11:25	GW MW-07	1052	<MDA	n/a
6/15/2016 13:00	GW MW-08	22400	<MDA	n/a
6/15/2016 14:35	GW MW-01	2760	<MDA	n/a
6/15/2016 16:30	GW MW-09	< 224	<MDA	n/a
6/16/2016 9:45	GW MW-10	< 202	<MDA	n/a
6/16/2016 12:30	GW MW-11	< 202	<MDA	n/a
6/16/2016 15:35	GW Dewat A	16200	<MDA	n/a
6/16/2016 17:40	GW MW-08	21400	<MDA	n/a
6/22/2016 10:00	GW MW-08	20900	<MDA	<MDA
6/29/2016 10:00	GW MW-08	17500	<MDA	n/a
3rd Quarter				
7/5/2016 10:20	GW MW-08	20700	<MDA	n/a
7/6/2016 11:00	GW MW-07	981	<MDA	n/a
7/6/2016 12:00	GW MW-02	557	<MDA	n/a
7/6/2016 12:30	GW MW-01	1256	<MDA	n/a
7/6/2016 13:20	GW MW-04	996	<MDA	n/a
7/6/2016 14:05	GW Dewat E	10523	<MDA	n/a
7/6/2016 14:10	GW Dewat A	2781	<MDA	n/a
7/12/2016 14:00	GW MW-07	< 1820	<MDA	n/a
7/12/2016 15:30	GW MW-08	16300	<MDA	n/a
7/21/2016 9:05	GW MW-07	< 1900	<MDA	n/a
7/21/2016 9:45	GW MW-08	11300	<MDA	n/a
7/27/2016 21:00	GW MW-08	8060	<MDA	n/a
7/27/2016 21:30	GW MW-07	< 1870	<MDA	n/a
8/5/2016 9:45	GW MW-08	5270	<MDA	n/a
8/5/2016 10:15	GW Dewat E	11400	<MDA	n/a

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Sample Date	Well ID	Tritium Activity (pCi/L)	Gamma Activity (pCi/L)	Hard-to-Detect Activity (pCi/L)
8/8/2016 15:15	GW MW-08	3340	<MDA	n/a
8/17/2016 20:50	GW MW-08	3290	<MDA	n/a
8/17/2016 21:10	GW Dewat A	< 1870	<MDA	n/a
8/18/2016 14:00	GW Dewat E	< 1920	<MDA	n/a
8/21/2016 13:30	GW Dewat E	< 1860	<MDA	n/a
8/22/2016 19:10	GW MW-02	467	<MDA	n/a
8/23/2016 5:40	GW MW-03	831	<MDA	n/a
8/23/2016 6:30	GW MW-07	1008	<MDA	n/a
8/23/2016 7:30	GW MW-04	396	<MDA	n/a
8/23/2016 8:30	GW MW-01	840	<MDA	n/a
8/23/2016 9:40	GW MW-08	4252	<MDA	n/a
8/23/2016 11:30	GW MW-11	338	<MDA	n/a
8/23/2016 13:20	GW MW-10	295	<MDA	n/a
8/23/2016 14:55	GW MW-09	266	<MDA	n/a
8/23/2016 17:00	GW Dewat A	1881	<MDA	n/a
8/30/2016 11:20	GW MW-08	5140	<MDA	n/a
9/12/2016 10:40	GW MW-08	4867	<MDA	n/a
9/12/2016 11:30	GW MW-04	325	<MDA	n/a
9/12/2016 13:10	GW Dewat A	1911	<MDA	n/a
9/12/2016 13:25	GW Dewat E	902	<MDA	n/a
4th Quarter				
10/12/2016 10:30	GW MW-08	5160	<MDA	n/a
10/12/2016 11:10	GW Dewat A	4820	<MDA	n/a
10/12/2016 11:30	GW Dewat E	1680	<MDA	n/a
10/12/2016 12:20	GW MW-01	2240	<MDA	n/a
11/10/2016 11:40	GW MW-03	606	<MDA	n/a
11/10/2016 12:50	GW MW-04	681	<MDA	n/a
11/10/2016 14:15	GW MW-07	794	<MDA	n/a
11/10/2016 15:25	GW MW-08	4667	<MDA	n/a
11/11/2016 12:00	GW MW-11	< 217	<MDA	n/a
11/11/2016 13:40	GW MW-10	< 217	<MDA	n/a
11/11/2016 15:10	GW MW-09	< 217	<MDA	n/a
11/11/2016 17:00	GW Dewat A	3413	<MDA	n/a
12/7/2016 10:12	GW MW-08	1057	<MDA	n/a
12/7/2016 10:40	GW Dewat E	3460	<MDA	n/a
12/7/2016 11:00	GW Dewat A	8630	<MDA	n/a
12/7/2016 13:00	GW MW-02	1122	<MDA	n/a
12/7/2016 13:30	GW MW-01	2440	<MDA	n/a

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Catch Basin, Storm Drains, and Surface Water Quarterly Sampling

Sample Date	Location	Tritium Activity (pCi/L)	Gamma Activity (pCi/L)	Hard-to-Detect Activity (pCi/L)
1st Quarter				
1/13/2016 12:42	GW DSN015	< 240	<MDA	n/a
1/13/2016 11:30	GW Sewage	287	<MDA	n/a
1/13/2016 11:40	GW Sed Pond A	< 240	<MDA	n/a
1/13/2016 12:15	GW DSN015D	< 240	<MDA	n/a
1/13/2016 12:22	GW U3 EECW	< 240	<MDA	n/a
1/13/2016 12:27	GW U2 EECW	637	<MDA	n/a
1/13/2016 12:33	GW U1 EECW	< 240	<MDA	n/a
1/28/2016 9:50	GW Sed Pond B	400	<MDA	n/a
1/13/2016 12:42	GW DSN015	< 240	<MDA	n/a
2nd Quarter				
5/13/2016 10:40	GW U1 EECW	< 209	<MDA	n/a
5/13/2016 11:00	GW DSN015	< 209	<MDA	<MDA
5/13/2016 11:20	GW U3 EECW	< 209	<MDA	n/a
5/13/2016 13:00	GW DSN015D	< 209	<MDA	n/a
5/13/2016 13:15	GW U2 EECW	< 209	<MDA	n/a
5/25/2016 8:40	GW Sed Pond B	< 218	<MDA	n/a
5/25/2016 8:45	GW Sed Pond A	< 218	<MDA	n/a
5/25/2016 8:55	GW Sewage	< 218	<MDA	n/a
6/17/2016 10:00	GW DSN015	< 1760	<MDA	n/a
6/17/2016 10:05	GW DSN015D	< 1760	<MDA	n/a
3rd Quarter				
9/14/2016 9:40	GW Sed Pond A	345	<MDA	n/a
9/14/2016 9:45	GW Sed Pond B	354	<MDA	n/a
9/14/2016 9:50	GW Sewage	< 208	<MDA	n/a
9/14/2016 10:50	GW DSN015D	381	<MDA	n/a
9/14/2016 10:55	GW U3 EECW	293	<MDA	n/a
9/14/2016 11:00	GW U2 EECW	217	<MDA	n/a
9/14/2016 13:55	GW DSN015	381	<MDA	n/a
9/14/2016 14:05	GW U1 EECW	443	<MDA	n/a
4th Quarter				
10/21/2016 13:30	GW U1 EECW	< 1120	<MDA	n/a
10/21/2016 13:35	GW DSN015	< 1120	<MDA	n/a
10/21/2016 13:40	GW U2 EECW	< 1120	<MDA	n/a
10/21/2016 13:45	GW U3 EECW	< 1120	<MDA	n/a
10/21/2016 13:50	GW DSN015D	< 1120	<MDA	n/a
12/1/2016 8:50	GW Sed Pond B	< 1040	<MDA	n/a
12/1/2016 9:00	GW Sed Pond A	< 1040	<MDA	n/a
12/1/2016 9:10	GW Sewage	< 1040	<MDA	n/a

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< MDA - less than minimum detectable activity

Tritium LLD typically 270 pCi/L

n/a - not analyzed

20,000 pCi/L tritium - Environmental Protection Agency's (EPA) standard for tritium associated with drinking water

1,000,000 pCi/L tritium - 10CFR20, Appendix B, Table 2, Column 2, Effluent Concentration limit