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10 CFR 50.36 §a
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: **2021 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 2021. 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.

There are no new regulatory commitments contained in this letter. Should you have any questions concerning this submittal, please contact Chris Vaughn at (256) 729-2636.

Respectfully,

A handwritten signature in black ink, appearing to read 'M. M. Rasmussen', with a stylized flourish at the end.

M. M. Rasmussen
Site Vice President

Enclosure: 2021 Annual Radioactive Effluent Release Report

cc (w/ Enclosures):

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

ENCLOSURE

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

2021 Annual Radioactive Effluent Release Report

See Enclosed

Browns Ferry Nuclear Plant

Tennessee Valley Authority

Annual Radioactive Effluent Release Report (ARERR)

2021



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I. Introduction

II. Supplemental Information

A. Regulatory Limits

1. Gaseous Effluents

Fission and Activation Gases

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.

Iodines and Particulates with Half-Lives Greater than Eight Days

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.

2. 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.

B. Limitation on Dose Rate

1. Gaseous Effluents

Fission and Activation Gases

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.

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

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Iodines and Particulates with Half-Lives Greater than Eight Days

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.

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

2. Liquid Effluents

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.

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

C. 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.

D. Measurements & Approximations of Total Radioactivity

Radioactivity measurements performed in support of the Browns Ferry Nuclear Plant ODCM meet the Lower Limit of Detection requirements given in ODCM Tables 2.2-1 and 2.2-2.

1. Gaseous Effluents

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.

In 2019, Browns Ferry revised noble gas sampling and analysis procedures which included sampling with a larger volume (1240 cc gas Marinelli) and analyzing for a longer count time (1000 seconds). Since this revision, the site has detected low levels of noble gases in the stack vent, which is expected.

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

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.

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.

Carbon-14 (C-14) production and gaseous waste effluent activity source term estimates were based on methodology provided in EPRI 1021106, Estimation of Carbon-14 in Nuclear Power Plant Gaseous Effluents, December 2010. C-14 gaseous activity and dose calculations are made using the following assumptions: (1) continuous release of the estimated C-14 generated for each unit during power operation based on the number of Effective Fuel Power Days (EFPD) for the period, (2) maximum C-14 activity from literature values cited in EPRI Report 1021106, and (3) typical fraction as carbon dioxide for gaseous releases from literature values also cited in EPRI Report 1021106.

In 2019, Browns Ferry updated C-14 production rate estimates utilizing the proxy methodology provided in EPRI Report 1021106. TVA documented this update in *Updated Carbon-14 Production Rate Estimates for Gaseous Releases at TVA NPG Sites*, October 2019. The C-14 releases increased in 2019 due to all three units completing Extended Power Uprate (EPU). The EPU for each unit increased the units' MWth (Megawatt thermal) from 3,458 to 3,952 MWth. This increase in MWth is used in the calculation of C-14 releases. The increase in C-14 releases is expected.

2. Liquid Effluents

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.

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.

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E. Batch Releases

1. Gaseous

Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
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1. Gaseous

1. Number of Batch Releases		1	0	0	0	1
2. Total duration of batch releases	minutes	4.80E+01	0.00E+00	0.00E+00	0.00E+00	4.80E+01
3. Maximum batch release duration	minutes	4.80E+01	0.00E+00	0.00E+00	0.00E+00	4.80E+01
4. Average batch release duration	minutes	4.80E+01	0.00E+00	0.00E+00	0.00E+00	4.80E+01
5. Minimum batch release duration	minutes	4.80E+01	0.00E+00	0.00E+00	0.00E+00	4.80E+01

2. Liquid

Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
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1. Liquids

1. Number of Batch Releases		22	17	1	5	45
2. Total duration of batch releases	minutes	1.29E+04	1.06E+04	1.17E+03	5.43E+03	3.00E+04
3. Maximum batch release duration	minutes	1.44E+03	1.98E+03	1.17E+03	1.37E+03	1.98E+03
4. Average batch release duration	minutes	5.85E+02	6.21E+02	1.17E+03	1.09E+03	6.67E+02
5. Minimum batch release duration	minutes	1.00E+00	2.25E+02	1.17E+03	8.65E+02	1.00E+00
6. Avg stream flow during periods of release of liquid effluent into a flowing stream	CFS	7.51E+04	4.39E+04	4.37E+04	4.29E+04	NA

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F. Abnormal Releases

1. Gaseous

Abnormal gaseous tritium releases occurred in 2021 from the Auxiliary Boiler System when the boilers were in service for unit outages. The identified source of tritium to the auxiliary boiler system is main steam leak-by from degraded Steam Jet Air Ejector (SJAE) / Auxiliary Boiler valves to the auxiliary boiler header (CR 1508177). Beginning in 2022, these valves will be replaced during each unit's respective outage.

Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
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1. Gaseous

1. Number of abnormal Releases		2	0	0	0	2
2. Total Activity for abnormal releases	Ci	5.10E-01	0.00E+00	0.00E+00	0.00E+00	5.10E-01

2. Liquid

Abnormal liquid tritium releases occurred throughout 2021 from Unit 1, Unit 2, and Unit 3 Station Sumps (CR 1667682). Plant station sumps are auto-pumped to unit specific Condenser Circulating Water (CCW) discharge and subsequently to the Tennessee River. Identified sources include: main steam leak-by from degraded SJAE / Auxiliary boiler system valves to Unit 1 Station Sump, Vacuum Priming system and multiple steam leaks in the SJAE and Offgas Recombiner rooms.

Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
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2. Liquids

1. Number of abnormal Releases		3	1	3	0	7
2. Total Activity for abnormal releases	Ci	7.87E+00	9.59E-02	2.67E-02	0.00E+00	7.99E+00

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G. Non-routine Planned Discharges

In calendar year 2021 there were no non-routine planned discharges.

H. Radioactive Waste System Treatment Changes

In calendar year 2021 there were no changes to the radwaste system or the process control program (PCP).

I. Land Use Census Changes

In calendar year 2021 there were no changes to the land use census.

J. Effluent Monitoring Instrument Inoperability > 30 Days

In calendar year 2021 there were three gaseous effluent monitoring instruments inoperable > 30 days.

1. CR 1685958 documented 4/13/2021 for Stack 0-RM-90-147/148 sample flow abnormal alarm. AUCO dispatched and found both sample pumps not working properly. Operations declared 0-RM-90-147/148 inoperable 4/13/2021 (LCO Tracking # 0-90-ODCM-2021-0014) and compensatory sampling was established. 0-RM-90-147/148 was returned to service 6/1/2021 (CR 1695165).
2. CR 1686789 documented 4/16/2021 for 1-RM-90-249 Communication Channel Failure. Operations declared 1-RM-90-249 inoperable on 4/15/2021 (LCO Tracking # 1-90-ODCM-2021-0002) and compensatory sampling was established. Per WO 122060811, the CAM is in need of a new CPU, therefore ECP to upgrade CPU (ECP BFN-20-1914-03). 1-RM-90-249 returned to service 7/16/2021 (CR 1695158).
3. CR 1697594 documented 5/29/2021 for 3-RM-90-249 Communication Channel Failure. Operations declared 3-RM-90-249 inoperable on 5/29/2021 (LCO Tracking # 3-90-ODCM-2021-0002) and compensatory sampling was established. Per WO 122155448, the CAM is in need of a new CPU, therefore ECP to upgrade CPU (ECP BFN-20-1914-04). 3-RM-90-249 returned to service 7/24/2021 (CR 1705606).

K. Effluent Monitoring Equipment Sample Deviation

In calendar year 2021 there were two gaseous effluent monitoring sample deviations.

On 6/16/2021, a chemistry technician did not collect two ODCM LCO noble gas samples (1-RM-90-249 and 3-RM-90-249) within the 8 hour ODCM requirement. The technician confused the sample and flow times which caused the noble gas samples to be collected 8 hours and 58 minutes after the previous sample time (CR 1709478).

L. Offsite Dose Calculation Manual Changes

In calendar year 2021 there were no changes to the Offsite Dose Calculation Manual.

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M. Groundwater Monitoring and Program (NEI 07-07)

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. The groundwater wells described in this section are not part of the Radiological Environmental Monitoring Program (REMP).

In the early 2000s, BFN initiated a groundwater study to identify the source of low level tritium detected on-site. Results from the groundwater study (Investigation of Tritium Releases to Groundwater, 2006), suggest the source of tritiated groundwater was from historical leaks and spills associated with Radwaste/Condensate transfer tunnel. Groundwater and surface water level measurements during the study indicated the return channel and subsequently the Tennessee River will ultimately be recipient to tritiated groundwater discharge from the site. Groundwater movement in the area has been determined to be from the plant site toward the Tennessee River (BFN FSAR Chapter 2.4) with no groundwater drinking wells onsite.

On-site groundwater monitoring was performed in 2021. 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 30 groundwater wells located in the protected area and the owner controlled area during 2021. Normal sampling frequencies are quarterly and semiannually with some wells sampled monthly if certain criteria are met or for investigation purposes. Samples are routinely analyzed for environmental level 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 recapture and on-site storm drains, catch basins and surface water.

In 2021, low levels of tritium were detected in on-site groundwater wells as indicated in Table 10, Groundwater Data. Table 10 demonstrates all on-site groundwater wells that indicated detectable tritium concentrations. Tritium concentrations in 2021 ranged from non-detectable (less than 131 pCi/L) up to a maximum concentration of 7,080 pCi/L (MW-1). BFN has been monitoring a legacy tritium plume in the vicinity of groundwater well Dewat-A located adjacent to the reactor building. This plume is the result of previous leaks in past years (2015 and 2016). No other plant related radionuclides were detected in any groundwater well or surface water sample. There were no instances of any on-site spills or leaks that occurred during 2021 that were communicated to off-site agencies or that met the criteria in NEI 07-07, Appendix A. Using the highest groundwater well tritium concentration of 7,080 uCi/ml, a leak rate of groundwater to the return channel of 0.50 gpm, and a dilution of 20,000, a total of 3.54E-07 curies was estimated to be the groundwater release to the Tennessee river (Investigation of Tritium Releases to Groundwater, 2006).

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Table 10 - Groundwater Data

Sample Date	Well ID	Tritium Activity (pCi/L)	Sample Date	Well ID	Tritium Activity (pCi/L)
1st Quarter 2021			2nd Quarter 2021		
1/28/2021	Dewat-A	3800	5/14/2021	Dewat-A	839
1/28/2021	MW-08	1120	5/14/2021	MW-01	439
1/28/2021	MW-08i	536	5/14/2021	MW-02i	1070
2/24/2021	Dewat-A	3770	5/13/2021	MW-03	554
2/23/2021	MW-01	7080	5/14/2021	MW-07	2560
2/24/2021	MW-02	1050	5/14/2021	MW-08	2990
2/24/2021	MW-02i	212	5/14/2021	MW-08i	413
2/23/2021	MW-03	874	5/13/2021	MW-11	242
2/23/2021	MW-04	4630	5/13/2021	MW-15	225
2/23/2021	MW-07	2780	5/13/2021	MW-18	333
2/24/2021	MW-08	1380	5/13/2021	MW-19	730
2/24/2021	MW-08i	431			
2/23/2021	MW-18	222			
2/22/2021	MW-19	840			
3/22/2021	Dewat-A	2190			
3/22/2021	MW-01	1750			
3/22/2021	MW-08	1430			
3/22/2021	MW-08i	484			
3rd Quarter 2021			4th Quarter 2021		
8/5/2021	MW-02	654	11/9/2021	Dewat-A	1280
8/5/2021	MW-04	401	11/9/2021	MW-01	741
8/10/2021	Dewat-A	1960	11/9/2021	MW-02	970
8/11/2021	MW-01	1010	11/9/2021	MW-02i	503
8/11/2021	MW-02	888	11/9/2021	MW-03	649
8/10/2021	MW-02i	213	11/9/2021	MW-04	450
8/11/2021	MW-03	731	11/9/2021	MW-08	696
8/11/2021	MW-04	213	11/9/2021	MW8i	395
9/10/2021	MW-07	2190	11/8/2021	MW-15	291
8/11/2021	MW-08	780	11/9/2021	MW-18	513
8/11/2021	MW-08i	528	11/9/2021	MW-19	2240
8/10/2021	MW-18	263			
8/10/2021	MW-19	781			

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N. Errata/Corrections to Previous ARERRs

In 2021, it was discovered in the 2019 ARERR there were incorrect particulate concentrations reported in the first and second quarter Gaseous Effluents Summation of all Releases (CR 1696498).

Chemistry performed a review of the data generated for the preparation of 2019 ARERR and found that N-13 radionuclide (from elevated releases) was calculated with the total summation of particulates for the first and second quarters. This resulted in significantly higher particulate concentrations being reported. N-13 has a half-life of less than 10 minutes and should not have been reported with the total particulates. In the 2019 ARERR, Table 1A, Gaseous Effluents - Summation of All Releases is the table with the error. Table 1C - Elevated Releases indicates the correct concentrations, in which N-13 is not reported. The 2019 data reviewed indicated that chemistry did line through the N-13 particulate concentrations (1Q 3.89E+01 and 2Q 4.96E+01) on the elevated release point, however failed to carry that correction over to the gaseous summation of all releases report page. The correct 1Q total gaseous particulate concentration is 5.70E-04 curies. The correct 2Q total gaseous particulate concentration is 2.37E-04 curies.

In conclusion, an administrative error was made to the 2019 ARERR Table 1A Gaseous Effluents - Summation of All Releases in the first and second quarter gaseous particulate concentrations. This error was due to including N-13 (less than 8 day half-life) from the elevated release in the summation of gaseous particulate concentrations. There is no change in actual dose released to the public, as this was an administrative error.

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III. Gaseous Effluents

Table 1-A Gaseous Effluents - Summation of all Releases

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	Est. Total Error
A. Fission and Activation Gases							
1. Total Release	Ci	<LLD	6.98E-01	2.26E+00	4.28E+01	4.57E+01	± 45%
2. Average Release Rate	µCi/sec	<LLD	8.88E-02	2.84E-01	5.38E+00	1.45E+00	
3. Percent of Limit	%	*	*	*	*	*	
B. Iodines							
1. Total Release	Ci	2.63E-04	8.59E-04	1.44E-03	2.16E-03	4.72E-03	± 36%
2. Average Release Rate	µCi/sec	3.38E-05	1.09E-04	1.81E-04	2.72E-04	1.50E-04	
3. Percent of Limit	%	*	*	*	*	*	
C. Particulates							
1. Total Release	Ci	7.77E-04	3.79E-04	3.66E-04	5.84E-04	2.11E-03	± 35%
2. Average Release Rate	µCi/sec	9.99E-05	4.82E-05	4.60E-05	7.35E-05	6.68E-05	
3. Percent of Limit	%	*	*	*	*	*	
D. Tritium							
1. Total Release	Ci	6.73E+01 ¹	9.83E+01	7.82E+01	4.10E+01	2.85E+02 ¹	± 21%
2. Average Release Rate	µCi/sec	8.66E+00	1.25E+01	9.84E+00	5.15E+00	9.03E+00	
3. Percent of Limit	%	*	*	*	*	*	
E. Gross Alpha							
1. Total Release	Ci	<LLD	<LLD	<LLD	2.29E-06	2.29E-06	
F. Carbon-14							
1. Total CO ₂ Release	Ci	1.21E+01	1.28E+01	1.43E+01	1.42E+01	5.33E+01	

¹ Includes activity from abnormal releases. Dilution flow was not determined for abnormal releases.

* Applicable Limits are expressed in terms of dose. Reference Section VI, Radiological Impact, Table 3.

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Table 1-B Gaseous Effluents – Ground Level Releases (Batch)¹

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
1. Fission and Activation Gases						
Kr-85	Ci	NA	NA	NA	NA	NA
Kr-85m	Ci	NA	NA	NA	NA	NA
Kr-87	Ci	NA	NA	NA	NA	NA
Kr-88	Ci	NA	NA	NA	NA	NA
Xe-133	Ci	NA	NA	NA	NA	NA
Xe-135m	Ci	NA	NA	NA	NA	NA
Xe-138	Ci	NA	NA	NA	NA	NA
Total For Period	Ci	NA	NA	NA	NA	NA
2. Iodines						
I-131	Ci	NA	NA	NA	NA	NA
I-133	Ci	NA	NA	NA	NA	NA
I-135	Ci	NA	NA	NA	NA	NA
Total For Period	Ci	NA	NA	NA	NA	NA
3. Particulates						
Mn-54	Ci	NA	NA	NA	NA	NA
Co-58	Ci	NA	NA	NA	NA	NA
Co-60	Ci	NA	NA	NA	NA	NA
Zn-65	Ci	NA	NA	NA	NA	NA
Sr-89	Ci	NA	NA	NA	NA	NA
Sr-90	Ci	NA	NA	NA	NA	NA
Ag-110m	Ci	NA	NA	NA	NA	NA
Cs-134	Ci	NA	NA	NA	NA	NA
Cs-137	Ci	NA	NA	NA	NA	NA
Ba-140	Ci	NA	NA	NA	NA	NA
La-140	Ci	NA	NA	NA	NA	NA
Total For Period	Ci	NA	NA	NA	NA	NA
4. Gross Alpha						
Gross Alpha	Ci	NA	NA	NA	NA	NA
5. Tritium						
H-3	Ci	NA	NA	NA	NA	NA
6. Carbon-14						
C-14	Ci	NA	NA	NA	NA	NA

¹ In 2021, there were no gaseous batch releases through the ground mode release points.

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Table 1-B Gaseous Effluents – Ground Level Releases (Continuous)

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
1. Fission and Activation Gases						
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total For Period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
2. Iodines						
I-131	Ci	8.14E-06	2.84E-06	8.67E-06	1.22E-04	1.42E-04
I-133	Ci	8.85E-06	3.01E-05	2.12E-05	1.07E-04	1.67E-04
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total For Period	Ci	1.70E-05	3.29E-05	2.99E-05	2.29E-04	3.09E-04
3. Particulates						
Mn-54	Ci	2.43E-06	<LLD	<LLD	<LLD	2.43E-06
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	9.97E-06	5.66E-06	<LLD	<LLD	1.56E-05
Ag-110m	Ci	2.05E-06	<LLD	<LLD	<LLD	2.05E-06
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
La-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total For Period	Ci	1.45E-05	5.66E-06	<LLD	<LLD	2.01E-05
4. Gross Alpha						
Gross Alpha	Ci	<LLD	<LLD	<LLD	9.30E-08	9.30E-08
5. Tritium						
H-3	Ci	2.57E+01 ¹	2.34E+01	1.73E+01	1.94E+01	8.58E+01 ¹
6. Carbon-14						
C-14	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

¹ Includes activity from abnormal releases. Dilution flow was not determined for abnormal releases.

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Table 1-C Gaseous Effluents – Elevated Releases (Batch)

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
1. Fission and Activation Gases						
Kr-85	Ci	<LLD	NA	NA	NA	<LLD
Kr-85m	Ci	<LLD	NA	NA	NA	<LLD
Kr-87	Ci	<LLD	NA	NA	NA	<LLD
Kr-88	Ci	<LLD	NA	NA	NA	<LLD
Xe-133	Ci	<LLD	NA	NA	NA	<LLD
Xe-135m	Ci	<LLD	NA	NA	NA	<LLD
Xe-138	Ci	<LLD	NA	NA	NA	<LLD
Total For Period	Ci	<LLD	NA	NA	NA	<LLD
2. Iodines						
I-131	Ci	<LLD	NA	NA	NA	<LLD
I-133	Ci	<LLD	NA	NA	NA	<LLD
I-135	Ci	<LLD	NA	NA	NA	<LLD
Total For Period	Ci	<LLD	NA	NA	NA	<LLD
3. Particulates						
Mn-54	Ci	<LLD	NA	NA	NA	<LLD
Co-58	Ci	<LLD	NA	NA	NA	<LLD
Co-60	Ci	<LLD	NA	NA	NA	<LLD
Zn-65	Ci	<LLD	NA	NA	NA	<LLD
Sr-89	Ci	<LLD	NA	NA	NA	<LLD
Sr-90	Ci	<LLD	NA	NA	NA	<LLD
Ag-110m	Ci	<LLD	NA	NA	NA	<LLD
Cs-134	Ci	<LLD	NA	NA	NA	<LLD
Cs-137	Ci	<LLD	NA	NA	NA	<LLD
Ba-140	Ci	<LLD	NA	NA	NA	<LLD
La-140	Ci	<LLD	NA	NA	NA	<LLD
Total For Period	Ci	<LLD	NA	NA	NA	<LLD
4. Gross Alpha						
Gross Alpha	Ci	<LLD	NA	NA	NA	<LLD
5. Tritium						
H-3	Ci	1.79E-03	NA	NA	NA	1.79E-03
6. Carbon-14						
C-14	Ci	NA	NA	NA	NA	NA

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Table 1-C Gaseous Effluents – Elevated Releases (Continuous)

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
1. Fission and Activation Gases						
Ar-41	Ci	<LLD	6.98E-01	2.26E+00	1.86E+00	4.82E+00
Kr-85m	Ci	<LLD	<LLD	<LLD	4.89E+00	4.89E+00
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-87	Ci	<LLD	<LLD	<LLD	1.30E+00	1.30E+00
Kr-88	Ci	<LLD	<LLD	<LLD	9.78E+00	9.78E+00
Xe-133	Ci	<LLD	<LLD	<LLD	2.17E+01	2.17E+01
Xe-135	Ci	<LLD	<LLD	<LLD	3.24E+00	3.24E+00
Xe-135m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total For Period	Ci	<LLD	6.98E-01	2.26E+00	4.27E+01	4.57E+01
2. Iodines						
I-131	Ci	3.65E-05	2.38E-05	3.97E-05	6.55E-04	7.55E-04
I-133	Ci	1.37E-04	1.07E-04	2.02E-04	6.55E-04	1.10E-03
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total For Period	Ci	1.73E-04	1.31E-04	2.41E-04	1.31E-03	1.85E-03
3. Particulates						
Au-199	Ci	1.76E-04	9.96E-05	1.44E-04	3.03E-04	7.23E-04
Na-24	Ci	<LLD	<LLD	<LLD	1.00E-04	1.00E-04
Mn-54	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	<LLD	<LLD	8.44E-06	8.44E-06
Co-60	Ci	<LLD	<LLD	<LLD	4.71E-06	4.71E-06
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zn-69m	Ci	<LLD	<LLD	<LLD	1.37E-04	1.37E-04
Sr-89	Ci	5.16E-06	1.53E-06	7.15E-06	1.23E-05	2.61E-05
Sr-90	Ci	<LLD	1.26E-06	<LLD	<LLD	1.26E-06
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba-139	Ci	<LLD	9.91E-06	<LLD	<LLD	9.91E-06
Ba-140	Ci	<LLD	<LLD	<LLD	6.94E-06	6.94E-06
La-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Np-239	Ci	2.12E-05	<LLD	<LLD	<LLD	2.12E-05
Total For Period	Ci	2.03E-04	1.12E-04	1.51E-04	5.72E-04	1.04E-03
4. Gross Alpha						
Gross Alpha	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
5. Tritium						
H-3	Ci	6.34E+00	6.24E+00	6.51E+00	3.11E+00	2.22E+01
6. Carbon-14						
C-14	Ci	1.21E+01	1.28E+01	1.43E+01	1.42E+01	5.33E+01

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Table 1-D Gaseous Effluents – Mixed Mode Releases (Batch)¹

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
1. Fission and Activation Gases						
Kr-85	Ci	NA	NA	NA	NA	NA
Kr-85m	Ci	NA	NA	NA	NA	NA
Kr-87	Ci	NA	NA	NA	NA	NA
Kr-88	Ci	NA	NA	NA	NA	NA
Xe-133	Ci	NA	NA	NA	NA	NA
Xe-135m	Ci	NA	NA	NA	NA	NA
Xe-138	Ci	NA	NA	NA	NA	NA
Total For Period	Ci	NA	NA	NA	NA	NA
2. Iodines						
I-131	Ci	NA	NA	NA	NA	NA
I-133	Ci	NA	NA	NA	NA	NA
I-135	Ci	NA	NA	NA	NA	NA
Total For Period	Ci	NA	NA	NA	NA	NA
3. Particulates						
Mn-54	Ci	NA	NA	NA	NA	NA
Co-58	Ci	NA	NA	NA	NA	NA
Co-60	Ci	NA	NA	NA	NA	NA
Zn-65	Ci	NA	NA	NA	NA	NA
Sr-89	Ci	NA	NA	NA	NA	NA
Sr-90	Ci	NA	NA	NA	NA	NA
Ag-110m	Ci	NA	NA	NA	NA	NA
Cs-134	Ci	NA	NA	NA	NA	NA
Cs-137	Ci	NA	NA	NA	NA	NA
Ba-140	Ci	NA	NA	NA	NA	NA
La-140	Ci	NA	NA	NA	NA	NA
Total For Period	Ci	NA	NA	NA	NA	NA
4. Gross Alpha						
Gross Alpha	Ci	NA	NA	NA	NA	NA
5. Tritium						
H-3	Ci	NA	NA	NA	NA	NA
6. Carbon-14						
C-14	Ci	NA	NA	NA	NA	NA

¹ In 2021, there were no gaseous batch releases through the mixed mode release points.

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Table 1-D Gaseous Effluents – Mixed Mode Releases (Continuous)

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
1. Fission and Activation Gases						
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	<LLD	<LLD	<LLD	2.18E-02	2.18E-02
Total For Period	Ci	<LLD	<LLD	<LLD	2.18E-02	2.18E-02
2. Iodines						
I-131	Ci	2.10E-05	8.88E-05	2.23E-04	2.79E-04	6.11E-04
I-133	Ci	5.21E-05	6.07E-04	9.42E-04	3.46E-04	1.95E-03
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total For Period	Ci	7.31E-05	6.96E-04	1.16E-03	6.24E-04	2.56E-03
3. Particulates						
Au-199	Ci	3.05E-05	<LLD	<LLD	<LLD	3.05E-05
Cr-51	Ci	2.36E-04	6.30E-06	<LLD	<LLD	2.42E-04
Mn-54	Ci	1.38E-05	<LLD	<LLD	1.21E-06	1.50E-05
Co-58	Ci	3.54E-05	<LLD	<LLD	<LLD	3.54E-05
Co-60	Ci	1.84E-04	1.91E-04	1.39E-04	1.04E-05	5.25E-04
Zn-65	Ci	5.31E-06	1.63E-05	<LLD	<LLD	2.16E-05
Zn-69m	Ci	3.72E-05	<LLD	<LLD	<LLD	3.72E-05
Se-75	Ci	4.83E-06	5.48E-06	1.80E-06	<LLD	1.21E-05
As-76	Ci	<LLD	<LLD	7.02E-05	<LLD	7.02E-05
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Nb-95	Ci	<LLD	<LLD	4.06E-06	<LLD	4.06E-06
Ag-110m	Ci	9.58E-06	6.21E-06	<LLD	<LLD	1.58E-05
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
La-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	3.53E-05	<LLD	<LLD	3.53E-05
Sb-124	Ci	2.86E-06	<LLD	<LLD	<LLD	2.86E-06
Total For Period	Ci	5.60E-04	2.61E-04	2.15E-04	1.16E-05	1.05E-03
4. Gross Alpha						
Gross Alpha	Ci	<LLD	<LLD	<LLD	2.19E-06	2.19E-06
5. Tritium						
H-3	Ci	3.52E+01	6.87E+01	5.44E+01	1.85E+01	1.77E+02
6. Carbon-14						
C-14	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

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IV. Liquid Effluents

Table 2-A Liquid Effluents - Summation of all Releases

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	Est. Total Error
A. Fission and Activation Products							
1. Total Release	CI	7.50E-02	3.52E-02	1.19E-05	6.56E-05	1.10E-01	± 9%
2. Average Diluted Concentration	µCi/mL	2.21E-09	1.34E-09	4.47E-12	9.70E-12	1.52E-09	
3. Percent of Limit	%	*	*	*	*	*	
B. Tritium							
1. Total Release	Ci	1.10E+01 ¹	3.82E+00 ¹	4.47E-02 ¹	1.83E-01	1.51E+01 ¹	± 6%
2. Average Diluted Concentration	µCi/mL	3.24E-07	1.46E-07	1.68E-08	1.91E-08	2.08E-07	
3. Percent of Limit	%	*	*	*	*	*	
C. Dissolved and Entrained Noble Gases							
1. Total Release	CI	5.33E-06	4.15E-06	<LLD	<LLD	9.49E-06	± 8%
2. Average Diluted Concentration	µCi/mL	1.57E-13	1.58E-13	<LLD	<LLD	1.31E-13	
3. Percent of Limit	%	*	*	*	*	*	
D. Gross Alpha Radioactivity							
1. Total Release	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	± 48%
E. Volume of Liquid Waste to Discharge Canal (prior to dilution)							
	Liters	1.63E+06	1.21E+06	8.33E+04	4.16E+05	3.34E+06	± 3%
F. Volume of Dilution Water							
	Liters	3.40E+10	2.62E+10	2.66E+09	9.60E+09	7.25E+10	± 10%
G. Total CCW							
	Gigagal	2.41E+02	2.60E+02	2.80E+02	2.76E+02	1.06E+03	

¹ Includes activity from abnormal releases. Dilution flow was not determined for abnormal releases.

* Applicable Limits are expressed in terms of dose. Reference Section VI, Radiological Impact, Table 4.

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Table 2-B Liquid Effluents – Batch Mode

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
1. Fission and Activation Products						
F-18	Ci	6.02E-04	1.80E-05	<LLD	<LLD	6.20E-04
Na-24	Ci	5.84E-03	<LLD	<LLD	<LLD	5.84E-03
Cr-51	Ci	1.14E-05	<LLD	<LLD	<LLD	1.14E-05
Mn-54	Ci	4.03E-03	4.09E-03	<LLD	<LLD	8.13E-03
Mn-56	Ci	3.41E-06	<LLD	<LLD	<LLD	3.41E-06
Fe-55	Ci	5.27E-03	1.58E-03	<LLD	<LLD	6.85E-03
Fe-59	Ci	3.61E-06	<LLD	<LLD	<LLD	3.61E-06
Co-57	Ci	<LLD	7.42E-06	<LLD	<LLD	7.42E-06
Co-58	Ci	2.34E-03	2.31E-03	<LLD	<LLD	4.65E-03
Co-60	Ci	1.33E-02	1.63E-02	<LLD	<LLD	2.96E-02
Zn-65	Ci	3.56E-02	8.72E-03	<LLD	<LLD	4.43E-02
Zn-69m	Ci	1.92E-06	<LLD	<LLD	<LLD	1.92E-06
Nb-97	Ci	5.21E-06	7.41E-05	<LLD	<LLD	7.93E-05
Ag-110m	Ci	2.27E-03	1.56E-03	<LLD	<LLD	3.83E-03
As-76	Ci	3.69E-05	<LLD	<LLD	<LLD	3.69E-05
Sr-89	Ci	1.36E-03	<LLD	<LLD	<LLD	1.36E-03
Sr-90	Ci	<LLD	1.52E-04	<LLD	<LLD	1.52E-04
Sr-92	Ci	9.58E-05	5.62E-05	<LLD	<LLD	1.52E-04
Y-91m	Ci	1.48E-05	<LLD	<LLD	<LLD	1.48E-05
Sb-122	Ci	1.23E-05	<LLD	<LLD	<LLD	1.23E-05
Sb-124	Ci	2.85E-04	<LLD	<LLD	<LLD	2.85E-04
Cs-134	Ci	1.03E-03	<LLD	<LLD	<LLD	1.03E-03
Cs-137	Ci	2.75E-03	3.23E-04	1.19E-05	6.56E-05	3.15E-03
Ba-140	Ci	1.19E-04	<LLD	<LLD	<LLD	1.19E-04
La-140	Ci	3.05E-05	1.45E-05	<LLD	<LLD	4.51E-05
Total For Period	Ci	7.50E-02	3.52E-02	1.19E-05	6.56E-05	1.10E-01
2. Tritium						
H-3	Ci	3.15E+00	3.72E+00	1.80E-02	1.83E-01	7.07E+00
Total For Period	Ci	3.15E+00	3.72E+00	1.80E-02	1.83E-01	7.07E+00
3. Dissolved and Entrained Gases						
Xe-135	Ci	5.33E-06	4.15E-06	<LLD	<LLD	9.49E-06
Total For Period	Ci	5.33E-06	4.15E-06	<LLD	<LLD	9.49E-06
4. Gross Alpha						
Total For Period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

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Table 2-B Liquid Effluents – Continuous Mode¹

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
1. Fission and Activation Products						
Co-58	Ci	NA	NA	NA	NA	NA
Co-60	Ci	NA	NA	NA	NA	NA
Cs-137	Ci	NA	NA	NA	NA	NA
Total For Period	Ci	NA	NA	NA	NA	NA
2. Dissolved and Entrained Gases						
Xe-133	Ci	NA	NA	NA	NA	NA
Xe-135	Ci	NA	NA	NA	NA	NA
Total For Period	Ci	NA	NA	NA	NA	NA

¹ In 2021, there were no liquid continuous releases.

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V. Solid Waste Storage and Shipment

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

1. <u>Type of Waste</u>	<u>Units</u>	<u>Jan-Jun</u>	<u>Jul-Dec</u>	<u>% Error</u>
a. Spent resins, filters, filter sludge evaporator bottoms, etc.	m ³ Ci	1.11E+02 9.32E+02	1.25E+02 1.26E+02	+/-25.0 +/-25.0
b. Dry compressible waste, contaminated equipment, etc.	m ³ Ci	2.19E+03 5.30E+00	851E+02 4.11E+00	+/-25.0 +/-25.0
c. Irradiated components, control rod blades & LPRMs with fission chambers	m ³ Ci	2.41E+00 7.71E+03	7.39E-01 3.07E+04	+/-25.0 +/-25.0
d. Other – Combined Packages	m ³ Ci	0.00E+00 0.00E+00	0.00E+00 0.00E+00	+/-25.0 +/-25.0

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2. Estimate of major nuclide composition (by type of waste)

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

	Nuclide	Percentage	Curies
1.	H-3	0.14%	1.48E+00
2.	C-14	0.05%	5.63E-01
3.	Cr-51	0.08%	8.19E-01
4.	Mn-54	7.83%	8.30E+01
5.	Fe-55	24.22%	2.57E+02
6.	Co-57	0.02%	2.00E-01
7.	Co-58	5.59%	5.93E+01
8.	Co-60	42.39%	4.49E+02
9.	Ni-59	0%	3.81E-03
10.	Ni-63	0.66%	6.98E+00
11.	Zn-65	8.35%	8.85E+01
12.	Sr-89	0.23%	2.49E+00
13.	Sr-90	0.01%	7.43E-02
14.	Zr-95	0.21%	2.19E+00
15.	Nb-95	0.53%	5.65E+00
16.	Tc-99	0.01%	9.56E-02
17.	Ag-110m	7.62%	8.08E+01
18.	Sn-113	0.01%	1.24E-01
19.	Sb-124	0.02%	1.64E-01
20.	Sb-125	0.05%	5.21E-01
21.	Cs-134	0.07%	7.86E-01
22.	Cs-137	1.86%	1.98E+01
23.	Ce-144	0.03%	3.67E-01
24.	Pu-238	0%	3.65E-05
25.	Pu-239	0%	1.07E-05
26.	Pu-241	0%	4.07E-03
27.	Am-241	0%	5.60E-04
28.	Cm-243	0%	6.80E-05

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b. Dry compressible waste, contaminated equipment, etc.

	Nuclide	Percentage	Curies
1.	H-3	0.31%	2.94E-02
2.	Cr-51	1.52%	1.43E-01
3.	Mn-54	6.18%	5.82E-01
4.	Fe-55	20.58%	1.94E+00
5.	Co-57	0.01%	6.98E-04
6.	Co-58	2.04%	1.92E-01
7.	Co-60	52.22%	4.92E+00
8.	Ni-63	0.36%	3.36E-02
9.	Zn-65	5.49%	5.17E-01
10.	Sr-89	0%	2.32E-04
11.	Sr-90	0.02%	1.64E-03
12.	Nb-95	0.69%	6.48E-02
13.	Tc-99	0%	3.20E-04
14.	Ag-110m	5.65%	5.33E-01
15.	Sb-125	0.32%	2.98E-02
16.	Cs-134	0.06%	5.24E-03
17.	Cs-137	4.57%	4.31E-01

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c. Irradiated components, control rod blades & LPRMs with fission chambers

	Nuclide	Percentage	Curies
1.	H-3	0.01%	4.08E+00
2.	C-14	0.01%	4.26E+00
3.	Cr-51	0.65%	2.48E+02
4.	Mn-54	1.31%	5.03E+02
5.	Fe-55	40.05%	1.54E+04
6.	Fe-59	0.07%	2.51E+01
7.	Co-58	0.48%	1.86E+02
8.	Co-60	47.41%	1.82E+04
9.	Ni-59	0.03%	1.30E+01
10.	Ni-63	7.02%	2.70E+03
11.	Zn-65	0.03%	1.27E+01
12.	Sr-90	0%	3.42E-01
13.	Zr-95	0%	3.90E-01
14.	Nb-94	0%	7.53E-02
15.	Nb-95	0%	6.09E-01
16.	Tc-99	0%	1.43E-02
17.	Ag-110m	0%	1.92E-04
18.	Sb-124	0%	1.07E+00
19.	Sb-125	0%	6.49E-02
20.	Cs-137	0%	3.68E-01
21.	Ce-144	0%	3.13E-01
22.	Hf-181	1.32%	5.07E+02
23.	Ta-182	1.59%	6.13E+02
24.	U-235	0%	1.97E-07
25.	Np-237	0%	2.57E-06
26.	Pu-238	0%	3.43E-02
27.	Pu-239	0%	2.19E-05
28.	Pu-240	0%	3.15E-05
29.	Pu-241	0%	6.59E-03
30.	Am-241	0%	3.53E-05
31.	Am-243	0%	2.52E-06
32.	Cm-242	0%	7.10E-04
33.	Cm-243	0%	1.77E-06
34.	Cm-244	0%	3.91E-04

d. Other –Combined Packages

	Nuclide	Percentage	Curies
1.	0	0	0

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3. Sold Waste Disposition

Number of Shipments	Mode of Transportation	Destination
1	Canal Barge Company	Energy Solutions Memphis 1790 Dock Street
3	ESS (TVA)	TOXCO, Inc. Materials Management Center
15	Hittman Transport Services	Energy Solutions Clive Bulk Waste Facility- Clive Disposal Site- Bulk Waste Facility
38	Hittman Transport Services	Energy Solutions LLC.(Clive) Clive Disposal Site – Containerized Waste Facility
4	Hittman Transport Services	Energy Solutions Memphis 1790 Dock Street
10	Hittman Transport Services	Energy Solutions Services Inc. 1560 Bear Creek Road
4	Hittman Transport Services	Waste Control Specialist, LLC CWF
1	Interstate Ventures, Inc.	Energy Solutions Services Inc. 1560 Bear Creek Road
1	Interstate Ventures, Inc.	TOXCO, Inc. Materials Management Center
9	Interstate Ventures, Inc.	Waste Control Specialist, LLC CWF
47	Specialty Transport, Inc.	Unitech Service Group, Inc. Oak Ridge Services Center

B. Irradiated Fuel Shipments (Disposition)

Number of Shipments	Mode of Transportation	Destination
0	-	-

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Radiological Impact

VI. Radiological Impact to Man

A. 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.

B. 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 (ALARA).

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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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.

C. 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 of 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 3, 4, and 5.

D. 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.

Releases from the stack are considered to be elevated releases. The Joint Frequency Distributions (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 2021 Meteorological Data Tables.

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 non-calm wind directions less than 1.6 m/s (3.5 mph). Stability classes are determined from the vertical temperature difference between two measurement levels.

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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.

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.

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.

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 3.

E. 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.

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Parameters used to determine the doses are based on guidance given by the NRC for maximum ingestion rates, exposure times, etc.

Wherever possible, parameters used in the dose calculation are site specific. The models that are used to estimate doses, as well as the parameters input to the models, are described in detail in the BFN ODCM.

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 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 4 along with the average river flows past the plant site for the periods.

F. 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.

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Population doses calculated for airborne and liquid effluents are presented in Tables 3 and 4.

G. Offsite Direct Radiation Dose

External gamma radiation levels were measured by environmental dosimeters deployed around BFN as part of the 2021 Radiological Environmental Monitoring Program (REMP). The 2021 environmental dosimeters were evaluated in accordance with the guidance provided in ANSI N13.37-2014. The process of this evaluation is summarized: 1) The average field dosimeter results is determined for each location and normalized to a standard quarter of 91 days, 2) The field results is adjusted by the transit and shield (storage) dose to determine the net dose at each location; this is performed at each location for each quarter, and the four quarters are summed to determine the annual net dose, 3) The quarterly and annual historical average net dose was determined for each monitoring location, based on data from 2017-2021, 4) The standard deviation of each historical net dose was calculated, to determine the 90th percentile standard deviation for both the quarterly and annual results, 5) the 2021 quarterly and annual net dose are compared to the historical averages (plus 3 times the 90th percentile standard deviation, also known as the minimum differential dose) to determine if any facility related dose was identified at any location during any quarter or the year.

The monitoring locations are grouped according to the distance from the plant. The onsite group consists of dosimeters within 2 miles of the plant. The offsite group consists of all locations greater than 2 miles from the plant. This difference in onsite and offsite averages is consistent with levels measured for preoperational and construction phases at BFN where the average radiation levels onsite were generally 2-6 mrem/quarter higher than the levels offsite. This may be attributed to natural variations in environmental radiation levels, earth moving activities onsite, the mass of concrete employed in the construction of the plant, or other undermined influences. In order to implement the methodology of ANSI N13.37-2014, the dose received by dosimeters in shielded storage that are used as unexposed controls was determined. This in turn was used to account for extraneous dose that should be removed from the gross measurements as measured by field dosimeters.

The result of the evaluation of environmental dosimeters is that there were no facility related dose measured in the environment around Browns Ferry. There were no quarterly or annual dosimeters that exceed the historical baseline plus the calculated minimum differential dose.

H. 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 hypothetical 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 REMF environmental dosimeters located onsite. The critical location was determined to be an Optically Stimulated Luminescence (OSL) dosimeter near the Livewell Center (SE-1). The direct radiation dose at

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the Livewell Center, accounting for background and occupancy, was determined to be not detectable as this location did not exceed the historical baseline plus the calculated minimum differential dose.

The total annual dose commitment to a member of the public for 2021 was not detectable. It is concluded that the dose limit for a member of the public at the site boundary, as specified in 10 CFR 20.1301, less than 100 mrem/year was not exceeded.

I. Total Dose

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

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

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

Total dose from the fuel cycle is presented in Table 5.

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Radiological Impact

J. Tables

Table 3-A Doses from Airborne Effluents – 1st Quarter

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location
Beta Air	0.00E+00 mrad	10 mrad	< 1	NA
Gamma Air	0.00E+00 mrad	5 mrad	< 1	NA
NG Skin	0.00E+00 mrad	NA	NA	NA
NG Total Body	0.00E+00 mrad	NA	NA	NA
Organ Doses (Iodine, Tritium, Particulates with >8-Day half-life)				
Child / Thyroid	8.79E-03 mrem	7.5 mrem	< 1	E 1530 meters
Child / Total Body	8.82E-03 mrem	7.5 mrem	< 1	E 1530 meters
Child / Bone	2.44E-02 mrem	7.5 mrem	< 1	SSW 4880 meters

Population Doses

Total Body Dose	1.93E-01 man-rem
Maximum Organ Dose (Organ)	8.01E-01 man-rem (Bone)

Table 3-B Doses from Airborne Effluents – 2nd Quarter

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location
Beta Air	6.48E-07 mrad	10 mrad	< 1	NNW 4800 meters
Gamma Air	6.00E-06 mrad	5 mrad	< 1	NNW 4800 meters
NG Skin	7.19E-06 mrad	NA	NA	NNW 1650 meters
NG Total Body	6.91E-06 mrad	NA	NA	NNW 1650 meters
Organ Doses (Iodine, Tritium, Particulates with >8-Day half-life)				
Child / Thyroid	1.25E-02 mrem	7.5 mrem	< 1	NNW 4350 meters
Child / Total Body	1.25E-02 mrem	7.5 mrem	< 1	NNW 4350 meters
Child / Bone	4.04E-02 mrem	7.5 mrem	< 1	NNW 4350 meters

Population Doses

Total Body Dose	2.26E-01 man-rem
Maximum Organ Dose (Organ)	9.15E-01 man-rem (Bone)

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Table 3-C Doses from Airborne Effluents – 3rd Quarter

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location
Beta Air	2.10E-06 mrad	10 mrad	< 1	N 6000 meters
Gamma Air	1.94E-05 mrad	5 mrad	< 1	N 6000 meters
NG Skin	2.33E-05 mrad	NA	NA	NNW 1650 meters
NG Total Body	2.23E-05 mrad	NA	NA	NNW 1650 meters
Organ Doses (Iodine, Tritium, Particulates with >8-Day half-life)				
Child / Thyroid	1.38E-02 mrem	7.5 mrem	< 1	N 6200 meters
Child / Total Body	1.36E-02 mrem	7.5 mrem	< 1	N 6200 meters
Child / Bone	5.54E-02 mrem	7.5 mrem	< 1	N 6200 meters

Population Doses

Total Body Dose 2.68E-01 man-rem
Maximum Organ Dose (Organ) 1.18E+00 man-rem (Bone)

Table 3-D Doses from Airborne Effluents – 4th Quarter

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location
Beta Air	2.54E-05 mrad	10 mrad	< 1	N 6100 meters
Gamma Air	1.74E-04 mrad	5 mrad	< 1	N 6100 meters
NG Skin	2.10E-04 mrad	NA	NA	N 2440 meters
NG Total Body	1.98E-04 mrad	NA	NA	N 2440 meters
Organ Doses (Iodine, Tritium, Particulates with >8-Day half-life)				
Child / Thyroid	8.68E-03 mrem	7.5 mrem	< 1	N 6200 meters
Child / Total Body	8.22E-03 mrem	7.5 mrem	< 1	N 6200 meters
Child / Bone	3.32E-02 mrem	7.5 mrem	< 1	N 6200 meters

Population Doses

Total Body Dose 1.81E-01 man-rem
Maximum Organ Dose (Organ) 7.88E-01 man-rem (Bone)

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Table 4-C Doses from Liquid Effluents – 3rd Quarter

Individual Doses

Age Group	Organ	Dose	Quarterly Limit	Percent of Limit
Child	Bone	5.20E-06 mrem	1.5 mrem	< 1
Child	Thyroid	6.10E-07 mrem	1.5 mrem	< 1
Adult	Total Body	3.50E-06 mrem	5 mrem	< 1

Average River Flow past BFN: 43,654 CFS

Population Doses

Total Body Dose 4.60E-05 man-rem
Maximum Organ Dose (Organ) 6.20E-05 man-rem (Liver)

Table 4-D Doses from Liquid Effluents – 4th Quarter

Individual Doses

Age Group	Organ	Dose	Quarterly Limit	Percent of Limit
Teen	Liver	2.85E-05 mrem	1.5 mrem	< 1
Child	Thyroid	2.82E-06 mrem	1.5 mrem	< 1
Adult	Total Body	1.90E-05 mrem	5 mrem	< 1

Average River Flow past BFN: 42,903 CFS

Population Doses

Total Body Dose 2.40E-04 man-rem
Maximum Organ Dose (Organ) 3.30E-04 man-rem (Liver)

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Table 4-E Total Dose from I-131 Water Ingestion

Individual Doses

	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
I-131 (Ci)	<LLD	<LLD	<LLD	<LLD	<LLD
Thyroid (mrem)	NA	NA	NA	NA	NA
Population / Thyroid (mrem)	NA	NA	NA	NA	NA

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 is calculated. Based on Table 4-E, the performance of the I-131 specific analysis is not required for BFN REMP drinking water samples in 2021, as I-131 was not identified in any liquid effluent from the plant.

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Radiological Impact

Table 5 Total Dose from Fuel Cycle

Dose	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
Total Body or any Organ (except thyroid)					
Total body air (submersion)	0.00E+00	6.91E-06	2.23E-05	1.98E-04	
Critical organ dose (airborne)	2.44E-02	4.04E-02	5.54E-02	3.32E-02	
Total body dose (liquid)	1.60E-03	1.01E-03	3.50E-06	1.90E-05	
Maximum organ dose (liquid)	2.55E-03	1.30E-03	5.20E-06	2.85E-05	
Direct Radiation Dose	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Total	2.86E-02	4.27E-02	5.54E-02	3.34E-02	
Cumulative Total Dose (mrem)					1.60E-01
Annual Dose Limit (mrem)					25
Percent of Limit					< 1%
Thyroid					
Total body air (submersion)	0.00E+00	6.91E-06	2.23E-05	1.98E-04	
Thyroid dose (airborne)	8.79E-03	1.25E-02	1.38E-02	8.68E-03	
Total body dose (liquid)	1.60E-03	1.01E-03	3.50E-06	1.90E-05	
Thyroid dose (liquid)	4.20E-04	6.70E-04	6.10E-07	2.82E-06	
Direct Radiation Dose	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Total	1.08E-02	1.42E-02	1.38E-02	8.90E-03	
Cumulative Total Dose (mrem)					4.77E-02
Annual Dose Limit (mrem)					75
Percent of Limit					< 1%

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Meteorological Data

VII. Meteorological Data

Table 6-A Ground Level Releases - 1st Quarter JFD

Joint Frequency Distribution In Percent

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 Meteorological Data

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

JAN 1, 2021 - MAR 31, 2021

DIRECTION	WIND CALM	WIND SPEED (MPH)								TOTAL
		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	0.233	0.047	0.000	0.000	0.279
NNE	0.000	0.000	0.000	0.000	0.000	0.372	0.000	0.000	0.000	0.372
NE	0.000	0.000	0.000	0.047	0.000	0.093	0.093	0.000	0.000	0.233
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	0.047	0.000	0.000	0.000	0.047
ESE	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.047
SE	0.000	0.000	0.047	0.000	0.093	0.047	0.000	0.000	0.000	0.186
SSE	0.000	0.000	0.093	0.186	0.093	0.000	0.000	0.000	0.000	0.372
S	0.000	0.000	0.047	0.326	0.186	0.000	0.000	0.000	0.000	0.559
SSW	0.000	0.000	0.093	0.093	0.000	0.000	0.000	0.000	0.000	0.186
SW	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.047
WSW	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.047
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.093
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047
NNW	0.000	0.000	0.000	0.000	0.000	0.140	0.000	0.000	0.000	0.140
SUBTOTAL	0.000	0.000	0.279	0.652	0.512	1.024	0.186	0.000	0.000	2.654

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2148

TOTAL HOURS OF STABILITY CLASS A 57
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 57
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2148
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2021/04/21

MEAN WIND SPEED = 7.33

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 STA 52 D - Validated Edited Data

JAN 1, 2021 - MAR 31, 2021

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.000	0.047	0.233	0.000	0.000	0.000	0.279
NNE	0.000	0.000	0.000	0.000	0.093	0.093	0.000	0.000	0.000	0.186
NE	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.047
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
ESE	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
SE	0.000	0.000	0.047	0.093	0.093	0.093	0.000	0.000	0.000	0.326
SSE	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
S	0.000	0.000	0.000	0.140	0.047	0.000	0.000	0.000	0.000	0.186
SSW	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.093
W	0.000	0.000	0.000	0.000	0.000	0.093	0.000	0.000	0.000	0.093
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	0.140	0.047	0.000	0.000	0.186
NNW	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.047
SUBTOTAL	0.000	0.000	0.047	0.419	0.419	0.698	0.047	0.000	0.000	1.629

TOTAL HOURS OF VALID STABILITY OBSERVATIONS

2148

TOTAL HOURS OF STABILITY CLASS B

35

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B

35

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS

2148

TOTAL HOURS CALM

0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS

WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2021/04/21

MEAN WIND SPEED = 7.42

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

Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

JAN 1, 2021 - MAR 31, 2021

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	0.093	0.233	0.000	0.000	0.000	0.326
NNE	0.000	0.000	0.000	0.140	0.186	0.186	0.000	0.000	0.000	0.512
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.047
ENE	0.000	0.000	0.000	0.000	0.047	0.093	0.000	0.000	0.000	0.140
E	0.000	0.000	0.000	0.047	0.140	0.000	0.000	0.000	0.000	0.186
ESE	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.047
SE	0.000	0.000	0.093	0.093	0.000	0.000	0.000	0.000	0.000	0.186
SSE	0.000	0.000	0.093	0.047	0.047	0.000	0.000	0.000	0.000	0.186
S	0.000	0.000	0.140	0.140	0.000	0.000	0.000	0.000	0.000	0.279
SSW	0.000	0.000	0.186	0.047	0.000	0.000	0.000	0.000	0.000	0.233
SW	0.000	0.000	0.047	0.047	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	0.047	0.047	0.233	0.000	0.000	0.000	0.326
WNW	0.000	0.000	0.000	0.047	0.093	0.279	0.140	0.000	0.000	0.559
NW	0.000	0.000	0.000	0.047	0.000	0.233	0.186	0.000	0.000	0.466
NNW	0.000	0.000	0.000	0.000	0.140	0.233	0.000	0.000	0.000	0.372
SUBTOTAL	0.000	0.000	0.559	0.791	0.791	1.536	0.372	0.000	0.000	4.050

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2148
TOTAL HOURS OF STABILITY CLASS C	87
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	87
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2148
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2021/04/21

MEAN WIND SPEED = 7.26

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 STA 52 D - Validated Edited Data

JAN 1, 2021 - MAR 31, 2021

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	0.326	1.629	2.886	0.931	0.000	0.000	0.000	5.773
NNE	0.000	0.047	0.559	1.769	1.909	0.652	0.000	0.000	0.000	4.935
NE	0.000	0.000	0.279	1.257	0.791	0.326	0.047	0.000	0.000	2.700
ENE	0.000	0.000	0.233	0.419	0.326	0.140	0.000	0.000	0.000	1.117
E	0.000	0.000	0.140	0.419	0.279	0.093	0.000	0.000	0.000	0.931
ESE	0.000	0.000	0.279	0.512	0.652	0.326	0.000	0.000	0.000	1.769
SE	0.000	0.000	0.372	1.117	0.512	0.652	0.000	0.000	0.000	2.654
SSE	0.000	0.000	0.652	0.372	0.186	0.000	0.000	0.000	0.000	1.210
S	0.000	0.047	0.605	0.419	0.233	0.652	0.000	0.000	0.000	1.955
SSW	0.000	0.000	0.512	0.326	0.093	0.186	0.000	0.000	0.000	1.117
SW	0.000	0.000	0.512	0.279	0.000	0.047	0.047	0.000	0.000	0.885
WSW	0.000	0.000	0.512	0.279	0.279	0.372	0.000	0.000	0.000	1.443
W	0.000	0.000	0.279	0.512	0.698	2.188	0.233	0.000	0.000	3.911
WNW	0.000	0.000	0.279	0.326	0.605	0.978	0.605	0.000	0.000	2.793
NW	0.000	0.000	0.186	0.372	0.698	1.397	2.235	0.000	0.000	4.888
NNW	0.000	0.000	0.326	0.652	1.723	2.793	0.233	0.000	0.000	5.726
SUBTOTAL	0.000	0.093	6.052	10.661	11.872	11.732	3.399	0.000	0.000	43.808

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2148
TOTAL HOURS OF STABILITY CLASS D 941
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 941
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2148
TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2021/04/21

MEAN WIND SPEED = 6.79

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 STA 52 D - Validated Edited Data

JAN 1, 2021 - MAR 31, 2021

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	0.978	0.186	0.000	0.000	0.000	0.000	0.000	1.257
NNE	0.000	0.047	0.838	1.210	0.512	0.279	0.000	0.000	0.000	2.886
NE	0.000	0.140	0.419	0.466	0.372	0.326	0.000	0.000	0.000	1.723
ENE	0.000	0.000	0.186	0.186	0.140	0.047	0.000	0.000	0.000	0.559
E	0.000	0.000	0.559	0.466	0.233	0.000	0.000	0.000	0.000	1.257
ESE	0.000	0.047	0.838	0.931	0.326	0.047	0.000	0.000	0.000	2.188
SE	0.000	0.047	0.745	0.745	0.698	0.652	0.047	0.000	0.000	2.933
SSE	0.000	0.140	0.978	0.605	0.838	0.512	0.000	0.000	0.000	3.073
S	0.000	0.093	0.605	0.419	0.605	1.210	0.791	0.000	0.000	3.724
SSW	0.000	0.093	0.326	0.093	0.186	0.512	0.419	0.093	0.000	1.723
SW	0.000	0.047	0.466	0.000	0.047	0.140	0.047	0.000	0.000	0.745
WSW	0.000	0.047	0.419	0.093	0.000	0.093	0.000	0.000	0.000	0.652
W	0.000	0.140	0.419	0.931	0.186	0.093	0.000	0.000	0.000	1.769
WNW	0.000	0.000	0.233	0.140	0.233	0.279	0.000	0.000	0.000	0.885
NW	0.000	0.047	0.093	0.093	0.372	0.093	0.000	0.000	0.000	0.698
NNW	0.000	0.000	0.559	0.512	0.186	0.093	0.000	0.000	0.000	1.350
SUBTOTAL	0.000	0.978	8.659	7.076	4.935	4.376	1.304	0.093	0.000	27.421

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2148
TOTAL HOURS OF STABILITY CLASS E 589
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 589
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2148
TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2021/04/21

MEAN WIND SPEED = 5.39

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 STA 52 D - Validated Edited Data

JAN 1, 2021 - MAR 31, 2021

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.047	0.372	0.326	0.047	0.000	0.000	0.000	0.000	0.791
NNE	0.000	0.047	0.698	0.466	0.047	0.000	0.000	0.000	0.000	1.257
NE	0.000	0.093	0.140	0.093	0.000	0.000	0.000	0.000	0.000	0.326
ENE	0.000	0.000	0.186	0.000	0.000	0.000	0.000	0.000	0.000	0.186
E	0.000	0.093	0.978	0.140	0.000	0.000	0.000	0.000	0.000	1.210
ESE	0.000	0.093	0.978	0.372	0.047	0.000	0.000	0.000	0.000	1.490
SE	0.000	0.140	1.024	0.419	0.093	0.093	0.000	0.000	0.000	1.769
SSE	0.000	0.186	0.512	0.279	0.186	0.326	0.047	0.000	0.000	1.536
S	0.000	0.047	0.093	0.279	0.559	1.443	0.140	0.000	0.000	2.561
SSW	0.000	0.047	0.186	0.047	0.047	0.093	0.000	0.000	0.000	0.419
SW	0.000	0.000	0.140	0.093	0.047	0.000	0.000	0.000	0.000	0.279
WSW	0.000	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.093
W	0.000	0.047	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.186
WNW	0.000	0.047	0.093	0.047	0.000	0.000	0.000	0.000	0.000	0.186
NW	0.000	0.000	0.233	0.093	0.000	0.000	0.000	0.000	0.000	0.326
NNW	0.000	0.047	0.466	0.233	0.279	0.000	0.000	0.000	0.000	1.024
SUBTOTAL	0.000	0.978	6.285	2.886	1.350	1.955	0.186	0.000	0.000	13.641

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2148
TOTAL HOURS OF STABILITY CLASS F 293
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 293
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2148
TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2021/04/21

MEAN WIND SPEED = 4.32

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 STA 52 D - Validated Edited Data

JAN 1, 2021 - MAR 31, 2021

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	0.004	0.093	0.279	0.233	0.000	0.000	0.000	0.000	0.000	0.609
NNE	0.005	0.186	0.279	0.326	0.000	0.000	0.000	0.000	0.000	0.796
NE	0.004	0.140	0.279	0.000	0.000	0.000	0.000	0.000	0.000	0.423
ENE	0.004	0.233	0.186	0.000	0.000	0.000	0.000	0.000	0.000	0.423
E	0.005	0.140	0.326	0.000	0.000	0.000	0.000	0.000	0.000	0.470
ESE	0.006	0.186	0.419	0.000	0.000	0.000	0.000	0.000	0.000	0.611
SE	0.007	0.047	0.652	0.140	0.000	0.000	0.000	0.000	0.000	0.845
SSE	0.003	0.000	0.326	0.466	0.186	0.186	0.000	0.000	0.000	1.167
S	0.002	0.047	0.186	0.419	0.093	0.000	0.000	0.000	0.000	0.747
SSW	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047
W	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.047
WNW	0.001	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.000	0.094
NW	0.001	0.093	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.141
NNW	0.003	0.093	0.186	0.047	0.000	0.000	0.000	0.000	0.000	0.329
SUBTOTAL	0.047	1.350	3.305	1.629	0.279	0.186	0.000	0.000	0.000	6.797

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2148
TOTAL HOURS OF STABILITY CLASS G	146
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	146
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2148
TOTAL HOURS CALM	1

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2021/04/21

MEAN WIND SPEED = 2.84

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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Table 6-B Ground Level Releases - 2nd Quarter JFD

Joint Frequency Distribution In Percent

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, 2021 - JUN 30, 2021

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	0.046	0.000	0.000	0.138
NNE	0.000	0.000	0.000	0.000	0.184	0.322	0.000	0.000	0.000	0.506
NE	0.000	0.000	0.000	0.000	0.000	0.138	0.000	0.000	0.000	0.138
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.092
SE	0.000	0.000	0.000	0.138	0.368	0.230	0.000	0.000	0.000	0.736
SSE	0.000	0.000	0.046	0.460	0.230	0.414	0.000	0.000	0.000	1.150
S	0.000	0.000	0.046	0.460	0.644	0.322	0.000	0.000	0.000	1.472
SSW	0.000	0.000	0.000	0.092	0.138	0.276	0.000	0.000	0.000	0.506
SW	0.000	0.000	0.092	0.046	0.138	0.230	0.000	0.000	0.000	0.506
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	0.092	0.276	0.138	0.000	0.000	0.506
WNW	0.000	0.000	0.000	0.000	0.046	0.046	0.046	0.000	0.000	0.138
NW	0.000	0.000	0.000	0.000	0.000	0.138	0.138	0.046	0.000	0.322
NNW	0.000	0.000	0.000	0.000	0.000	0.368	0.322	0.000	0.000	0.690
SUBTOTAL	0.000	0.000	0.184	1.288	1.886	2.852	0.690	0.046	0.000	6.946

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2174
TOTAL HOURS OF STABILITY CLASS A 151
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 151
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2174
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: 2021/07/20

MEAN WIND SPEED = 8.01

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

APR 1, 2021 - JUN 30, 2021

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	0.092	0.138	0.000	0.000	0.000	0.276
NNE	0.000	0.000	0.000	0.000	0.184	0.092	0.000	0.000	0.000	0.276
NE	0.000	0.000	0.000	0.000	0.184	0.092	0.000	0.000	0.000	0.276
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	0.000	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	0.138	0.460	0.276	0.046	0.000	0.000	0.920
SSE	0.000	0.000	0.046	0.414	0.046	0.046	0.000	0.000	0.000	0.552
S	0.000	0.000	0.092	0.506	0.230	0.276	0.000	0.000	0.000	1.104
SSW	0.000	0.000	0.000	0.184	0.368	0.138	0.046	0.000	0.000	0.736
SW	0.000	0.000	0.000	0.230	0.046	0.000	0.000	0.000	0.000	0.276
WSW	0.000	0.000	0.000	0.138	0.322	0.046	0.000	0.000	0.000	0.506
W	0.000	0.000	0.000	0.138	0.000	0.276	0.046	0.000	0.000	0.460
WNW	0.000	0.000	0.000	0.000	0.092	0.230	0.092	0.000	0.000	0.414
NW	0.000	0.000	0.000	0.000	0.046	0.460	0.046	0.000	0.000	0.552
NNW	0.000	0.000	0.000	0.046	0.184	0.506	0.000	0.000	0.000	0.736
SUBTOTAL	0.000	0.000	0.138	1.840	2.300	2.622	0.276	0.000	0.000	7.176

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2174
TOTAL HOURS OF STABILITY CLASS B	156
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	156
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2174
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: 2021/07/20

MEAN WIND SPEED = 7.29

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

APR 1, 2021 - JUN 30, 2021

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	0.000	0.000	0.000	0.000	0.092
NNE	0.000	0.000	0.000	0.046	0.138	0.046	0.000	0.000	0.000	0.230
NE	0.000	0.000	0.000	0.000	0.000	0.138	0.000	0.000	0.000	0.138
ENE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
E	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.092
ESE	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
SE	0.000	0.000	0.000	0.414	0.276	0.138	0.000	0.000	0.000	0.828
SSE	0.000	0.000	0.230	0.276	0.138	0.046	0.000	0.000	0.000	0.690
S	0.000	0.000	0.092	0.276	0.276	0.276	0.000	0.000	0.000	0.920
SSW	0.000	0.000	0.000	0.322	0.046	0.046	0.046	0.000	0.000	0.460
SW	0.000	0.000	0.046	0.368	0.092	0.184	0.000	0.000	0.000	0.690
WSW	0.000	0.000	0.000	0.092	0.368	0.092	0.000	0.000	0.000	0.552
W	0.000	0.000	0.000	0.046	0.092	0.276	0.046	0.000	0.000	0.460
WNW	0.000	0.000	0.000	0.046	0.414	0.598	0.046	0.000	0.000	1.104
NW	0.000	0.000	0.000	0.046	0.046	0.368	0.000	0.000	0.000	0.460
NNW	0.000	0.000	0.000	0.046	0.276	0.230	0.046	0.000	0.000	0.598
SUBTOTAL	0.000	0.000	0.368	2.116	2.300	2.438	0.184	0.000	0.000	7.406

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2174
 TOTAL HOURS OF STABILITY CLASS C 161
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 161
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2174
 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: 2021/07/20

MEAN WIND SPEED = 6.76

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

BROWNS FERRY NUCLEAR PLANT

APR 1, 2021 - JUN 30, 2021

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	0.276	0.368	0.368	0.138	0.000	0.000	0.000	1.150
NNE	0.000	0.000	0.276	0.506	0.598	0.230	0.000	0.000	0.000	1.610
NE	0.000	0.000	0.046	0.138	0.184	0.138	0.000	0.000	0.000	0.506
ENE	0.000	0.000	0.230	0.092	0.092	0.000	0.000	0.000	0.000	0.414
E	0.000	0.046	0.092	0.184	0.092	0.000	0.000	0.000	0.000	0.414
ESE	0.000	0.000	0.092	0.644	0.414	0.046	0.000	0.000	0.000	1.196
SE	0.000	0.046	0.828	1.840	0.920	1.196	0.000	0.000	0.000	4.830
SSE	0.000	0.000	0.920	1.380	0.644	0.552	0.092	0.000	0.000	3.588
S	0.000	0.000	0.690	1.748	1.472	1.426	0.552	0.000	0.000	5.888
SSW	0.000	0.000	0.460	0.874	0.874	1.794	0.322	0.000	0.000	4.324
SW	0.000	0.000	0.644	0.874	0.506	0.644	0.138	0.000	0.000	2.806
WSW	0.000	0.000	0.506	1.012	0.598	0.230	0.000	0.000	0.000	2.346
W	0.000	0.000	0.230	0.644	0.920	0.782	0.046	0.000	0.000	2.622
WNW	0.000	0.000	0.000	0.230	0.874	1.012	0.184	0.046	0.000	2.346
NW	0.000	0.000	0.138	0.414	0.368	0.966	0.322	0.092	0.000	2.300
NNW	0.000	0.000	0.230	0.184	0.736	0.874	0.046	0.000	0.000	2.070
SUBTOTAL	0.000	0.092	5.658	11.132	9.660	10.028	1.702	0.138	0.000	38.408

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2174
TOTAL HOURS OF STABILITY CLASS D 835
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 835
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2174
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: 2021/07/20

MEAN WIND SPEED = 6.45

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

APR 1, 2021 - JUN 30, 2021

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	0.460	0.138	0.184	0.000	0.000	0.000	0.000	0.782
NNE	0.000	0.046	0.276	0.276	0.092	0.000	0.000	0.000	0.000	0.690
NE	0.000	0.000	0.092	0.138	0.230	0.138	0.000	0.000	0.000	0.598
ENE	0.000	0.046	0.276	0.092	0.046	0.000	0.000	0.000	0.000	0.460
E	0.000	0.046	0.322	0.230	0.046	0.000	0.000	0.000	0.000	0.644
ESE	0.000	0.046	0.322	0.874	0.644	0.000	0.000	0.000	0.000	1.886
SE	0.000	0.184	0.598	0.460	0.690	0.184	0.000	0.000	0.000	2.116
SSE	0.000	0.046	0.598	0.460	0.184	0.092	0.000	0.000	0.000	1.380
S	0.000	0.046	0.552	0.644	0.828	1.196	0.322	0.000	0.000	3.588
SSW	0.000	0.046	0.368	0.322	0.506	0.368	0.552	0.000	0.000	2.162
SW	0.000	0.046	0.322	0.184	0.184	0.092	0.138	0.000	0.000	0.966
WSW	0.000	0.000	0.322	0.184	0.092	0.092	0.000	0.000	0.000	0.690
W	0.000	0.092	0.368	0.230	0.230	0.276	0.000	0.000	0.000	1.196
WNW	0.000	0.092	0.000	0.138	0.138	0.092	0.000	0.000	0.000	0.460
NW	0.000	0.046	0.322	0.368	0.184	0.276	0.000	0.000	0.000	1.196
NNW	0.000	0.000	0.414	0.460	0.322	0.138	0.000	0.000	0.000	1.334
SUBTOTAL	0.000	0.782	5.612	5.198	4.600	2.944	1.012	0.000	0.000	20.147

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2174
TOTAL HOURS OF STABILITY CLASS E 438
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 438
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2174
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: 2021/07/20

MEAN WIND SPEED = 5.41

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, 2021 - JUN 30, 2021

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	1.150	0.644	0.046	0.000	0.000	0.000	0.000	1.840
NNE	0.000	0.092	0.276	0.322	0.184	0.000	0.000	0.000	0.000	0.874
NE	0.000	0.000	0.322	0.138	0.092	0.000	0.000	0.000	0.000	0.552
ENE	0.000	0.138	0.184	0.322	0.046	0.000	0.000	0.000	0.000	0.690
E	0.000	0.092	1.012	0.230	0.000	0.000	0.000	0.000	0.000	1.334
ESE	0.000	0.000	0.276	0.138	0.000	0.000	0.000	0.000	0.000	0.414
SE	0.000	0.000	0.368	0.046	0.000	0.000	0.000	0.000	0.000	0.414
SSE	0.000	0.138	0.368	0.276	0.000	0.092	0.000	0.000	0.000	0.874
S	0.000	0.000	0.276	0.414	0.506	0.138	0.000	0.000	0.000	1.334
SSW	0.000	0.000	0.046	0.046	0.046	0.000	0.000	0.000	0.000	0.138
SW	0.000	0.000	0.138	0.046	0.000	0.000	0.000	0.000	0.000	0.184
WSW	0.000	0.046	0.138	0.000	0.000	0.000	0.000	0.000	0.000	0.184
W	0.000	0.046	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.138
WNW	0.000	0.000	0.046	0.092	0.184	0.092	0.000	0.000	0.000	0.414
NW	0.000	0.046	0.184	0.046	0.092	0.000	0.000	0.000	0.000	0.368
NNW	0.000	0.092	0.552	0.460	0.046	0.046	0.000	0.000	0.000	1.196
SUBTOTAL	0.000	0.690	5.382	3.266	1.242	0.368	0.000	0.000	0.000	10.948

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2174
TOTAL HOURS OF STABILITY CLASS F 238
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 238
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2174
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: 2021/07/20

MEAN WIND SPEED = 3.58

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, 2021 - JUN 30, 2021

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	0.276	1.426	0.644	0.046	0.000	0.000	0.000	0.000	2.392
NNE	0.000	0.368	0.506	0.000	0.046	0.000	0.000	0.000	0.000	0.920
NE	0.000	0.046	0.552	0.046	0.000	0.000	0.000	0.000	0.000	0.644
ENE	0.000	0.276	0.276	0.092	0.000	0.046	0.000	0.000	0.000	0.690
E	0.000	0.138	0.184	0.000	0.000	0.000	0.000	0.000	0.000	0.322
ESE	0.000	0.092	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.138
SE	0.000	0.276	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.322
SSE	0.000	0.092	0.368	0.184	0.000	0.000	0.000	0.000	0.000	0.644
S	0.000	0.046	0.230	0.000	0.046	0.000	0.000	0.000	0.000	0.322
SSW	0.000	0.000	0.000	0.000	0.138	0.000	0.000	0.000	0.000	0.138
SW	0.000	0.000	0.046	0.092	0.046	0.000	0.000	0.000	0.000	0.184
WSW	0.000	0.000	0.046	0.046	0.092	0.000	0.000	0.000	0.000	0.184
W	0.000	0.046	0.000	0.046	0.092	0.000	0.000	0.000	0.000	0.184
WNW	0.000	0.000	0.092	0.230	0.092	0.046	0.000	0.000	0.000	0.460
NW	0.000	0.276	0.184	0.092	0.092	0.000	0.000	0.000	0.000	0.644
NNW	0.000	0.230	0.460	0.046	0.046	0.000	0.000	0.000	0.000	0.782
SUBTOTAL	0.000	2.162	4.462	1.518	0.736	0.092	0.000	0.000	0.000	8.970

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2174
TOTAL HOURS OF STABILITY CLASS G	195
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	195
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2174
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: 2021/07/20

MEAN WIND SPEED = 2.74

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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Table 6-C Ground Level Releases - 3rd Quarter JFD

Joint Frequency Distribution In Percent

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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 STA 52 D - Validated Edited Data

JUL 1, 2021 - SEP 30, 2021

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	0.318	0.455	0.000	0.000	0.000	0.773
NNE	0.000	0.000	0.000	0.000	0.227	0.318	0.000	0.000	0.000	0.545
NE	0.000	0.000	0.000	0.000	0.227	0.091	0.000	0.000	0.000	0.318
ENE	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.045
E	0.000	0.000	0.000	0.045	0.045	0.000	0.000	0.000	0.000	0.091
ESE	0.000	0.000	0.045	0.136	0.045	0.000	0.000	0.000	0.000	0.227
SE	0.000	0.000	0.091	0.773	1.091	0.273	0.000	0.000	0.000	2.227
SSE	0.000	0.000	0.273	0.500	0.182	0.045	0.000	0.000	0.000	1.000
S	0.000	0.000	0.273	1.409	0.227	0.091	1.000	0.000	0.000	2.000
SSW	0.000	0.000	0.136	0.773	0.091	0.000	0.000	0.000	0.000	1.000
SW	0.000	0.000	0.045	0.955	0.227	0.091	0.000	0.000	0.000	1.318
WSW	0.000	0.000	0.045	0.227	0.045	0.000	0.000	0.000	0.000	0.318
W	0.000	0.000	0.091	0.318	0.364	0.091	0.000	0.000	0.000	0.864
WNW	0.000	0.000	0.000	0.045	0.318	0.318	0.000	0.000	0.000	0.682
NW	0.000	0.000	0.045	0.045	0.091	0.500	0.227	0.000	0.000	0.909
NNW	0.000	0.000	0.000	0.000	0.045	0.455	0.000	0.000	0.000	0.500
SUBTOTAL	0.000	0.000	1.045	5.273	3.545	2.727	0.227	0.000	0.000	12.818

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200

TOTAL HOURS OF STABILITY CLASS A 282
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 282
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2200
TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2021/10/14

MEAN WIND SPEED = 6.00

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 STA 52 D - Validated Edited Data

JUL 1, 2021 - SEP 30, 2021

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	0.182	0.045	0.000	0.000	0.000	0.273
NNE	0.000	0.000	0.000	0.136	0.273	0.091	0.000	0.000	0.000	0.500
NE	0.000	0.000	0.000	0.136	0.000	0.136	0.000	0.000	0.000	0.273
ENE	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.091
E	0.000	0.000	0.045	0.000	0.000	0.045	0.000	0.000	0.000	0.091
ESE	0.000	0.000	0.000	0.136	0.227	0.000	0.000	0.000	0.000	0.364
SE	0.000	0.000	0.045	1.000	0.136	0.045	0.000	0.000	0.000	1.227
SSE	0.000	0.000	0.500	0.182	0.000	0.000	0.000	0.000	0.000	0.682
S	0.000	0.000	0.409	0.636	0.318	0.000	0.091	0.000	0.000	1.455
SSW	0.000	0.000	0.091	0.273	0.000	0.045	0.000	0.000	0.000	0.409
SW	0.000	0.000	0.182	0.545	0.000	0.000	0.000	0.000	0.000	0.727
WSW	0.000	0.000	0.136	0.409	0.045	0.000	0.000	0.000	0.000	0.591
W	0.000	0.000	0.045	0.318	0.000	0.045	0.000	0.000	0.000	0.409
WNW	0.000	0.000	0.000	0.045	0.227	0.136	0.045	0.000	0.000	0.455
NW	0.000	0.000	0.045	0.182	0.136	0.045	0.000	0.045	0.000	0.455
NNW	0.000	0.000	0.000	0.045	0.091	0.136	0.000	0.000	0.000	0.273
SUBTOTAL	0.000	0.000	1.591	4.091	1.636	0.773	0.136	0.045	0.000	8.273

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200
TOTAL HOURS OF STABILITY CLASS B 182
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 182
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2200
TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2021/10/14

MEAN WIND SPEED = 5.15

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 STA 52 D - Validated Edited Data

JUL 1, 2021 - SEP 30, 2021

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	0.136	0.136	0.045	0.000	0.000	0.000	0.318
NNE	0.000	0.000	0.045	0.227	0.227	0.000	0.000	0.000	0.000	0.500
NE	0.000	0.000	0.000	0.136	0.182	0.091	0.000	0.000	0.000	0.409
ENE	0.000	0.000	0.000	0.091	0.000	0.091	0.091	0.000	0.000	0.273
E	0.000	0.000	0.227	0.227	0.000	0.000	0.000	0.000	0.000	0.455
ESE	0.000	0.000	0.045	0.091	0.136	0.000	0.045	0.000	0.000	0.318
SE	0.000	0.000	0.182	0.773	0.136	0.000	0.000	0.000	0.000	1.091
SSE	0.000	0.000	0.227	0.318	0.045	0.000	0.000	0.000	0.000	0.591
S	0.000	0.000	0.545	0.545	0.227	0.136	0.000	0.000	0.000	1.455
SSW	0.000	0.000	0.273	0.227	0.091	0.091	0.000	0.000	0.000	0.682
SW	0.000	0.000	0.227	0.136	0.000	0.000	0.000	0.000	0.000	0.364
WSW	0.000	0.000	0.273	0.409	0.136	0.000	0.000	0.000	0.000	0.818
W	0.000	0.000	0.091	0.136	0.000	0.045	0.000	0.000	0.000	0.273
WNW	0.000	0.000	0.000	0.045	0.000	0.091	0.000	0.000	0.000	0.136
NW	0.000	0.000	0.000	0.000	0.000	0.136	0.000	0.000	0.000	0.136
NNW	0.000	0.000	0.000	0.091	0.000	0.045	0.000	0.000	0.000	0.136
SUBTOTAL	0.000	0.000	2.136	3.591	1.318	0.773	0.136	0.000	0.000	7.955

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200
TOTAL HOURS OF STABILITY CLASS C 175
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 175
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2200
TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2021/10/14

MEAN WIND SPEED = 4.87

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

Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

JUL 1, 2021 - SEP 30, 2021

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	0.318	0.636	0.227	0.045	0.000	0.000	0.000	1.227
NNE	0.000	0.045	0.455	0.955	0.273	0.091	0.000	0.000	0.000	1.818
NE	0.000	0.045	0.409	0.636	0.182	0.045	0.000	0.000	0.000	1.318
ENE	0.000	0.000	0.409	0.409	0.045	0.000	0.045	0.000	0.000	0.909
E	0.000	0.000	0.273	0.636	0.182	0.091	0.045	0.000	0.000	1.227
ESE	0.000	0.000	0.500	1.364	0.682	0.136	0.000	0.000	0.000	2.682
SE	0.000	0.000	1.182	1.273	0.455	0.045	0.000	0.000	0.000	2.955
SSE	0.000	0.000	1.227	0.545	0.136	0.000	0.000	0.000	0.000	1.909
S	0.000	0.045	1.318	2.364	1.182	1.727	0.000	0.000	0.000	6.636
SSW	0.000	0.000	1.045	1.500	0.818	0.591	0.000	0.000	0.000	3.955
SW	0.000	0.000	0.727	0.818	0.273	0.091	0.000	0.000	0.000	1.909
WSW	0.000	0.000	0.864	0.955	0.091	0.045	0.000	0.000	0.000	1.955
W	0.000	0.000	0.318	1.000	0.455	0.045	0.000	0.000	0.000	1.818
WNW	0.000	0.000	0.000	0.045	0.091	0.409	0.182	0.000	0.000	0.727
NW	0.000	0.000	0.136	0.091	0.045	0.136	0.273	0.000	0.000	0.682
NNW	0.000	0.000	0.136	0.227	0.318	0.136	0.091	0.000	0.000	0.909
SUBTOTAL	0.000	0.136	9.318	13.455	5.455	3.636	0.636	0.000	0.000	32.636

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200
TOTAL HOURS OF STABILITY CLASS D 718
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 718
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2200
TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2021/10/14

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

Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

JUL 1, 2021 - SEP 30, 2021

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	0.136	1.455	0.591	0.227	0.000	0.000	0.000	0.000	2.409
NNE	0.000	0.045	1.045	0.773	0.136	0.000	0.000	0.000	0.000	2.000
NE	0.000	0.182	0.364	0.318	0.091	0.000	0.000	0.000	0.000	0.955
ENE	0.000	0.000	0.636	0.864	0.045	0.000	0.000	0.000	0.000	1.545
E	0.000	0.045	1.409	1.727	0.091	0.000	0.000	0.000	0.000	3.273
ESE	0.000	0.091	1.136	0.591	0.091	0.000	0.000	0.000	0.000	1.909
SE	0.000	0.136	0.909	0.000	0.000	0.000	0.000	0.000	0.000	1.045
SSE	0.000	0.136	1.182	0.227	0.000	0.000	0.000	0.000	0.000	1.545
S	0.000	0.045	0.864	0.545	0.364	0.000	0.000	0.000	0.000	1.818
SSW	0.000	0.000	0.545	0.045	0.045	0.000	0.000	0.000	0.000	0.636
SW	0.000	0.000	0.409	0.045	0.045	0.000	0.000	0.000	0.000	0.500
WSW	0.000	0.045	0.091	0.000	0.045	0.000	0.000	0.000	0.000	0.182
W	0.000	0.000	0.364	0.136	0.045	0.000	0.000	0.000	0.000	0.545
WNW	0.000	0.045	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.182
NW	0.000	0.045	0.273	0.136	0.136	0.000	0.000	0.000	0.000	0.591
NNW	0.000	0.091	0.409	0.364	0.182	0.136	0.045	0.000	0.000	1.227
SUBTOTAL	0.000	1.045	11.227	6.364	1.545	0.136	0.045	0.000	0.000	20.364

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200
TOTAL HOURS OF STABILITY CLASS E 448
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 448
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2200
TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2021/10/14

MEAN WIND SPEED = 3.26

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 STA 52 D - Validated Edited Data

JUL 1, 2021 - SEP 30, 2021

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	0.017	0.136	1.318	0.727	0.000	0.000	0.000	0.000	0.000	2.199
NNE	0.013	0.182	0.955	0.545	0.000	0.000	0.000	0.000	0.000	1.695
NE	0.011	0.182	0.773	0.045	0.000	0.000	0.000	0.000	0.000	1.011
ENE	0.008	0.182	0.545	0.364	0.000	0.000	0.000	0.000	0.000	1.099
E	0.012	0.182	0.864	0.591	0.000	0.000	0.000	0.000	0.000	1.649
ESE	0.005	0.136	0.318	0.136	0.000	0.000	0.000	0.000	0.000	0.596
SE	0.005	0.227	0.227	0.000	0.000	0.000	0.000	0.000	0.000	0.460
SSE	0.003	0.182	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.230
S	0.002	0.045	0.136	0.045	0.000	0.000	0.000	0.000	0.000	0.229
SSW	0.002	0.091	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.138
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.001	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.046
W	0.001	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.046
WNW	0.001	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.092
NW	0.003	0.182	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.276
NNW	0.007	0.045	0.545	0.136	0.000	0.000	0.000	0.000	0.000	0.734
SUBTOTAL	0.091	1.818	6.000	2.591	0.000	0.000	0.000	0.000	0.000	10.500

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200
 TOTAL HOURS OF STABILITY CLASS F 231
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 231
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2200
 TOTAL HOURS CALM 2

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2021/10/14

MEAN WIND SPEED = 2.58

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 STA 52 D - Validated Edited Data

JUL 1, 2021 - SEP 30, 2021

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	1.545	1.045	0.045	0.000	0.000	0.000	0.000	2.727
NNE	0.000	0.136	1.318	0.500	0.000	0.000	0.000	0.000	0.000	1.955
NE	0.000	0.318	0.727	0.136	0.000	0.000	0.000	0.000	0.000	1.182
ENE	0.000	0.136	0.591	0.182	0.000	0.000	0.000	0.000	0.000	0.909
E	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.091
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045
SSE	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.045
S	0.000	0.091	0.045	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	0.000	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	0.318	0.000	0.000	0.000	0.000	0.000	0.000	0.318
SUBTOTAL	0.000	0.818	4.727	1.864	0.045	0.000	0.000	0.000	0.000	7.455

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200
 TOTAL HOURS OF STABILITY CLASS G 164
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 164
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2200
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2021/10/14

MEAN WIND SPEED = 2.70

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
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Table 6-D Ground Level Releases - 4th Quarter JFD

Joint Frequency Distribution In Percent

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, 2021 - DEC 31, 2021

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	0.319	0.046	0.000	0.000	0.411
NNE	0.000	0.000	0.000	0.000	0.046	0.091	0.000	0.000	0.000	0.137
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	0.046	0.000	0.000	0.000	0.000	0.000	0.046
SE	0.000	0.000	0.000	0.182	0.182	0.046	0.000	0.000	0.000	0.411
SSE	0.000	0.000	0.000	0.365	0.000	0.046	0.000	0.000	0.000	0.411
S	0.000	0.000	0.000	0.456	0.182	0.274	0.000	0.000	0.000	0.912
SSW	0.000	0.000	0.000	0.137	0.228	0.046	0.000	0.000	0.000	0.411
SW	0.000	0.000	0.000	0.091	0.046	0.046	0.000	0.000	0.000	0.182
WSW	0.000	0.000	0.046	0.000	0.000	0.046	0.000	0.000	0.000	0.091
W	0.000	0.000	0.046	0.000	0.137	0.182	0.000	0.000	0.000	0.365
WNW	0.000	0.000	0.000	0.000	0.000	0.274	0.000	0.000	0.000	0.274
NW	0.000	0.000	0.046	0.046	0.046	0.091	0.000	0.000	0.000	0.228
NNW	0.000	0.000	0.000	0.091	0.182	0.456	0.228	0.000	0.000	0.958
SUBTOTAL	0.000	0.000	0.137	1.414	1.095	1.962	0.274	0.000	0.000	4.881

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2192
 TOTAL HOURS OF STABILITY CLASS A 107
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 107
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2192
 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: 2022/01/26

MEAN WIND SPEED = 7.32

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

OCT 1, 2021 - DEC 31, 2021

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	0.274	0.000	0.000	0.000	0.274
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	0.091	0.091	0.000	0.000	0.000	0.000	0.182
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.319	0.091	0.046	0.000	0.000	0.000	0.456
SSE	0.000	0.000	0.046	0.228	0.046	0.000	0.000	0.000	0.000	0.319
S	0.000	0.000	0.000	0.182	0.000	0.046	0.000	0.000	0.000	0.228
SSW	0.000	0.000	0.046	0.182	0.000	0.000	0.000	0.000	0.000	0.228
SW	0.000	0.000	0.000	0.137	0.000	0.000	0.000	0.000	0.000	0.137
WSW	0.000	0.000	0.000	0.091	0.000	0.046	0.000	0.000	0.000	0.137
W	0.000	0.000	0.000	0.046	0.182	0.091	0.000	0.000	0.000	0.319
WNW	0.000	0.000	0.000	0.091	0.046	0.182	0.000	0.000	0.000	0.319
NW	0.000	0.000	0.000	0.046	0.182	0.182	0.000	0.000	0.000	0.411
NNW	0.000	0.000	0.000	0.046	0.046	0.182	0.000	0.000	0.000	0.274
SUBTOTAL	0.000	0.000	0.091	1.505	0.684	1.049	0.000	0.000	0.000	3.330

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2192
TOTAL HOURS OF STABILITY CLASS B	73
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	73
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2192
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: 2022/01/26

MEAN WIND SPEED = 6.27

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

OCT 1, 2021 - DEC 31, 2021

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	0.274	0.000	0.000	0.000	0.365
NNE	0.000	0.000	0.000	0.091	0.091	0.000	0.000	0.000	0.000	0.182
NE	0.000	0.000	0.000	0.046	0.000	0.046	0.000	0.000	0.000	0.091
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.091
SE	0.000	0.000	0.182	0.456	0.182	0.046	0.000	0.000	0.000	0.867
SSE	0.000	0.000	0.046	0.046	0.046	0.000	0.000	0.000	0.000	0.137
S	0.000	0.000	0.046	0.000	0.137	0.274	0.000	0.000	0.000	0.456
SSW	0.000	0.000	0.091	0.182	0.046	0.046	0.000	0.000	0.000	0.365
SW	0.000	0.000	0.137	0.091	0.046	0.046	0.000	0.000	0.000	0.319
WSW	0.000	0.000	0.000	0.182	0.000	0.000	0.000	0.000	0.000	0.182
W	0.000	0.000	0.000	0.137	0.091	0.182	0.000	0.000	0.000	0.411
WNW	0.000	0.000	0.046	0.137	0.000	0.091	0.046	0.000	0.000	0.319
NW	0.000	0.000	0.000	0.091	0.182	0.046	0.046	0.000	0.000	0.365
NNW	0.000	0.000	0.000	0.000	0.137	0.182	0.000	0.000	0.000	0.319
SUBTOTAL	0.000	0.000	0.547	1.460	1.141	1.232	0.091	0.000	0.000	4.471

TOTAL HOURS OF VALID STABILITY OBSERVATIONS

2192

TOTAL HOURS OF STABILITY CLASS C

98

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C

98

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS

2192

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: 2022/01/26

MEAN WIND SPEED = 6.31

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

BROWNS FERRY NUCLEAR PLANT

OCT 1, 2021 - DEC 31, 2021

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	0.182	0.319	0.228	0.867	0.000	0.000	0.000	1.597
NNE	0.000	0.000	0.137	0.502	0.639	0.274	0.000	0.000	0.000	1.551
NE	0.000	0.000	0.411	0.319	0.411	0.046	0.000	0.000	0.000	1.186
ENE	0.000	0.000	0.091	0.365	0.182	0.000	0.000	0.000	0.000	0.639
E	0.000	0.046	0.091	0.502	0.000	0.000	0.000	0.000	0.000	0.639
ESE	0.000	0.000	0.411	0.776	0.137	0.000	0.000	0.000	0.000	1.323
SE	0.000	0.000	0.776	1.505	0.547	0.456	0.091	0.000	0.000	3.376
SSE	0.000	0.000	1.049	0.776	0.456	0.091	0.000	0.000	0.000	2.372
S	0.000	0.091	0.684	1.049	0.684	1.779	0.137	0.000	0.000	4.425
SSW	0.000	0.000	0.228	0.274	0.365	1.049	0.228	0.000	0.000	2.144
SW	0.000	0.000	0.319	0.319	0.365	0.228	0.000	0.000	0.000	1.232
WSW	0.000	0.000	0.137	0.228	0.228	0.091	0.000	0.000	0.000	0.684
W	0.000	0.000	0.091	0.502	0.365	0.593	0.046	0.000	0.000	1.597
WNW	0.000	0.000	0.046	0.000	0.502	0.776	0.274	0.000	0.000	1.597
NW	0.000	0.000	0.091	0.228	0.684	0.639	0.502	0.000	0.000	2.144
NNW	0.000	0.000	0.046	0.319	0.182	1.004	0.228	0.000	0.000	1.779
SUBTOTAL	0.000	0.137	4.790	7.984	5.976	7.892	1.505	0.000	0.000	28.285

TOTAL HOURS OF VALID STABILITY OBSERVATIONS

2192

TOTAL HOURS OF STABILITY CLASS D

620

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D

620

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS

2192

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: 2022/01/26

MEAN WIND SPEED = 6.47

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, 2021 - DEC 31, 2021

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	0.639	0.547	0.365	0.046	0.000	0.000	0.000	1.642
NNE	0.000	0.000	0.547	0.958	0.228	0.000	0.000	0.000	0.000	1.734
NE	0.000	0.046	0.456	0.319	0.274	0.137	0.000	0.000	0.000	1.232
ENE	0.000	0.182	0.182	0.502	0.000	0.000	0.000	0.000	0.000	0.867
E	0.000	0.091	0.456	0.365	0.000	0.000	0.000	0.000	0.000	0.912
ESE	0.000	0.000	1.551	1.323	0.411	0.091	0.000	0.000	0.000	3.376
SE	0.000	0.091	1.186	0.867	0.776	0.319	0.000	0.000	0.000	3.239
SSE	0.000	0.091	1.323	1.049	1.277	0.821	0.000	0.000	0.000	4.562
S	0.000	0.137	0.365	0.912	0.776	2.281	0.867	0.182	0.000	5.520
SSW	0.000	0.091	0.319	0.228	0.593	1.962	0.456	0.000	0.000	3.650
SW	0.000	0.091	0.319	0.091	0.000	0.547	0.091	0.000	0.000	1.141
WSW	0.000	0.000	0.137	0.091	0.091	0.000	0.000	0.000	0.000	0.319
W	0.000	0.000	0.319	0.593	0.137	0.091	0.000	0.000	0.000	1.141
WNW	0.000	0.046	0.091	0.046	0.137	0.046	0.000	0.000	0.000	0.365
NW	0.000	0.046	0.502	0.274	0.182	0.456	0.046	0.000	0.000	1.505
NNW	0.000	0.000	0.365	0.365	0.593	0.274	0.046	0.000	0.000	1.642
SUBTOTAL	0.000	0.958	8.759	8.531	5.839	7.071	1.505	0.182	0.000	32.847

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2192
TOTAL HOURS OF STABILITY CLASS E 720
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 720
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2192
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: 2022/01/26

MEAN WIND SPEED = 5.77

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, 2021 - DEC 31, 2021

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	1.232	0.821	0.137	0.000	0.000	0.000	0.000	2.235
NNE	0.000	0.046	0.228	0.593	0.137	0.000	0.000	0.000	0.000	1.004
NE	0.000	0.228	0.319	0.046	0.046	0.000	0.000	0.000	0.000	0.639
ENE	0.000	0.046	0.776	0.091	0.000	0.000	0.000	0.000	0.000	0.912
E	0.000	0.228	0.912	0.502	0.000	0.000	0.000	0.000	0.000	1.642
ESE	0.000	0.182	0.684	0.547	0.046	0.000	0.000	0.000	0.000	1.460
SE	0.000	0.274	1.369	0.502	0.091	0.091	0.000	0.000	0.000	2.327
SSE	0.000	0.091	0.684	0.411	0.365	0.228	0.000	0.000	0.000	1.779
S	0.000	0.137	0.319	0.319	0.411	0.684	0.182	0.000	0.000	2.053
SSW	0.000	0.046	0.228	0.182	0.000	0.046	0.000	0.000	0.000	0.502
SW	0.000	0.046	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.137
WSW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
W	0.000	0.091	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.137
WNW	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.091
NW	0.000	0.000	0.091	0.182	0.046	0.000	0.000	0.000	0.000	0.319
NNW	0.000	0.046	0.365	0.639	0.274	0.000	0.000	0.000	0.000	1.323
SUBTOTAL	0.000	1.551	7.436	4.836	1.551	1.049	0.182	0.000	0.000	16.606

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2192
TOTAL HOURS OF STABILITY CLASS F	364
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	364
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2192
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: 2022/01/26

MEAN WIND SPEED = 3.78

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, 2021 - DEC 31, 2021

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	0.011	0.274	1.414	1.277	0.000	0.000	0.000	0.000	0.000	2.976
NNE	0.006	0.182	0.684	0.411	0.000	0.000	0.000	0.000	0.000	1.283
NE	0.006	0.000	0.958	0.000	0.000	0.000	0.000	0.000	0.000	0.964
ENE	0.007	0.274	0.730	0.091	0.000	0.000	0.000	0.000	0.000	1.101
E	0.005	0.046	0.776	0.046	0.000	0.000	0.000	0.000	0.000	0.872
ESE	0.002	0.046	0.228	0.000	0.000	0.000	0.000	0.000	0.000	0.276
SE	0.003	0.091	0.319	0.182	0.000	0.000	0.000	0.000	0.000	0.596
SSE	0.002	0.046	0.319	0.137	0.091	0.000	0.000	0.000	0.000	0.595
S	0.000	0.000	0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.092
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	0.000	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	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
NW	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
NNW	0.003	0.228	0.182	0.274	0.000	0.000	0.000	0.000	0.000	0.687
SUBTOTAL	0.046	1.277	5.703	2.418	0.137	0.000	0.000	0.000	0.000	9.580

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2192
 TOTAL HOURS OF STABILITY CLASS G 210
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 210
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2192
 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: 2022/01/26

MEAN WIND SPEED = 2.72

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

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Table 7-A Split Level Releases - 1st Quarter JFD

Joint Frequency Distribution In Percent

(Ground Level Release Mode and Elevated Release Mode)

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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 STA 52 D - Validated Edited Data

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2021 - MAR 31, 2021

WIND DIRECTION	WIND SPEED (MPH)									
	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	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.038	0.032	0.000	0.000	0.070
NNE	0.000	0.000	0.000	0.000	0.000	0.066	0.000	0.000	0.000	0.066
NE	0.000	0.000	0.000	0.000	0.000	0.015	0.019	0.000	0.000	0.034
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	0.007	0.000	0.000	0.000	0.007
ESE	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.007
SE	0.000	0.000	0.000	0.000	0.010	0.010	0.000	0.000	0.000	0.019
SSE	0.000	0.000	0.006	0.008	0.013	0.000	0.000	0.000	0.000	0.027
S	0.000	0.000	0.000	0.041	0.003	0.000	0.000	0.000	0.000	0.044
SSW	0.000	0.000	0.009	0.013	0.000	0.000	0.000	0.000	0.000	0.022
SW	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.008
WSW	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.007
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	0.015	0.000	0.000	0.000	0.015
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	0.024	0.000	0.000	0.000	0.024
SUBTOTAL	0.000	0.000	0.015	0.063	0.048	0.176	0.051	0.000	0.000	0.353

TOTAL HOURS OF VALID OBSERVATIONS 2076.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 258.740
 TOTAL HOURS OF STABILITY CLASS A 9.100
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 7.320

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/04/21

**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 STA 52 D - Validated Edited Data

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2021 - MAR 31, 2021

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	0.007	0.040	0.000	0.000	0.000	0.047
NNE	0.000	0.000	0.000	0.000	0.011	0.016	0.000	0.000	0.000	0.027
NE	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.006
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	0.003	0.000	0.000	0.000	0.000	0.000	0.003
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	0.005	0.000	0.015	0.018	0.000	0.000	0.000	0.039
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	0.008	0.007	0.000	0.000	0.000	0.000	0.015
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	0.013	0.000	0.000	0.000	0.000	0.013
W	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000	0.000	0.016
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	0.025	0.000	0.000	0.000	0.025
NNW	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.005
SUBTOTAL	0.000	0.000	0.005	0.011	0.058	0.121	0.000	0.000	0.000	0.196

TOTAL HOURS OF VALID OBSERVATIONS 2076.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 258.740
 TOTAL HOURS OF STABILITY CLASS B 12.770
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 4.060

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/04/21

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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 STA 52 D - Validated Edited Data

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2021 - MAR 31, 2021

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	0.012	0.039	0.000	0.000	0.000	0.052
NNE	0.000	0.000	0.000	0.005	0.013	0.030	0.000	0.000	0.000	0.049
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.010
ENE	0.000	0.000	0.000	0.000	0.002	0.012	0.000	0.000	0.000	0.013
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	0.000	0.000	0.009	0.000	0.000	0.000	0.009
SE	0.000	0.000	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.014
SSE	0.000	0.000	0.000	0.000	0.013	0.000	0.000	0.000	0.000	0.013
S	0.000	0.000	0.004	0.016	0.000	0.000	0.000	0.000	0.000	0.020
SSW	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.008
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.001	0.035	0.000	0.000	0.000	0.037
WNW	0.000	0.000	0.000	0.000	0.005	0.040	0.026	0.000	0.000	0.071
NW	0.000	0.000	0.000	0.000	0.000	0.035	0.010	0.000	0.000	0.044
NNW	0.000	0.000	0.000	0.000	0.009	0.030	0.000	0.000	0.000	0.039
SUBTOTAL	0.000	0.000	0.026	0.021	0.062	0.231	0.046	0.000	0.000	0.386

TOTAL HOURS OF VALID OBSERVATIONS 2076.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 258.740
 TOTAL HOURS OF STABILITY CLASS C 44.430
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 8.010

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/04/21

Browns Ferry Nuclear Plant
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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 STA 52 D - Validated Edited Data

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2021 - MAR 31, 2021

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	0.135	0.424	0.169	0.000	0.000	0.000	0.732
NNE	0.000	0.000	0.007	0.093	0.249	0.113	0.000	0.000	0.000	0.462
NE	0.000	0.000	0.000	0.031	0.068	0.047	0.010	0.000	0.000	0.156
ENE	0.000	0.000	0.000	0.007	0.023	0.019	0.000	0.000	0.000	0.050
E	0.000	0.000	0.002	0.007	0.036	0.016	0.000	0.000	0.000	0.061
ESE	0.000	0.000	0.005	0.039	0.095	0.058	0.000	0.000	0.000	0.197
SE	0.000	0.000	0.010	0.093	0.101	0.202	0.000	0.000	0.000	0.407
SSE	0.000	0.000	0.024	0.042	0.038	0.000	0.000	0.000	0.000	0.104
S	0.000	0.000	0.032	0.017	0.049	0.178	0.000	0.000	0.000	0.276
SSW	0.000	0.000	0.002	0.008	0.008	0.036	0.000	0.000	0.000	0.054
SW	0.000	0.000	0.009	0.004	0.000	0.000	0.014	0.000	0.000	0.027
WSW	0.000	0.000	0.000	0.013	0.033	0.073	0.000	0.000	0.000	0.119
W	0.000	0.000	0.000	0.021	0.069	0.356	0.046	0.000	0.000	0.493
WNW	0.000	0.000	0.000	0.001	0.048	0.149	0.113	0.000	0.000	0.311
NW	0.000	0.000	0.000	0.000	0.044	0.204	0.755	0.000	0.000	1.003
NNW	0.000	0.000	0.000	0.029	0.205	0.475	0.056	0.000	0.000	0.765
SUBTOTAL	0.000	0.000	0.095	0.542	1.490	2.097	0.994	0.000	0.000	5.217

TOTAL HOURS OF VALID OBSERVATIONS 2076.000
TOTAL HOURS OF GROUND LEVEL RELEASE 258.740
TOTAL HOURS OF STABILITY CLASS D 1054.100
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 108.310

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/04/21

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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 STA 52 D - Validated Edited Data

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2021 - MAR 31, 2021

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	0.023	0.000	0.000	0.000	0.000	0.000	0.068
NNE	0.000	0.000	0.027	0.116	0.076	0.052	0.000	0.000	0.000	0.271
NE	0.000	0.000	0.003	0.032	0.043	0.050	0.000	0.000	0.000	0.128
ENE	0.000	0.000	0.001	0.012	0.020	0.008	0.000	0.000	0.000	0.041
E	0.000	0.000	0.032	0.055	0.037	0.000	0.000	0.000	0.000	0.124
ESE	0.000	0.000	0.040	0.103	0.053	0.010	0.000	0.000	0.000	0.206
SE	0.000	0.000	0.055	0.101	0.126	0.337	0.044	0.000	0.000	0.664
SSE	0.000	0.001	0.045	0.122	0.233	0.285	0.000	0.000	0.000	0.686
S	0.000	0.000	0.018	0.062	0.327	0.286	0.395	0.000	0.000	1.089
SSW	0.000	0.000	0.006	0.010	0.035	0.037	0.091	0.041	0.000	0.219
SW	0.000	0.000	0.005	0.000	0.006	0.024	0.034	0.000	0.000	0.069
WSW	0.000	0.000	0.007	0.011	0.000	0.009	0.000	0.000	0.000	0.027
W	0.000	0.000	0.018	0.078	0.027	0.016	0.000	0.000	0.000	0.139
WNW	0.000	0.000	0.003	0.004	0.025	0.048	0.000	0.000	0.000	0.080
NW	0.000	0.000	0.000	0.004	0.044	0.000	0.000	0.000	0.000	0.048
NNW	0.000	0.000	0.013	0.050	0.029	0.018	0.000	0.000	0.000	0.110
SUBTOTAL	0.000	0.001	0.320	0.782	1.081	1.181	0.565	0.041	0.000	3.971

TOTAL HOURS OF VALID OBSERVATIONS 2076.000
TOTAL HOURS OF GROUND LEVEL RELEASE 258.740
TOTAL HOURS OF STABILITY CLASS E 666.820
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 82.440

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/04/21

**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 STA 52 D - Validated Edited Data

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2021 - MAR 31, 2021

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	0.020	0.037	0.000	0.000	0.000	0.000	0.000	0.057
NNE	0.000	0.000	0.027	0.052	0.008	0.000	0.000	0.000	0.000	0.087
NE	0.000	0.000	0.005	0.012	0.000	0.000	0.000	0.000	0.000	0.016
ENE	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.007
E	0.000	0.000	0.075	0.016	0.000	0.000	0.000	0.000	0.000	0.091
ESE	0.000	0.005	0.074	0.046	0.007	0.000	0.000	0.000	0.000	0.132
SE	0.000	0.000	0.088	0.066	0.018	0.027	0.000	0.000	0.000	0.199
SSE	0.000	0.004	0.055	0.076	0.057	0.095	0.044	0.000	0.000	0.332
S	0.000	0.000	0.001	0.053	0.115	0.356	0.071	0.000	0.000	0.597
SSW	0.000	0.000	0.018	0.005	0.007	0.008	0.000	0.000	0.000	0.039
SW	0.000	0.000	0.011	0.011	0.007	0.000	0.000	0.000	0.000	0.028
WSW	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.003
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.005
NW	0.000	0.000	0.003	0.012	0.000	0.000	0.000	0.000	0.000	0.015
NNW	0.000	0.000	0.036	0.021	0.033	0.000	0.000	0.000	0.000	0.090
SUBTOTAL	0.000	0.009	0.424	0.411	0.253	0.487	0.115	0.000	0.000	1.699

TOTAL HOURS OF VALID OBSERVATIONS 2076.000
TOTAL HOURS OF GROUND LEVEL RELEASE 258.740
TOTAL HOURS OF STABILITY CLASS F 215.120
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 35.280

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/04/21

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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 STA 52 D - Validated Edited Data

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2021 - MAR 31, 2021

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	0.001	0.012	0.030	0.000	0.000	0.000	0.000	0.000	0.044
NNE	0.000	0.000	0.005	0.042	0.000	0.000	0.000	0.000	0.000	0.047
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.003
E	0.000	0.008	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.019
ESE	0.000	0.002	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.023
SE	0.000	0.003	0.062	0.023	0.000	0.000	0.000	0.000	0.000	0.087
SSE	0.000	0.000	0.041	0.089	0.069	0.064	0.000	0.000	0.000	0.262
S	0.000	0.000	0.017	0.110	0.016	0.000	0.000	0.000	0.000	0.144
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	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.003
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	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002
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	0.007	0.000	0.000	0.000	0.000	0.000	0.007
SUBTOTAL	0.000	0.016	0.175	0.301	0.085	0.064	0.000	0.000	0.000	0.642

TOTAL HOURS OF VALID OBSERVATIONS 2076.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 258.740
 TOTAL HOURS OF STABILITY CLASS G 73.660
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 13.320

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/04/21

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SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED

BY WIND DIRECTION DISREGARDING STABILITY CLASS

Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2021 - MAR 31, 2021

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	0.001	0.081	0.224	0.442	0.286	0.032	0.000	0.000	1.067
NNE	0.000	0.000	0.067	0.307	0.358	0.278	0.000	0.000	0.000	1.009
NE	0.000	0.000	0.008	0.074	0.111	0.118	0.038	0.000	0.000	0.349
ENE	0.000	0.002	0.010	0.019	0.045	0.039	0.000	0.000	0.000	0.114
E	0.000	0.008	0.119	0.082	0.079	0.024	0.000	0.000	0.000	0.311
ESE	0.000	0.007	0.140	0.187	0.161	0.077	0.000	0.000	0.000	0.573
SE	0.000	0.003	0.234	0.282	0.269	0.592	0.044	0.000	0.000	1.425
SSE	0.000	0.005	0.171	0.335	0.422	0.443	0.044	0.000	0.000	1.420
S	0.000	0.000	0.073	0.308	0.516	0.817	0.465	0.000	0.000	2.180
SSW	0.000	0.000	0.043	0.036	0.049	0.081	0.091	0.041	0.000	0.341
SW	0.000	0.000	0.024	0.015	0.022	0.024	0.048	0.000	0.000	0.133
WSW	0.000	0.000	0.012	0.024	0.053	0.082	0.000	0.000	0.000	0.171
W	0.000	0.000	0.018	0.098	0.098	0.423	0.046	0.000	0.000	0.683
WNW	0.000	0.000	0.005	0.011	0.077	0.252	0.139	0.000	0.000	0.484
NW	0.000	0.000	0.003	0.016	0.087	0.263	0.762	0.000	0.000	1.132
NNW	0.000	0.000	0.049	0.106	0.280	0.546	0.056	0.000	0.000	1.037
SUBTOTAL	0.000	0.026	1.058	2.125	3.071	4.343	1.765	0.041	0.000	12.429

TOTAL HOURS OF VALID OBSERVATIONS 2082.000
TOTAL HOURS OF OBSERVATIONS 2160.000
RECOVERABILITY PERCENTAGE 96.389
TOTAL HOURS OF GROUND LEVEL RELEASE 258.770

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2021/04/21

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

Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2021 - MAR 31, 2021

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	0.039	0.000	0.000	0.039
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.047
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	0.000	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	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	0.000	0.047	0.000	0.039	0.000	0.000	0.000	0.086

TOTAL HOURS OF VALID OBSERVATIONS 2076.000
TOTAL HOURS OF ELEVATED RELEASES 1817.260
TOTAL HOURS OF STABILITY CLASS A 9.100
TOTAL HOURS OF ELEVATED STABILITY CLASS A 1.780

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/04/21

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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 STA 52 D - Validated Edited Data

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2021 - MAR 31, 2021

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	0.042	0.039	0.000	0.000	0.082
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.039	0.000	0.000	0.039
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.000	0.040
SSE	0.000	0.000	0.000	0.000	0.093	0.042	0.000	0.000	0.000	0.135
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	0.042	0.040	0.000	0.000	0.082
SW	0.000	0.000	0.000	0.000	0.000	0.041	0.000	0.000	0.000	0.041
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	0.093	0.208	0.118	0.000	0.000	0.420

TOTAL HOURS OF VALID OBSERVATIONS 2076.000
TOTAL HOURS OF ELEVATED RELEASES 1817.260
TOTAL HOURS OF STABILITY CLASS B 12.770
TOTAL HOURS OF ELEVATED STABILITY CLASS B 8.710

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/04/21

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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 STA 52 D - Validated Edited Data

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2021 - MAR 31, 2021

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	0.292	0.078	0.016	0.000	0.386
NNE	0.000	0.000	0.000	0.000	0.000	0.124	0.197	0.000	0.000	0.321
NE	0.000	0.000	0.000	0.000	0.000	0.040	0.039	0.000	0.000	0.079
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	0.039	0.000	0.000	0.039
SE	0.000	0.000	0.000	0.048	0.000	0.043	0.039	0.000	0.000	0.130
SSE	0.000	0.000	0.000	0.000	0.095	0.000	0.000	0.000	0.000	0.095
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	0.041	0.039	0.000	0.000	0.080
SW	0.000	0.000	0.000	0.000	0.000	0.088	0.040	0.000	0.000	0.128
WSW	0.000	0.000	0.000	0.000	0.000	0.125	0.039	0.000	0.000	0.163
W	0.000	0.000	0.000	0.000	0.000	0.041	0.040	0.000	0.000	0.081
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.040
NW	0.000	0.000	0.000	0.000	0.046	0.044	0.000	0.000	0.000	0.090
NNW	0.000	0.000	0.000	0.000	0.000	0.043	0.079	0.000	0.000	0.122
SUBTOTAL	0.000	0.000	0.000	0.048	0.141	0.882	0.667	0.016	0.000	1.754

TOTAL HOURS OF VALID OBSERVATIONS 2076.000
TOTAL HOURS OF ELEVATED RELEASES 1817.260
TOTAL HOURS OF STABILITY CLASS C 44.430
TOTAL HOURS OF ELEVATED STABILITY CLASS C 36.420

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/04/21

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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 STA 52 D - Validated Edited Data

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2021 - MAR 31, 2021

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	0.048	0.145	0.337	0.647	5.157	1.141	0.038	0.000	7.513
NNE	0.000	0.000	0.241	0.578	1.570	2.712	0.751	0.000	0.000	5.853
NE	0.000	0.000	0.048	0.626	1.015	0.642	0.117	0.000	0.000	2.448
ENE	0.000	0.000	0.048	0.578	0.280	0.296	0.000	0.000	0.000	1.202
E	0.000	0.000	0.145	0.289	0.323	0.421	0.039	0.000	0.000	1.217
ESE	0.000	0.000	0.096	0.385	0.328	0.892	0.513	0.000	0.000	2.215
SE	0.000	0.000	0.145	0.626	0.143	0.669	0.469	0.105	0.003	2.159
SSE	0.000	0.000	0.145	0.241	0.093	0.214	0.235	0.074	0.000	1.000
S	0.000	0.000	0.241	0.145	0.048	0.642	0.428	0.247	0.000	1.750
SSW	0.000	0.000	0.145	0.434	0.184	0.468	0.197	0.000	0.000	1.427
SW	0.000	0.000	0.193	0.626	0.474	0.176	0.000	0.034	0.000	1.502
WSW	0.000	0.000	0.096	0.626	0.144	0.424	0.391	0.000	0.000	1.682
W	0.000	0.000	0.289	0.434	0.836	1.800	1.381	0.000	0.000	4.739
WNW	0.000	0.000	0.193	0.241	0.604	1.225	0.785	0.030	0.000	3.078
NW	0.000	0.000	0.241	0.337	0.234	0.892	1.048	0.876	0.000	3.628
NNW	0.000	0.000	0.193	0.193	0.415	2.102	1.096	0.147	0.000	4.145
SUBTOTAL	0.000	0.048	2.601	6.696	7.337	18.733	8.591	1.550	0.003	45.558

TOTAL HOURS OF VALID OBSERVATIONS 2076.000
 TOTAL HOURS OF ELEVATED RELEASES 1817.260
 TOTAL HOURS OF STABILITY CLASS D 1054.100
 TOTAL HOURS OF ELEVATED STABILITY CLASS D 945.790

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/04/21

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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 STA 52 D - Validated Edited Data

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2021 - MAR 31, 2021

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	0.193	0.230	0.598	0.000	0.000	0.000	1.068
NNE	0.000	0.000	0.145	0.337	0.700	1.108	0.277	0.000	0.000	2.567
NE	0.000	0.000	0.048	0.578	0.642	0.771	0.040	0.000	0.000	2.079
ENE	0.000	0.048	0.000	0.337	0.142	0.252	0.080	0.000	0.000	0.859
E	0.000	0.000	0.096	0.193	0.234	0.471	0.000	0.000	0.000	0.994
ESE	0.000	0.000	0.000	0.193	0.139	1.961	0.313	0.000	0.000	2.605
SE	0.000	0.048	0.145	0.241	0.281	1.463	0.941	0.260	0.034	3.413
SSE	0.000	0.000	0.096	0.193	0.368	0.622	0.974	0.141	0.016	2.410
S	0.000	0.000	0.145	0.337	0.189	0.509	1.988	0.685	0.057	3.910
SSW	0.000	0.000	0.241	0.193	0.379	0.541	0.391	0.252	0.007	2.003
SW	0.000	0.000	0.096	0.145	0.229	0.339	0.118	0.014	0.000	0.942
WSW	0.000	0.000	0.145	0.482	0.564	0.088	0.079	0.000	0.000	1.356
W	0.000	0.000	0.096	0.385	0.421	0.430	0.079	0.000	0.000	1.411
WNW	0.000	0.048	0.048	0.096	0.138	0.379	0.079	0.000	0.000	0.788
NW	0.000	0.000	0.000	0.193	0.045	0.298	0.000	0.000	0.000	0.536
NNW	0.000	0.000	0.048	0.048	0.362	0.551	0.198	0.000	0.000	1.208
SUBTOTAL	0.000	0.145	1.397	4.143	5.061	10.380	5.556	1.353	0.115	28.149

TOTAL HOURS OF VALID OBSERVATIONS 2076.000
TOTAL HOURS OF ELEVATED RELEASES 1817.260
TOTAL HOURS OF STABILITY CLASS E 666.820
TOTAL HOURS OF ELEVATED STABILITY CLASS E 584.380

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/04/21

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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 STA 52 D - Validated Edited Data

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2021 - MAR 31, 2021

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	0.045	0.342	0.000	0.000	0.000	0.387
NNE	0.000	0.000	0.048	0.000	0.142	0.340	0.000	0.000	0.000	0.530
NE	0.000	0.000	0.000	0.048	0.141	0.258	0.000	0.000	0.000	0.447
ENE	0.000	0.000	0.000	0.096	0.189	0.000	0.000	0.000	0.000	0.285
E	0.000	0.000	0.048	0.096	0.144	0.086	0.000	0.000	0.000	0.374
ESE	0.000	0.000	0.048	0.096	0.187	0.341	0.000	0.000	0.000	0.672
SE	0.000	0.000	0.000	0.145	0.230	0.806	0.118	0.000	0.000	1.300
SSE	0.000	0.000	0.193	0.193	0.272	0.588	0.395	0.095	0.000	1.735
S	0.000	0.000	0.048	0.145	0.093	0.373	0.390	0.169	0.000	1.217
SSW	0.000	0.000	0.145	0.096	0.090	0.128	0.039	0.000	0.000	0.498
SW	0.000	0.048	0.048	0.048	0.186	0.087	0.000	0.000	0.000	0.418
WSW	0.000	0.000	0.096	0.000	0.045	0.000	0.000	0.000	0.000	0.142
W	0.000	0.048	0.145	0.096	0.048	0.043	0.000	0.000	0.000	0.380
WNW	0.000	0.048	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.096
NW	0.000	0.000	0.000	0.048	0.047	0.000	0.000	0.000	0.000	0.095
NNW	0.000	0.000	0.000	0.000	0.000	0.087	0.000	0.000	0.000	0.087
SUBTOTAL	0.000	0.145	0.867	1.108	1.859	3.479	0.942	0.263	0.000	8.663

TOTAL HOURS OF VALID OBSERVATIONS 2076.000
TOTAL HOURS OF ELEVATED RELEASES 1817.260
TOTAL HOURS OF STABILITY CLASS F 215.120
TOTAL HOURS OF ELEVATED STABILITY CLASS F 179.840

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/04/21

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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 STA 52 D - Validated Edited Data

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2021 - MAR 31, 2021

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	0.000	0.000	0.042	0.000	0.000	0.000	0.091
NNE	0.000	0.000	0.048	0.000	0.000	0.247	0.000	0.000	0.000	0.295
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	0.096	0.093	0.000	0.000	0.000	0.000	0.189
ESE	0.000	0.000	0.000	0.000	0.093	0.214	0.000	0.000	0.000	0.307
SE	0.000	0.000	0.000	0.193	0.278	0.173	0.000	0.000	0.000	0.645
SSE	0.000	0.000	0.000	0.000	0.048	0.084	0.000	0.000	0.000	0.132
S	0.000	0.000	0.000	0.096	0.184	0.129	0.040	0.000	0.000	0.449
SSW	0.000	0.000	0.048	0.048	0.045	0.086	0.000	0.000	0.000	0.227
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.048	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.096
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	0.048	0.193	0.046	0.000	0.000	0.000	0.000	0.287
NW	0.000	0.000	0.048	0.000	0.045	0.000	0.000	0.000	0.000	0.093
NNW	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.048
SUBTOTAL	0.000	0.048	0.337	0.626	0.879	0.976	0.040	0.000	0.000	2.907

TOTAL HOURS OF VALID OBSERVATIONS 2076.000
TOTAL HOURS OF ELEVATED RELEASES 1817.260
TOTAL HOURS OF STABILITY CLASS G 73.660
TOTAL HOURS OF ELEVATED STABILITY CLASS G 60.340

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/04/21

Browns Ferry Nuclear Plant
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SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED

BY WIND DIRECTION DISREGARDING STABILITY CLASS

Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2021 - MAR 31, 2021

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	0.048	0.240	0.528	0.919	6.455	1.254	0.054	0.000	9.499
NNE	0.000	0.000	0.480	0.913	2.452	4.518	1.299	0.000	0.000	9.662
NE	0.000	0.000	0.096	1.249	1.793	1.706	0.195	0.000	0.000	5.038
ENE	0.000	0.048	0.048	1.009	0.655	0.547	0.080	0.000	0.000	2.386
E	0.000	0.000	0.288	0.672	0.791	0.975	0.039	0.000	0.000	2.766
ESE	0.000	0.000	0.144	0.672	0.744	3.398	0.862	0.000	0.000	5.821
SE	0.000	0.048	0.288	1.249	0.929	3.186	1.563	0.364	0.037	7.664
SSE	0.000	0.000	0.432	0.624	1.014	1.546	1.598	0.308	0.016	5.540
S	0.000	0.000	0.432	0.720	0.512	1.648	2.838	1.098	0.057	7.306
SSW	0.000	0.000	0.576	0.817	0.696	1.302	0.704	0.252	0.007	4.354
SW	0.000	0.048	0.336	0.913	0.887	0.729	0.158	0.048	0.000	3.118
WSW	0.000	0.048	0.384	1.105	0.751	0.635	0.506	0.000	0.000	3.429
W	0.000	0.048	0.528	0.961	1.301	2.308	1.495	0.000	0.000	6.641
WNW	0.000	0.096	0.336	0.528	0.785	1.600	0.901	0.030	0.000	4.277
NW	0.000	0.000	0.288	0.576	0.415	1.230	1.045	0.874	0.000	4.428
NNW	0.000	0.000	0.288	0.288	0.775	2.775	1.370	0.146	0.000	5.642
SUBTOTAL	0.000	0.384	5.187	12.824	15.420	34.558	15.907	3.173	0.117	87.571

TOTAL HOURS OF VALID OBSERVATIONS 2082.000
TOTAL HOURS OF OBSERVATIONS 2160.000
RECOVERABILITY PERCENTAGE 96.389
TOTAL HOURS OF ELEVATED RELEASES 1823.230

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/04/21

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Table 7-B Split Level Releases - 2nd Quarter JFD

Joint Frequency Distribution In Percent

(Ground Level Release Mode and Elevated Release Mode)

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, 2021 - JUN 30, 2021

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	0.014	0.018	0.000	0.000	0.031
NNE	0.000	0.000	0.000	0.000	0.019	0.049	0.000	0.000	0.000	0.067
NE	0.000	0.000	0.000	0.000	0.000	0.021	0.000	0.000	0.000	0.021
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.007
SE	0.000	0.000	0.000	0.013	0.048	0.080	0.000	0.000	0.000	0.141
SSE	0.000	0.000	0.001	0.036	0.044	0.175	0.000	0.000	0.000	0.256
S	0.000	0.000	0.000	0.014	0.085	0.055	0.000	0.000	0.000	0.153
SSW	0.000	0.000	0.000	0.001	0.012	0.048	0.000	0.000	0.000	0.061
SW	0.000	0.000	0.000	0.002	0.018	0.047	0.000	0.000	0.000	0.067
WSW	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.004
W	0.000	0.000	0.000	0.000	0.009	0.046	0.026	0.000	0.000	0.081
WNW	0.000	0.000	0.000	0.000	0.003	0.005	0.009	0.000	0.000	0.017
NW	0.000	0.000	0.000	0.000	0.000	0.021	0.029	0.041	0.000	0.091
NNW	0.000	0.000	0.000	0.000	0.000	0.059	0.074	0.000	0.000	0.133
SUBTOTAL	0.000	0.000	0.001	0.074	0.241	0.619	0.155	0.041	0.000	1.131

TOTAL HOURS OF VALID OBSERVATIONS 2102.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 220.150
 TOTAL HOURS OF STABILITY CLASS A 27.250
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 23.780

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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/07/20

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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, 2021 - JUN 30, 2021

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	0.009	0.020	0.000	0.000	0.000	0.031
NNE	0.000	0.000	0.000	0.000	0.020	0.015	0.000	0.000	0.000	0.034
NE	0.000	0.000	0.000	0.000	0.011	0.013	0.000	0.000	0.000	0.025
ENE	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.006
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.012	0.000	0.000	0.000	0.012
SE	0.000	0.000	0.000	0.007	0.065	0.098	0.043	0.000	0.000	0.213
SSE	0.000	0.000	0.000	0.007	0.003	0.026	0.000	0.000	0.000	0.035
S	0.000	0.000	0.000	0.025	0.044	0.044	0.000	0.000	0.000	0.113
SSW	0.000	0.000	0.000	0.009	0.035	0.020	0.029	0.000	0.000	0.093
SW	0.000	0.000	0.000	0.004	0.002	0.000	0.000	0.000	0.000	0.006
WSW	0.000	0.000	0.000	0.001	0.025	0.007	0.000	0.000	0.000	0.034
W	0.000	0.000	0.000	0.001	0.000	0.031	0.010	0.000	0.000	0.042
WNW	0.000	0.000	0.000	0.000	0.001	0.034	0.016	0.000	0.000	0.051
NW	0.000	0.000	0.000	0.000	0.005	0.069	0.009	0.000	0.000	0.082
NNW	0.000	0.000	0.000	0.003	0.013	0.081	0.000	0.000	0.000	0.097
SUBTOTAL	0.000	0.000	0.000	0.059	0.238	0.470	0.107	0.000	0.000	0.874

TOTAL HOURS OF VALID OBSERVATIONS 2102.000
TOTAL HOURS OF GROUND LEVEL RELEASE 220.150
TOTAL HOURS OF STABILITY CLASS B 31.790
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 18.370

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

DATE PRINTED: 2021/07/20

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

APR 1, 2021 - JUN 30, 2021

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	0.005	0.000	0.000	0.000	0.000	0.005
NNE	0.000	0.000	0.000	0.001	0.008	0.007	0.000	0.000	0.000	0.015
NE	0.000	0.000	0.000	0.000	0.000	0.021	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	0.002	0.000	0.000	0.000	0.000	0.002
ESE	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.008
SE	0.000	0.000	0.000	0.006	0.038	0.042	0.000	0.000	0.000	0.086
SSE	0.000	0.000	0.000	0.018	0.020	0.014	0.000	0.000	0.000	0.051
S	0.000	0.000	0.000	0.009	0.046	0.048	0.000	0.000	0.000	0.102
SSW	0.000	0.000	0.000	0.010	0.000	0.010	0.029	0.000	0.000	0.048
SW	0.000	0.000	0.000	0.004	0.010	0.032	0.000	0.000	0.000	0.046
WSW	0.000	0.000	0.000	0.000	0.017	0.015	0.000	0.000	0.000	0.032
W	0.000	0.000	0.000	0.000	0.003	0.033	0.009	0.000	0.000	0.046
WNW	0.000	0.000	0.000	0.000	0.020	0.070	0.006	0.000	0.000	0.097
NW	0.000	0.000	0.000	0.000	0.004	0.050	0.000	0.000	0.000	0.054
NNW	0.000	0.000	0.000	0.000	0.024	0.040	0.010	0.000	0.000	0.074
SUBTOTAL	0.000	0.000	0.000	0.047	0.204	0.382	0.053	0.000	0.000	0.687

TOTAL HOURS OF VALID OBSERVATIONS 2102.000
TOTAL HOURS OF GROUND LEVEL RELEASE 220.150
TOTAL HOURS OF STABILITY CLASS C 85.160
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 14.440

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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/07/20

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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

APR 1, 2021 - JUN 30, 2021

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	0.040	0.045	0.025	0.000	0.000	0.000	0.110
NNE	0.000	0.000	0.000	0.024	0.074	0.041	0.000	0.000	0.000	0.139
NE	0.000	0.000	0.000	0.009	0.018	0.022	0.000	0.000	0.000	0.048
ENE	0.000	0.000	0.000	0.001	0.008	0.000	0.000	0.000	0.000	0.010
E	0.000	0.000	0.000	0.005	0.010	0.000	0.000	0.000	0.000	0.016
ESE	0.000	0.000	0.000	0.060	0.067	0.009	0.000	0.000	0.000	0.137
SE	0.000	0.000	0.010	0.116	0.164	0.301	0.000	0.000	0.000	0.591
SSE	0.000	0.000	0.018	0.177	0.130	0.120	0.091	0.000	0.000	0.537
S	0.000	0.000	0.000	0.117	0.171	0.240	0.180	0.000	0.000	0.708
SSW	0.000	0.000	0.002	0.032	0.085	0.257	0.108	0.000	0.000	0.485
SW	0.000	0.000	0.000	0.029	0.065	0.118	0.047	0.000	0.000	0.259
WSW	0.000	0.000	0.000	0.029	0.063	0.037	0.000	0.000	0.000	0.129
W	0.000	0.000	0.000	0.025	0.054	0.104	0.009	0.000	0.000	0.192
WNW	0.000	0.000	0.000	0.004	0.049	0.129	0.036	0.027	0.000	0.245
NW	0.000	0.000	0.000	0.000	0.038	0.161	0.075	0.067	0.000	0.342
NNW	0.000	0.000	0.000	0.013	0.102	0.160	0.023	0.000	0.000	0.298
SUBTOTAL	0.000	0.000	0.030	0.684	1.144	1.725	0.569	0.094	0.000	4.245

TOTAL HOURS OF VALID OBSERVATIONS 2102.000
TOTAL HOURS OF GROUND LEVEL RELEASE 220.150
TOTAL HOURS OF STABILITY CLASS D 1127.470
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 89.220

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

DATE PRINTED: 2021/07/20

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

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

APR 1, 2021 - JUN 30, 2021

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	0.021	0.016	0.033	0.000	0.000	0.000	0.000	0.070
NNE	0.000	0.000	0.007	0.029	0.014	0.000	0.000	0.000	0.000	0.050
NE	0.000	0.000	0.001	0.005	0.034	0.024	0.000	0.000	0.000	0.065
ENE	0.000	0.000	0.008	0.005	0.007	0.000	0.000	0.000	0.000	0.019
E	0.000	0.000	0.020	0.022	0.007	0.000	0.000	0.000	0.000	0.049
ESE	0.000	0.000	0.020	0.118	0.108	0.000	0.000	0.000	0.000	0.246
SE	0.000	0.000	0.021	0.069	0.124	0.050	0.000	0.000	0.000	0.263
SSE	0.000	0.000	0.048	0.076	0.036	0.020	0.000	0.000	0.000	0.179
S	0.000	0.000	0.010	0.072	0.126	0.243	0.136	0.000	0.000	0.587
SSW	0.000	0.000	0.000	0.029	0.056	0.051	0.108	0.000	0.000	0.245
SW	0.000	0.000	0.004	0.014	0.019	0.016	0.062	0.000	0.000	0.115
WSW	0.000	0.000	0.005	0.010	0.011	0.015	0.000	0.000	0.000	0.040
W	0.000	0.000	0.006	0.010	0.028	0.039	0.000	0.000	0.000	0.083
WNW	0.000	0.000	0.000	0.004	0.009	0.004	0.000	0.000	0.000	0.017
NW	0.000	0.000	0.000	0.027	0.029	0.044	0.000	0.000	0.000	0.100
NNW	0.000	0.000	0.012	0.059	0.049	0.028	0.000	0.000	0.000	0.149
SUBTOTAL	0.000	0.000	0.183	0.565	0.690	0.534	0.306	0.000	0.000	2.278

TOTAL HOURS OF VALID OBSERVATIONS 2102.000
TOTAL HOURS OF GROUND LEVEL RELEASE 220.150
TOTAL HOURS OF STABILITY CLASS E 507.170
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 47.880

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: 2021/07/20

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 1 OF 2 GROUND LEVEL RELEASE MODE

APR 1, 2021 - JUN 30, 2021

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	0.099	0.093	0.007	0.000	0.000	0.000	0.000	0.199
NNE	0.000	0.000	0.001	0.050	0.031	0.000	0.000	0.000	0.000	0.082
NE	0.000	0.000	0.005	0.019	0.016	0.000	0.000	0.000	0.000	0.039
ENE	0.000	0.000	0.001	0.026	0.009	0.000	0.000	0.000	0.000	0.036
E	0.000	0.000	0.044	0.020	0.000	0.000	0.000	0.000	0.000	0.063
ESE	0.000	0.000	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.035
SE	0.000	0.000	0.021	0.004	0.000	0.000	0.000	0.000	0.000	0.025
SSE	0.000	0.004	0.051	0.041	0.000	0.020	0.000	0.000	0.000	0.115
S	0.000	0.000	0.018	0.042	0.071	0.028	0.000	0.000	0.000	0.159
SSW	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.006
SW	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
WSW	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.003
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	0.003	0.012	0.008	0.000	0.000	0.000	0.023
NW	0.000	0.000	0.004	0.002	0.014	0.000	0.000	0.000	0.000	0.020
NNW	0.000	0.000	0.048	0.061	0.007	0.010	0.000	0.000	0.000	0.126
SUBTOTAL	0.000	0.004	0.314	0.379	0.174	0.065	0.000	0.000	0.000	0.935

TOTAL HOURS OF VALID OBSERVATIONS 2102.000
TOTAL HOURS OF GROUND LEVEL RELEASE 220.150
TOTAL HOURS OF STABILITY CLASS F 236.300
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 19.650

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: 2021/07/20

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

APR 1, 2021 - JUN 30, 2021

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	0.041	0.084	0.008	0.000	0.000	0.000	0.000	0.133
NNE	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.009
NE	0.000	0.000	0.001	0.005	0.000	0.000	0.000	0.000	0.000	0.007
ENE	0.000	0.000	0.003	0.004	0.000	0.009	0.000	0.000	0.000	0.016
E	0.000	0.005	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.009
ESE	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003
SE	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.002
SSE	0.000	0.000	0.032	0.030	0.000	0.000	0.000	0.000	0.000	0.063
S	0.000	0.000	0.014	0.000	0.004	0.000	0.000	0.000	0.000	0.018
SSW	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.003
SW	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001
WSW	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.005
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.002	0.005	0.011	0.003	0.000	0.000	0.000	0.021
NW	0.000	0.000	0.000	0.000	0.015	0.000	0.000	0.000	0.000	0.015
NNW	0.000	0.000	0.008	0.005	0.008	0.000	0.000	0.000	0.000	0.020
SUBTOTAL	0.000	0.010	0.111	0.135	0.057	0.011	0.000	0.000	0.000	0.324

TOTAL HOURS OF VALID OBSERVATIONS 2102.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 220.150
 TOTAL HOURS OF STABILITY CLASS G 86.860
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 6.810

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

DATE PRINTED: 2021/07/20

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

APR 1, 2021 - JUN 30, 2021

WIND DIRECTION	WIND SPEED (MPH)									
	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	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.000	0.000	0.041	0.039	0.000	0.000	0.080
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	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	0.045	0.000	0.039	0.000	0.000	0.085
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.045	0.041	0.079	0.000	0.000	0.165

TOTAL HOURS OF VALID OBSERVATIONS 2102.000
TOTAL HOURS OF ELEVATED RELEASES 1881.850
TOTAL HOURS OF STABILITY CLASS A 27.250
TOTAL HOURS OF ELEVATED STABILITY CLASS A 3.470

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: 2021/07/20

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, 2021 - JUN 30, 2021

WIND DIRECTION	WIND SPEED (MPH)									
	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	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.039	0.000	0.000	0.039
NNE	0.000	0.000	0.000	0.000	0.000	0.042	0.000	0.000	0.000	0.042
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	0.042	0.000	0.028	0.000	0.070
SSE	0.000	0.000	0.000	0.000	0.092	0.000	0.039	0.000	0.000	0.130
S	0.000	0.000	0.000	0.000	0.046	0.044	0.000	0.000	0.000	0.090
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	0.042	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	0.039	0.000	0.000	0.039
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.078	0.108	0.000	0.186
SUBTOTAL	0.000	0.000	0.000	0.000	0.137	0.171	0.195	0.136	0.000	0.638

TOTAL HOURS OF VALID OBSERVATIONS 2102.000
 TOTAL HOURS OF ELEVATED RELEASES 1881.850
 TOTAL HOURS OF STABILITY CLASS B 31.790
 TOTAL HOURS OF ELEVATED STABILITY CLASS B 13.420

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: 2021/07/20

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

APR 1, 2021 - JUN 30, 2021

WIND DIRECTION	WIND SPEED (MPH)									
	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	TOTAL
N	0.000	0.000	0.000	0.000	0.045	0.122	0.039	0.000	0.000	0.206
NNE	0.000	0.000	0.000	0.000	0.000	0.332	0.039	0.000	0.000	0.372
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	0.127	0.000	0.000	0.000	0.127
SE	0.000	0.000	0.000	0.000	0.135	0.209	0.116	0.091	0.001	0.552
SSE	0.000	0.000	0.000	0.048	0.186	0.206	0.116	0.036	0.000	0.591
S	0.000	0.000	0.000	0.000	0.045	0.130	0.039	0.000	0.000	0.215
SSW	0.000	0.000	0.000	0.095	0.000	0.000	0.000	0.000	0.000	0.095
SW	0.000	0.000	0.000	0.000	0.045	0.123	0.000	0.000	0.000	0.168
WSW	0.000	0.000	0.000	0.000	0.048	0.086	0.000	0.000	0.000	0.134
W	0.000	0.000	0.000	0.000	0.000	0.207	0.154	0.000	0.000	0.361
WNW	0.000	0.000	0.000	0.000	0.044	0.000	0.078	0.000	0.000	0.122
NW	0.000	0.000	0.000	0.000	0.000	0.082	0.039	0.000	0.000	0.121
NNW	0.000	0.000	0.000	0.000	0.000	0.040	0.231	0.030	0.000	0.301
SUBTOTAL	0.000	0.000	0.000	0.143	0.548	1.664	0.852	0.157	0.001	3.364

TOTAL HOURS OF VALID OBSERVATIONS 2102.000
 TOTAL HOURS OF ELEVATED RELEASES 1881.850
 TOTAL HOURS OF STABILITY CLASS C 85.160
 TOTAL HOURS OF ELEVATED STABILITY CLASS C 70.720

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: 2021/07/20

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

APR 1, 2021 - JUN 30, 2021

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	0.333	0.546	1.449	0.273	0.000	0.000	2.696
NNE	0.000	0.000	0.048	0.238	0.547	1.084	0.156	0.000	0.000	2.072
NE	0.000	0.000	0.000	0.048	0.047	0.385	0.039	0.000	0.000	0.519
ENE	0.000	0.000	0.190	0.143	0.185	0.127	0.000	0.000	0.000	0.645
E	0.000	0.000	0.238	0.048	0.090	0.085	0.000	0.000	0.000	0.460
ESE	0.000	0.000	0.048	0.285	0.506	1.084	0.808	0.308	0.004	3.043
SE	0.000	0.000	0.618	1.332	0.821	1.747	1.696	0.537	0.014	6.766
SSE	0.000	0.048	0.618	0.761	0.646	1.149	1.895	0.142	0.000	5.259
S	0.000	0.048	0.285	0.714	0.822	1.616	1.280	0.354	0.000	5.118
SSW	0.000	0.000	0.428	0.381	0.824	1.580	0.582	0.188	0.000	3.983
SW	0.000	0.000	0.238	0.618	0.366	1.256	0.661	0.113	0.000	3.252
WSW	0.000	0.000	0.190	1.047	0.736	1.303	0.117	0.000	0.000	3.393
W	0.000	0.000	0.190	0.381	1.059	1.474	0.351	0.000	0.000	3.455
WNW	0.000	0.000	0.048	0.190	0.863	1.251	0.350	0.021	0.010	2.733
NW	0.000	0.000	0.095	0.333	0.373	1.382	0.504	0.084	0.006	2.778
NNW	0.000	0.000	0.190	0.190	0.231	1.693	0.892	0.024	0.000	3.221
SUBTOTAL	0.000	0.095	3.520	7.041	8.660	18.667	9.603	1.772	0.035	49.393

TOTAL HOURS OF VALID OBSERVATIONS 2102.000
TOTAL HOURS OF ELEVATED RELEASES 1881.850
TOTAL HOURS OF STABILITY CLASS D 1127.470
TOTAL HOURS OF ELEVATED STABILITY CLASS D 1038.250

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: 2021/07/20

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

APR 1, 2021 - JUN 30, 2021

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	0.238	0.228	1.373	0.157	0.000	0.000	1.995
NNE	0.000	0.000	0.095	0.333	0.272	0.551	0.118	0.000	0.000	1.370
NE	0.000	0.000	0.143	0.000	0.140	0.250	0.039	0.000	0.000	0.572
ENE	0.000	0.000	0.143	0.000	0.048	0.206	0.000	0.000	0.000	0.396
E	0.000	0.000	0.000	0.238	0.044	0.211	0.000	0.000	0.000	0.493
ESE	0.000	0.000	0.048	0.428	0.184	1.570	0.273	0.000	0.000	2.503
SE	0.000	0.000	0.285	0.285	0.460	0.830	0.579	0.026	0.000	2.466
SSE	0.000	0.000	0.143	0.476	0.275	0.585	0.888	0.052	0.010	2.429
S	0.000	0.048	0.000	0.285	0.138	1.160	1.010	0.068	0.000	2.709
SSW	0.000	0.000	0.143	0.428	0.093	0.581	0.078	0.000	0.000	1.323
SW	0.000	0.000	0.095	0.190	0.229	0.084	0.117	0.096	0.000	0.812
WSW	0.000	0.000	0.095	0.476	0.602	0.383	0.000	0.000	0.000	1.557
W	0.000	0.000	0.048	0.095	0.229	0.294	0.039	0.000	0.000	0.706
WNW	0.000	0.000	0.095	0.143	0.045	0.000	0.000	0.000	0.000	0.283
NW	0.000	0.000	0.238	0.143	0.094	0.208	0.039	0.000	0.000	0.722
NNW	0.000	0.000	0.048	0.428	0.092	0.831	0.115	0.000	0.000	1.514
SUBTOTAL	0.000	0.048	1.618	4.186	3.174	9.120	3.453	0.241	0.010	21.850

TOTAL HOURS OF VALID OBSERVATIONS 2102.000
 TOTAL HOURS OF ELEVATED RELEASES 1881.850
 TOTAL HOURS OF STABILITY CLASS E 507.170
 TOTAL HOURS OF ELEVATED STABILITY CLASS E 459.290

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: 2021/07/20

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

APR 1, 2021 - JUN 30, 2021

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	0.048	0.092	0.671	0.000	0.000	0.000	0.858
NNE	0.000	0.000	0.095	0.000	0.094	0.669	0.079	0.000	0.000	0.937
NE	0.000	0.000	0.095	0.048	0.000	0.285	0.039	0.000	0.000	0.467
ENE	0.000	0.000	0.000	0.095	0.047	0.171	0.078	0.000	0.000	0.391
E	0.000	0.000	0.143	0.238	0.272	0.171	0.000	0.000	0.000	0.824
ESE	0.000	0.000	0.143	0.285	0.225	0.348	0.000	0.000	0.000	1.001
SE	0.000	0.000	0.190	0.143	0.460	0.380	0.000	0.000	0.000	1.173
SSE	0.000	0.000	0.000	0.190	0.227	0.457	0.039	0.000	0.000	0.913
S	0.000	0.048	0.000	0.285	0.227	0.531	0.000	0.000	0.000	1.091
SSW	0.000	0.000	0.095	0.285	0.047	0.084	0.000	0.000	0.000	0.511
SW	0.000	0.000	0.048	0.190	0.000	0.086	0.000	0.000	0.000	0.324
WSW	0.000	0.000	0.095	0.143	0.000	0.087	0.000	0.000	0.000	0.325
W	0.000	0.000	0.048	0.048	0.000	0.000	0.000	0.000	0.000	0.095
WNW	0.000	0.000	0.048	0.048	0.094	0.000	0.000	0.000	0.000	0.189
NW	0.000	0.000	0.048	0.000	0.184	0.169	0.000	0.000	0.000	0.401
NNW	0.000	0.000	0.000	0.048	0.090	0.630	0.038	0.000	0.000	0.806
SUBTOTAL	0.000	0.048	1.094	2.093	2.059	4.739	0.274	0.000	0.000	10.307

TOTAL HOURS OF VALID OBSERVATIONS 2102.000
TOTAL HOURS OF ELEVATED RELEASES 1881.850
TOTAL HOURS OF STABILITY CLASS F 236.300
TOTAL HOURS OF ELEVATED STABILITY CLASS F 216.650

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

DATE PRINTED: 2021/07/20

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

APR 1, 2021 - JUN 30, 2021

WIND DIRECTION	WIND SPEED (MPH)									
	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	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.364	0.039	0.000	0.000	0.404
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.235	0.000	0.000	0.235
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	0.090	0.000	0.000	0.000	0.000	0.090
E	0.000	0.000	0.048	0.095	0.000	0.000	0.000	0.000	0.000	0.143
ESE	0.000	0.048	0.095	0.190	0.000	0.000	0.000	0.000	0.000	0.333
SE	0.000	0.000	0.095	0.333	0.186	0.044	0.000	0.000	0.000	0.657
SSE	0.000	0.000	0.285	0.143	0.047	0.000	0.000	0.000	0.000	0.475
S	0.000	0.048	0.048	0.143	0.000	0.000	0.000	0.000	0.000	0.238
SSW	0.000	0.000	0.095	0.143	0.048	0.000	0.000	0.000	0.000	0.285
SW	0.000	0.095	0.095	0.048	0.000	0.000	0.000	0.000	0.000	0.238
WSW	0.000	0.048	0.095	0.048	0.000	0.000	0.000	0.000	0.000	0.190
W	0.000	0.000	0.048	0.095	0.000	0.000	0.000	0.000	0.000	0.143
WNW	0.000	0.000	0.095	0.095	0.000	0.000	0.000	0.000	0.000	0.190
NW	0.000	0.048	0.000	0.048	0.000	0.000	0.000	0.000	0.000	0.095
NNW	0.000	0.000	0.000	0.048	0.044	0.000	0.000	0.000	0.000	0.092
SUBTOTAL	0.000	0.285	0.999	1.427	0.414	0.408	0.274	0.000	0.000	3.808

TOTAL HOURS OF VALID OBSERVATIONS 2102.000
 TOTAL HOURS OF ELEVATED RELEASES 1881.850
 TOTAL HOURS OF STABILITY CLASS G 86.860
 TOTAL HOURS OF ELEVATED STABILITY CLASS G 80.050

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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2021/07/20

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Table 7-C Split Level Releases - 3rd Quarter JFD

Joint Frequency Distribution In Percent

(Ground Level Release Mode and Elevated Release Mode)

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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 STA 52 D - Validated Edited Data

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2021 - SEP 30, 2021

WIND DIRECTION	WIND SPEED (MPH)									
	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	TOTAL
N	0.000	0.000	0.000	0.000	0.026	0.065	0.000	0.000	0.000	0.090
NNE	0.000	0.000	0.000	0.000	0.020	0.042	0.000	0.000	0.000	0.063
NE	0.000	0.000	0.000	0.000	0.017	0.013	0.000	0.000	0.000	0.030
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	0.003	0.008	0.006	0.000	0.000	0.000	0.000	0.017
SE	0.000	0.000	0.000	0.064	0.149	0.087	0.000	0.000	0.000	0.299
SSE	0.000	0.000	0.002	0.036	0.047	0.027	0.000	0.000	0.000	0.113
S	0.000	0.000	0.000	0.053	0.030	0.016	0.000	0.000	0.000	0.099
SSW	0.000	0.000	0.000	0.014	0.011	0.000	0.000	0.000	0.000	0.025
SW	0.000	0.000	0.000	0.010	0.027	0.016	0.000	0.000	0.000	0.052
WSW	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.003
W	0.000	0.000	0.000	0.002	0.024	0.011	0.000	0.000	0.000	0.038
WNW	0.000	0.000	0.000	0.000	0.018	0.047	0.000	0.000	0.000	0.065
NW	0.000	0.000	0.000	0.000	0.005	0.073	0.077	0.000	0.000	0.155
NNW	0.000	0.000	0.000	0.000	0.005	0.073	0.000	0.000	0.000	0.078
SUBTOTAL	0.000	0.000	0.005	0.186	0.395	0.470	0.077	0.000	0.000	1.133

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF GROUND LEVEL RELEASE 133.300
TOTAL HOURS OF STABILITY CLASS A 24.920
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 24.920

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
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: 2021/10/14

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 STA 52 D - Validated Edited Data

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2021 - SEP 30, 2021

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	0.016	0.007	0.000	0.000	0.000	0.023
NNE	0.000	0.000	0.000	0.000	0.024	0.012	0.000	0.000	0.000	0.035
NE	0.000	0.000	0.000	0.002	0.000	0.016	0.000	0.000	0.000	0.018
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	0.009	0.000	0.000	0.000	0.009
ESE	0.000	0.000	0.000	0.016	0.033	0.000	0.000	0.000	0.000	0.049
SE	0.000	0.000	0.000	0.027	0.017	0.009	0.000	0.000	0.000	0.053
SSE	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.004
S	0.000	0.000	0.000	0.008	0.042	0.000	0.020	0.000	0.000	0.070
SSW	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.009
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	0.006	0.005	0.000	0.000	0.000	0.000	0.010
W	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.006
WNW	0.000	0.000	0.000	0.000	0.012	0.020	0.008	0.000	0.000	0.039
NW	0.000	0.000	0.000	0.000	0.008	0.005	0.000	0.032	0.000	0.045
NNW	0.000	0.000	0.000	0.003	0.009	0.022	0.000	0.000	0.000	0.034
SUBTOTAL	0.000	0.000	0.000	0.074	0.165	0.113	0.028	0.032	0.000	0.412

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 133.300
 TOTAL HOURS OF STABILITY CLASS B 21.380
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 9.070

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 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: 2021/10/14

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 STA 52 D - Validated Edited Data

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2021 - SEP 30, 2021

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	0.002	0.013	0.005	0.000	0.000	0.000	0.020
NNE	0.000	0.000	0.000	0.005	0.012	0.000	0.000	0.000	0.000	0.017
NE	0.000	0.000	0.000	0.002	0.014	0.012	0.000	0.000	0.000	0.028
ENE	0.000	0.000	0.000	0.001	0.000	0.015	0.019	0.000	0.000	0.035
E	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.006
ESE	0.000	0.000	0.000	0.000	0.015	0.000	0.011	0.000	0.000	0.026
SE	0.000	0.000	0.006	0.037	0.023	0.000	0.000	0.000	0.000	0.066
SSE	0.000	0.000	0.000	0.025	0.005	0.000	0.000	0.000	0.000	0.030
S	0.000	0.000	0.000	0.017	0.027	0.028	0.000	0.000	0.000	0.072
SSW	0.000	0.000	0.000	0.003	0.009	0.015	0.000	0.000	0.000	0.027
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.002	0.009	0.000	0.000	0.000	0.000	0.011
W	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.006
WNW	0.000	0.000	0.000	0.000	0.000	0.012	0.000	0.000	0.000	0.012
NW	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.000	0.000	0.020
NNW	0.000	0.000	0.000	0.002	0.000	0.009	0.000	0.000	0.000	0.011
SUBTOTAL	0.000	0.000	0.007	0.104	0.126	0.123	0.030	0.000	0.000	0.390

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF GROUND LEVEL RELEASE 133.300
TOTAL HOURS OF STABILITY CLASS C 77.170
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 8.580

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
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: 2021/10/14

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

Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2021 - SEP 30, 2021

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	0.005	0.028	0.025	0.007	0.000	0.000	0.000	0.065
NNE	0.000	0.000	0.000	0.034	0.027	0.015	0.000	0.000	0.000	0.076
NE	0.000	0.000	0.002	0.019	0.015	0.008	0.000	0.000	0.000	0.045
ENE	0.000	0.000	0.001	0.014	0.006	0.000	0.017	0.000	0.000	0.039
E	0.000	0.000	0.003	0.053	0.022	0.015	0.025	0.000	0.000	0.117
ESE	0.000	0.000	0.020	0.111	0.103	0.041	0.000	0.000	0.000	0.275
SE	0.000	0.000	0.018	0.131	0.085	0.008	0.000	0.000	0.000	0.243
SSE	0.000	0.000	0.032	0.074	0.026	0.000	0.000	0.000	0.000	0.132
S	0.000	0.000	0.004	0.131	0.142	0.298	0.000	0.000	0.000	0.575
SSW	0.000	0.000	0.000	0.031	0.095	0.107	0.000	0.000	0.000	0.234
SW	0.000	0.000	0.001	0.025	0.033	0.017	0.000	0.000	0.000	0.076
WSW	0.000	0.000	0.000	0.015	0.007	0.008	0.000	0.000	0.000	0.030
W	0.000	0.000	0.000	0.029	0.048	0.005	0.000	0.000	0.000	0.083
WNW	0.000	0.000	0.000	0.000	0.007	0.063	0.041	0.000	0.000	0.112
NW	0.000	0.000	0.000	0.000	0.003	0.022	0.063	0.000	0.000	0.089
NNW	0.000	0.000	0.000	0.007	0.035	0.023	0.026	0.000	0.000	0.091
SUBTOTAL	0.000	0.000	0.086	0.703	0.681	0.639	0.172	0.000	0.000	2.281

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 133.300
 TOTAL HOURS OF STABILITY CLASS D 1165.920
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 50.180

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 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: 2021/10/14

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

Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2021 - SEP 30, 2021

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	0.068	0.067	0.034	0.000	0.000	0.000	0.000	0.169
NNE	0.000	0.000	0.025	0.090	0.023	0.000	0.000	0.000	0.000	0.138
NE	0.000	0.000	0.004	0.019	0.011	0.000	0.000	0.000	0.000	0.034
ENE	0.000	0.000	0.009	0.055	0.005	0.000	0.000	0.000	0.000	0.069
E	0.000	0.000	0.041	0.148	0.012	0.000	0.000	0.000	0.000	0.201
ESE	0.000	0.000	0.052	0.065	0.013	0.000	0.000	0.000	0.000	0.130
SE	0.000	0.001	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.024
SSE	0.000	0.000	0.045	0.024	0.000	0.000	0.000	0.000	0.000	0.068
S	0.000	0.000	0.014	0.051	0.048	0.000	0.000	0.000	0.000	0.113
SSW	0.000	0.000	0.002	0.005	0.004	0.000	0.000	0.000	0.000	0.012
SW	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.005
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	0.005	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	0.000	0.005	0.015	0.000	0.000	0.000	0.000	0.020
NNW	0.000	0.000	0.004	0.042	0.026	0.028	0.010	0.000	0.000	0.109
SUBTOTAL	0.000	0.001	0.286	0.570	0.208	0.028	0.010	0.000	0.000	1.103

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF GROUND LEVEL RELEASE 133.300
TOTAL HOURS OF STABILITY CLASS E 611.040
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 24.270

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
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: 2021/10/14

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 STA 52 D - Validated Edited Data

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2021 - SEP 30, 2021

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	0.051	0.065	0.000	0.000	0.000	0.000	0.000	0.116
NNE	0.000	0.003	0.027	0.069	0.000	0.000	0.000	0.000	0.000	0.099
NE	0.000	0.000	0.009	0.006	0.000	0.000	0.000	0.000	0.000	0.015
ENE	0.000	0.000	0.005	0.025	0.000	0.000	0.000	0.000	0.000	0.030
E	0.000	0.005	0.012	0.040	0.000	0.000	0.000	0.000	0.000	0.056
ESE	0.000	0.000	0.011	0.015	0.000	0.000	0.000	0.000	0.000	0.026
SE	0.000	0.010	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.019
SSE	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005
S	0.000	0.000	0.009	0.005	0.000	0.000	0.000	0.000	0.000	0.015
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	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.003
NNW	0.000	0.000	0.005	0.020	0.000	0.000	0.000	0.000	0.000	0.025
SUBTOTAL	0.000	0.023	0.142	0.245	0.000	0.000	0.000	0.000	0.000	0.410

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 133.300
 TOTAL HOURS OF STABILITY CLASS F 240.110
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 9.020

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 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: 2021/10/14

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 STA 52 D - Validated Edited Data

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JUL 1, 2021 - SEP 30, 2021

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	0.060	0.130	0.006	0.000	0.000	0.000	0.000	0.196
NNE	0.000	0.000	0.023	0.056	0.000	0.000	0.000	0.000	0.000	0.079
NE	0.000	0.000	0.002	0.015	0.000	0.000	0.000	0.000	0.000	0.016
ENE	0.000	0.000	0.005	0.010	0.000	0.000	0.000	0.000	0.000	0.016
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	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005
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	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.006
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	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.012
SUBTOTAL	0.000	0.005	0.108	0.211	0.006	0.000	0.000	0.000	0.000	0.330

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF GROUND LEVEL RELEASE 133.300
TOTAL HOURS OF STABILITY CLASS G 59.460
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 7.260

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
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: 2021/10/14

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 STA 52 D - Validated Edited Data

PART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2021 - SEP 30, 2021

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF ELEVATED RELEASES 2066.700
 TOTAL HOURS OF STABILITY CLASS A 24.920
 TOTAL HOURS OF ELEVATED STABILITY CLASS A 0.000

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 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: 2021/10/14

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 STA 52 D - Validated Edited Data

PART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2021 - SEP 30, 2021

WIND DIRECTION	WIND SPEED (MPH)									
	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	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.000	0.000	0.038
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	0.077	0.112	0.000	0.000	0.189
SSE	0.000	0.000	0.000	0.045	0.043	0.000	0.000	0.000	0.000	0.088
S	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.045
SSW	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.045
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.042	0.000	0.000	0.000	0.000	0.042
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	0.111	0.000	0.000	0.111
SUBTOTAL	0.000	0.000	0.000	0.136	0.085	0.077	0.261	0.000	0.000	0.560

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF ELEVATED RELEASES 2066.700
 TOTAL HOURS OF STABILITY CLASS B 21.380
 TOTAL HOURS OF ELEVATED STABILITY CLASS B 12.310

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 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: 2021/10/14

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 STA 52 D - Validated Edited Data

PART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2021 - SEP 30, 2021

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	0.315	0.037	0.000	0.000	0.352
NNE	0.000	0.000	0.000	0.000	0.000	0.159	0.000	0.000	0.000	0.159
NE	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.000	0.040
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.158	0.038	0.000	0.000	0.195
SE	0.000	0.000	0.000	0.091	0.000	0.237	0.075	0.051	0.000	0.453
SSE	0.000	0.000	0.045	0.045	0.045	0.124	0.000	0.000	0.000	0.260
S	0.000	0.000	0.000	0.091	0.045	0.079	0.000	0.000	0.000	0.215
SSW	0.000	0.000	0.091	0.227	0.000	0.079	0.000	0.000	0.000	0.397
SW	0.000	0.000	0.000	0.227	0.089	0.083	0.000	0.000	0.000	0.399
WSW	0.000	0.000	0.000	0.091	0.045	0.000	0.000	0.000	0.000	0.136
W	0.000	0.000	0.000	0.000	0.173	0.081	0.000	0.000	0.000	0.254
WNW	0.000	0.000	0.000	0.000	0.000	0.039	0.000	0.000	0.000	0.039
NW	0.000	0.000	0.000	0.000	0.000	0.120	0.036	0.025	0.000	0.180
NNW	0.000	0.000	0.000	0.000	0.000	0.039	0.000	0.000	0.000	0.039
SUBTOTAL	0.000	0.000	0.136	0.773	0.396	1.552	0.185	0.075	0.000	3.118

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF ELEVATED RELEASES 2066.700
 TOTAL HOURS OF STABILITY CLASS C 77.170
 TOTAL HOURS OF ELEVATED STABILITY CLASS C 68.590

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 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: 2021/10/14

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

Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

PART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2021 - SEP 30, 2021

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	1.088	0.968	0.037	0.000	0.000	2.365
NNE	0.000	0.000	0.091	0.682	0.961	1.012	0.037	0.000	0.000	2.783
NE	0.000	0.000	0.136	0.273	0.528	0.124	0.075	0.000	0.000	1.135
ENE	0.000	0.000	0.227	0.273	0.134	0.083	0.075	0.000	0.000	0.793
E	0.000	0.000	0.364	0.318	0.220	0.362	0.111	0.085	0.000	1.460
ESE	0.000	0.000	0.091	0.500	0.782	1.558	0.262	0.055	0.000	3.249
SE	0.000	0.000	0.773	1.500	1.227	1.824	0.853	0.142	0.000	6.319
SSE	0.000	0.045	1.500	1.136	0.871	1.560	0.483	0.027	0.000	5.623
S	0.000	0.000	1.136	1.545	1.540	1.917	0.817	0.070	0.000	7.026
SSW	0.000	0.000	1.136	1.273	1.184	0.958	0.480	0.000	0.000	5.032
SW	0.000	0.000	1.227	1.682	0.794	0.445	0.113	0.000	0.000	4.260
WSW	0.000	0.000	0.591	1.591	0.795	0.207	0.037	0.000	0.000	3.220
W	0.000	0.000	0.318	0.909	0.834	0.690	0.000	0.000	0.000	2.752
WNW	0.000	0.000	0.091	0.318	0.394	0.939	0.258	0.081	0.000	2.080
NW	0.000	0.000	0.091	0.227	0.349	0.396	0.222	0.155	0.000	1.440
NNW	0.000	0.045	0.045	0.136	0.178	0.520	0.224	0.028	0.000	1.178
SUBTOTAL	0.000	0.091	7.864	12.591	11.878	13.563	4.085	0.645	0.000	50.715

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF ELEVATED RELEASES 2066.700
TOTAL HOURS OF STABILITY CLASS D 1165.920
TOTAL HOURS OF ELEVATED STABILITY CLASS D 1115.740

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
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: 2021/10/14

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

Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

PART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2021 - SEP 30, 2021

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	0.227	0.227	0.658	0.723	0.111	0.000	0.000	1.992
NNE	0.000	0.000	0.136	0.727	0.610	0.923	0.113	0.000	0.000	2.510
NE	0.000	0.000	0.227	0.500	0.308	0.328	0.000	0.000	0.000	1.363
ENE	0.000	0.045	0.227	0.409	0.482	0.164	0.000	0.000	0.000	1.328
E	0.000	0.000	0.182	0.273	0.730	1.065	0.000	0.000	0.000	2.250
ESE	0.000	0.000	0.273	0.318	0.879	1.619	0.000	0.000	0.000	3.089
SE	0.000	0.000	0.455	0.818	0.832	0.691	0.037	0.000	0.000	2.833
SSE	0.000	0.000	0.545	1.091	0.974	0.489	0.000	0.000	0.000	3.099
S	0.000	0.000	0.455	0.682	0.395	0.765	0.224	0.000	0.000	2.520
SSW	0.000	0.045	0.318	0.091	0.175	0.483	0.075	0.000	0.000	1.187
SW	0.000	0.000	0.409	0.273	0.089	0.040	0.000	0.000	0.000	0.811
WSW	0.000	0.045	0.273	0.182	0.043	0.040	0.000	0.000	0.000	0.583
W	0.000	0.000	0.182	0.364	0.313	0.081	0.000	0.000	0.000	0.940
WNW	0.000	0.000	0.318	0.091	0.042	0.040	0.000	0.000	0.000	0.491
NW	0.000	0.000	0.091	0.227	0.133	0.279	0.000	0.000	0.000	0.730
NNW	0.000	0.091	0.136	0.045	0.131	0.398	0.145	0.000	0.000	0.946
SUBTOTAL	0.000	0.273	4.455	6.318	6.792	8.129	0.705	0.000	0.000	26.671

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF ELEVATED RELEASES 2066.700
TOTAL HOURS OF STABILITY CLASS E 611.040
TOTAL HOURS OF ELEVATED STABILITY CLASS E 586.770

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
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: 2021/10/14

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 STA 52 D - Validated Edited Data

PART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2021 - SEP 30, 2021

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	0.136	0.136	0.175	0.844	0.000	0.000	0.000	1.291
NNE	0.000	0.000	0.091	0.045	0.396	0.557	0.038	0.000	0.000	1.127
NE	0.000	0.000	0.273	0.455	0.394	0.479	0.000	0.000	0.000	1.600
ENE	0.000	0.000	0.136	0.182	0.086	0.040	0.000	0.000	0.000	0.444
E	0.000	0.045	0.136	0.182	0.220	0.163	0.000	0.000	0.000	0.746
ESE	0.000	0.000	0.182	0.227	0.352	0.203	0.000	0.000	0.000	0.964
SE	0.000	0.045	0.273	0.773	0.314	0.000	0.000	0.000	0.000	1.405
SSE	0.000	0.000	0.136	0.182	0.000	0.000	0.000	0.000	0.000	0.318
S	0.000	0.091	0.500	0.227	0.000	0.320	0.000	0.000	0.000	1.139
SSW	0.000	0.000	0.182	0.045	0.043	0.040	0.000	0.000	0.000	0.310
SW	0.000	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.091
WSW	0.000	0.000	0.091	0.045	0.000	0.000	0.000	0.000	0.000	0.136
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	0.045	0.091	0.000	0.000	0.000	0.000	0.000	0.136
NW	0.000	0.045	0.045	0.045	0.042	0.000	0.000	0.000	0.000	0.179
NNW	0.000	0.000	0.136	0.045	0.042	0.281	0.113	0.000	0.000	0.618
SUBTOTAL	0.000	0.273	2.409	2.682	2.064	2.926	0.150	0.000	0.000	10.504

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF ELEVATED RELEASES 2066.700
 TOTAL HOURS OF STABILITY CLASS F 240.110
 TOTAL HOURS OF ELEVATED STABILITY CLASS F 231.090

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 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: 2021/10/14

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 STA 52 D - Validated Edited Data

PART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2021 - SEP 30, 2021

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	0.271	0.000	0.000	0.000	0.271
NNE	0.000	0.000	0.000	0.045	0.134	0.515	0.038	0.000	0.000	0.732
NE	0.000	0.000	0.045	0.091	0.131	0.209	0.000	0.000	0.000	0.477
ENE	0.000	0.000	0.000	0.091	0.090	0.042	0.000	0.000	0.000	0.222
E	0.000	0.045	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.091
ESE	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.045
SE	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.045
SSE	0.000	0.045	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.136
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	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045
WSW	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045
W	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.091
WNW	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.045
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.045	0.000	0.080	0.000	0.000	0.000	0.125
SUBTOTAL	0.000	0.182	0.318	0.364	0.355	1.116	0.038	0.000	0.000	2.373

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF ELEVATED RELEASES 2066.700
 TOTAL HOURS OF STABILITY CLASS G 59.460
 TOTAL HOURS OF ELEVATED STABILITY CLASS G 52.200

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 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: 2021/10/14

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
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Table 7-D Split Level Releases - 4th Quarter JFD

Joint Frequency Distribution In Percent

(Ground Level Release Mode And Elevated Release Mode)

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, 2021 - DEC 31, 2021

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	0.051	0.015	0.000	0.000	0.070
NNE	0.000	0.000	0.000	0.000	0.004	0.013	0.000	0.000	0.000	0.017
NE	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.006
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	0.002	0.000	0.000	0.000	0.000	0.000	0.002
SE	0.000	0.000	0.000	0.014	0.027	0.015	0.000	0.000	0.000	0.056
SSE	0.000	0.000	0.000	0.026	0.000	0.009	0.000	0.000	0.000	0.035
S	0.000	0.000	0.000	0.011	0.022	0.067	0.000	0.000	0.000	0.100
SSW	0.000	0.000	0.000	0.003	0.026	0.007	0.000	0.000	0.000	0.037
SW	0.000	0.000	0.000	0.008	0.004	0.008	0.000	0.000	0.000	0.020
WSW	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.006
W	0.000	0.000	0.000	0.000	0.009	0.032	0.000	0.000	0.000	0.042
WNW	0.000	0.000	0.000	0.000	0.000	0.033	0.000	0.000	0.000	0.033
NW	0.000	0.000	0.000	0.000	0.004	0.013	0.000	0.000	0.000	0.017
NNW	0.000	0.000	0.000	0.000	0.018	0.078	0.049	0.000	0.000	0.145
SUBTOTAL	0.000	0.000	0.000	0.064	0.119	0.339	0.064	0.000	0.000	0.585

TOTAL HOURS OF VALID OBSERVATIONS 2134.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 231.340
 TOTAL HOURS OF STABILITY CLASS A 12.490
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 12.490
 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: 2022/01/26

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

OCT 1, 2021 - DEC 31, 2021

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	0.043	0.000	0.000	0.000	0.043
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	0.008	0.000	0.000	0.000	0.000	0.008
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.009	0.012	0.046	0.000	0.000	0.000	0.067
SSE	0.000	0.000	0.000	0.012	0.007	0.000	0.000	0.000	0.000	0.019
S	0.000	0.000	0.000	0.003	0.000	0.009	0.000	0.000	0.000	0.012
SSW	0.000	0.000	0.000	0.003	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	0.002	0.000	0.007	0.000	0.000	0.000	0.008
W	0.000	0.000	0.000	0.001	0.010	0.014	0.000	0.000	0.000	0.025
WNW	0.000	0.000	0.000	0.000	0.004	0.023	0.000	0.000	0.000	0.028
NW	0.000	0.000	0.000	0.000	0.008	0.027	0.000	0.000	0.000	0.035
NNW	0.000	0.000	0.000	0.000	0.004	0.030	0.000	0.000	0.000	0.034
SUBTOTAL	0.000	0.000	0.000	0.031	0.054	0.199	0.000	0.000	0.000	0.284

TOTAL HOURS OF VALID OBSERVATIONS 2134.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 231.340
 TOTAL HOURS OF STABILITY CLASS B 7.860
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 6.060
 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: 2022/01/26

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

OCT 1, 2021 - DEC 31, 2021

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	0.008	0.047	0.000	0.000	0.000	0.056
NNE	0.000	0.000	0.000	0.002	0.009	0.000	0.000	0.000	0.000	0.011
NE	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.007
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.012	0.000	0.000	0.000	0.000	0.012
SE	0.000	0.000	0.000	0.018	0.026	0.009	0.000	0.000	0.000	0.053
SSE	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.007
S	0.000	0.000	0.000	0.000	0.017	0.063	0.000	0.000	0.000	0.080
SSW	0.000	0.000	0.000	0.000	0.004	0.010	0.000	0.000	0.000	0.015
SW	0.000	0.000	0.000	0.000	0.006	0.008	0.000	0.000	0.000	0.014
WSW	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.004
W	0.000	0.000	0.000	0.000	0.001	0.029	0.000	0.000	0.000	0.030
WNW	0.000	0.000	0.000	0.001	0.000	0.011	0.011	0.000	0.000	0.024
NW	0.000	0.000	0.000	0.000	0.010	0.007	0.010	0.000	0.000	0.027
NNW	0.000	0.000	0.000	0.000	0.010	0.031	0.000	0.000	0.000	0.041
SUBTOTAL	0.000	0.000	0.000	0.027	0.112	0.222	0.021	0.000	0.000	0.381

TOTAL HOURS OF VALID OBSERVATIONS 2134.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 231.340
 TOTAL HOURS OF STABILITY CLASS C 26.650
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 8.130
 METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
 WIND DIRECTION MEASURED AT 10.50 METER LEVEL
 WIND SPEED MEASURED AT 10.50 METER LEVEL
 EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2022/01/26

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

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCT 1, 2021 - DEC 31, 2021

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	0.029	0.032	0.166	0.000	0.000	0.000	0.227
NNE	0.000	0.000	0.000	0.032	0.064	0.041	0.000	0.000	0.000	0.136
NE	0.000	0.000	0.000	0.006	0.032	0.006	0.000	0.000	0.000	0.044
ENE	0.000	0.000	0.001	0.001	0.014	0.000	0.000	0.000	0.000	0.016
E	0.000	0.000	0.000	0.015	0.000	0.000	0.000	0.000	0.000	0.015
ESE	0.000	0.000	0.000	0.029	0.018	0.000	0.000	0.000	0.000	0.046
SE	0.000	0.000	0.006	0.067	0.070	0.254	0.094	0.000	0.000	0.489
SSE	0.000	0.000	0.016	0.091	0.083	0.020	0.000	0.000	0.000	0.210
S	0.000	0.000	0.009	0.078	0.104	0.368	0.055	0.000	0.000	0.614
SSW	0.000	0.000	0.000	0.015	0.050	0.202	0.102	0.000	0.000	0.369
SW	0.000	0.000	0.000	0.013	0.044	0.039	0.000	0.000	0.000	0.096
WSW	0.000	0.000	0.000	0.002	0.026	0.016	0.000	0.000	0.000	0.045
W	0.000	0.000	0.000	0.007	0.030	0.096	0.009	0.000	0.000	0.142
WNW	0.000	0.000	0.000	0.000	0.035	0.123	0.102	0.000	0.000	0.260
NW	0.000	0.000	0.000	0.000	0.055	0.103	0.147	0.000	0.000	0.306
NNW	0.000	0.000	0.000	0.009	0.023	0.178	0.056	0.000	0.000	0.267
SUBTOTAL	0.000	0.000	0.032	0.395	0.680	1.611	0.565	0.000	0.000	3.283

TOTAL HOURS OF VALID OBSERVATIONS 2134.000

TOTAL HOURS OF GROUND LEVEL RELEASE 231.340

TOTAL HOURS OF STABILITY CLASS D 811.160

TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 70.050

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT

STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS

WIND DIRECTION MEASURED AT 10.50 METER LEVEL

WIND SPEED MEASURED AT 10.50 METER LEVEL

EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2022/01/26

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

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

OCT 1, 2021 - DEC 31, 2021

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	0.008	0.068	0.060	0.009	0.000	0.000	0.000	0.146
NNE	0.000	0.000	0.014	0.103	0.032	0.000	0.000	0.000	0.000	0.149
NE	0.000	0.000	0.000	0.019	0.035	0.023	0.000	0.000	0.000	0.077
ENE	0.000	0.002	0.002	0.031	0.000	0.000	0.000	0.000	0.000	0.035
E	0.000	0.000	0.012	0.028	0.000	0.000	0.000	0.000	0.000	0.040
ESE	0.000	0.000	0.053	0.147	0.060	0.017	0.000	0.000	0.000	0.278
SE	0.000	0.000	0.044	0.056	0.136	0.075	0.000	0.000	0.000	0.312
SSE	0.000	0.000	0.066	0.137	0.221	0.189	0.000	0.000	0.000	0.613
S	0.000	0.000	0.010	0.091	0.119	0.422	0.454	0.181	0.000	1.277
SSW	0.000	0.000	0.006	0.018	0.082	0.353	0.238	0.000	0.000	0.698
SW	0.000	0.000	0.002	0.009	0.000	0.102	0.059	0.000	0.000	0.172
WSW	0.000	0.000	0.000	0.004	0.012	0.000	0.000	0.000	0.000	0.015
W	0.000	0.000	0.001	0.047	0.015	0.016	0.000	0.000	0.000	0.079
WNW	0.000	0.000	0.000	0.000	0.018	0.007	0.000	0.000	0.000	0.024
NW	0.000	0.000	0.004	0.021	0.025	0.079	0.027	0.000	0.000	0.156
NNW	0.000	0.000	0.009	0.026	0.083	0.047	0.010	0.000	0.000	0.176
SUBTOTAL	0.000	0.002	0.232	0.806	0.899	1.340	0.787	0.181	0.000	4.247

TOTAL HOURS OF VALID OBSERVATIONS 2134.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 231.340
 TOTAL HOURS OF STABILITY CLASS E 861.850
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 90.630
 METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
 WIND DIRECTION MEASURED AT 10.50 METER LEVEL
 WIND SPEED MEASURED AT 10.50 METER LEVEL
 EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2022/01/26

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 1 OF 2 GROUND LEVEL RELEASE MODE

OCT 1, 2021 - DEC 31, 2021

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	0.067	0.102	0.025	0.000	0.000	0.000	0.000	0.193
NNE	0.000	0.000	0.012	0.076	0.022	0.000	0.000	0.000	0.000	0.110
NE	0.000	0.000	0.004	0.005	0.007	0.000	0.000	0.000	0.000	0.016
ENE	0.000	0.000	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.014
E	0.000	0.005	0.045	0.052	0.000	0.000	0.000	0.000	0.000	0.101
ESE	0.000	0.012	0.032	0.057	0.007	0.000	0.000	0.000	0.000	0.108
SE	0.000	0.005	0.088	0.060	0.008	0.034	0.000	0.000	0.000	0.195
SSE	0.000	0.000	0.052	0.054	0.058	0.091	0.000	0.000	0.000	0.256
S	0.000	0.000	0.024	0.038	0.071	0.139	0.115	0.000	0.000	0.387
SSW	0.000	0.000	0.003	0.024	0.000	0.008	0.000	0.000	0.000	0.036
SW	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.008
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.001	0.017	0.007	0.000	0.000	0.000	0.000	0.026
NNW	0.000	0.000	0.021	0.075	0.044	0.000	0.000	0.000	0.000	0.139
SUBTOTAL	0.000	0.022	0.364	0.567	0.249	0.272	0.115	0.000	0.000	1.590

TOTAL HOURS OF VALID OBSERVATIONS 2134.000

TOTAL HOURS OF GROUND LEVEL RELEASE 231.340

TOTAL HOURS OF STABILITY CLASS F 308.070

TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 33.930

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: 2022/01/26

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

OCT 1, 2021 - DEC 31, 2021

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	0.071	0.169	0.000	0.000	0.000	0.000	0.000	0.239
NNE	0.000	0.000	0.003	0.049	0.000	0.000	0.000	0.000	0.000	0.052
NE	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.006
ENE	0.000	0.005	0.011	0.004	0.000	0.000	0.000	0.000	0.000	0.020
E	0.000	0.000	0.030	0.002	0.000	0.000	0.000	0.000	0.000	0.032
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.004	0.012	0.010	0.000	0.000	0.000	0.000	0.000	0.026
SSE	0.000	0.000	0.012	0.015	0.017	0.000	0.000	0.000	0.000	0.045
S	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.008
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	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	0.002	0.040	0.000	0.000	0.000	0.000	0.000	0.042
SUBTOTAL	0.000	0.009	0.146	0.290	0.026	0.000	0.000	0.000	0.000	0.471

TOTAL HOURS OF VALID OBSERVATIONS 2134.000
TOTAL HOURS OF GROUND LEVEL RELEASE 231.340
TOTAL HOURS OF STABILITY CLASS G 105.920
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 10.050
METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2022/01/26

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 A (DELTA T<=-1.9 C/100 M)
 BROWNS FERRY NUCLEAR PLANT
 PART 2 OF 2 ELEVATED RELEASE MODE

OCT 1, 2021 - DEC 31, 2021

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

TOTAL HOURS OF VALID OBSERVATIONS 2134.000
 TOTAL HOURS OF ELEVATED RELEASES 1902.660
 TOTAL HOURS OF STABILITY CLASS A 12.490
 TOTAL HOURS OF ELEVATED STABILITY CLASS A 0.000
 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: 2022/01/26

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 2 OF 2 ELEVATED RELEASE MODE

OCT 1, 2021 - DEC 31, 2021

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	0.000	0.000	0.000	0.084	0.000	0.000	0.084
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.000	0.084	0.000	0.000	0.000	0.084

TOTAL HOURS OF VALID OBSERVATIONS 2134.000
 TOTAL HOURS OF ELEVATED RELEASES 1902.660
 TOTAL HOURS OF STABILITY CLASS B 7.860
 TOTAL HOURS OF ELEVATED STABILITY CLASS B 1.800
 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: 2022/01/26

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 2 OF 2 ELEVATED RELEASE MODE

OCT 1, 2021 - DEC 31, 2021

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	0.200	0.039	0.067	0.000	0.306
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	0.044	0.000	0.000	0.032	0.000	0.075
SSE	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.045
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.168	0.000	0.000	0.000	0.168
SW	0.000	0.000	0.000	0.000	0.000	0.043	0.000	0.000	0.000	0.043
WSW	0.000	0.000	0.000	0.000	0.000	0.041	0.000	0.000	0.000	0.041
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	0.189	0.000	0.000	0.189
SUBTOTAL	0.000	0.000	0.000	0.000	0.089	0.451	0.228	0.099	0.000	0.868

TOTAL HOURS OF VALID OBSERVATIONS 2134.000

TOTAL HOURS OF ELEVATED RELEASES 1902.660

TOTAL HOURS OF STABILITY CLASS C 26.650

TOTAL HOURS OF ELEVATED STABILITY CLASS C 18.520

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: 2022/01/26

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

BROWNS FERRY NUCLEAR PLANT
PART 2 OF 2 ELEVATED RELEASE MODE

OCT 1, 2021 - DEC 31, 2021

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	0.187	0.000	0.089	1.224	1.187	0.000	0.000	2.687
NNE	0.000	0.000	0.047	0.234	0.582	1.256	0.039	0.000	0.000	2.157
NE	0.000	0.000	0.047	0.281	0.273	0.125	0.000	0.000	0.000	0.725
ENE	0.000	0.000	0.047	0.328	0.136	0.043	0.000	0.000	0.000	0.554
E	0.000	0.000	0.141	0.094	0.229	0.000	0.000	0.000	0.000	0.463
ESE	0.000	0.000	0.187	0.562	0.685	0.506	0.077	0.000	0.000	2.017
SE	0.000	0.000	0.328	0.890	0.899	0.940	0.346	0.128	0.011	3.542
SSE	0.000	0.000	0.281	0.422	0.581	0.951	0.835	0.159	0.000	3.228
S	0.000	0.000	0.328	0.328	0.414	1.143	1.409	0.203	0.000	3.825
SSW	0.000	0.047	0.234	0.515	0.452	0.733	0.908	0.280	0.000	3.170
SW	0.000	0.000	0.281	0.422	0.271	0.665	0.155	0.000	0.000	1.794
WSW	0.000	0.094	0.094	0.328	0.270	0.321	0.038	0.000	0.000	1.145
W	0.000	0.000	0.047	0.375	0.717	0.805	0.423	0.000	0.000	2.366
WNW	0.000	0.000	0.000	0.281	0.357	1.283	0.307	0.168	0.000	2.396
NW	0.000	0.000	0.000	0.187	0.591	0.538	0.648	0.208	0.000	2.172
NNW	0.000	0.000	0.141	0.047	0.366	0.987	0.841	0.105	0.000	2.487
SUBTOTAL	0.000	0.141	2.390	5.295	6.911	11.518	7.212	1.251	0.011	34.729

TOTAL HOURS OF VALID OBSERVATIONS 2134.000
TOTAL HOURS OF ELEVATED RELEASES 1902.660
TOTAL HOURS OF STABILITY CLASS D 811.160
TOTAL HOURS OF ELEVATED STABILITY CLASS D 741.110
METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2022/01/26

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

BROWNS FERRY NUCLEAR PLANT
PART 2 OF 2 ELEVATED RELEASE MODE

OCT 1, 2021 - DEC 31, 2021

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.047	0.328	0.814	0.737	0.231	0.000	0.000	2.157
NNE	0.000	0.000	0.141	0.047	0.534	1.408	0.000	0.000	0.000	2.129
NE	0.000	0.000	0.000	0.375	0.503	0.369	0.000	0.000	0.000	1.247
ENE	0.000	0.047	0.047	0.187	0.269	0.251	0.000	0.000	0.000	0.801
E	0.000	0.000	0.094	0.187	0.451	0.213	0.000	0.000	0.000	0.945
ESE	0.000	0.000	0.281	0.562	0.446	0.907	0.231	0.000	0.000	2.427
SE	0.000	0.047	0.281	0.515	0.773	1.765	1.101	0.087	0.000	4.568
SSE	0.000	0.000	0.281	0.890	0.762	1.381	1.608	0.233	0.000	5.156
S	0.000	0.047	0.234	0.656	0.450	1.674	2.364	0.518	0.023	5.967
SSW	0.000	0.094	0.187	0.469	0.404	1.058	1.299	0.275	0.009	3.796
SW	0.000	0.000	0.234	0.422	0.139	0.450	0.418	0.104	0.004	1.770
WSW	0.000	0.000	0.094	0.234	0.141	0.043	0.000	0.000	0.000	0.512
W	0.000	0.000	0.094	0.141	0.448	0.379	0.000	0.000	0.000	1.061
WNW	0.000	0.000	0.187	0.094	0.136	0.203	0.038	0.000	0.000	0.659
NW	0.000	0.000	0.047	0.141	0.222	0.654	0.269	0.000	0.000	1.332
NNW	0.000	0.000	0.094	0.094	0.134	1.019	0.270	0.000	0.000	1.611
SUBTOTAL	0.000	0.234	2.343	5.342	6.627	12.513	7.828	1.217	0.037	36.140

TOTAL HOURS OF VALID OBSERVATIONS 2134.000

TOTAL HOURS OF ELEVATED RELEASES 1902.660

TOTAL HOURS OF STABILITY CLASS E 861.850

TOTAL HOURS OF ELEVATED STABILITY CLASS E 771.220

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT

STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS

WIND DIRECTION MEASURED AT 45.74 METER LEVEL

WIND SPEED MEASURED AT 45.74 METER LEVEL

EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2022/01/26

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

OCT 1, 2021 - DEC 31, 2021

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	0.779	0.038	0.000	0.000	0.817
NNE	0.000	0.000	0.047	0.000	0.046	0.652	0.000	0.000	0.000	0.746
NE	0.000	0.000	0.047	0.000	0.092	0.335	0.039	0.000	0.000	0.513
ENE	0.000	0.000	0.047	0.141	0.044	0.039	0.000	0.000	0.000	0.271
E	0.000	0.000	0.094	0.094	0.047	0.044	0.000	0.000	0.000	0.278
ESE	0.000	0.047	0.187	0.281	0.541	0.376	0.000	0.000	0.000	1.433
SE	0.000	0.047	0.422	0.843	1.088	1.003	0.039	0.000	0.000	3.442
SSE	0.000	0.000	0.187	0.234	0.316	0.370	0.153	0.000	0.000	1.261
S	0.000	0.094	0.141	0.328	0.453	0.380	0.077	0.000	0.000	1.472
SSW	0.000	0.000	0.047	0.375	0.137	0.000	0.000	0.000	0.000	0.559
SW	0.000	0.047	0.187	0.187	0.138	0.043	0.000	0.000	0.000	0.602
WSW	0.000	0.047	0.187	0.000	0.000	0.000	0.000	0.000	0.000	0.234
W	0.000	0.000	0.094	0.047	0.000	0.000	0.000	0.000	0.000	0.141
WNW	0.000	0.094	0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.234
NW	0.000	0.000	0.047	0.094	0.000	0.119	0.000	0.000	0.000	0.260
NNW	0.000	0.000	0.047	0.094	0.000	0.403	0.039	0.000	0.000	0.583
SUBTOTAL	0.000	0.375	1.921	2.718	2.903	4.544	0.386	0.000	0.000	12.846

TOTAL HOURS OF VALID OBSERVATIONS 2134.000

TOTAL HOURS OF ELEVATED RELEASES 1902.660

TOTAL HOURS OF STABILITY CLASS F 308.070

TOTAL HOURS OF ELEVATED STABILITY CLASS F 274.140

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: 2022/01/26

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2021 Annual Radioactive Effluent Release Report
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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, 2021 - DEC 31, 2021

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.047	0.047	0.135	0.762	0.078	0.000	0.000	1.068
NNE	0.000	0.000	0.094	0.047	0.223	0.040	0.000	0.000	0.000	0.403
NE	0.000	0.000	0.047	0.000	0.045	0.042	0.000	0.000	0.000	0.133
ENE	0.000	0.000	0.047	0.000	0.090	0.000	0.000	0.000	0.000	0.136
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.047	0.187	0.141	0.093	0.043	0.000	0.000	0.000	0.510
SE	0.000	0.047	0.328	0.094	0.499	0.044	0.000	0.000	0.000	1.011
SSE	0.000	0.000	0.094	0.141	0.183	0.000	0.000	0.000	0.000	0.417
S	0.000	0.000	0.047	0.094	0.045	0.000	0.000	0.000	0.000	0.186
SSW	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047
SW	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047
WSW	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.094
NW	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047
NNW	0.000	0.000	0.047	0.094	0.045	0.121	0.039	0.000	0.000	0.346
SUBTOTAL	0.000	0.094	1.218	0.656	1.357	1.051	0.117	0.000	0.000	4.493

TOTAL HOURS OF VALID OBSERVATIONS 2134.000

TOTAL HOURS OF ELEVATED RELEASES 1902.660

TOTAL HOURS OF STABILITY CLASS G 105.920

TOTAL HOURS OF ELEVATED STABILITY CLASS G 95.870

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: 2022/01/26

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
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Table 8-A Elevated Releases - 1st Quarter JFD

Joint Frequency Distribution In Percent

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 STA 52 D - Validated Edited Data

JAN 1, 2021 - MAR 31, 2021

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		
0.000	N	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	0.055	0.000	0.055
	NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	SSE	0.000	0.000	0.000	0.000	0.055	0.000	0.000	0.000	0.000	0.055
	S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	SUBTOTAL	0.000	0.000	0.000	0.000	0.055	0.000	0.000	0.055	0.000	0.111

TOTAL HOURS OF VALID STABILITY OBSERVATIONS

2148

TOTAL HOURS OF STABILITY CLASS A

2

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A

2

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS

1808

TOTAL HOURS CALM

0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS

WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2021/04/21

MEAN WIND SPEED = 12.55

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 STA 52 D - Validated Edited Data

JAN 1, 2021 - MAR 31, 2021

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	0.055	0.055	0.000	0.000	0.111
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.000	0.000	0.055
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	0.055	0.111	0.000	0.000	0.000	0.166
SSE	0.000	0.000	0.000	0.000	0.055	0.055	0.000	0.000	0.000	0.111
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	0.111	0.000	0.000	0.111
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.000	0.000	0.055
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	0.111	0.221	0.277	0.000	0.000	0.608

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2148
TOTAL HOURS OF STABILITY CLASS B	11
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	11
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	1808
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2021/04/21

MEAN WIND SPEED = 12.02

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 STA 52 D - Validated Edited Data

JAN 1, 2021 - MAR 31, 2021

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	0.221	0.111	0.000	0.000	0.332
NNE	0.000	0.000	0.000	0.000	0.000	0.055	0.387	0.000	0.000	0.442
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.055	0.000	0.111
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	0.055	0.055	0.000	0.055	0.000	0.166
SE	0.000	0.000	0.000	0.000	0.055	0.000	0.055	0.000	0.000	0.111
SSE	0.000	0.000	0.000	0.000	0.055	0.000	0.000	0.000	0.000	0.055
S	0.000	0.000	0.000	0.000	0.055	0.000	0.000	0.000	0.000	0.055
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.111	0.000	0.000	0.111
SW	0.000	0.000	0.000	0.000	0.000	0.111	0.055	0.000	0.000	0.166
WSW	0.000	0.000	0.000	0.000	0.000	0.055	0.111	0.055	0.000	0.221
W	0.000	0.000	0.000	0.000	0.000	0.000	0.111	0.000	0.000	0.111
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.000	0.000	0.055
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.000	0.055
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.111	0.000	0.000	0.111
SUBTOTAL	0.000	0.000	0.000	0.000	0.221	0.498	1.162	0.221	0.000	2.102

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2148
TOTAL HOURS OF STABILITY CLASS C	45
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	38
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	1808
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2021/04/21

MEAN WIND SPEED = 13.88

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 STA 52 D - Validated Edited Data

JAN 1, 2021 - MAR 31, 2021

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	0.055	0.111	0.332	1.936	1.327	0.332	0.000	4.093
NNE	0.000	0.000	0.000	0.387	0.719	2.765	1.327	0.277	0.000	5.476
NE	0.000	0.000	0.111	0.277	0.277	1.438	0.166	0.166	0.000	2.434
ENE	0.000	0.000	0.111	0.332	0.442	0.608	0.055	0.000	0.000	1.549
E	0.000	0.000	0.055	0.111	0.332	0.498	0.553	0.055	0.000	1.604
ESE	0.000	0.000	0.111	0.498	0.332	0.885	0.774	0.332	0.055	2.987
SE	0.000	0.000	0.166	0.332	0.221	0.387	0.885	0.277	0.221	2.489
SSE	0.000	0.000	0.055	0.221	0.166	0.277	0.111	0.055	0.000	0.885
S	0.000	0.000	0.166	0.055	0.055	0.553	0.608	0.498	0.000	1.936
SSW	0.000	0.000	0.111	0.221	0.166	0.664	0.498	0.000	0.000	1.659
SW	0.000	0.000	0.166	0.111	0.277	0.553	0.166	0.055	0.000	1.327
WSW	0.000	0.000	0.166	0.442	0.442	0.442	0.608	0.442	0.000	2.544
W	0.000	0.000	0.166	0.553	0.442	1.383	1.991	1.217	0.000	5.752
WNW	0.000	0.000	0.166	0.387	0.442	1.272	0.940	0.442	0.166	3.816
NW	0.000	0.000	0.221	0.277	0.221	1.051	0.830	2.212	0.498	5.310
NNW	0.000	0.055	0.277	0.221	0.166	1.106	1.715	0.442	0.000	3.982
SUBTOTAL	0.000	0.055	2.102	4.535	5.033	15.819	12.555	6.803	0.940	47.843

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2148
TOTAL HOURS OF STABILITY CLASS D 1091
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 865
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 1808
TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2021/04/21

MEAN WIND SPEED = 11.96

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 STA 52 D - Validated Edited Data

JAN 1, 2021 - MAR 31, 2021

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	0.055	0.000	0.055	0.498	0.664	0.000	0.000	1.272
NNE	0.000	0.000	0.055	0.166	0.055	1.549	0.885	0.111	0.000	2.821
NE	0.000	0.000	0.111	0.000	0.221	0.996	0.774	0.000	0.000	2.102
ENE	0.000	0.000	0.055	0.111	0.166	0.277	0.332	0.000	0.000	0.940
E	0.000	0.000	0.000	0.221	0.055	0.277	0.553	0.055	0.000	1.162
ESE	0.000	0.000	0.000	0.111	0.111	0.387	0.830	0.387	0.055	1.881
SE	0.000	0.000	0.000	0.221	0.166	0.885	1.936	0.664	0.498	4.369
SSE	0.000	0.000	0.000	0.055	0.000	0.830	1.604	0.498	0.442	3.429
S	0.000	0.055	0.055	0.055	0.055	0.996	2.102	1.936	0.885	6.139
SSW	0.000	0.000	0.055	0.111	0.166	0.830	0.719	0.996	0.664	3.540
SW	0.000	0.000	0.221	0.055	0.166	0.830	0.332	0.055	0.000	1.659
WSW	0.000	0.000	0.111	0.221	0.332	0.719	0.387	0.221	0.055	2.046
W	0.000	0.000	0.000	0.111	0.055	0.664	0.553	0.221	0.000	1.604
WNW	0.000	0.000	0.111	0.055	0.166	0.332	0.221	0.000	0.000	0.885
NW	0.000	0.000	0.000	0.111	0.055	0.442	0.221	0.055	0.000	0.885
NNW	0.000	0.055	0.055	0.000	0.111	0.332	0.498	0.055	0.000	1.106
SUBTOTAL	0.000	0.111	0.885	1.604	1.936	10.841	12.611	5.254	2.600	35.841

TOTAL HOURS OF VALID STABILITY OBSERVATIONS

2148

TOTAL HOURS OF STABILITY CLASS E

723

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E

648

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS

1808

TOTAL HOURS CALM

0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS

WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2021/04/21

MEAN WIND SPEED = 14.15

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

Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

JAN 1, 2021 - MAR 31, 2021

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	0.055	0.000	0.055	0.166	0.000	0.000	0.277
NNE	0.000	0.000	0.000	0.000	0.055	0.166	0.664	0.000	0.000	0.885
NE	0.000	0.000	0.000	0.000	0.055	0.332	0.221	0.000	0.000	0.608
ENE	0.000	0.000	0.000	0.000	0.111	0.111	0.166	0.000	0.000	0.387
E	0.000	0.000	0.000	0.000	0.166	0.111	0.000	0.000	0.000	0.277
ESE	0.000	0.000	0.111	0.000	0.055	0.111	0.055	0.000	0.000	0.332
SE	0.000	0.000	0.000	0.055	0.000	0.111	0.277	0.000	0.000	0.442
SSE	0.000	0.000	0.055	0.111	0.055	0.608	1.051	0.277	0.111	2.268
S	0.000	0.000	0.000	0.166	0.111	0.442	0.608	0.608	0.111	2.046
SSW	0.000	0.000	0.111	0.166	0.000	0.166	0.498	0.000	0.000	0.940
SW	0.000	0.000	0.000	0.000	0.055	0.277	0.055	0.000	0.000	0.387
WSW	0.000	0.000	0.111	0.111	0.000	0.111	0.055	0.000	0.000	0.387
W	0.000	0.000	0.111	0.055	0.111	0.055	0.055	0.000	0.000	0.387
WNW	0.000	0.000	0.000	0.055	0.000	0.000	0.000	0.000	0.000	0.055
NW	0.000	0.000	0.055	0.055	0.000	0.111	0.000	0.000	0.000	0.221
NNW	0.000	0.000	0.000	0.000	0.055	0.166	0.000	0.000	0.000	0.221
SUBTOTAL	0.000	0.000	0.553	0.830	0.830	2.931	3.872	0.885	0.221	10.122

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2148
TOTAL HOURS OF STABILITY CLASS F	212
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	183
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	1808
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2021/04/21

MEAN WIND SPEED = 12.27

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
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JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

JAN 1, 2021 - MAR 31, 2021

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	0.055	0.000	0.000	0.000	0.055
NE	0.000	0.000	0.055	0.000	0.000	0.166	0.166	0.000	0.000	0.387
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	0.055	0.055	0.055	0.111	0.000	0.000	0.000	0.277
ESE	0.000	0.000	0.055	0.000	0.000	0.055	0.055	0.000	0.000	0.166
SE	0.000	0.000	0.055	0.055	0.000	0.111	0.111	0.000	0.000	0.332
SSE	0.000	0.000	0.000	0.055	0.221	0.055	0.055	0.000	0.000	0.387
S	0.000	0.000	0.000	0.055	0.055	0.277	0.166	0.000	0.000	0.553
SSW	0.000	0.000	0.000	0.055	0.000	0.166	0.221	0.000	0.000	0.442
SW	0.000	0.000	0.055	0.000	0.000	0.166	0.000	0.000	0.000	0.221
WSW	0.000	0.000	0.000	0.055	0.000	0.000	0.000	0.000	0.000	0.055
W	0.000	0.000	0.111	0.000	0.000	0.000	0.000	0.000	0.000	0.111
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	0.111	0.000	0.000	0.000	0.111
NNW	0.000	0.000	0.000	0.055	0.000	0.221	0.000	0.000	0.000	0.277
SUBTOTAL	0.000	0.000	0.387	0.387	0.332	1.493	0.774	0.000	0.000	3.374

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2148
TOTAL HOURS OF STABILITY CLASS G	64
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	61
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	1808
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2021/04/21

MEAN WIND SPEED = 9.44

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
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Table 8-B Elevated Releases - 2nd Quarter JFD

Joint Frequency Distribution In Percent

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

APR 1, 2021 - JUN 30, 2021

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	0.000	0.000	0.052	0.052	0.000	0.000	0.104
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.052	0.052	0.000	0.000	0.104
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.000	0.104	0.104	0.000	0.000	0.208

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2174
 TOTAL HOURS OF STABILITY CLASS A 4
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 4
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 1921
 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: 2021/07/20

MEAN WIND SPEED = 12.83

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
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JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

APR 1, 2021 - JUN 30, 2021

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	0.052	0.052	0.000	0.000	0.104
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	0.052	0.052	0.000	0.052	0.000	0.156
SSE	0.000	0.000	0.000	0.000	0.052	0.052	0.052	0.000	0.000	0.156
S	0.000	0.000	0.000	0.000	0.052	0.000	0.000	0.000	0.000	0.052
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	0.052	0.000	0.000	0.000	0.052
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	0.052	0.000	0.000	0.052
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.052	0.000	0.000	0.052
SUBTOTAL	0.000	0.000	0.000	0.000	0.156	0.208	0.208	0.052	0.000	0.625

TOTAL HOURS OF VALID STABILITY OBSERVATIONS

2174

TOTAL HOURS OF STABILITY CLASS B

16

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B

12

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS

1921

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: 2021/07/20

MEAN WIND SPEED = 11.78

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, 2021 - JUN 30, 2021

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	0.104	0.208	0.000	0.000	0.312
NNE	0.000	0.000	0.000	0.000	0.000	0.052	0.260	0.000	0.000	0.312
NE	0.000	0.000	0.000	0.000	0.000	0.104	0.000	0.000	0.000	0.104
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	0.052	0.104	0.000	0.000	0.000	0.156
SE	0.000	0.000	0.000	0.000	0.052	0.260	0.156	0.208	0.052	0.729
SSE	0.000	0.000	0.000	0.052	0.208	0.156	0.156	0.104	0.000	0.677
S	0.000	0.000	0.000	0.000	0.052	0.260	0.052	0.000	0.000	0.364
SSW	0.000	0.000	0.000	0.104	0.000	0.000	0.000	0.000	0.000	0.104
SW	0.000	0.000	0.000	0.000	0.052	0.156	0.000	0.000	0.000	0.208
WSW	0.000	0.000	0.000	0.000	0.000	0.052	0.000	0.000	0.000	0.052
W	0.000	0.000	0.000	0.000	0.052	0.104	0.364	0.052	0.000	0.573
WNW	0.000	0.000	0.000	0.000	0.000	0.052	0.052	0.000	0.000	0.104
NW	0.000	0.000	0.000	0.000	0.000	0.052	0.052	0.000	0.000	0.104
NNW	0.000	0.000	0.000	0.000	0.000	0.052	0.156	0.000	0.000	0.208
SUBTOTAL	0.000	0.000	0.000	0.156	0.469	1.510	1.458	0.364	0.052	4.008

TOTAL HOURS OF VALID STABILITY OBSERVATIONS

2174

TOTAL HOURS OF STABILITY CLASS C

85

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C

77

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS

1921

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: 2021/07/20

MEAN WIND SPEED = 12.36

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, 2021 - JUN 30, 2021

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	0.052	0.312	0.104	1.406	1.145	0.000	0.000	3.019
NNE	0.000	0.000	0.052	0.208	0.521	1.301	0.677	0.104	0.000	2.863
NE	0.000	0.000	0.104	0.052	0.052	0.521	0.104	0.000	0.000	0.833
ENE	0.000	0.000	0.052	0.208	0.156	0.156	0.052	0.000	0.000	0.625
E	0.000	0.000	0.156	0.052	0.000	0.156	0.156	0.000	0.000	0.521
ESE	0.000	0.052	0.312	0.364	0.521	0.885	0.521	0.885	0.364	3.904
SE	0.000	0.000	0.156	0.781	0.573	2.030	1.770	1.822	0.364	7.496
SSE	0.000	0.000	0.260	0.781	0.469	1.145	2.655	0.885	0.000	6.195
S	0.000	0.000	0.469	0.364	0.833	2.030	1.614	0.521	0.052	5.882
SSW	0.000	0.000	0.156	0.156	0.625	1.614	1.041	0.781	0.000	4.373
SW	0.000	0.000	0.208	0.208	0.364	1.770	1.145	0.260	0.000	3.956
WSW	0.000	0.000	0.208	0.573	0.521	1.249	0.937	0.052	0.000	3.540
W	0.000	0.000	0.156	0.573	1.145	1.353	0.469	0.156	0.000	3.852
WNW	0.000	0.000	0.052	0.260	0.729	2.186	0.729	0.052	0.052	4.060
NW	0.000	0.000	0.156	0.312	0.469	1.197	0.521	0.312	0.156	3.123
NNW	0.000	0.000	0.052	0.052	0.208	1.458	1.718	0.208	0.052	3.748
SUBTOTAL	0.000	0.052	2.603	5.258	7.288	20.458	15.252	6.039	1.041	57.991

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2174
TOTAL HOURS OF STABILITY CLASS D 1201
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 1114
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 1921
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: 2021/07/20

MEAN WIND SPEED = 11.44

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

APR 1, 2021 - JUN 30, 2021

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	0.104	0.312	0.416	1.197	0.000	0.000	2.030
NNE	0.000	0.000	0.000	0.000	0.104	0.521	0.573	0.000	0.000	1.197
NE	0.000	0.000	0.000	0.156	0.156	0.364	0.260	0.052	0.000	0.989
ENE	0.000	0.000	0.052	0.000	0.156	0.104	0.312	0.052	0.000	0.677
E	0.000	0.000	0.104	0.000	0.000	0.104	0.000	0.000	0.000	0.208
ESE	0.000	0.000	0.052	0.156	0.104	0.104	1.249	0.416	0.000	2.082
SE	0.000	0.000	0.052	0.208	0.260	1.197	1.197	0.260	0.052	3.227
SSE	0.000	0.000	0.000	0.156	0.208	0.573	1.353	0.312	0.052	2.655
S	0.000	0.000	0.000	0.104	0.416	0.729	1.093	0.469	0.000	2.811
SSW	0.000	0.052	0.052	0.156	0.208	0.312	0.989	0.000	0.000	1.770
SW	0.000	0.000	0.052	0.104	0.052	0.364	0.364	0.104	0.000	1.041
WSW	0.000	0.052	0.208	0.208	0.260	0.416	0.885	0.000	0.000	2.030
W	0.000	0.000	0.156	0.260	0.000	0.260	0.260	0.000	0.000	0.937
WNW	0.000	0.000	0.000	0.052	0.104	0.052	0.052	0.000	0.000	0.260
NW	0.000	0.000	0.156	0.156	0.208	0.000	0.104	0.000	0.000	0.625
NNW	0.000	0.052	0.000	0.104	0.260	0.469	0.469	0.000	0.000	1.353
SUBTOTAL	0.000	0.156	0.885	1.926	2.811	5.986	10.359	1.666	0.104	23.894

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2174
 TOTAL HOURS OF STABILITY CLASS E 519
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 459
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 1921
 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: 2021/07/20

MEAN WIND SPEED = 11.90

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
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JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

APR 1, 2021 - JUN 30, 2021

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	0.000	0.208	0.729	0.000	0.000	0.989
NNE	0.000	0.052	0.156	0.052	0.104	0.208	0.573	0.208	0.000	1.353
NE	0.000	0.000	0.000	0.000	0.000	0.208	0.156	0.104	0.000	0.469
ENE	0.000	0.052	0.000	0.052	0.000	0.104	0.052	0.052	0.000	0.312
E	0.000	0.000	0.052	0.052	0.052	0.052	0.000	0.000	0.000	0.208
ESE	0.000	0.000	0.156	0.104	0.104	0.260	0.260	0.000	0.000	0.885
SE	0.000	0.000	0.104	0.208	0.156	0.677	0.156	0.000	0.000	1.301
SSE	0.000	0.000	0.000	0.052	0.104	0.469	0.416	0.000	0.000	1.041
S	0.000	0.000	0.052	0.104	0.000	0.312	0.521	0.000	0.000	0.989
SSW	0.000	0.000	0.000	0.156	0.000	0.000	0.208	0.000	0.000	0.364
SW	0.000	0.052	0.052	0.000	0.000	0.000	0.052	0.000	0.000	0.156
WSW	0.000	0.000	0.052	0.156	0.000	0.104	0.156	0.000	0.000	0.469
W	0.000	0.000	0.000	0.052	0.052	0.000	0.052	0.000	0.000	0.156
WNW	0.000	0.000	0.000	0.052	0.052	0.000	0.000	0.000	0.000	0.104
NW	0.000	0.000	0.000	0.104	0.000	0.156	0.000	0.000	0.000	0.260
NNW	0.000	0.052	0.000	0.156	0.000	0.364	0.260	0.052	0.000	0.885
SUBTOTAL	0.000	0.208	0.625	1.353	0.625	3.123	3.592	0.416	0.000	9.943

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2174
TOTAL HOURS OF STABILITY CLASS F	259
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	191
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	1921
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: 2021/07/20

MEAN WIND SPEED = 10.65

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
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JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

APR 1, 2021 - JUN 30, 2021

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	0.052	0.000	0.052	0.000	0.156	0.000	0.000	0.260
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.208	0.260	0.000	0.469
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.208	0.000	0.208
ENE	0.000	0.000	0.000	0.052	0.000	0.000	0.000	0.000	0.000	0.052
E	0.000	0.000	0.052	0.000	0.000	0.104	0.000	0.000	0.000	0.156
ESE	0.000	0.000	0.156	0.156	0.052	0.000	0.000	0.000	0.000	0.364
SE	0.000	0.000	0.052	0.000	0.000	0.104	0.000	0.000	0.000	0.156
SSE	0.000	0.000	0.052	0.052	0.052	0.156	0.000	0.000	0.000	0.312
S	0.000	0.000	0.000	0.000	0.000	0.104	0.000	0.000	0.000	0.104
SSW	0.000	0.000	0.104	0.104	0.052	0.000	0.000	0.000	0.000	0.260
SW	0.000	0.052	0.104	0.052	0.052	0.104	0.000	0.000	0.000	0.364
WSW	0.000	0.000	0.052	0.052	0.052	0.052	0.000	0.000	0.000	0.208
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	0.052	0.104	0.000	0.052	0.000	0.000	0.000	0.208
NW	0.000	0.000	0.052	0.000	0.000	0.052	0.000	0.000	0.000	0.104
NNW	0.000	0.000	0.052	0.000	0.000	0.052	0.000	0.000	0.000	0.104
SUBTOTAL	0.000	0.052	0.781	0.573	0.312	0.781	0.364	0.469	0.000	3.332

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2174
TOTAL HOURS OF STABILITY CLASS G	90
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	64
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	1921
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: 2021/07/20

MEAN WIND SPEED = 8.68

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
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Table 8-C Elevated Releases - 3rd Quarter JFD

Joint Frequency Distribution In Percent

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 STA 52 D - Validated Edited Data

JUL 1, 2021 - SEP 30, 2021

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200
 TOTAL HOURS OF STABILITY CLASS A 0
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 0
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2198
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2021/10/14

MEAN WIND SPEED = 0.00

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

Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

JUL 1, 2021 - SEP 30, 2021

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	0.000	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	0.045	0.000	0.045	0.182	0.000	0.000	0.273
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.045	0.000	0.045	0.000	0.000	0.000	0.091
SSW	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.045
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.045
WNW	0.000	0.000	0.000	0.000	0.000	0.000	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	0.136	0.000	0.000	0.136
SUBTOTAL	0.000	0.000	0.000	0.091	0.045	0.136	0.364	0.000	0.000	0.637

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200

TOTAL HOURS OF STABILITY CLASS B 14

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 14

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2198

TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2021/10/14

MEAN WIND SPEED = 11.61

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 STA 52 D - Validated Edited Data

JUL 1, 2021 - SEP 30, 2021

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	0.273	0.091	0.000	0.000	0.364
NNE	0.000	0.000	0.000	0.000	0.000	0.136	0.091	0.000	0.000	0.227
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	0.045	0.000	0.000	0.045
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.091	0.136	0.000	0.000	0.227
SE	0.000	0.000	0.045	0.091	0.000	0.182	0.182	0.000	0.000	0.500
SSE	0.000	0.000	0.045	0.045	0.000	0.000	0.000	0.091	0.000	0.182
S	0.000	0.000	0.000	0.045	0.091	0.182	0.000	0.000	0.000	0.318
SSW	0.000	0.000	0.045	0.045	0.045	0.045	0.045	0.000	0.000	0.227
SW	0.000	0.000	0.000	0.318	0.045	0.045	0.045	0.000	0.000	0.455
WSW	0.000	0.000	0.045	0.091	0.136	0.045	0.000	0.000	0.000	0.318
W	0.000	0.000	0.000	0.000	0.045	0.182	0.000	0.000	0.000	0.227
WNW	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.045
NW	0.000	0.000	0.000	0.000	0.000	0.136	0.000	0.091	0.000	0.227
NNW	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.045
SUBTOTAL	0.000	0.000	0.182	0.637	0.364	1.410	0.637	0.182	0.000	3.412

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200
TOTAL HOURS OF STABILITY CLASS C 76
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 75
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2198
TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS
WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2021/10/14

MEAN WIND SPEED = 9.57

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

Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

JUL 1, 2021 - SEP 30, 2021

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	0.136	0.409	1.456	0.227	0.000	0.000	2.229
NNE	0.000	0.045	0.000	0.318	0.955	1.592	0.182	0.000	0.000	3.094
NE	0.000	0.000	0.182	0.318	0.409	0.364	0.136	0.000	0.000	1.410
ENE	0.000	0.000	0.227	0.091	0.136	0.318	0.045	0.000	0.000	0.819
E	0.000	0.000	0.364	0.182	0.182	0.455	0.136	0.091	0.182	1.592
ESE	0.000	0.000	0.273	0.364	0.773	1.729	1.046	0.045	0.045	4.277
SE	0.000	0.000	0.409	1.001	0.728	1.865	1.592	0.455	0.045	6.096
SSE	0.000	0.045	1.001	1.092	0.455	1.683	0.955	0.045	0.000	5.278
S	0.000	0.000	0.955	0.910	1.456	2.548	1.092	0.273	0.000	7.234
SSW	0.000	0.091	0.910	1.183	1.410	1.183	0.773	0.045	0.000	5.596
SW	0.000	0.045	1.046	1.001	0.864	0.773	0.273	0.000	0.000	4.004
WSW	0.000	0.000	0.546	1.729	1.092	0.773	0.045	0.000	0.000	4.186
W	0.000	0.000	0.227	0.682	1.046	0.819	0.000	0.000	0.000	2.775
WNW	0.000	0.000	0.091	0.318	0.455	0.910	0.591	0.273	0.045	2.684
NW	0.000	0.045	0.136	0.182	0.273	0.500	0.409	0.273	0.000	1.820
NNW	0.000	0.000	0.091	0.136	0.136	0.409	0.318	0.091	0.000	1.183
SUBTOTAL	0.000	0.273	6.460	9.645	10.783	17.379	7.825	1.592	0.318	54.277

TOTAL HOURS OF VALID STABILITY OBSERVATIONS

2200

TOTAL HOURS OF STABILITY CLASS D

1194

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D

1193

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS

2198

TOTAL HOURS CALM

0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS

WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2021/10/14

MEAN WIND SPEED = 8.39

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 STA 52 D - Validated Edited Data

JUL 1, 2021 - SEP 30, 2021

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	0.001	0.000	0.045	0.227	0.136	0.637	0.364	0.182	0.000	1.593
NNE	0.000	0.000	0.000	0.136	0.455	1.137	1.046	0.091	0.000	2.866
NE	0.001	0.000	0.045	0.227	0.273	0.728	0.136	0.000	0.000	1.411
ENE	0.002	0.000	0.136	0.136	0.182	0.546	0.045	0.000	0.000	1.048
E	0.003	0.000	0.182	0.273	0.227	0.591	0.182	0.000	0.000	1.459
ESE	0.003	0.000	0.227	0.227	0.182	1.547	1.001	0.000	0.000	3.188
SE	0.003	0.000	0.227	0.318	0.637	2.138	0.318	0.000	0.000	3.643
SSE	0.006	0.000	0.409	0.455	0.955	1.274	0.136	0.000	0.000	3.236
S	0.006	0.045	0.364	0.546	0.546	0.773	0.409	0.091	0.000	2.781
SSW	0.004	0.000	0.273	0.273	0.409	0.728	0.637	0.091	0.000	2.415
SW	0.003	0.045	0.136	0.182	0.273	0.091	0.000	0.000	0.000	0.731
WSW	0.003	0.000	0.227	0.273	0.045	0.045	0.045	0.000	0.000	0.640
W	0.003	0.000	0.182	0.182	0.091	0.227	0.000	0.000	0.000	0.685
WNW	0.005	0.000	0.318	0.273	0.364	0.273	0.045	0.000	0.000	1.279
NW	0.001	0.000	0.091	0.136	0.091	0.182	0.091	0.000	0.000	0.593
NNW	0.001	0.000	0.091	0.000	0.000	0.227	0.091	0.136	0.000	0.547
SUBTOTAL	0.045	0.091	2.957	3.867	4.868	11.146	4.550	0.591	0.000	28.116

TOTAL HOURS OF VALID STABILITY OBSERVATIONS

2200

TOTAL HOURS OF STABILITY CLASS E

618

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E

618

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS

2198

TOTAL HOURS CALM

1

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data

STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS

WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2021/10/14

MEAN WIND SPEED = 8.68

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 STA 52 D - Validated Edited Data

JUL 1, 2021 - SEP 30, 2021

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	0.182	0.273	0.364	0.182	0.045	0.000	1.137
NNE	0.000	0.000	0.091	0.091	0.273	0.318	0.546	0.000	0.000	1.319
NE	0.000	0.000	0.045	0.000	0.045	0.227	0.409	0.045	0.000	0.773
ENE	0.000	0.045	0.136	0.091	0.136	0.364	0.091	0.000	0.000	0.864
E	0.000	0.000	0.091	0.000	0.091	0.409	0.045	0.000	0.000	0.637
ESE	0.000	0.000	0.045	0.182	0.227	0.182	0.091	0.000	0.000	0.728
SE	0.000	0.091	0.273	0.091	0.273	0.273	0.000	0.000	0.000	1.001
SSE	0.000	0.045	0.273	0.273	0.364	0.273	0.000	0.000	0.000	1.228
S	0.000	0.045	0.091	0.182	0.500	0.182	0.136	0.000	0.000	1.137
SSW	0.000	0.045	0.136	0.091	0.227	0.136	0.227	0.000	0.000	0.864
SW	0.000	0.045	0.091	0.045	0.045	0.045	0.000	0.000	0.000	0.273
WSW	0.000	0.045	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.182
W	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.045
WNW	0.000	0.000	0.045	0.000	0.045	0.000	0.000	0.000	0.000	0.091
NW	0.000	0.000	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.091
NNW	0.000	0.045	0.136	0.045	0.000	0.091	0.318	0.000	0.000	0.637
SUBTOTAL	0.000	0.409	1.729	1.319	2.548	2.866	2.047	0.091	0.000	11.010

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2200
 TOTAL HOURS OF STABILITY CLASS F 242
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 242
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2198
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2021/10/14

MEAN WIND SPEED = 7.99

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 STA 52 D - Validated Edited Data

JUL 1, 2021 - SEP 30, 2021

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	0.045	0.000	0.000	0.000	0.227	0.000	0.000	0.318
NNE	0.000	0.000	0.000	0.000	0.000	0.045	0.227	0.045	0.000	0.318
NE	0.000	0.000	0.000	0.045	0.045	0.227	0.227	0.000	0.000	0.546
ENE	0.000	0.000	0.045	0.045	0.000	0.273	0.000	0.000	0.000	0.364
E	0.000	0.045	0.045	0.000	0.091	0.227	0.000	0.000	0.000	0.409
ESE	0.000	0.045	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.091
SE	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.091
SSE	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.091
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.045
SW	0.000	0.000	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.091
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.045
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.045
SUBTOTAL	0.000	0.136	0.455	0.273	0.182	0.773	0.682	0.045	0.000	2.548

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2200
TOTAL HOURS OF STABILITY CLASS G	56
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	56
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2198
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Browns Ferry Nuclear Plant STA 52 D - Validated Edited Data
 STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS
 WIND SPEED AND DIRECTION MEASURED AT 90.29 METER LEVEL

DATE PRINTED: 2021/10/14

MEAN WIND SPEED = 8.82

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
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Table 8-D Elevated Releases - 4th Quarter JFD

Joint Frequency Distribution In Percent

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, 2021 - DEC 31, 2021

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
 TOTAL HOURS OF STABILITY CLASS A 0
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 0
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2173
 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: 2022/01/26

MEAN WIND SPEED = 0.00

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

BROWNS FERRY NUCLEAR PLANT

OCT 1, 2021 - DEC 31, 2021

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	0.046	0.000	0.000	0.000	0.046
SSE	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.092

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198

TOTAL HOURS OF STABILITY CLASS B 2

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 2

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2173

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: 2022/01/26

MEAN WIND SPEED = 9.20

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, 2021 - DEC 31, 2021

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	0.138	0.046	0.092	0.000	0.276
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.092	0.000	0.000	0.092
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	0.046	0.000	0.000	0.046	0.000	0.092
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	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.184	0.000	0.000	0.000	0.184
SW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.046
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.184	0.046	0.000	0.230
SUBTOTAL	0.000	0.000	0.000	0.000	0.092	0.368	0.368	0.184	0.000	1.012

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
TOTAL HOURS OF STABILITY CLASS C 22
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 22
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2173
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: 2022/01/26

MEAN WIND SPEED = 13.45

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

BROWNS FERRY NUCLEAR PLANT

OCT 1, 2021 - DEC 31, 2021

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.092	0.046	0.138	0.828	1.795	0.276	0.000	3.175
NNE	0.000	0.000	0.046	0.322	0.230	1.381	0.368	0.000	0.000	2.347
NE	0.000	0.000	0.092	0.092	0.230	0.552	0.046	0.000	0.000	1.012
ENE	0.000	0.000	0.000	0.138	0.322	0.138	0.000	0.000	0.000	0.598
E	0.000	0.000	0.000	0.138	0.230	0.230	0.000	0.000	0.000	0.598
ESE	0.000	0.000	0.184	0.322	0.644	0.690	0.092	0.000	0.000	1.933
SE	0.000	0.046	0.138	0.368	0.736	0.874	0.506	0.184	0.322	3.175
SSE	0.000	0.000	0.184	0.644	0.230	1.104	0.874	0.368	0.000	3.405
S	0.000	0.000	0.230	0.276	0.322	1.519	2.071	0.598	0.000	5.016
SSW	0.000	0.000	0.322	0.322	0.092	0.828	1.243	0.828	0.046	3.682
SW	0.000	0.000	0.276	0.322	0.276	0.828	0.230	0.000	0.000	1.933
WSW	0.000	0.000	0.322	0.322	0.276	0.368	0.460	0.000	0.000	1.749
W	0.000	0.046	0.000	0.368	0.414	0.552	0.966	0.138	0.000	2.485
WNW	0.000	0.000	0.046	0.276	0.460	1.335	0.644	0.184	0.092	3.037
NW	0.000	0.000	0.046	0.092	0.414	0.736	0.552	0.414	0.092	2.347
NNW	0.000	0.046	0.000	0.092	0.230	0.782	0.966	0.414	0.000	2.531
SUBTOTAL	0.000	0.138	1.979	4.142	5.246	12.747	10.815	3.405	0.552	39.024

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
TOTAL HOURS OF STABILITY CLASS D 851
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 848
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2173
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: 2022/01/26

MEAN WIND SPEED = 11.05

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, 2021 - DEC 31, 2021

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	0.092	0.690	0.782	0.046	0.000	1.703
NNE	0.004	0.000	0.092	0.000	0.138	1.197	1.381	0.000	0.000	2.811
NE	0.002	0.000	0.046	0.092	0.046	0.368	0.276	0.000	0.000	0.830
ENE	0.002	0.000	0.046	0.092	0.276	0.598	0.138	0.000	0.000	1.152
E	0.000	0.000	0.000	0.184	0.138	0.828	0.046	0.000	0.000	1.197
ESE	0.004	0.000	0.092	0.276	0.184	0.828	0.184	0.138	0.000	1.706
SE	0.002	0.000	0.046	0.184	0.276	1.150	1.427	0.552	0.000	3.637
SSE	0.002	0.000	0.046	0.184	0.552	1.519	2.899	0.598	0.000	5.800
S	0.006	0.092	0.046	0.276	0.552	1.611	3.590	1.427	0.506	8.105
SSW	0.011	0.000	0.276	0.460	0.322	1.104	2.669	0.506	0.276	5.625
SW	0.002	0.000	0.046	0.322	0.322	0.736	0.966	0.368	0.046	2.809
WSW	0.004	0.000	0.092	0.138	0.138	0.322	0.230	0.000	0.000	0.924
W	0.002	0.000	0.046	0.046	0.092	0.644	0.184	0.000	0.000	1.014
WNW	0.004	0.000	0.092	0.092	0.184	0.736	0.230	0.000	0.000	1.338
NW	0.002	0.000	0.046	0.184	0.046	0.368	0.460	0.092	0.000	1.198
NNW	0.002	0.000	0.046	0.046	0.184	0.460	0.736	0.046	0.000	1.520
SUBTOTAL	0.046	0.092	1.058	2.669	3.543	13.162	16.199	3.774	0.828	41.371

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2198
TOTAL HOURS OF STABILITY CLASS E	916
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	899
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2173
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: 2022/01/26

MEAN WIND SPEED = 12.55

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, 2021 - DEC 31, 2021

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	0.000	0.046	0.184	0.368	0.138	0.000	0.782
NNE	0.000	0.000	0.138	0.046	0.092	0.322	0.276	0.184	0.000	1.058
NE	0.000	0.000	0.000	0.046	0.000	0.138	0.184	0.092	0.000	0.460
ENE	0.000	0.000	0.092	0.000	0.000	0.276	0.184	0.000	0.000	0.552
E	0.000	0.000	0.000	0.000	0.184	0.000	0.000	0.000	0.000	0.184
ESE	0.000	0.000	0.276	0.046	0.138	0.230	0.000	0.000	0.000	0.690
SE	0.000	0.000	0.092	0.322	0.230	0.828	0.598	0.000	0.000	2.071
SSE	0.000	0.000	0.138	0.322	0.276	1.519	0.552	0.000	0.000	2.807
S	0.000	0.000	0.184	0.046	0.046	0.644	0.598	0.092	0.000	1.611
SSW	0.000	0.046	0.000	0.092	0.276	0.598	0.000	0.000	0.000	1.012
SW	0.000	0.000	0.046	0.092	0.138	0.322	0.000	0.000	0.000	0.598
WSW	0.000	0.000	0.230	0.138	0.138	0.276	0.000	0.000	0.000	0.782
W	0.000	0.000	0.000	0.184	0.046	0.000	0.000	0.000	0.000	0.230
WNW	0.000	0.000	0.184	0.092	0.000	0.000	0.000	0.000	0.000	0.276
NW	0.000	0.000	0.092	0.000	0.046	0.046	0.092	0.000	0.000	0.276
NNW	0.000	0.000	0.000	0.000	0.000	0.092	0.322	0.046	0.000	0.460
SUBTOTAL	0.000	0.046	1.519	1.427	1.657	5.476	3.175	0.552	0.000	13.852

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
TOTAL HOURS OF STABILITY CLASS F 306
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 301
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2173
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: 2022/01/26

MEAN WIND SPEED = 9.65

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2021 Annual Radioactive Effluent Release Report
Meteorological Data**

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, 2021 - DEC 31, 2021

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	0.414	0.138	0.000	0.552
NNE	0.000	0.000	0.000	0.000	0.000	0.092	0.552	0.138	0.000	0.782
NE	0.000	0.046	0.000	0.046	0.000	0.138	0.138	0.000	0.000	0.368
ENE	0.000	0.000	0.046	0.046	0.184	0.092	0.000	0.000	0.000	0.368
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	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
SE	0.000	0.000	0.092	0.138	0.138	0.322	0.046	0.000	0.000	0.736
SSE	0.000	0.000	0.184	0.000	0.138	0.230	0.000	0.000	0.000	0.552
S	0.000	0.000	0.000	0.000	0.046	0.092	0.000	0.000	0.000	0.138
SSW	0.000	0.000	0.000	0.046	0.138	0.000	0.000	0.000	0.000	0.184
SW	0.000	0.000	0.000	0.046	0.092	0.046	0.000	0.000	0.000	0.184
WSW	0.000	0.046	0.000	0.092	0.046	0.000	0.000	0.000	0.000	0.184
W	0.000	0.000	0.000	0.046	0.046	0.046	0.000	0.000	0.000	0.138
WNW	0.000	0.000	0.092	0.046	0.000	0.000	0.000	0.000	0.000	0.138
NW	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.092
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.092	0.046	0.000	0.138
SUBTOTAL	0.000	0.092	0.460	0.552	0.920	1.058	1.243	0.322	0.000	4.648

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
TOTAL HOURS OF STABILITY CLASS G 101
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 101
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2173
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: 2022/01/26

MEAN WIND SPEED = 9.46

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS