



Post Office Box 2000, Decatur, Alabama 35609-2000

May 1, 2023

10 CFR 50.4
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: **2022 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 2022. 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. Sivaraman', is written over a light blue horizontal line.

M. Sivaraman
Site Vice President

Enclosure: 2022 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**

2022 Annual Radioactive Effluent Release Report

See Enclosed

Browns Ferry Nuclear Plant

Tennessee Valley Authority

Annual Radioactive Effluent Release Report

2022



Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Table of Contents

I.	Introduction	4
II.	Supplemental Information.....	4
A.	Regulatory Limits	4
1.	Gaseous Effluents	4
2.	Liquid Effluents	4
B.	Limitation on Dose Rate.....	4
1.	Gaseous Effluents	4
2.	Liquid Effluents	5
C.	Average Energy	5
D.	Measurements & Approximations of Total Radioactivity.....	5
1.	Gaseous Effluents	5
2.	Liquid Effluents	6
E.	Batch Releases	7
1.	Gaseous.....	7
2.	Liquid.....	7
F.	Abnormal Releases.....	8
1.	Gaseous.....	8
2.	Liquid.....	8
G.	Non-routine, Planned Discharges	9
H.	Radioactive Waste System Treatment Changes	9
I.	Land Use Census Changes.....	9
J.	Effluent Monitoring Instrument Inoperability > 30 Days.....	9
K.	Effluent Monitoring Equipment Sample Deviation.....	9
L.	Offsite Dose Calculation Manual Changes	9
M.	Groundwater Monitoring and Program (NEI 07-07).....	10
N.	Errata/Corrections to Previous ARERRs	12
III.	Gaseous Effluents	13
IV.	Liquid Effluents	20
V.	Solid Waste Storage and Shipment.....	22
A.	Solid Waste Shipped Off-site for Burial or Disposal (Not Irradiated Fuel).....	22
B.	Irradiated Fuel Shipments (Disposition)	26
VI.	Radiological Impact to Man	27

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

A.	Introduction	27
B.	Dose Limits	27
C.	Dose Calculations	28
D.	Doses from Airborne Effluents.....	28
E.	Doses from Liquid Effluents	29
F.	Population Doses	30
G.	Offsite Direct Radiation Dose.....	31
H.	Dose to a Member of the Public Inside the Site Boundary.....	31
I.	Total Dose	32
J.	Tables	33
VII.	Meteorological Data	39

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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.

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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.

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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.

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

E. Batch Releases

1. Gaseous

Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
-------	-------------	-------------	-------------	-------------	-------

1. Gaseous

1. Number of Batch Releases		2	1	1	1	5
2. Total duration of batch releases	minutes	9.60+01	4.80+01	4.80E+01	4.80E+01	2.40+02
3. Maximum batch release duration	minutes	4.80E+01	4.80E+01	4.80E+01	4.80E+01	4.80E+01
4. Average batch release duration	minutes	4.80E+01	4.80E+01	4.80E+01	4.80E+01	4.80E+01
5. Minimum batch release duration	minutes	4.80E+01	4.80E+01	4.80E+01	4.80E+01	4.80E+01

2. Liquid

Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
-------	-------------	-------------	-------------	-------------	-------

1. Liquids

1. Number of Batch Releases		36	6	0	11	53
2. Total duration of batch releases	minutes	1.04E+04	6.35E+03	0.00E+00	3.23E+03	2.00E+04
3. Maximum batch release duration	minutes	6.55E+02	1.44E+03	0.00E+00	4.80E+02	1.44E+03
4. Average batch release duration	minutes	2.89E+02	1.06E+03	0.00E+00	2.94E+02	3.77E+02
5. Minimum batch release duration	minutes	2.30E+02	7.20E+02	0.00E+00	2.30E+02	2.30E+02
6. Avg stream flow during periods of release of liquid effluent into a flowing stream	CFS	8.97E+04	2.49E+04	2.87E+04	4.09E+04	NA

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

F. Abnormal Releases

1. Gaseous

Abnormal gaseous tritium releases occurred in 2022 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). At the Beginning of 2022, these valves were scheduled to be replaced during each unit's respective outage, with Unit 2 valves to be completed in Spring 2023.

Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
-------	-------------	-------------	-------------	-------------	-------

1. Gaseous

1. Number of abnormal Releases		3	2	0	0	5
2. Total Activity for abnormal releases	Ci	1.39E-01	1.96E-03	0.00E+00	0.00E+00	1.41E-01

2. Liquid

Abnormal liquid tritium releases occurred throughout 2022 from Unit 1, Unit 2, and Unit 3 Station Sumps (CR 1508177). 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. Stations sumps will be added to the next ODCM revision as a permitted continuous liquid release point (CR 1721451).

Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
-------	-------------	-------------	-------------	-------------	-------

1. Liquids

1. Number of abnormal Releases		3	1	0	1	5
2. Total Activity for abnormal releases	Ci	2.47E-01	2.59E-01	0.00E+00	1.92E-03	5.08E-01

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

G. Non-routine, Planned Discharges

In calendar year 2022 there were no non-routine planned discharges.

H. Radioactive Waste System Treatment Changes

In calendar year 2022 there were no changes to the radwaste system or the process control program (PCP).

I. Land Use Census Changes

In calendar year 2022 there were no changes to the land use census.

J. Effluent Monitoring Instrument Inoperability > 30 Days

In calendar year 2022 there were no effluent monitoring instruments inoperable greater than 30 days.

K. Effluent Monitoring Equipment Sample Deviation

In calendar year 2022 there were no effluent monitoring equipment sample deviations.

L. Offsite Dose Calculation Manual Changes

In calendar year 2022 there were no changes to the Offsite Dose Calculation Manual.

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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. It has been determined that there are no groundwater wells onsite or within 2-miles of the site that are used as a source of drinking water. Groundwater movement in the area has been determined to be from the plant site toward the Tennessee River.

On-site groundwater monitoring was performed in 2022. 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 2022. 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 principal 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 2022, 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 2022 ranged from non-detectable, less than 196 pCi/L, up to a maximum concentration of 7,100 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. There were no instances of any on-site spills or leaks that occurred during 2022 reporting period that were communicated to off-site agencies or that met the criteria in NEI 07-07, Appendix A.

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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		
2/8/2022	Dewat-A	3690	5/12/2022	Dewat-A	1090
2/8/2022	MW-01	7100	5/12/2022	MW-01	390
2/8/2022	MW-02	1240	5/12/2022	MW-02	632
2/9/2022	MW-03	1140	5/10/2022	MW-03	478
2/8/2022	MW-04	5430	5/10/2022	MW-04	324
2/8/2022	MW-07	2080	5/10/2022	MW-07	2100
2/8/2022	MW-08	1900	5/10/2022	MW-08	1990
2/8/2022	MW-08i	414	5/10/2022	MW-08i	290
2/8/2022	MW-09	291	5/10/2022	MW-09	213
2/8/2022	MW-15	250	5/10/2022	MW-19	759
2/8/2022	MW-18	251			
2/9/2022	MW-19	439			

3rd Quarter 2021		
8/10/2022	Dewat-A	693
8/9/2022	MW-01	386
8/10/2022	MW-02	816
8/9/2022	MW-03	409
8/9/2022	MW-07	1530
8/9/2022	MW-08	1040
8/9/2022	MW-08i	330
8/9/2022	MW-19	330

4th Quarter 2021		
11/7/2022	Dewat-A	803
11/10/2022	MW-01	1480
11/10/2022	MW-02	699
11/10/2022	MW-02i	387
11/10/2022	MW-03	315
11/10/2022	MW-04	514
11/9/2022	MW-07	1120
11/10/2022	MW-08	417
11/10/2022	MW-08i	402
11/9/2022	MW-15	341
11/9/2022	MW-19	301

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

N. Errata/Corrections to Previous ARERRs

In the 2020 and 2021 Annual Radioactive Effluent Release Reports (ARERR), BFN reported Total Iodines in Table 1A - Summation of all Releases, instead of Total I-131 Releases (CR 1844572). BFN is committed to Regulatory Guide 1.21 Revision 1; this revision requires only I-131 total releases to be reported in Table 1A. The two tables below are the 2020 and 2021 Table 1A Gaseous Effluents - Summations of all Releases section B. Iodines with I-131 reported for each respective year.

2020 Table 1-A Gaseous Effluents - Summation of all Releases

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	Error %
B. Iodines							
1. Total I-131 Release	Curies	2.71E-04	1.02E-04	2.58E-04	9.98E-05	7.31E-04	± 36%
2. Average Release Rate for Period	uCi/sec	3.44E-05	1.29E-05	3.27E-05	1.25E-05	2.31E-05	
4. Percent of Tech Spec Limit ¹	%	*	*	*	*	*	

2021 Table 1-A Gaseous Effluents - Summation of all Releases

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	Error %
B. Iodines							
1. Total I-131 Release	Curies	6.56E-05	1.15E-04	2.71E-04	1.06E-03	1.51E-03	± 36%
2. Average Release Rate for Period	uCi/sec	8.44E-06	1.46E-05	3.41E-05	1.33E-04	4.79E-05	
4. Percent of Tech Spec Limit ¹	%	*	*	*	*	*	

¹ * Applicable Limits are expressed in terms of dose. Reference Section VI, Radiological Impact, Table 3.

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

III. Gaseous Effluents

Table 1-A Gaseous Effluents - Summation of all Releases

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	Error %
A. Fission and Activation Gases							
1. Total Release	Curies	6.92E+00	2.40E+00	3.10E+00	5.90E+00	1.83E+01	± 45%
2. Average Release Rate for Period	uCi/sec	8.90E-01	3.05E-01	3.90E-01	7.43E-01	5.81E-01	
3. Percent of Tech Spec Limit	%	*	*	*	*	*	
B. Iodines							
1. Total I-131 Release	Curies	1.86E-03	1.48E-05	5.81E-05	3.37E-05	1.97E-03	± 36%
2. Average Release Rate for Period	uCi/sec	2.41E-04	1.88E-06	7.30E-06	4.23E-06	6.26E-05	
3. Percent of Tech Spec Limit	%	*	*	*	*	*	
C. Particulates							
1. Total Release	Curies	8.06E-04	1.92E-04	8.61E-05	5.87E-04	1.67E-03	± 35%
2. Average Release Rate for Period	uCi/sec	1.04E-04	2.44E-05	1.08E-05	7.38E-05	5.30E-05	
3. Percent of Tech Spec Limit	%	*	*	*	*	*	
D. Tritium							
1. Total Release	Curies	6.89E+01 ¹	5.27E+01 ¹	9.34E+01	3.24E+01	2.47E+02 ¹	± 21%
2. Average Release Rate for Period	uCi/sec	8.87E+00	6.71E+00	1.18E+01	4.07E+00	7.84E+00	
3. Percent of Tech Spec Limit	%	*	*	*	*	*	
E. Gross Alpha							
1. Total Release	Curies	<LLD	<LLD	<LLD	<LLD	<LLD	
2. Average Release Rate for Period	uCi/sec						
3. Percent of Tech Spec Limit	%	*	*	*	*	*	
F. Carbon-14							
1. Total Release	Curies	1.19E+01	1.38E+01	1.38E+01	1.21E+01	5.16E+01	
2. Percent of Tech Spec Limit	%	*	*	*	*	*	

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.

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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
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

¹ There were no gaseous batch releases through the ground release points in 2022.

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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	6.67E-05	<LLD	5.26E-06	1.22E-06	7.32E-05
I-133	Ci	4.69E-06	<LLD	<LLD	<LLD	4.69E-06
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total For Period	Ci	7.14E-05	<LLD	5.26E-06	1.22E-06	7.79E-05
3. Particulates						
Mn-54	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	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	<LLD	<LLD	<LLD	<LLD	<LLD
4. Gross Alpha						
Gross Alpha	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
5. Tritium						
H-3	Ci	1.56E+01 ¹	1.56E+01 ¹	1.59E+01	1.64E+01	6.35E+01 ¹

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

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Table 1-C Gaseous Effluents – Elevated 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
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 There were no gaseous batch releases through the elevated release point in 2022.

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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	1.43E+00	2.40E+00	8.36E-01	3.82E+00	8.49E+00
Kr-85m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	1.00E+00	<LLD	<LLD	3.32E-01	1.34E+00
Xe-133	Ci	4.21E+00	<LLD	2.26E+00	1.75E+00	8.22E+00
Xe-135	Ci	2.69E-01	<LLD	<LLD	<LLD	2.69E-01
Xe-135m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total For Period	Ci	6.92E+00	2.40E+00	3.10E+00	5.90E+01	1.83E+01
2. Iodines						
I-131	Ci	9.93E-04	1.26E-05	4.40E-05	2.23E-05	1.07E-03
I-133	Ci	2.02E-04	1.77E-04	1.62E-04	4.26E-05	5.83E-04
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total For Period	Ci	1.20E-03	1.90E-04	2.05E-04	6.50E-05	1.66E-03
3. Particulates						
Au-199	Ci	3.25E-04	1.43E-04	5.01E-05	1.98E-04	7.17E-04
Co-60	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	1.94E-06	5.97E-06	1.16E-05	<LLD	1.95E-05
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-138	Ci	4.90E-05	<LLD	<LLD	<LLD	4.90E-05
Ba-139	Ci	1.03E-04	<LLD	<LLD	<LLD	1.03E-04
La-140	Ci	<LLD	<LLD	4.51E-06	<LLD	4.51E-06
Total For Period	Ci	4.79E-04	1.49E-04	6.61E-05	1.98E-04	8.92E-04
4. Gross Alpha						
Gross Alpha	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
5. Tritium						
H-3	Ci	3.60E+01	4.27E+00	1.19E+01	2.96E+00	5.52E+01
6. Carbon-14						
C-14	Ci	1.19E+01	1.38+01	1.38E+01	1.21E+01	5.16E+01

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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

	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	7.87E-04	<LLD	<LLD	<LLD	7.87E-04
Xe-135m	Ci	2.06E-04	<LLD	<LLD	<LLD	2.06E-04
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total For Period	Ci	9.93E-04	<LLD	<LLD	<LLD	9.93E-04
2. Iodines						
I-131	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total For Period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
3. Particulates						
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
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	<LLD	<LLD	<LLD	<LLD	<LLD
4. Gross Alpha						
Gross Alpha	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
5. Tritium						
H-3	Ci	1.68E-03	8.32E-04	4.78E-04	4.73E-04	3.46E-03

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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	<LLD	<LLD
Total For Period	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
2. Iodines						
I-131	Ci	8.05E-04	2.23E-06	8.84E-06	1.02E-05	8.26E-04
I-133	Ci	1.46E-06	<LLD	2.95E-05	7.24E-05	1.03E-04
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total For Period	Ci	8.07E-04	2.23E-06	3.83E-05	8.26E-05	9.30E-04
3. Particulates						
Au-199	Ci	<LLD	<LLD	<LLD	2.19E-06	2.19E-06
Se-75	Ci	<LLD	<LLD	<LLD	1.16E-06	1.16E-06
Na-24	Ci	<LLD	<LLD	<LLD	6.98E-05	6.98E-05
Cr-51	Ci	1.13E-04	1.58E-05	<LLD	2.56E-05	1.54E-04
Mn-54	Ci	4.91E-06	2.22E-06	<LLD	5.50E-06	1.26E-05
Co-58	Ci	1.75E-05	<LLD	<LLD	2.20E-05	3.95E-05
Co-60	Ci	1.76E-04	2.25E-05	1.99E-05	9.98E-05	3.18E-04
As-76	Ci	<LLD	<LLD	<LLD	1.02E-04	1.02E-04
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	3.05E-06	3.05E-06
Ag-110m	Ci	1.60E-05	<LLD	<LLD	5.75E-05	7.36E-05
Cs-137	Ci	<LLD	2.03E-06	<LLD	<LLD	2.03E-06
Total For Period	Ci	3.27E-04	4.26E-05	1.99E-05	3.88E-04	7.78E-04
4. Gross Alpha						
Gross Alpha	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
5. Tritium						
H-3	Ci	1.73E+01	3.29E+01	6.57E+01	1.30E+01	1.29E+02

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

IV. Liquid Effluents

Table 2-A Liquid Effluents - Summation of all Releases

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	Error %
--	-------	-------------	-------------	-------------	-------------	-------	---------

A. Fission and Activation Products

1. Total Release	Curies	1.63E-02	4.49E-05	NA	7.15E-03	2.35E-02	± 9%
2. Average Diluted Concentration	uCi/mL	6.26E-10	3.12E-12	NA	6.77E-10	4.61E-10	
3. Percent of Tech Spec Limit	%	*	*	*	*	*	

B. Tritium

1. Total Release	Curies	8.55E+00 ¹	2.70E-01 ¹	NA	7.92E-01 ¹	9.61E+00 ¹	± 6%
2. Average Diluted Concentration	uCi/mL	3.27E-07	1.87E-08	NA	7.50E-08	1.88E-07	
3. Percent of Tech Spec Limit	%	*	*	*	*	*	

C. Dissolved and Entrained Noble Gases

1. Total Release	Curies	3.86E-04	<LLD	NA	<LLD	3.86E-04	± 8%
2. Average Diluted Concentration	uCi/mL	1.48E-11	0.00E+00	NA	0.00E+00	7.56E-12	
3. Percent of Tech Spec Limit	%	*	*	*	*	*	

D. Gross Alpha Radioactivity

1. Total Release	Curies	<LLD	<LLD	NA	<LLD	<LLD	± 48%
------------------	--------	------	------	----	------	------	-------

E. Volume of Liquid Waste to Discharge Canal (prior to dilution)	Liters	2.90E+06	5.00E+05	0.00E+00	7.45E+05	4.14E+06	
F. Volume of Dilution Water for Period	Liters	2.61E+10	1.44E+10	0.00E+00	1.06E+10	5.11E+10	± 10%
G. Total CCW	Gigagal	2.47E+02	2.77E+02	2.80E+02	2.51E+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.

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Table 2-B Liquid Effluents – Batch Mode¹

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
1. Fission and Activation Products						
Na-24	Ci	1.71E-05	<LLD	NA	<LLD	1.71E-05
Mn-54	Ci	1.88E-03	<LLD	NA	3.26E-04	2.21E-03
Co-58	Ci	8.38E-04	<LLD	NA	<LLD	8.38E-04
Co-60	Ci	1.00E-02	<LLD	NA	5.98E-03	1.60E-02
Zn-65	Ci	2.68E-03	<LLD	NA	4.04E-04	3.08E-03
Sr-92	Ci	3.66E-05	<LLD	NA	1.16E-05	4.83E-05
Y-92	Ci	8.53E-05	<LLD	NA	<LLD	8.53E-05
Nb-97	Ci	2.09E-04	<LLD	NA	4.34E-05	2.52E-04
Ag-110m	Ci	2.08E-04	<LLD	NA	1.95E-04	4.03E-04
Cs-137	Ci	3.33E-04	4.49E-05	NA	1.82E-04	5.60E-04
Fe-55	Ci	<LLD	<LLD	NA	<LLD	<LLD
Sr-89	Ci	<LLD	<LLD	NA	<LLD	<LLD
Sr-90	Ci	<LLD	<LLD	NA	<LLD	<LLD
Total For Period	Ci	1.63E-02	4.49E-05	NA	7.15E-03	2.35E-02
2. Dissolved and Entrained Gases						
Xe-133	Ci	2.38E-04	<LLD	NA	<LLD	2.38E-04
Xe-135	Ci	1.47E-04	<LLD	NA	<LLD	1.47E-04
Total For Period	Ci	3.86E-04	<LLD	NA	<LLD	3.86E-04

Table 2-B Liquid Effluents – Continuous Mode²

	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
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 There were no batch releases for 3rd quarter 2022.

² There were no liquid releases through the continuous mode in 2022.

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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	1.14E+02 1.20E+02	1.34E+02 3.89E+02	+/-25.0 +/-25.0
b.	Dry compressible waste, contaminated equipment, etc.	m ³ Ci	1.96E+03 3.54E+00	1.40E+03 1.61E+00	+/-25.0 +/-25.0
c.	Irradiated components, control rod blades & LPRMs with fission chambers	m ³ Ci	4.98E-01 2.15E+04	0.00E+00 0.00E+00	+/-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

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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	1.15E-01	5.84E-01
2.	C-14	6.16E-02	3.13E-01
3.	Mn-54	7.79E+00	3.96E+01
4.	Fe-55	1.73E+01	8.82E+01
5.	Co-58	1.36E+00	6.93E+00
6.	Co-60	5.03E+01	2.56E+02
7.	Ni-63	8.60E-01	4.37E+00
8.	Zn-65	8.65E+00	4.40E+01
9.	Sr-89	3.82E-03	1.94E-02
10.	Sr-90	6.85E-03	3.48E-02
11.	Tc-99	8.30E-03	4.22E-02
12.	Ag-110m	1.01E+01	5.16E+01
13.	Sb-124	2.64E-02	1.34E-01
14.	Cs-134	2.42E-01	1.23E+00
15.	Cs-137	3.04E+00	1.55E+01

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

b. Dry compressible waste, contaminated equipment, etc.

	Nuclide	Percentage	Curies
1.	H-3	9.80E-02	5.05E-03
2.	F-18	3.38E-06	1.74E-07
3.	Na-24	3.08E-01	1.59E-02
4.	Cr-51	1.47E+00	7.57E-02
5.	Mn-54	5.55E+00	2.86E-01
6.	Fe-55	6.99E+00	3.60E-01
7.	Fe-59	4.71E-01	2.43E-02
8.	Co-58	2.26E+01	1.17E+00
9.	Co-60	4.55E+01	2.35E+00
10.	Ni-63	1.40E+00	7.22E-02
11.	Zn-65	2.93E+00	1.51E-01
12.	Sr-89	1.34E-03	6.89E-05
13.	Sr-90	4.44E-04	2.29E-05
14.	Zr-97	7.64E-02	3.94E-03
15.	Nb-95	7.53E-02	3.88E-03
16.	Nb-97	2.54E-04	1.31E-05
17.	Tc-99	7.31E-01	3.77E-02
18.	Ag-110m	3.17E+00	1.64E-01
19.	Sb-124	3.61E-02	1.86E-03
20.	Sb-125	1.08E-02	5.58E-04
21.	Cs-134	3.27E+00	1.69E-01
22.	Cs-137	5.26E+00	2.71E-01
23.	La-140	2.51E+00	1.29E-01

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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

	Nuclide	Percentage	Curies
1.	H-3	1.51E-02	3.24E+00
2.	C-14	8.93E-03	1.92E+00
3.	Cr-51	2.71E-05	5.83E-03
4.	Mn-54	1.79E+00	3.85E+02
5.	Fe-55	7.21E+01	1.55E+04
6.	Fe-59	2.12E-04	4.57E-02
7.	Co-58	2.09E-02	4.49E+00
8.	Co-60	1.97E+01	4.23E+03
9.	Ni-59	3.37E-02	7.24E+00
10.	Ni-63	6.37E+00	1.37E+03
11.	Zn-65	3.51E-02	7.54E+00
12.	Nb-94	1.92E-04	4.14E-02
13.	Nb-95	7.76E-05	1.67E-02
14.	Tc-99	3.60E-05	7.75E-03
15.	Ag-100m	9.16E-05	1.97E-02
16.	Sb-124	5.44E-05	1.17E-02
17.	Cs-137	2.92E-05	6.28E-03

d. Other –Combined Packages

	Nuclide	Percentage	Curies
1.	0	0	0

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

3. Sold Waste Disposition

Number of Shipments	Mode of Transportation	Destination
2	ESS(TVA)	TOXCO, Inc. Materials Management Center
6	Hittman Transport Services	Energy Solutions LLC.(Clive) Clive Disposal Site – Containerized Waste Facility
5	Hittman Transport Services	Energy Solutions Memphis 1790 Dock Street
10	Hittman Transport Services	Energy Solutions Services Inc. 1560 Bear Creek Road
2	Hittman Transport Services	Waste Control Specialist, LLC CWF
20	Interstate Ventures, Inc.	Waste Control Specialist, LLC TSDF
27	Interstate Ventures, Inc	Waste Control Specialist, LLC CWF
78	Specialty Transport, Inc.	Unitech Service Group, Inc. Oak Ridge Services Center

B. Irradiated Fuel Shipments (Disposition)

Number of Shipments	Mode of Transportation	Destination
3	Hittman Transport Services	Waste Control Specialist, LLC CWF

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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.

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.

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Radiological Impact

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 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 2022 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 noncalm wind directions less than 1.6 m/s (3.5 mph). Stability classes are determined from the vertical temperature difference between two measurement levels.

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Radiological Impact

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

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Radiological Impact

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.

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

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Radiological Impact

G. Offsite Direct Radiation Dose

External gamma radiation levels were measured by environmental dosimeters deployed around BFN as part of the 2022 Radiological Environmental Monitoring Program (REMP). The 2022 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 2022 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 was 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 environmental dosimeters located on-site. The critical location was determined to be an Optically Stimulated Luminescence (OSL) dosimeter near the Livewell Center (SE-1). The Annual baseline is 79 mrem/yr with the 2022 Annual dose of 77.8. The direct radiation dose at the Livewell Center, accounting for background and occupancy, was determined to be non-detectable as this location did not exceed the historical baseline plus the calculated minimum differential dose.

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Radiological Impact

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.

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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	3.77E-06 mrad	10 mrad	< 1%	S 5900 meters
Gamma Air	8.75E-06 mrad	5 mrad	< 1%	S 5900 meters
NG Skin	4.94E-04 mrad	NA	< 1%	NNW 1650 meters
NG Total Body	4.20E-04 mrad	NA	< 1%	NNW 1650 meters
Organ Doses (Iodine, Tritium, Particulates with >8-Day half-life)				
Child / Bone	1.97E-02 mrem	7.5 mrem	< 1%	S 5700 meters
Child / Thyroid	6.78E-03 mrem	7.5 mrem	< 1%	E 1530 meters
Child / Total Body	4.94E-03 mrem	7.5 mrem	< 1%	S 5700 meters

Population Doses

Total Body Dose 1.71E-01 man-rem
Maximum Organ Dose (Organ) 7.51E-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	3.67E-06 mrad	10 mrad	< 1%	NNW 5000 meters
Gamma Air	1.04E-05 mrad	5 mrad	< 1%	NNW 5000 meters
NG Skin	9.54E-05 mrad	NA	NA	NNW 1650 meters
NG Total Body	8.00E-05 mrad	NA	NA	NNW 1650 meters
Organ Doses (Iodine, Tritium, Particulates with >8-Day half-life)				
Child / Bone	3.85E-02 mrem	7.5 mrem	< 1%	NNW 4350 meters
Child / Thyroid	9.93E-03 mrem	7.5 mrem	< 1%	NNW 4350 meters
Child / Total Body	9.93E-03 mrem	7.5 mrem	< 1%	NNW 1650 meters

Population Doses

Total Body Dose 2.05E-01 man-rem
Maximum Organ Dose (Organ) 9.15E-01 man-rem (Bone)

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Radiological Impact

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

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location
Beta Air	4.61E-06 mrad	10 mrad	< 1%	NE 4800 meters
Gamma Air	7.13E-06 mrad	5 mrad	< 1%	NE 4800 meters
NG Skin	5.42E-05 mrad	NA	NA	NE 2020 meters
NG Total Body	4.45E-05 mrad	NA	NA	NE 2020 meters
Organ Doses (Iodine, Tritium, Particulates with >8-Day half-life)				
Child / Bone	7.14E-02 mrem	7.5 mrem	< 1%	NE 4540 meters
Child / Thyroid	1.75E-02 mrem	7.5 mrem	< 1%	NE 4290 meters
Child / Total Body	1.74E-02 mrem	7.5 mrem	< 1%	NE 4290 meters

Population Doses

Total Body Dose	2.55E-01 man-rem
Maximum Organ Dose (Organ)	1.11E+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	4.42E-06 mrad	10 mrad	< 1%	E 4800 meters
Gamma Air	1.17E-05 mrad	5 mrad	< 1%	E 4800 meters
NG Skin	3.19E-04 mrad	NA	NA	E 1410 meters
NG Total Body	2.70E-04 mrad	NA	NA	E 1410 meters
Organ Doses (Iodine, Tritium, Particulates with >8-Day half-life)				
Child / Bone	1.94E-02 mrem	7.5 mrem	< 1%	E 4240 meters
Child / Thyroid	5.93E-03 mrem	7.5 mrem	< 1%	E 1530 meters
Child / Total Body	5.95E-03 mrem	7.5 mrem	< 1%	E 1530 meters

Population Doses

Total Body Dose	1.63E-01 man-rem
Maximum Organ Dose (Organ)	7.26E-01 man-rem (Bone)

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Radiological Impact

Table 4-A Doses from Liquid Effluents – 1st Quarter

Individual Doses

Age Group	Organ	Dose	Quarterly Limit	Percent of Limit
Adult	Liver	3.61E-04 mrem	5 mrem	< 1%
Child	Thyroid	2.26E-04 mrem	5 mrem	< 1%
Adult	Total Body	2.97E-04 mrem	1.5 mrem	< 1%

Average River Flow past BFN: 89,700 CFS

Population Doses

Total Body Dose 2.00E-02 man-rem
Maximum Organ Dose (Organ) 2.00E-02 man-rem (Liver)

Table 4-B Doses from Liquid Effluents – 2nd Quarter

Individual Doses

Age Group	Organ	Dose	Quarterly Limit	Percent of Limit
Child	Bone	3.57E-05 mrem	5 mrem	< 1%
Child	Thyroid	5.65E-06 mrem	5 mrem	< 1%
Adult	Total Body	2.38E-05 mrem	1.5 mrem	< 1%

Average River Flow past BFN: 24,890 CFS

Population Doses

Total Body Dose 3.20E-04 man-rem
Maximum Organ Dose (Organ) 4.30E-04 man-rem (Liver)

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Radiological Impact

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

Individual Doses

Age Group	Organ	Dose	Quarterly Limit	Percent of Limit
Adult	Liver	0.00E+00 mrem	5 mrem	< 1%
Child	Thyroid	0.00E+00 mrem	5 mrem	< 1%
Adult	Total Body	0.00E+00 mrem	1.5 mrem	< 1%

Average River Flow past BFN: 28,673 CFS

Population Doses

Total Body Dose 0.00E+00 man-rem
Maximum Organ Dose (Organ) 0.00E+00 man-rem

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

Individual Doses

Age Group	Organ	Dose	Quarterly Limit	Percent of Limit
Adult	Liver	3.47E-04 mrem	5 mrem	< 1%
Infant	Thyroid	2.48E-04 mrem	5 mrem	< 1%
Adult	Total Body	3.09E-04 mrem	1.5 mrem	< 1%

Average River Flow past BFN: 40,861 CFS

Population Doses

Total Body Dose 2.50E-02 man-rem
Maximum Organ Dose (Organ) 2.50E-02 man-rem (Liver)

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Radiological Impact

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 2022, as I-131 was not identified in any liquid effluent from the plant.

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Radiological Impact

Table 5 Total Dose from Fuel Cycle

Dose	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	
Total Body or any Organ (except thyroid)					
Total body air (submersion)	4.20E-04	8.00E-05	6.02E-05	2.70E-04	
Critical organ dose (airborne)	1.97E-02	3.85E-02	7.14E-02	1.94E-02	
Total body dose (liquid)	2.97E-04	2.38E-05	0.00E+00	3.09E-04	
Maximum organ dose (liquid)	3.61E-04	3.57E-05	0.00E+00	3.47E-04	
Direct Radiation Dose	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Total	2.08E-02	3.86E-02	7.14E-02	2.03E-02	
Cumulative Total Dose (mrem)					1.51E-01
Annual Dose Limit (mrem)					25
Percent of Limit					< 1%
Thyroid					
Total body air (submersion)	4.20E-04	8.00E-05	6.02E-05	2.70E-04	
Thyroid dose (airborne)	6.78E-03	9.93E-03	1.75E-02	5.93E-03	
Total body dose (liquid)	2.97E-04	2.38E-05	0.00E+00	3.09E-04	
Thyroid dose (liquid)	2.26E-04	5.65E-06	0.00E+00	2.48E-04	
Total	7.72E-03	1.00E-02	1.76E-02	6.76E-03	
Cumulative Total Dose (mrem)					4.21E-02
Annual Dose Limit (mrem)					75
Percent of Limit					< 1%

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

VII. Meteorological Data

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

Joint Frequency Distribution In Percent

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

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

JAN 1, 2022 - MAR 31, 2022

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	0.101	0.202	0.000	0.000	0.000	0.303
NNE	0.000	0.000	0.000	0.000	0.000	0.202	0.000	0.000	0.000	0.202
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	0.050	0.000	0.000	0.000	0.050
SE	0.000	0.000	0.000	0.151	0.202	0.151	0.050	0.000	0.000	0.555
SSE	0.000	0.000	0.000	0.101	0.101	0.303	0.000	0.000	0.000	0.505
S	0.000	0.000	0.000	0.050	0.303	0.050	0.000	0.000	0.000	0.404
SSW	0.000	0.000	0.000	0.000	0.252	0.000	0.000	0.000	0.000	0.252
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.000	0.000	0.050
WSW	0.000	0.000	0.000	0.050	0.101	0.000	0.000	0.000	0.000	0.151
W	0.000	0.000	0.000	0.101	0.050	0.000	0.050	0.000	0.000	0.202
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.101	0.000	0.000	0.101
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.101	0.000	0.000	0.101
NNW	0.000	0.000	0.000	0.000	0.000	0.202	0.050	0.000	0.000	0.252
SUBTOTAL	0.000	0.000	0.000	0.454	1.110	1.160	0.404	0.000	0.000	3.128

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 1995
TOTAL HOURS OF STABILITY CLASS A 62
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 62
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 1982
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: 2022/04/07

MEAN WIND SPEED = 8.37

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2022 - MAR 31, 2022

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	0.202	1.009	0.000	0.000	0.000	1.211
NNE	0.000	0.000	0.000	0.000	0.151	0.303	0.000	0.000	0.000	0.454
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	0.353	0.151	0.101	0.000	0.000	0.000	0.605
SSE	0.000	0.000	0.000	0.101	0.050	0.050	0.000	0.000	0.000	0.202
S	0.000	0.000	0.000	0.050	0.101	0.000	0.000	0.000	0.000	0.151
SSW	0.000	0.000	0.000	0.050	0.050	0.000	0.000	0.000	0.000	0.101
SW	0.000	0.000	0.050	0.050	0.000	0.000	0.000	0.000	0.000	0.101
WSW	0.000	0.000	0.000	0.000	0.151	0.050	0.101	0.000	0.000	0.303
W	0.000	0.000	0.000	0.000	0.101	0.252	0.050	0.000	0.000	0.404
WNW	0.000	0.000	0.050	0.101	0.151	0.151	0.050	0.101	0.000	0.605
NW	0.000	0.000	0.000	0.050	0.101	0.050	0.252	0.000	0.000	0.454
NNW	0.000	0.000	0.000	0.000	0.050	0.202	0.101	0.000	0.000	0.353
SUBTOTAL	0.000	0.000	0.101	0.757	1.261	2.170	0.555	0.101	0.000	4.945

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 1995
 TOTAL HOURS OF STABILITY CLASS B 98
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 98
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 1982
 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

MEAN WIND SPEED = 8.30

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2022 - MAR 31, 2022

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	0.202	0.252	0.404	0.101	0.000	0.000	0.959
NNE	0.000	0.000	0.050	0.101	0.303	0.151	0.000	0.000	0.000	0.605
NE	0.000	0.000	0.000	0.000	0.151	0.050	0.000	0.000	0.000	0.202
ENE	0.000	0.000	0.000	0.050	0.000	0.000	0.000	0.000	0.000	0.050
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	0.050	0.000	0.000	0.000	0.000	0.050
SE	0.000	0.000	0.000	0.151	0.303	0.252	0.000	0.000	0.000	0.706
SSE	0.000	0.000	0.050	0.050	0.000	0.000	0.000	0.000	0.000	0.101
S	0.000	0.000	0.101	0.050	0.000	0.101	0.000	0.000	0.000	0.252
SSW	0.000	0.000	0.000	0.151	0.000	0.000	0.000	0.000	0.000	0.151
SW	0.000	0.000	0.000	0.000	0.050	0.000	0.151	0.000	0.000	0.202
WSW	0.000	0.000	0.050	0.151	0.101	0.202	0.050	0.000	0.000	0.555
W	0.000	0.000	0.000	0.151	0.303	0.303	0.202	0.000	0.000	0.959
WNW	0.000	0.000	0.000	0.202	0.050	0.353	0.303	0.050	0.000	0.959
NW	0.000	0.000	0.050	0.151	0.151	0.151	0.050	0.000	0.000	0.555
NNW	0.000	0.000	0.000	0.101	0.101	0.505	0.000	0.000	0.000	0.706
SUBTOTAL	0.000	0.000	0.303	1.514	1.816	2.472	0.858	0.050	0.000	7.013

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 1995
 TOTAL HOURS OF STABILITY CLASS C 139
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 139
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 1982
 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: 2022/04/07

MEAN WIND SPEED = 7.83

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2022 - MAR 31, 2022

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	0.151	0.404	0.706	1.665	0.050	0.000	0.000	2.977
NNE	0.000	0.000	0.202	0.353	0.555	1.060	0.000	0.000	0.000	2.170
NE	0.000	0.000	0.101	0.555	0.454	0.505	0.000	0.000	0.000	1.615
ENE	0.000	0.000	0.050	0.151	0.303	0.252	0.000	0.000	0.000	0.757
E	0.000	0.000	0.252	0.303	0.404	0.202	0.000	0.000	0.000	1.160
ESE	0.000	0.000	0.101	0.505	0.353	0.252	0.000	0.000	0.000	1.211
SE	0.000	0.000	0.252	0.555	0.202	0.555	0.000	0.000	0.000	1.564
SSE	0.000	0.000	0.202	0.353	0.252	0.706	0.000	0.000	0.000	1.514
S	0.000	0.000	0.252	0.101	0.353	0.757	0.101	0.000	0.000	1.564
SSW	0.000	0.050	0.202	0.101	0.303	0.303	0.050	0.000	0.000	1.009
SW	0.000	0.000	0.151	0.303	0.101	0.605	0.050	0.000	0.000	1.211
WSW	0.000	0.000	0.050	0.303	0.454	0.656	0.000	0.000	0.000	1.463
W	0.000	0.000	0.202	0.202	0.505	1.463	0.101	0.000	0.000	2.472
WNW	0.000	0.000	0.101	0.555	0.505	1.060	0.908	0.151	0.000	3.280
NW	0.000	0.000	0.000	0.151	0.454	2.119	1.615	0.303	0.000	4.642
NNW	0.000	0.000	0.101	0.202	0.505	2.926	1.110	0.101	0.000	4.945
SUBTOTAL	0.000	0.050	2.371	5.096	6.408	15.086	3.986	0.555	0.000	33.552

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 1995
TOTAL HOURS OF STABILITY CLASS D 671
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 665
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 1982
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

MEAN WIND SPEED = 8.44

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2022 - MAR 31, 2022

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	0.101	0.404	0.252	0.404	0.757	0.000	0.000	0.000	1.917
NNE	0.000	0.000	0.303	0.858	0.151	0.101	0.000	0.000	0.000	1.413
NE	0.000	0.101	0.555	0.605	0.252	0.404	0.000	0.000	0.000	1.917
ENE	0.000	0.050	0.555	0.454	0.252	0.050	0.000	0.000	0.000	1.362
E	0.000	0.050	0.151	0.303	0.101	0.101	0.000	0.000	0.000	0.706
ESE	0.000	0.000	0.252	0.404	0.202	0.050	0.000	0.000	0.000	0.908
SE	0.000	0.050	0.353	0.454	1.060	1.261	0.050	0.000	0.000	3.229
SSE	0.000	0.101	0.505	0.404	0.656	2.674	0.202	0.000	0.000	4.541
S	0.000	0.000	0.252	0.404	0.706	1.413	1.968	0.555	0.000	5.298
SSW	0.000	0.000	0.454	0.252	0.252	0.404	0.555	0.101	0.000	2.018
SW	0.000	0.101	0.202	0.404	0.101	0.151	0.000	0.000	0.000	0.959
WSW	0.000	0.101	0.252	0.101	0.050	0.050	0.000	0.000	0.000	0.555
W	0.000	0.000	0.252	0.454	0.202	0.000	0.000	0.000	0.000	0.908
WNW	0.000	0.000	0.252	0.505	0.101	0.151	0.101	0.000	0.000	1.110
NW	0.000	0.050	0.505	0.555	0.404	0.303	0.000	0.000	0.000	1.816
NNW	0.000	0.000	0.555	0.505	0.555	0.353	0.000	0.000	0.000	1.968
SUBTOTAL	0.000	0.706	5.802	6.912	5.449	8.224	2.876	0.656	0.000	30.626

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 1995
 TOTAL HOURS OF STABILITY CLASS E 614
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 607
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 1982
 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

MEAN WIND SPEED = 7.08

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2022 - MAR 31, 2022

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	0.353	0.404	0.000	0.000	0.000	0.000	0.000	0.757
NNE	0.000	0.151	0.353	0.202	0.050	0.000	0.000	0.000	0.000	0.757
NE	0.000	0.050	0.252	0.000	0.000	0.000	0.000	0.000	0.000	0.303
ENE	0.000	0.050	0.252	0.202	0.000	0.000	0.000	0.000	0.000	0.505
E	0.000	0.000	1.009	0.605	0.000	0.000	0.000	0.000	0.000	1.615
ESE	0.000	0.101	0.555	0.404	0.101	0.000	0.000	0.000	0.000	1.160
SE	0.000	0.000	0.706	0.303	0.505	0.252	0.000	0.000	0.000	1.766
SSE	0.000	0.000	0.454	0.202	0.454	1.413	0.151	0.050	0.000	2.725
S	0.000	0.101	0.202	0.101	0.303	0.858	0.252	0.050	0.000	1.867
SSW	0.000	0.050	0.202	0.050	0.050	0.000	0.000	0.000	0.000	0.353
SW	0.000	0.000	0.101	0.050	0.151	0.050	0.000	0.000	0.000	0.353
WSW	0.000	0.000	0.151	0.000	0.000	0.000	0.000	0.000	0.000	0.151
W	0.000	0.000	0.151	0.050	0.000	0.000	0.000	0.000	0.000	0.202
WNW	0.000	0.000	0.151	0.050	0.000	0.000	0.000	0.000	0.000	0.202
NW	0.000	0.000	0.454	0.151	0.000	0.000	0.000	0.000	0.000	0.605
NNW	0.000	0.000	0.454	0.656	0.050	0.000	0.000	0.000	0.000	1.160
SUBTOTAL	0.000	0.505	5.802	3.431	1.665	2.573	0.404	0.101	0.000	14.480

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 1995
TOTAL HOURS OF STABILITY CLASS F 287
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 287
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 1982
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

MEAN WIND SPEED = 5.06

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 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

JAN 1, 2022 - MAR 31, 2022

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	0.050	0.605	0.454	0.000	0.000	0.000	0.000	0.000	1.110
NNE	0.000	0.000	0.151	0.000	0.000	0.000	0.000	0.000	0.000	0.151
NE	0.000	0.101	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.151
ENE	0.000	0.000	0.151	0.000	0.000	0.000	0.000	0.000	0.000	0.151
E	0.000	0.050	0.151	0.000	0.000	0.000	0.000	0.000	0.000	0.202
ESE	0.000	0.000	0.151	0.000	0.000	0.000	0.000	0.000	0.000	0.151
SE	0.000	0.000	0.555	0.303	0.404	0.050	0.000	0.000	0.000	1.312
SSE	0.000	0.101	0.303	0.101	0.404	0.858	0.000	0.000	0.000	1.766
S	0.000	0.202	0.151	0.050	0.000	0.050	0.000	0.000	0.000	0.454
SSW	0.000	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050
SW	0.000	0.000	0.101	0.000	0.000	0.000	0.000	0.000	0.000	0.101
WSW	0.000	0.101	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.101
W	0.000	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050
WNW	0.000	0.050	0.101	0.000	0.000	0.000	0.000	0.000	0.000	0.151
NW	0.000	0.000	0.050	0.050	0.000	0.000	0.000	0.000	0.000	0.101
NNW	0.000	0.000	0.101	0.151	0.000	0.000	0.000	0.000	0.000	0.252
SUBTOTAL	0.000	0.757	2.624	1.110	0.807	0.959	0.000	0.000	0.000	6.256

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 1995
TOTAL HOURS OF STABILITY CLASS G 124
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 124
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 1982
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

MEAN WIND SPEED = 4.11

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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

Joint Frequency Distribution In Percent

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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

APR 1, 2022 - JUN 30, 2022

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.000	0.092	0.554	0.000	0.000	0.000	0.647
NNE	0.000	0.000	0.000	0.000	0.046	0.231	0.000	0.000	0.000	0.277
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.046	0.462	0.277	0.000	0.000	0.000	0.785
SSE	0.000	0.000	0.000	0.462	0.231	0.139	0.000	0.000	0.000	0.831
S	0.000	0.000	0.000	0.739	0.185	0.092	0.000	0.000	0.000	1.016
SSW	0.000	0.000	0.000	0.092	0.370	0.231	0.000	0.000	0.000	0.693
SW	0.000	0.000	0.000	0.323	0.092	0.046	0.000	0.000	0.000	0.462
WSW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
W	0.000	0.000	0.000	0.000	0.046	0.508	0.139	0.000	0.000	0.693
WNW	0.000	0.000	0.000	0.000	0.092	0.185	0.139	0.000	0.000	0.416
NW	0.000	0.000	0.000	0.000	0.000	0.139	0.000	0.000	0.000	0.139
NNW	0.000	0.000	0.000	0.046	0.092	0.092	0.000	0.000	0.000	0.231
SUBTOTAL	0.000	0.000	0.000	1.709	1.709	2.540	0.277	0.000	0.000	6.236

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2165
 TOTAL HOURS OF STABILITY CLASS A 135
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 135
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2165
 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: 2022/07/11

MEAN WIND SPEED = 7.34

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.323	0.231	0.000	0.000	0.000	0.600
NNE	0.000	0.000	0.000	0.000	0.139	0.185	0.000	0.000	0.000	0.323
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
SE	0.000	0.000	0.000	0.092	0.554	0.139	0.000	0.000	0.000	0.785
SSE	0.000	0.000	0.000	0.323	0.092	0.139	0.000	0.000	0.000	0.554
S	0.000	0.000	0.046	0.462	0.277	0.370	0.000	0.000	0.000	1.155
SSW	0.000	0.000	0.000	0.046	0.092	0.139	0.046	0.000	0.000	0.323
SW	0.000	0.000	0.092	0.323	0.092	0.139	0.000	0.000	0.000	0.647
WSW	0.000	0.000	0.046	0.231	0.277	0.000	0.000	0.000	0.000	0.554
W	0.000	0.000	0.000	0.416	0.370	0.139	0.000	0.000	0.000	0.924
WNW	0.000	0.000	0.000	0.000	0.139	0.231	0.323	0.000	0.000	0.693
NW	0.000	0.000	0.000	0.000	0.046	0.092	0.046	0.000	0.000	0.185
NNW	0.000	0.000	0.000	0.000	0.092	0.370	0.046	0.000	0.000	0.508
SUBTOTAL	0.000	0.000	0.185	1.940	2.540	2.171	0.462	0.000	0.000	7.298

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2165
 TOTAL HOURS OF STABILITY CLASS B 158
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 158
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2165
 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

MEAN WIND SPEED = 7.08

DATE PRINTED: 2022/07/11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.139	0.231	0.000	0.000	0.000	0.416
NNE	0.000	0.000	0.000	0.046	0.185	0.046	0.046	0.000	0.000	0.323
NE	0.000	0.000	0.000	0.000	0.092	0.139	0.000	0.000	0.000	0.231
ENE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
SE	0.000	0.000	0.046	0.554	0.185	0.092	0.000	0.000	0.000	0.878
SSE	0.000	0.000	0.185	0.323	0.185	0.139	0.000	0.000	0.000	0.831
S	0.000	0.000	0.046	0.370	0.185	0.323	0.000	0.000	0.000	0.924
SSW	0.000	0.000	0.046	0.092	0.092	0.323	0.092	0.000	0.000	0.647
SW	0.000	0.000	0.000	0.139	0.185	0.000	0.000	0.000	0.000	0.323
WSW	0.000	0.000	0.046	0.185	0.185	0.000	0.046	0.000	0.000	0.462
W	0.000	0.000	0.000	0.231	0.277	0.092	0.046	0.000	0.000	0.647
WNW	0.000	0.000	0.046	0.046	0.277	0.139	0.092	0.000	0.000	0.600
NW	0.000	0.000	0.000	0.000	0.092	0.277	0.092	0.000	0.000	0.462
NNW	0.000	0.000	0.000	0.000	0.092	0.416	0.000	0.000	0.000	0.508
SUBTOTAL	0.000	0.000	0.416	2.079	2.217	2.217	0.416	0.000	0.000	7.344

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2165
 TOTAL HOURS OF STABILITY CLASS C 159
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 159
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2165
 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

MEAN WIND SPEED = 6.88

DATE PRINTED: 2022/07/11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.139	0.508	0.600	0.185	0.000	0.000	0.000	1.432
NNE	0.000	0.000	0.092	0.554	0.554	0.370	0.000	0.000	0.000	1.570
NE	0.000	0.000	0.139	0.277	0.323	0.323	0.000	0.000	0.000	1.062
ENE	0.000	0.000	0.046	0.277	0.092	0.046	0.000	0.000	0.000	0.462
E	0.000	0.046	0.185	0.277	0.092	0.000	0.000	0.000	0.000	0.600
ESE	0.000	0.046	0.139	0.323	0.416	0.092	0.000	0.000	0.000	1.016
SE	0.000	0.000	0.693	1.801	1.570	0.600	0.046	0.000	0.000	4.711
SSE	0.000	0.000	0.554	1.062	0.739	0.600	0.000	0.000	0.000	2.956
S	0.000	0.000	0.785	0.970	0.878	3.141	0.231	0.046	0.000	6.051
SSW	0.000	0.000	0.508	0.647	0.277	1.478	0.277	0.000	0.000	3.187
SW	0.000	0.000	0.508	0.416	0.323	0.231	0.000	0.000	0.000	1.478
WSW	0.000	0.000	0.370	0.924	0.370	0.092	0.000	0.000	0.000	1.755
W	0.000	0.000	0.370	0.693	0.924	1.155	0.370	0.000	0.000	3.510
WNW	0.000	0.000	0.092	0.139	0.231	0.462	0.970	0.046	0.000	1.940
NW	0.000	0.000	0.185	0.416	0.554	0.970	0.508	0.000	0.000	2.633
NNW	0.000	0.000	0.323	0.554	0.554	0.970	0.000	0.000	0.000	2.402
SUBTOTAL	0.000	0.092	5.127	9.838	8.499	10.716	2.402	0.092	0.000	36.767

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2165
 TOTAL HOURS OF STABILITY CLASS D 796
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 796
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2165
 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

MEAN WIND SPEED = 6.78

DATE PRINTED: 2022/07/11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.739	0.462	0.092	0.046	0.000	0.000	0.000	1.386
NNE	0.000	0.046	0.092	0.785	0.739	0.139	0.000	0.000	0.000	1.801
NE	0.000	0.046	0.370	0.508	0.462	0.000	0.000	0.000	0.000	1.386
ENE	0.000	0.000	0.139	0.277	0.046	0.046	0.000	0.000	0.000	0.508
E	0.000	0.000	0.554	0.277	0.000	0.000	0.000	0.000	0.000	0.831
ESE	0.000	0.000	0.647	1.293	0.231	0.000	0.000	0.000	0.000	2.171
SE	0.000	0.185	0.693	0.693	0.370	0.092	0.000	0.000	0.000	2.032
SSE	0.000	0.185	0.831	0.924	0.462	0.416	0.000	0.000	0.000	2.818
S	0.000	0.000	0.277	0.600	1.109	1.339	0.924	0.092	0.000	4.342
SSW	0.000	0.092	0.647	0.323	0.277	0.508	0.092	0.000	0.000	1.940
SW	0.000	0.277	0.416	0.092	0.046	0.092	0.000	0.000	0.000	0.924
WSW	0.000	0.000	0.370	0.139	0.000	0.000	0.000	0.000	0.000	0.508
W	0.000	0.000	0.139	0.185	0.046	0.046	0.000	0.000	0.000	0.416
WNW	0.000	0.000	0.185	0.046	0.000	0.000	0.046	0.000	0.000	0.277
NW	0.000	0.000	0.277	0.277	0.000	0.092	0.000	0.000	0.000	0.647
NNW	0.000	0.000	0.462	0.370	0.323	0.139	0.000	0.000	0.000	1.293
SUBTOTAL	0.000	0.878	6.836	7.252	4.203	2.956	1.062	0.092	0.000	23.279

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2165
TOTAL HOURS OF STABILITY CLASS E 504
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 504
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2165
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

MEAN WIND SPEED = 5.23

DATE PRINTED: 2022/07/11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	1.016	0.462	0.046	0.000	0.000	0.000	0.000	1.570
NNE	0.000	0.139	0.785	0.508	0.185	0.046	0.000	0.000	0.000	1.663
NE	0.000	0.092	0.185	0.185	0.323	0.092	0.000	0.000	0.000	0.878
ENE	0.000	0.046	0.092	0.139	0.092	0.000	0.000	0.000	0.000	0.370
E	0.000	0.092	0.878	0.416	0.000	0.000	0.000	0.000	0.000	1.386
ESE	0.000	0.000	0.462	0.416	0.046	0.000	0.000	0.000	0.000	0.924
SE	0.000	0.092	0.831	0.231	0.046	0.000	0.000	0.000	0.000	1.201
SSE	0.000	0.139	0.139	0.416	0.370	0.462	0.000	0.000	0.000	1.524
S	0.000	0.139	0.092	0.092	0.046	0.139	0.046	0.000	0.000	0.554
SSW	0.000	0.092	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.139
SW	0.000	0.092	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.139
WSW	0.000	0.000	0.092	0.046	0.046	0.000	0.000	0.000	0.000	0.185
W	0.000	0.000	0.046	0.139	0.000	0.000	0.000	0.000	0.000	0.185
WNW	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
NW	0.000	0.046	0.092	0.046	0.000	0.000	0.000	0.000	0.000	0.185
NNW	0.000	0.092	0.508	0.277	0.092	0.046	0.000	0.000	0.000	1.016
SUBTOTAL	0.000	1.109	5.266	3.372	1.339	0.831	0.046	0.000	0.000	11.963

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2165
 TOTAL HOURS OF STABILITY CLASS F 259
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 259
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2165
 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

MEAN WIND SPEED = 3.84

DATE PRINTED: 2022/07/11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 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

APR 1, 2022 - JUN 30, 2022

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	0.092	0.831	0.739	0.000	0.000	0.000	0.000	0.000	1.663
NNE	0.000	0.000	0.554	0.693	0.046	0.000	0.000	0.000	0.000	1.293
NE	0.000	0.231	0.739	0.231	0.000	0.000	0.000	0.000	0.000	1.201
ENE	0.000	0.046	0.554	0.323	0.000	0.000	0.000	0.000	0.000	0.924
E	0.000	0.092	0.231	0.046	0.000	0.000	0.000	0.000	0.000	0.370
ESE	0.000	0.046	0.092	0.046	0.000	0.000	0.000	0.000	0.000	0.185
SE	0.000	0.185	0.231	0.000	0.000	0.000	0.000	0.000	0.000	0.416
SSE	0.000	0.000	0.139	0.139	0.139	0.092	0.000	0.000	0.000	0.508
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	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.092	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.139
NNW	0.000	0.092	0.231	0.000	0.000	0.000	0.000	0.000	0.000	0.323
SUBTOTAL	0.000	0.970	3.649	2.217	0.185	0.092	0.000	0.000	0.000	7.113

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2165
TOTAL HOURS OF STABILITY CLASS G 154
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 154
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2165
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

MEAN WIND SPEED = 2.96

DATE PRINTED: 2022/07/11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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

Joint Frequency Distribution In Percent

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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

JUL 1, 2022 - SEP 30, 2022

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	0.500	0.000	0.000	0.000	0.500
NNE	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.045
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.091	0.182	0.136	0.000	0.000	0.000	0.409
SSE	0.000	0.000	0.045	0.682	0.091	0.000	0.000	0.000	0.000	0.819
S	0.000	0.000	0.000	1.046	0.773	0.091	0.000	0.000	0.000	1.911
SSW	0.000	0.000	0.045	0.819	1.137	0.409	0.000	0.000	0.000	2.411
SW	0.000	0.000	0.000	0.910	0.819	0.318	0.000	0.000	0.000	2.047
WSW	0.000	0.000	0.000	0.546	0.182	0.136	0.000	0.000	0.000	0.864
W	0.000	0.000	0.000	0.227	0.364	0.318	0.000	0.000	0.000	0.910
WNW	0.000	0.000	0.000	0.091	0.136	0.045	0.000	0.000	0.000	0.273
NW	0.000	0.000	0.000	0.045	0.000	0.045	0.045	0.000	0.000	0.136
NNW	0.000	0.000	0.000	0.000	0.000	0.091	0.045	0.000	0.000	0.136
SUBTOTAL	0.000	0.000	0.091	4.459	3.685	2.138	0.091	0.000	0.000	10.464

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
TOTAL HOURS OF STABILITY CLASS A 230
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 230
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 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2022/10/12

MEAN WIND SPEED = 6.13

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.091	0.000	0.000	0.000	0.136
NNE	0.000	0.000	0.000	0.000	0.045	0.273	0.000	0.000	0.000	0.318
NE	0.000	0.000	0.000	0.000	0.000	0.136	0.000	0.000	0.000	0.136
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	0.637	0.318	0.000	0.000	0.000	0.000	0.955
SSE	0.000	0.000	0.045	0.500	0.000	0.000	0.000	0.000	0.000	0.546
S	0.000	0.000	0.045	0.637	0.091	0.000	0.000	0.000	0.000	0.773
SSW	0.000	0.000	0.136	0.318	0.136	0.045	0.000	0.000	0.000	0.637
SW	0.000	0.000	0.136	0.500	0.136	0.045	0.000	0.000	0.000	0.819
WSW	0.000	0.000	0.000	0.318	0.136	0.045	0.000	0.000	0.000	0.500
W	0.000	0.000	0.000	0.136	0.227	0.182	0.000	0.000	0.000	0.546
WNW	0.000	0.000	0.000	0.045	0.000	0.182	0.045	0.000	0.000	0.273
NW	0.000	0.000	0.000	0.000	0.045	0.045	0.045	0.000	0.000	0.136
NNW	0.000	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.091
SUBTOTAL	0.000	0.000	0.364	3.094	1.183	1.137	0.091	0.000	0.000	5.869

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
 TOTAL HOURS OF STABILITY CLASS B 129
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 129
 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 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

MEAN WIND SPEED = 5.78

DATE PRINTED: 2022/10/12

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.182	0.136	0.000	0.000	0.000	0.318
NNE	0.000	0.000	0.000	0.000	0.273	0.136	0.000	0.000	0.000	0.409
NE	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.045
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.045
SE	0.000	0.000	0.000	0.637	0.455	0.000	0.000	0.000	0.000	1.092
SSE	0.000	0.000	0.136	0.728	0.000	0.000	0.000	0.000	0.000	0.864
S	0.000	0.000	0.136	0.546	0.136	0.045	0.000	0.000	0.000	0.864
SSW	0.000	0.000	0.182	0.273	0.227	0.091	0.000	0.000	0.000	0.773
SW	0.000	0.000	0.227	0.364	0.227	0.045	0.000	0.000	0.000	0.864
WSW	0.000	0.000	0.045	0.455	0.091	0.045	0.000	0.000	0.000	0.637
W	0.000	0.000	0.000	0.182	0.227	0.091	0.000	0.000	0.000	0.500
WNW	0.000	0.000	0.000	0.000	0.045	0.182	0.000	0.000	0.000	0.227
NW	0.000	0.000	0.000	0.000	0.182	0.182	0.000	0.000	0.000	0.364
NNW	0.000	0.000	0.000	0.000	0.045	0.091	0.000	0.000	0.000	0.136
SUBTOTAL	0.000	0.000	0.773	3.185	2.093	1.092	0.000	0.000	0.000	7.143

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
 TOTAL HOURS OF STABILITY CLASS C 157
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 157
 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 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2022/10/12

MEAN WIND SPEED = 5.45

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.227	0.409	0.500	0.000	0.000	0.000	1.137
NNE	0.000	0.000	0.136	0.500	0.819	0.364	0.000	0.000	0.000	1.820
NE	0.000	0.045	0.364	0.318	0.364	0.273	0.091	0.000	0.000	1.456
ENE	0.000	0.000	0.182	0.409	0.136	0.045	0.000	0.000	0.000	0.773
E	0.000	0.000	0.227	0.318	0.273	0.000	0.000	0.000	0.000	0.819
ESE	0.000	0.000	0.500	0.591	0.455	0.000	0.000	0.000	0.000	1.547
SE	0.000	0.000	0.637	2.093	0.409	0.136	0.000	0.000	0.000	3.276
SSE	0.000	0.000	0.819	1.183	0.000	0.000	0.000	0.000	0.000	2.002
S	0.000	0.000	1.456	3.685	1.911	0.637	0.000	0.000	0.000	7.689
SSW	0.000	0.000	0.910	3.685	1.547	1.001	0.000	0.000	0.000	7.143
SW	0.000	0.000	1.865	1.592	0.227	0.136	0.000	0.000	0.000	3.822
WSW	0.000	0.000	1.001	1.683	0.273	0.182	0.000	0.000	0.000	3.139
W	0.000	0.000	0.182	0.409	1.001	0.227	0.000	0.000	0.000	1.820
WNW	0.000	0.000	0.000	0.091	0.227	0.227	0.000	0.000	0.000	0.546
NW	0.000	0.000	0.136	0.182	0.136	0.091	0.045	0.000	0.000	0.591
NNW	0.000	0.091	0.182	0.318	0.500	0.227	0.000	0.000	0.000	1.319
SUBTOTAL	0.000	0.136	8.599	17.288	8.690	4.049	0.136	0.000	0.000	38.899

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
TOTAL HOURS OF STABILITY CLASS D 855
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 855
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 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

MEAN WIND SPEED = 4.95

DATE PRINTED: 2022/10/12

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.728	0.318	0.091	0.136	0.000	0.000	0.000	1.274
NNE	0.000	0.000	0.682	1.274	0.773	0.273	0.000	0.000	0.000	3.003
NE	0.000	0.091	0.637	0.318	0.500	0.136	0.000	0.000	0.000	1.683
ENE	0.000	0.000	0.318	0.318	0.045	0.000	0.000	0.000	0.000	0.682
E	0.000	0.000	1.274	0.955	0.000	0.000	0.000	0.000	0.000	2.229
ESE	0.000	0.045	1.183	1.228	0.091	0.000	0.000	0.000	0.000	2.548
SE	0.000	0.000	1.001	0.227	0.000	0.000	0.000	0.000	0.000	1.228
SSE	0.000	0.045	0.819	0.182	0.045	0.000	0.000	0.000	0.000	1.092
S	0.000	0.000	0.910	0.819	0.318	0.136	0.000	0.000	0.000	2.184
SSW	0.000	0.091	0.409	0.546	0.409	0.000	0.000	0.000	0.000	1.456
SW	0.000	0.045	0.500	0.091	0.045	0.000	0.000	0.000	0.000	0.682
WSW	0.000	0.000	0.500	0.136	0.000	0.000	0.000	0.000	0.000	0.637
W	0.000	0.000	0.136	0.227	0.045	0.045	0.000	0.000	0.000	0.455
WNW	0.000	0.000	0.136	0.227	0.000	0.091	0.045	0.000	0.000	0.500
NW	0.000	0.000	0.182	0.045	0.091	0.091	0.000	0.000	0.000	0.409
NNW	0.000	0.091	0.318	0.227	0.136	0.000	0.000	0.000	0.000	0.773
SUBTOTAL	0.000	0.409	9.736	7.143	2.593	0.910	0.045	0.000	0.000	20.837

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
TOTAL HOURS OF STABILITY CLASS E 458
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 458
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 45.30 METERS
WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

MEAN WIND SPEED = 3.84

DATE PRINTED: 2022/10/12

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.955	0.955	0.045	0.000	0.000	0.000	0.000	2.002
NNE	0.000	0.045	0.637	1.046	0.455	0.000	0.000	0.000	0.000	2.184
NE	0.000	0.136	0.409	0.045	0.045	0.000	0.000	0.000	0.000	0.637
ENE	0.000	0.091	0.591	0.546	0.000	0.000	0.000	0.000	0.000	1.228
E	0.000	0.045	0.682	0.728	0.045	0.000	0.000	0.000	0.000	1.501
ESE	0.000	0.045	0.182	0.227	0.045	0.000	0.000	0.000	0.000	0.500
SE	0.000	0.000	0.045	0.091	0.000	0.000	0.000	0.000	0.000	0.136
SSE	0.000	0.045	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.182
S	0.000	0.045	0.182	0.045	0.045	0.045	0.000	0.000	0.000	0.364
SSW	0.000	0.000	0.045	0.000	0.045	0.000	0.000	0.000	0.000	0.091
SW	0.000	0.000	0.182	0.000	0.000	0.000	0.000	0.000	0.000	0.182
WSW	0.000	0.136	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.227
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	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.091
NW	0.000	0.045	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.136
NNW	0.000	0.045	0.364	0.045	0.136	0.045	0.000	0.000	0.000	0.637
SUBTOTAL	0.000	0.728	4.686	3.776	0.864	0.091	0.000	0.000	0.000	10.146

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
 TOTAL HOURS OF STABILITY CLASS F 223
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 223
 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 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2022/10/12

MEAN WIND SPEED = 3.39

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 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 STA 52 D - Validated Edited Data

JUL 1, 2022 - SEP 30, 2022

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	0.182	1.137	0.819	0.000	0.000	0.000	0.000	0.000	2.138
NNE	0.000	0.182	0.910	0.318	0.273	0.000	0.000	0.000	0.000	1.683
NE	0.000	0.000	0.682	0.045	0.000	0.000	0.000	0.000	0.000	0.728
ENE	0.000	0.091	0.409	0.182	0.000	0.000	0.000	0.000	0.000	0.682
E	0.000	0.045	0.318	0.136	0.045	0.000	0.000	0.000	0.000	0.546
ESE	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.091
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	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045
SSW	0.000	0.045	0.000	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	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.091
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.091
NW	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.045
NNW	0.000	0.000	0.364	0.000	0.000	0.000	0.000	0.000	0.000	0.364
SUBTOTAL	0.000	0.728	4.049	1.501	0.318	0.045	0.000	0.000	0.000	6.642

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
 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 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 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT 10.50 METER LEVEL

DATE PRINTED: 2022/10/12

MEAN WIND SPEED = 2.88

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

Table 6-D Ground Level Releases - 4th Quarter JFD

Joint Frequency Distribution In Percent

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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

OCT 1, 2022 - DEC 31, 2022

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.000	0.000	0.227	0.000	0.000	0.000	0.227
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.045
SE	0.000	0.000	0.000	0.091	0.409	0.091	0.000	0.000	0.000	0.591
SSE	0.000	0.000	0.000	0.136	0.045	0.000	0.000	0.000	0.000	0.182
S	0.000	0.000	0.136	0.091	0.000	0.000	0.000	0.000	0.000	0.227
SSW	0.000	0.000	0.000	0.227	0.000	0.000	0.000	0.000	0.000	0.227
SW	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.091
WSW	0.000	0.000	0.000	0.045	0.136	0.000	0.000	0.000	0.000	0.182
W	0.000	0.000	0.000	0.045	0.000	0.136	0.045	0.000	0.000	0.227
WNW	0.000	0.000	0.000	0.000	0.000	0.045	0.091	0.000	0.000	0.136
NW	0.000	0.000	0.000	0.000	0.000	0.136	0.045	0.000	0.000	0.182
NNW	0.000	0.000	0.000	0.000	0.000	0.409	0.045	0.000	0.000	0.455
SUBTOTAL	0.000	0.000	0.136	0.727	0.636	1.045	0.227	0.000	0.000	2.773

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2202
TOTAL HOURS OF STABILITY CLASS A 62
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 61
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2200
TOTAL HOURS CALM 0

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

MEAN WIND SPEED = 8.00

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.364	0.000	0.000	0.000	0.455
NNE	0.000	0.000	0.000	0.000	0.000	0.136	0.000	0.000	0.000	0.136
NE	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.045
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.045
SE	0.000	0.000	0.000	0.182	0.136	0.227	0.000	0.000	0.000	0.545
SSE	0.000	0.000	0.000	0.136	0.091	0.045	0.000	0.000	0.000	0.273
S	0.000	0.000	0.045	0.091	0.000	0.000	0.000	0.000	0.000	0.136
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	0.045	0.000	0.045	0.000	0.000	0.000	0.091
WSW	0.000	0.000	0.091	0.045	0.091	0.227	0.000	0.000	0.000	0.455
W	0.000	0.000	0.045	0.045	0.364	0.409	0.045	0.000	0.000	0.909
WNW	0.000	0.000	0.000	0.091	0.136	0.409	0.227	0.000	0.000	0.864
NW	0.000	0.000	0.000	0.000	0.091	0.364	0.045	0.000	0.000	0.500
NNW	0.000	0.000	0.000	0.000	0.045	0.136	0.045	0.000	0.000	0.227
SUBTOTAL	0.000	0.000	0.182	0.682	1.091	2.364	0.364	0.000	0.000	4.682

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2202
 TOTAL HOURS OF STABILITY CLASS B 103
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 103
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2200
 TOTAL HOURS CALM 0

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

MEAN WIND SPEED = 8.18

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.136	0.000	0.000	0.000	0.136
NNE	0.000	0.000	0.000	0.000	0.182	0.227	0.000	0.000	0.000	0.409
NE	0.000	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.091
ENE	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.045
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.182	0.500	0.182	0.000	0.000	0.000	0.864
SSE	0.000	0.000	0.091	0.182	0.091	0.000	0.000	0.000	0.000	0.364
S	0.000	0.000	0.136	0.045	0.136	0.000	0.000	0.000	0.000	0.318
SSW	0.000	0.000	0.000	0.182	0.000	0.000	0.000	0.000	0.000	0.182
SW	0.000	0.000	0.000	0.091	0.045	0.091	0.000	0.000	0.000	0.227
WSW	0.000	0.000	0.000	0.045	0.000	0.091	0.000	0.000	0.000	0.136
W	0.000	0.000	0.045	0.136	0.045	0.227	0.045	0.000	0.000	0.500
WNW	0.000	0.000	0.000	0.000	0.182	0.364	0.091	0.000	0.000	0.636
NW	0.000	0.000	0.000	0.000	0.136	0.318	0.091	0.000	0.000	0.545
NNW	0.000	0.000	0.000	0.000	0.000	0.591	0.000	0.000	0.000	0.591
SUBTOTAL	0.000	0.000	0.273	0.909	1.318	2.318	0.227	0.000	0.000	5.045

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2202
 TOTAL HOURS OF STABILITY CLASS C 111
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 111
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2200
 TOTAL HOURS CALM 0

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

MEAN WIND SPEED = 7.57

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.409	0.182	0.318	0.318	0.000	0.000	0.000	1.227
NNE	0.000	0.000	0.182	0.500	0.818	0.182	0.000	0.000	0.000	1.682
NE	0.000	0.000	0.182	0.727	0.545	0.318	0.000	0.000	0.000	1.773
ENE	0.000	0.000	0.182	0.409	0.136	0.045	0.000	0.000	0.000	0.773
E	0.000	0.000	0.318	0.318	0.045	0.000	0.000	0.000	0.000	0.682
ESE	0.000	0.000	0.136	0.955	0.682	0.136	0.000	0.000	0.000	1.909
SE	0.000	0.000	0.182	1.136	1.045	2.091	0.182	0.000	0.000	4.636
SSE	0.000	0.000	0.409	0.500	0.773	0.545	0.000	0.000	0.000	2.227
S	0.000	0.000	0.409	0.409	0.364	0.727	0.045	0.000	0.000	1.955
SSW	0.000	0.000	0.318	0.273	0.045	0.227	0.000	0.000	0.000	0.864
SW	0.000	0.000	0.318	0.227	0.364	0.318	0.136	0.000	0.000	1.364
WSW	0.000	0.000	0.182	0.773	0.409	0.364	0.000	0.000	0.000	1.727
W	0.000	0.000	0.091	0.591	0.864	1.591	0.182	0.000	0.000	3.318
WNW	0.000	0.000	0.136	0.318	0.455	0.909	0.500	0.045	0.000	2.364
NW	0.000	0.000	0.091	0.318	0.636	1.636	0.409	0.318	0.045	3.455
NNW	0.000	0.045	0.136	0.455	0.773	1.955	0.045	0.000	0.000	3.409
SUBTOTAL	0.000	0.045	3.682	8.091	8.273	11.364	1.500	0.364	0.045	33.364

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2202
 TOTAL HOURS OF STABILITY CLASS D 735
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 734
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2200
 TOTAL HOURS CALM 0

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

MEAN WIND SPEED = 7.14

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - DEC 31, 2022

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	1.182	0.636	0.273	0.000	0.000	0.000	0.000	2.182
NNE	0.000	0.000	0.636	1.455	0.409	0.045	0.045	0.000	0.000	2.591
NE	0.000	0.045	0.727	0.727	0.364	0.000	0.000	0.000	0.000	1.864
ENE	0.000	0.000	0.727	0.364	0.136	0.000	0.000	0.000	0.000	1.227
E	0.000	0.045	0.818	0.818	0.091	0.091	0.000	0.000	0.000	1.864
ESE	0.000	0.000	0.818	1.773	0.727	0.136	0.000	0.000	0.000	3.455
SE	0.000	0.045	1.000	1.318	0.318	0.545	0.000	0.000	0.000	3.227
SSE	0.000	0.000	0.773	0.545	0.682	0.955	0.227	0.000	0.000	3.182
S	0.000	0.091	0.545	0.182	0.455	1.091	0.227	0.000	0.000	2.591
SSW	0.000	0.045	0.318	0.045	0.182	0.591	0.045	0.000	0.000	1.227
SW	0.000	0.000	0.318	0.182	0.136	0.136	0.000	0.000	0.000	0.773
WSW	0.000	0.000	0.227	0.091	0.136	0.000	0.000	0.000	0.000	0.455
W	0.000	0.091	0.318	0.455	0.227	0.045	0.000	0.000	0.000	1.136
WNW	0.000	0.000	0.000	0.182	0.136	0.091	0.000	0.000	0.000	0.409
NW	0.000	0.000	0.318	0.636	0.227	0.273	0.000	0.000	0.000	1.455
NNW	0.000	0.091	0.818	0.682	1.227	0.545	0.000	0.000	0.000	3.364
SUBTOTAL	0.000	0.545	9.545	10.091	5.727	4.545	0.545	0.000	0.000	31.000

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2202
 TOTAL HOURS OF STABILITY CLASS E 682
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 682
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2200
 TOTAL HOURS CALM 0

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

MEAN WIND SPEED = 5.04

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.727	0.955	0.000	0.000	0.000	0.000	0.000	1.727
NNE	0.000	0.000	0.500	0.909	0.136	0.000	0.000	0.000	0.000	1.545
NE	0.000	0.000	0.091	0.136	0.045	0.000	0.000	0.000	0.000	0.273
ENE	0.000	0.000	0.136	0.136	0.000	0.000	0.000	0.000	0.000	0.273
E	0.000	0.000	0.545	0.273	0.000	0.000	0.000	0.000	0.000	0.818
ESE	0.000	0.045	0.727	0.727	0.136	0.000	0.000	0.000	0.000	1.636
SE	0.000	0.045	0.500	0.591	0.455	0.227	0.000	0.000	0.000	1.818
SSE	0.000	0.000	0.318	0.727	0.409	0.682	0.091	0.000	0.000	2.227
S	0.000	0.000	0.136	0.091	0.182	0.227	0.000	0.000	0.000	0.636
SSW	0.000	0.000	0.273	0.136	0.000	0.000	0.000	0.000	0.000	0.409
SW	0.000	0.045	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.136
WSW	0.000	0.091	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.136
W	0.000	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.091
WNW	0.000	0.045	0.182	0.000	0.000	0.000	0.000	0.000	0.000	0.227
NW	0.000	0.045	0.182	0.045	0.000	0.000	0.000	0.000	0.000	0.273
NNW	0.000	0.091	0.409	0.455	0.091	0.000	0.000	0.000	0.000	1.045
SUBTOTAL	0.000	0.500	4.909	5.182	1.455	1.136	0.091	0.000	0.000	13.273

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2202
TOTAL HOURS OF STABILITY CLASS F 292
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 292
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2200
TOTAL HOURS CALM 0

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

MEAN WIND SPEED = 4.16

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 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, 2022 - DEC 31, 2022

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	0.182	1.955	1.227	0.182	0.000	0.000	0.000	0.000	3.545
NNE	0.000	0.318	0.727	0.727	0.045	0.000	0.000	0.000	0.000	1.818
NE	0.000	0.136	0.364	0.182	0.000	0.000	0.000	0.000	0.000	0.682
ENE	0.000	0.045	0.364	0.273	0.000	0.000	0.000	0.000	0.000	0.682
E	0.000	0.000	0.273	0.045	0.000	0.000	0.000	0.000	0.000	0.318
ESE	0.000	0.000	0.045	0.091	0.000	0.000	0.000	0.000	0.000	0.136
SE	0.000	0.091	0.364	0.136	0.227	0.045	0.000	0.000	0.000	0.864
SSE	0.000	0.045	0.273	0.136	0.091	0.273	0.000	0.000	0.000	0.818
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.091
SW	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.091
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.091
WNW	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045
NW	0.000	0.136	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.273
NNW	0.000	0.000	0.318	0.091	0.000	0.000	0.000	0.000	0.000	0.409
SUBTOTAL	0.000	1.091	5.000	2.909	0.545	0.318	0.000	0.000	0.000	9.864

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2202
TOTAL HOURS OF STABILITY CLASS G 217
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 217
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2200
TOTAL HOURS CALM 0

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

MEAN WIND SPEED = 3.22

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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

Joint Frequency Distribution In Percent

(Ground Level Release Mode and Elevated Release Mode)

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2022 - MAR 31, 2022

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	0.036	0.000	0.000	0.000	0.048
NNE	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0.000	0.000	0.030
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	0.019	0.000	0.000	0.000	0.019
SE	0.000	0.000	0.000	0.005	0.027	0.051	0.046	0.000	0.000	0.129
SSE	0.000	0.000	0.000	0.000	0.009	0.048	0.000	0.000	0.000	0.057
S	0.000	0.000	0.000	0.000	0.035	0.000	0.000	0.000	0.000	0.035
SSW	0.000	0.000	0.000	0.000	0.030	0.000	0.000	0.000	0.000	0.030
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0.000	0.000	0.027
WSW	0.000	0.000	0.000	0.002	0.009	0.000	0.000	0.000	0.000	0.012
W	0.000	0.000	0.000	0.000	0.006	0.000	0.012	0.000	0.000	0.018
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.051	0.000	0.000	0.051
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.022	0.000	0.000	0.022
NNW	0.000	0.000	0.000	0.000	0.000	0.036	0.025	0.000	0.000	0.061
SUBTOTAL	0.000	0.000	0.000	0.007	0.129	0.220	0.183	0.000	0.000	0.538

TOTAL HOURS OF VALID OBSERVATIONS 1811.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 273.330
 TOTAL HOURS OF STABILITY CLASS A 9.750
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 9.750

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

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2022 - MAR 31, 2022

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	0.021	0.168	0.000	0.000	0.000	0.189
NNE	0.000	0.000	0.000	0.000	0.014	0.042	0.000	0.000	0.000	0.056
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	0.008	0.013	0.009	0.000	0.000	0.000	0.029
SSE	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.009
S	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.005
SSW	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.005
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.018	0.007	0.023	0.000	0.000	0.047
W	0.000	0.000	0.000	0.000	0.005	0.039	0.011	0.000	0.000	0.055
WNW	0.000	0.000	0.000	0.000	0.003	0.021	0.018	0.076	0.000	0.118
NW	0.000	0.000	0.000	0.000	0.006	0.010	0.054	0.000	0.000	0.070
NNW	0.000	0.000	0.000	0.000	0.005	0.016	0.022	0.000	0.000	0.043
SUBTOTAL	0.000	0.000	0.000	0.008	0.103	0.311	0.128	0.076	0.000	0.627

TOTAL HOURS OF VALID OBSERVATIONS 1811.000
TOTAL HOURS OF GROUND LEVEL RELEASE 273.330
TOTAL HOURS OF STABILITY CLASS B 13.300
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 11.350

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

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2022 - MAR 31, 2022

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	0.021	0.062	0.000	0.000	0.000	0.083
NNE	0.000	0.000	0.000	0.000	0.034	0.022	0.000	0.000	0.000	0.056
NE	0.000	0.000	0.000	0.000	0.002	0.009	0.000	0.000	0.000	0.012
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	0.004	0.000	0.000	0.000	0.000	0.004
SE	0.000	0.000	0.000	0.000	0.033	0.037	0.000	0.000	0.000	0.070
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	0.003	0.000	0.019	0.000	0.000	0.000	0.022
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	0.003	0.000	0.034	0.000	0.000	0.037
WSW	0.000	0.000	0.000	0.005	0.008	0.034	0.017	0.000	0.000	0.064
W	0.000	0.000	0.000	0.000	0.015	0.040	0.041	0.000	0.000	0.097
WNW	0.000	0.000	0.000	0.000	0.003	0.052	0.065	0.035	0.000	0.155
NW	0.000	0.000	0.000	0.000	0.004	0.023	0.025	0.000	0.000	0.052
NNW	0.000	0.000	0.000	0.001	0.006	0.039	0.000	0.000	0.000	0.045
SUBTOTAL	0.000	0.000	0.000	0.009	0.132	0.337	0.182	0.035	0.000	0.696

TOTAL HOURS OF VALID OBSERVATIONS 1811.000
TOTAL HOURS OF GROUND LEVEL RELEASE 273.330
TOTAL HOURS OF STABILITY CLASS C 39.060
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 12.610

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

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2022 - MAR 31, 2022

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	0.018	0.103	0.268	0.000	0.000	0.000	0.389
NNE	0.000	0.000	0.000	0.007	0.048	0.190	0.000	0.000	0.000	0.245
NE	0.000	0.000	0.000	0.001	0.033	0.046	0.000	0.000	0.000	0.080
ENE	0.000	0.000	0.000	0.001	0.036	0.046	0.000	0.000	0.000	0.083
E	0.000	0.000	0.001	0.015	0.047	0.035	0.000	0.000	0.000	0.098
ESE	0.000	0.000	0.000	0.031	0.055	0.039	0.000	0.000	0.000	0.125
SE	0.000	0.000	0.000	0.019	0.026	0.210	0.000	0.000	0.000	0.256
SSE	0.000	0.000	0.000	0.014	0.025	0.186	0.000	0.000	0.000	0.225
S	0.000	0.000	0.000	0.002	0.043	0.143	0.012	0.000	0.000	0.199
SSW	0.000	0.000	0.000	0.002	0.040	0.073	0.029	0.000	0.000	0.145
SW	0.000	0.000	0.000	0.010	0.010	0.116	0.020	0.000	0.000	0.157
WSW	0.000	0.000	0.000	0.006	0.044	0.120	0.000	0.000	0.000	0.170
W	0.000	0.000	0.000	0.002	0.038	0.265	0.022	0.000	0.000	0.327
WNW	0.000	0.000	0.000	0.002	0.025	0.155	0.260	0.125	0.000	0.567
NW	0.000	0.000	0.000	0.004	0.042	0.336	0.343	0.147	0.000	0.873
NNW	0.000	0.000	0.000	0.004	0.030	0.357	0.377	0.103	0.000	0.871
SUBTOTAL	0.000	0.000	0.001	0.139	0.645	2.586	1.064	0.375	0.000	4.809

TOTAL HOURS OF VALID OBSERVATIONS 1811.000
TOTAL HOURS OF GROUND LEVEL RELEASE 273.330
TOTAL HOURS OF STABILITY CLASS D 784.950
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 87.090

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: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2022 - MAR 31, 2022

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	0.030	0.054	0.103	0.000	0.000	0.000	0.194
NNE	0.000	0.000	0.008	0.073	0.024	0.017	0.000	0.000	0.000	0.122
NE	0.000	0.000	0.007	0.041	0.038	0.067	0.000	0.000	0.000	0.154
ENE	0.000	0.000	0.012	0.019	0.034	0.000	0.000	0.000	0.000	0.065
E	0.000	0.000	0.002	0.036	0.015	0.020	0.000	0.000	0.000	0.075
ESE	0.000	0.000	0.008	0.047	0.025	0.010	0.000	0.000	0.000	0.091
SE	0.000	0.000	0.005	0.040	0.191	0.521	0.046	0.000	0.000	0.802
SSE	0.000	0.000	0.003	0.047	0.114	0.824	0.086	0.000	0.000	1.074
S	0.000	0.000	0.001	0.030	0.109	0.278	1.150	0.607	0.000	2.176
SSW	0.000	0.000	0.002	0.027	0.036	0.032	0.117	0.052	0.000	0.266
SW	0.000	0.000	0.000	0.013	0.016	0.033	0.000	0.000	0.000	0.062
WSW	0.000	0.000	0.004	0.006	0.008	0.009	0.000	0.000	0.000	0.027
W	0.000	0.000	0.005	0.031	0.028	0.000	0.000	0.000	0.000	0.064
WNW	0.000	0.000	0.000	0.032	0.013	0.027	0.022	0.000	0.000	0.093
NW	0.000	0.000	0.004	0.043	0.060	0.054	0.000	0.000	0.000	0.161
NNW	0.000	0.000	0.014	0.039	0.080	0.038	0.000	0.000	0.000	0.171
SUBTOTAL	0.000	0.000	0.083	0.553	0.845	2.034	1.420	0.659	0.000	5.595

TOTAL HOURS OF VALID OBSERVATIONS 1811.000
TOTAL HOURS OF GROUND LEVEL RELEASE 273.330
TOTAL HOURS OF STABILITY CLASS E 669.580
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 101.320

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: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2022 - MAR 31, 2022

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	0.012	0.028	0.000	0.000	0.000	0.000	0.000	0.040
NNE	0.000	0.000	0.007	0.026	0.008	0.000	0.000	0.000	0.000	0.041
NE	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.009
ENE	0.000	0.000	0.012	0.021	0.000	0.000	0.000	0.000	0.000	0.033
E	0.000	0.000	0.068	0.056	0.000	0.000	0.000	0.000	0.000	0.125
ESE	0.000	0.000	0.041	0.051	0.018	0.000	0.000	0.000	0.000	0.110
SE	0.000	0.000	0.049	0.048	0.096	0.075	0.000	0.000	0.000	0.268
SSE	0.000	0.000	0.010	0.028	0.085	0.586	0.155	0.055	0.000	0.919
S	0.000	0.000	0.016	0.015	0.049	0.176	0.127	0.055	0.000	0.438
SSW	0.000	0.000	0.007	0.007	0.008	0.000	0.000	0.000	0.000	0.023
SW	0.000	0.000	0.003	0.000	0.024	0.011	0.000	0.000	0.000	0.038
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.007	0.004	0.000	0.000	0.000	0.000	0.000	0.011
WNW	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.006
NW	0.000	0.000	0.002	0.015	0.000	0.000	0.000	0.000	0.000	0.017
NNW	0.000	0.000	0.015	0.075	0.009	0.000	0.000	0.000	0.000	0.098
SUBTOTAL	0.000	0.000	0.258	0.379	0.297	0.848	0.282	0.110	0.000	2.175

TOTAL HOURS OF VALID OBSERVATIONS 1811.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 273.330
 TOTAL HOURS OF STABILITY CLASS F 243.890
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 39.390

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

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

PART 1 OF 2 GROUND LEVEL RELEASE MODE

JAN 1, 2022 - MAR 31, 2022

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	0.004	0.000	0.000	0.000	0.000	0.000	0.004
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.002	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.010
ESE	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.004
SE	0.000	0.000	0.033	0.049	0.080	0.019	0.000	0.000	0.000	0.182
SSE	0.000	0.001	0.009	0.018	0.083	0.273	0.000	0.000	0.000	0.384
S	0.000	0.001	0.010	0.008	0.000	0.029	0.000	0.000	0.000	0.049
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.003
WSW	0.000	0.000	0.000	0.000	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	0.007	0.000	0.000	0.000	0.000	0.000	0.007
NNW	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.008
SUBTOTAL	0.000	0.007	0.068	0.093	0.163	0.322	0.000	0.000	0.000	0.653

TOTAL HOURS OF VALID OBSERVATIONS 1811.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 273.330
 TOTAL HOURS OF STABILITY CLASS G 50.470
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 11.820

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: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2022 - MAR 31, 2022

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 1811.000
 TOTAL HOURS OF ELEVATED RELEASES 1537.670
 TOTAL HOURS OF STABILITY CLASS A 9.750
 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: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2022 - MAR 31, 2022

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	0.009	0.009
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	0.049	0.000	0.000	0.000	0.049
S	0.000	0.000	0.000	0.000	0.000	0.050	0.000	0.000	0.000	0.050
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	0.099	0.000	0.000	0.009	0.108

TOTAL HOURS OF VALID OBSERVATIONS 1811.000
 TOTAL HOURS OF ELEVATED RELEASES 1537.670
 TOTAL HOURS OF STABILITY CLASS B 13.300
 TOTAL HOURS OF ELEVATED STABILITY CLASS B 1.950

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

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2022 - MAR 31, 2022

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.000	0.000	0.237	0.092	0.000	0.000	0.329
NNE	0.000	0.000	0.000	0.000	0.000	0.141	0.000	0.000	0.000	0.141
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.097	0.000	0.000	0.000	0.097
SE	0.000	0.000	0.000	0.000	0.055	0.000	0.000	0.000	0.000	0.055
SSE	0.000	0.000	0.000	0.000	0.000	0.047	0.135	0.000	0.000	0.182
S	0.000	0.000	0.000	0.000	0.000	0.099	0.000	0.000	0.000	0.099
SSW	0.000	0.000	0.000	0.000	0.000	0.144	0.000	0.000	0.000	0.144
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	0.051	0.150	0.087	0.000	0.000	0.288
W	0.000	0.000	0.000	0.000	0.000	0.000	0.044	0.024	0.000	0.068
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.056	0.000	0.056
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	0.107	0.916	0.358	0.080	0.000	1.461

TOTAL HOURS OF VALID OBSERVATIONS 1811.000
TOTAL HOURS OF ELEVATED RELEASES 1537.670
TOTAL HOURS OF STABILITY CLASS C 39.060
TOTAL HOURS OF ELEVATED STABILITY CLASS C 26.450

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

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2022 - MAR 31, 2022

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	0.110	0.387	0.263	1.925	1.618	0.268	0.000	4.570
NNE	0.000	0.000	0.000	0.166	0.478	1.104	0.409	0.076	0.000	2.232
NE	0.000	0.000	0.000	0.276	0.163	0.293	0.000	0.000	0.000	0.732
ENE	0.000	0.000	0.000	0.000	0.108	0.192	0.045	0.000	0.000	0.346
E	0.000	0.000	0.055	0.000	0.269	0.632	0.092	0.000	0.000	1.048
ESE	0.000	0.000	0.055	0.442	0.315	1.015	0.226	0.036	0.000	2.090
SE	0.000	0.000	0.221	0.552	0.214	0.340	0.267	0.114	0.000	1.708
SSE	0.000	0.000	0.331	0.221	0.107	0.242	0.494	0.214	0.000	1.608
S	0.000	0.000	0.166	0.276	0.157	0.717	0.543	0.000	0.000	1.858
SSW	0.000	0.000	0.221	0.166	0.161	0.398	0.403	0.120	0.000	1.468
SW	0.000	0.000	0.166	0.110	0.208	0.243	0.494	0.107	0.000	1.328
WSW	0.000	0.000	0.110	0.276	0.318	0.959	0.496	0.039	0.000	2.197
W	0.000	0.000	0.497	0.939	0.795	1.350	1.218	0.000	0.000	4.797
WNW	0.000	0.000	0.000	0.828	0.644	1.263	0.980	0.418	0.023	4.155
NW	0.000	0.000	0.221	0.442	0.424	1.433	2.064	0.423	0.000	5.007
NNW	0.000	0.000	0.000	0.221	0.266	1.475	0.990	0.431	0.007	3.389
SUBTOTAL	0.000	0.000	2.154	5.301	4.888	13.581	10.336	2.245	0.030	38.535

TOTAL HOURS OF VALID OBSERVATIONS 1811.000
 TOTAL HOURS OF ELEVATED RELEASES 1537.670
 TOTAL HOURS OF STABILITY CLASS D 784.950
 TOTAL HOURS OF ELEVATED STABILITY CLASS D 697.860

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

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2022 - MAR 31, 2022

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	0.110	0.166	0.582	0.821	0.319	0.000	0.000	1.998
NNE	0.000	0.000	0.110	0.166	0.422	0.776	0.226	0.000	0.000	1.700
NE	0.000	0.000	0.055	0.221	0.263	0.833	0.137	0.000	0.000	1.510
ENE	0.000	0.000	0.055	0.331	0.266	0.582	0.045	0.000	0.000	1.279
E	0.000	0.000	0.055	0.497	0.161	0.590	0.090	0.000	0.000	1.393
ESE	0.000	0.000	0.110	0.276	0.533	0.783	0.179	0.129	0.000	2.011
SE	0.000	0.055	0.055	0.442	0.106	1.174	1.348	0.649	0.040	3.869
SSE	0.000	0.000	0.110	0.276	0.263	1.158	1.384	0.993	0.033	4.218
S	0.000	0.000	0.055	0.442	0.271	0.855	1.019	1.018	0.050	3.710
SSW	0.000	0.055	0.221	0.387	0.214	0.714	0.181	0.078	0.014	1.864
SW	0.000	0.000	0.166	0.276	0.220	0.433	0.134	0.000	0.000	1.228
WSW	0.000	0.000	0.221	0.221	0.269	0.000	0.045	0.000	0.000	0.755
W	0.000	0.000	0.166	0.607	0.467	0.493	0.044	0.000	0.000	1.777
WNW	0.000	0.000	0.055	0.000	0.214	0.441	0.089	0.036	0.000	0.835
NW	0.000	0.000	0.166	0.387	0.107	0.827	0.183	0.000	0.000	1.669
NNW	0.000	0.000	0.055	0.276	0.318	0.867	0.046	0.000	0.000	1.562
SUBTOTAL	0.000	0.110	1.767	4.970	4.676	11.348	5.468	2.902	0.137	31.378

TOTAL HOURS OF VALID OBSERVATIONS 1811.000
TOTAL HOURS OF ELEVATED RELEASES 1537.670
TOTAL HOURS OF STABILITY CLASS E 669.580
TOTAL HOURS OF ELEVATED STABILITY CLASS E 568.260

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

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2022 - MAR 31, 2022

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	0.055	0.000	0.049	0.000	0.000	0.000	0.160
NNE	0.000	0.000	0.000	0.055	0.051	0.048	0.000	0.000	0.000	0.155
NE	0.000	0.000	0.055	0.055	0.053	0.000	0.000	0.000	0.000	0.163
ENE	0.000	0.000	0.110	0.166	0.158	0.199	0.000	0.000	0.000	0.634
E	0.000	0.000	0.000	0.055	0.213	0.199	0.000	0.000	0.000	0.467
ESE	0.000	0.000	0.055	0.166	0.210	0.979	0.046	0.000	0.000	1.456
SE	0.000	0.000	0.055	0.055	0.000	0.586	0.447	0.098	0.000	1.242
SSE	0.000	0.000	0.166	0.221	0.263	0.284	0.846	0.304	0.000	2.084
S	0.000	0.000	0.055	0.110	0.000	0.575	0.045	0.036	0.000	0.823
SSW	0.000	0.000	0.166	0.221	0.268	0.098	0.000	0.000	0.000	0.752
SW	0.000	0.000	0.276	0.276	0.264	0.000	0.000	0.000	0.000	0.817
WSW	0.000	0.000	0.110	0.331	0.273	0.050	0.000	0.000	0.000	0.765
W	0.000	0.000	0.166	0.166	0.110	0.000	0.000	0.000	0.000	0.442
WNW	0.000	0.000	0.110	0.166	0.054	0.100	0.000	0.000	0.000	0.430
NW	0.000	0.055	0.166	0.166	0.000	0.100	0.000	0.000	0.000	0.486
NNW	0.000	0.000	0.055	0.110	0.108	0.144	0.000	0.000	0.000	0.417
SUBTOTAL	0.000	0.055	1.601	2.374	2.027	3.411	1.384	0.439	0.000	11.292

TOTAL HOURS OF VALID OBSERVATIONS 1811.000
TOTAL HOURS OF ELEVATED RELEASES 1537.670
TOTAL HOURS OF STABILITY CLASS F 243.890
TOTAL HOURS OF ELEVATED STABILITY CLASS F 204.500

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

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

JAN 1, 2022 - MAR 31, 2022

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.000	0.000	0.050	0.000	0.000	0.000	0.050
NNE	0.000	0.000	0.055	0.000	0.000	0.000	0.000	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	0.055	0.000	0.000	0.151	0.000	0.000	0.000	0.207
SE	0.000	0.000	0.000	0.055	0.155	0.151	0.000	0.000	0.000	0.361
SSE	0.000	0.000	0.000	0.000	0.000	0.146	0.000	0.000	0.000	0.146
S	0.000	0.000	0.000	0.166	0.052	0.000	0.000	0.000	0.000	0.218
SSW	0.000	0.000	0.110	0.000	0.000	0.000	0.000	0.000	0.000	0.110
SW	0.000	0.000	0.000	0.110	0.162	0.000	0.000	0.000	0.000	0.272
WSW	0.000	0.000	0.166	0.166	0.055	0.000	0.000	0.000	0.000	0.387
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	0.055	0.000	0.000	0.000	0.000	0.000	0.000	0.055
NW	0.000	0.000	0.055	0.055	0.000	0.000	0.000	0.000	0.000	0.110
NNW	0.000	0.055	0.000	0.055	0.053	0.000	0.000	0.000	0.000	0.163
SUBTOTAL	0.000	0.055	0.497	0.607	0.477	0.498	0.000	0.000	0.000	2.134

TOTAL HOURS OF VALID OBSERVATIONS 1811.000
 TOTAL HOURS OF ELEVATED RELEASES 1537.670
 TOTAL HOURS OF STABILITY CLASS G 50.470
 TOTAL HOURS OF ELEVATED STABILITY CLASS G 38.650

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: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.086	0.000	0.000	0.000	0.094
NNE	0.000	0.000	0.000	0.000	0.002	0.037	0.000	0.000	0.000	0.039
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.004	0.067	0.052	0.000	0.000	0.000	0.123
SSE	0.000	0.000	0.000	0.034	0.035	0.046	0.000	0.000	0.000	0.115
S	0.000	0.000	0.000	0.036	0.026	0.017	0.000	0.000	0.000	0.079
SSW	0.000	0.000	0.000	0.003	0.041	0.041	0.000	0.000	0.000	0.085
SW	0.000	0.000	0.000	0.010	0.010	0.008	0.000	0.000	0.000	0.027
WSW	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.005
W	0.000	0.000	0.000	0.000	0.000	0.063	0.027	0.000	0.000	0.091
WNW	0.000	0.000	0.000	0.000	0.008	0.026	0.032	0.000	0.000	0.066
NW	0.000	0.000	0.000	0.000	0.000	0.022	0.000	0.000	0.000	0.022
NNW	0.000	0.000	0.000	0.000	0.010	0.015	0.000	0.000	0.000	0.025
SUBTOTAL	0.000	0.000	0.000	0.087	0.207	0.417	0.060	0.000	0.000	0.770

TOTAL HOURS OF VALID OBSERVATIONS 2165.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 251.730
 TOTAL HOURS OF STABILITY CLASS A 17.520
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 16.680
 METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
 WIND DIRECTION MEASURED AT 10.50 METER LEVEL
 WIND SPEED MEASURED AT 10.50 METER LEVEL
 EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2022/07/11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.024	0.035	0.000	0.000	0.000	0.059
NNE	0.000	0.000	0.000	0.000	0.014	0.024	0.000	0.000	0.000	0.038
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	0.006	0.000	0.000	0.000	0.000	0.006
SE	0.000	0.000	0.000	0.001	0.059	0.050	0.000	0.000	0.000	0.110
SSE	0.000	0.000	0.000	0.003	0.015	0.065	0.000	0.000	0.000	0.083
S	0.000	0.000	0.000	0.006	0.043	0.079	0.000	0.000	0.000	0.127
SSW	0.000	0.000	0.000	0.000	0.010	0.027	0.024	0.000	0.000	0.062
SW	0.000	0.000	0.000	0.000	0.004	0.029	0.000	0.000	0.000	0.033
WSW	0.000	0.000	0.000	0.000	0.018	0.000	0.000	0.000	0.000	0.018
W	0.000	0.000	0.000	0.000	0.018	0.016	0.000	0.000	0.000	0.035
WNW	0.000	0.000	0.000	0.000	0.009	0.034	0.062	0.000	0.000	0.105
NW	0.000	0.000	0.000	0.000	0.004	0.016	0.025	0.000	0.000	0.045
NNW	0.000	0.000	0.000	0.000	0.007	0.051	0.009	0.000	0.000	0.067
SUBTOTAL	0.000	0.000	0.000	0.010	0.232	0.425	0.121	0.000	0.000	0.788

TOTAL HOURS OF VALID OBSERVATIONS 2165.000
TOTAL HOURS OF GROUND LEVEL RELEASE 251.730
TOTAL HOURS OF STABILITY CLASS B 43.510
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 17.060
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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2022/07/11

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.014	0.033	0.000	0.000	0.000	0.047
NNE	0.000	0.000	0.000	0.000	0.012	0.006	0.019	0.000	0.000	0.038
NE	0.000	0.000	0.000	0.000	0.009	0.015	0.000	0.000	0.000	0.024
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.006
SE	0.000	0.000	0.000	0.023	0.022	0.018	0.000	0.000	0.000	0.063
SSE	0.000	0.000	0.000	0.012	0.031	0.088	0.000	0.000	0.000	0.132
S	0.000	0.000	0.000	0.004	0.030	0.060	0.000	0.000	0.000	0.094
SSW	0.000	0.000	0.000	0.000	0.012	0.067	0.033	0.000	0.000	0.112
SW	0.000	0.000	0.000	0.004	0.016	0.000	0.000	0.000	0.000	0.020
WSW	0.000	0.000	0.000	0.001	0.006	0.000	0.022	0.000	0.000	0.030
W	0.000	0.000	0.000	0.001	0.019	0.009	0.024	0.000	0.000	0.054
WNW	0.000	0.000	0.000	0.000	0.018	0.017	0.021	0.000	0.000	0.056
NW	0.000	0.000	0.000	0.000	0.006	0.040	0.018	0.000	0.000	0.064
NNW	0.000	0.000	0.000	0.000	0.007	0.055	0.000	0.000	0.000	0.063
SUBTOTAL	0.000	0.000	0.000	0.045	0.211	0.409	0.138	0.000	0.000	0.802

TOTAL HOURS OF VALID OBSERVATIONS 2165.000
TOTAL HOURS OF GROUND LEVEL RELEASE 251.730
TOTAL HOURS OF STABILITY CLASS C 97.830
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 17.370
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: 2022/07/11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.004	0.030	0.075	0.031	0.000	0.000	0.000	0.140
NNE	0.000	0.000	0.000	0.018	0.050	0.055	0.000	0.000	0.000	0.123
NE	0.000	0.000	0.000	0.010	0.025	0.046	0.000	0.000	0.000	0.081
ENE	0.000	0.000	0.000	0.006	0.005	0.007	0.000	0.000	0.000	0.018
E	0.000	0.000	0.000	0.002	0.009	0.000	0.000	0.000	0.000	0.011
ESE	0.000	0.000	0.000	0.021	0.061	0.028	0.000	0.000	0.000	0.110
SE	0.000	0.000	0.004	0.066	0.249	0.226	0.040	0.000	0.000	0.585
SSE	0.000	0.000	0.003	0.101	0.149	0.287	0.000	0.000	0.000	0.540
S	0.000	0.000	0.001	0.080	0.140	0.674	0.072	0.044	0.000	1.012
SSW	0.000	0.000	0.000	0.024	0.030	0.280	0.119	0.000	0.000	0.454
SW	0.000	0.000	0.000	0.011	0.043	0.041	0.000	0.000	0.000	0.095
WSW	0.000	0.000	0.000	0.024	0.038	0.016	0.000	0.000	0.000	0.079
W	0.000	0.000	0.000	0.024	0.095	0.182	0.129	0.000	0.000	0.431
WNW	0.000	0.000	0.000	0.000	0.017	0.065	0.264	0.028	0.000	0.375
NW	0.000	0.000	0.000	0.007	0.049	0.168	0.135	0.000	0.000	0.358
NNW	0.000	0.000	0.001	0.017	0.060	0.165	0.000	0.000	0.000	0.242
SUBTOTAL	0.000	0.000	0.013	0.442	1.097	2.273	0.759	0.072	0.000	4.655

TOTAL HOURS OF VALID OBSERVATIONS 2165.000
TOTAL HOURS OF GROUND LEVEL RELEASE 251.730
TOTAL HOURS OF STABILITY CLASS D 1097.740
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 100.780
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: 2022/07/11

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.016	0.051	0.011	0.007	0.000	0.000	0.000	0.085
NNE	0.000	0.000	0.002	0.085	0.104	0.022	0.000	0.000	0.000	0.213
NE	0.000	0.000	0.006	0.037	0.057	0.000	0.000	0.000	0.000	0.100
ENE	0.000	0.000	0.003	0.021	0.007	0.008	0.000	0.000	0.000	0.039
E	0.000	0.000	0.009	0.023	0.000	0.000	0.000	0.000	0.000	0.032
ESE	0.000	0.000	0.017	0.138	0.035	0.000	0.000	0.000	0.000	0.189
SE	0.000	0.000	0.040	0.097	0.068	0.041	0.000	0.000	0.000	0.246
SSE	0.000	0.001	0.084	0.145	0.086	0.187	0.000	0.000	0.000	0.503
S	0.000	0.000	0.006	0.065	0.192	0.273	0.548	0.092	0.000	1.176
SSW	0.000	0.000	0.000	0.022	0.040	0.089	0.019	0.000	0.000	0.170
SW	0.000	0.000	0.000	0.006	0.007	0.018	0.000	0.000	0.000	0.030
WSW	0.000	0.000	0.003	0.006	0.000	0.000	0.000	0.000	0.000	0.009
W	0.000	0.000	0.000	0.009	0.006	0.007	0.000	0.000	0.000	0.022
WNW	0.000	0.000	0.000	0.002	0.000	0.000	0.009	0.000	0.000	0.011
NW	0.000	0.000	0.002	0.014	0.000	0.017	0.000	0.000	0.000	0.032
NNW	0.000	0.000	0.005	0.032	0.045	0.024	0.000	0.000	0.000	0.106
SUBTOTAL	0.000	0.001	0.192	0.752	0.658	0.693	0.576	0.092	0.000	2.964

TOTAL HOURS OF VALID OBSERVATIONS 2165.000
TOTAL HOURS OF GROUND LEVEL RELEASE 251.730
TOTAL HOURS OF STABILITY CLASS E 561.120
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 64.180
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: 2022/07/11

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.062	0.008	0.000	0.000	0.000	0.000	0.137
NNE	0.000	0.000	0.017	0.068	0.032	0.008	0.000	0.000	0.000	0.125
NE	0.000	0.000	0.001	0.021	0.051	0.016	0.000	0.000	0.000	0.089
ENE	0.000	0.004	0.000	0.012	0.015	0.000	0.000	0.000	0.000	0.031
E	0.000	0.000	0.042	0.042	0.000	0.000	0.000	0.000	0.000	0.084
ESE	0.000	0.000	0.036	0.053	0.007	0.000	0.000	0.000	0.000	0.096
SE	0.000	0.000	0.072	0.030	0.007	0.000	0.000	0.000	0.000	0.109
SSE	0.000	0.000	0.020	0.070	0.080	0.140	0.000	0.000	0.000	0.311
S	0.000	0.000	0.009	0.014	0.008	0.028	0.013	0.000	0.000	0.073
SSW	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000	0.000	0.016
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.006	0.006	0.000	0.000	0.000	0.000	0.012
W	0.000	0.000	0.001	0.011	0.000	0.000	0.000	0.000	0.000	0.012
WNW	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.004
NW	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.002
NNW	0.000	0.000	0.034	0.033	0.015	0.008	0.000	0.000	0.000	0.090
SUBTOTAL	0.000	0.005	0.299	0.422	0.234	0.217	0.013	0.000	0.000	1.190

TOTAL HOURS OF VALID OBSERVATIONS 2165.000
TOTAL HOURS OF GROUND LEVEL RELEASE 251.730
TOTAL HOURS OF STABILITY CLASS F 274.100
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 25.770
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: 2022/07/11

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.069	0.000	0.000	0.000	0.000	0.000	0.115
NNE	0.000	0.000	0.005	0.069	0.008	0.000	0.000	0.000	0.000	0.082
NE	0.000	0.000	0.009	0.028	0.000	0.000	0.000	0.000	0.000	0.036
ENE	0.000	0.000	0.018	0.030	0.000	0.000	0.000	0.000	0.000	0.048
E	0.000	0.006	0.006	0.005	0.000	0.000	0.000	0.000	0.000	0.017
ESE	0.000	0.005	0.006	0.005	0.000	0.000	0.000	0.000	0.000	0.016
SE	0.000	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.036
SSE	0.000	0.000	0.020	0.025	0.027	0.030	0.000	0.000	0.000	0.102
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	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
NNW	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002
SUBTOTAL	0.000	0.030	0.132	0.230	0.035	0.030	0.000	0.000	0.000	0.457

TOTAL HOURS OF VALID OBSERVATIONS 2165.000
TOTAL HOURS OF GROUND LEVEL RELEASE 251.730
TOTAL HOURS OF STABILITY CLASS G 73.180
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 9.890
METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 45.30 METERS
WIND DIRECTION MEASURED AT 10.50 METER LEVEL
WIND SPEED MEASURED AT 10.50 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2022/07/11

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

SPLIT JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

PART 2 OF 2 ELEVATED RELEASE MODE

APR 1, 2022 - JUN 30, 2022

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	\geq 24.41	
N	0.000	0.000	0.000	0.000	0.000	0.039	0.000	0.000	0.000	0.039
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	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	0.039	0.000	0.000	0.000	0.039

TOTAL HOURS OF VALID OBSERVATIONS 2165.000
 TOTAL HOURS OF ELEVATED RELEASES 1913.270
 TOTAL HOURS OF STABILITY CLASS A 17.520
 TOTAL HOURS OF ELEVATED STABILITY CLASS A 0.840
 METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS
 WIND DIRECTION MEASURED AT 45.74 METER LEVEL
 WIND SPEED MEASURED AT 45.74 METER LEVEL
 EFFLUENT VELOCITY = 12.60 M/S

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2022/07/11

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.117	0.152	0.000	0.000	0.270
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	0.092	0.045	0.121	0.000	0.000	0.258
S	0.000	0.000	0.000	0.000	0.000	0.042	0.000	0.000	0.000	0.042
SSW	0.000	0.000	0.000	0.000	0.000	0.042	0.000	0.000	0.000	0.042
SW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.285	0.000	0.000	0.000	0.285
WNW	0.000	0.000	0.000	0.000	0.000	0.164	0.000	0.000	0.000	0.164
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.000	0.000	0.038
NNW	0.000	0.000	0.000	0.000	0.000	0.039	0.038	0.000	0.000	0.077
SUBTOTAL	0.000	0.000	0.000	0.139	0.045	0.809	0.229	0.000	0.000	1.222

TOTAL HOURS OF VALID OBSERVATIONS 2165.000
TOTAL HOURS OF ELEVATED RELEASES 1913.270
TOTAL HOURS OF STABILITY CLASS B 43.510
TOTAL HOURS OF ELEVATED STABILITY CLASS B 26.450
METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2022/07/11

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.089	0.443	0.076	0.000	0.000	0.609
NNE	0.000	0.000	0.000	0.000	0.090	0.201	0.038	0.000	0.000	0.329
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	0.041	0.000	0.000	0.000	0.041
SE	0.000	0.000	0.000	0.046	0.000	0.163	0.075	0.000	0.000	0.284
SSE	0.000	0.000	0.000	0.139	0.091	0.164	0.037	0.000	0.000	0.430
S	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.000	0.000	0.040
SSW	0.000	0.000	0.000	0.000	0.131	0.120	0.000	0.000	0.000	0.251
SW	0.000	0.000	0.000	0.000	0.000	0.041	0.115	0.000	0.000	0.156
WSW	0.000	0.000	0.000	0.092	0.090	0.083	0.000	0.000	0.000	0.265
W	0.000	0.000	0.000	0.185	0.136	0.322	0.148	0.033	0.000	0.824
WNW	0.000	0.000	0.000	0.000	0.000	0.085	0.113	0.000	0.000	0.198
NW	0.000	0.000	0.000	0.000	0.000	0.039	0.000	0.000	0.000	0.039
NNW	0.000	0.000	0.000	0.000	0.091	0.121	0.038	0.000	0.000	0.250
SUBTOTAL	0.000	0.000	0.000	0.462	0.717	1.863	0.642	0.033	0.000	3.716

TOTAL HOURS OF VALID OBSERVATIONS 2165.000
TOTAL HOURS OF ELEVATED RELEASES 1913.270
TOTAL HOURS OF STABILITY CLASS C 97.830
TOTAL HOURS OF ELEVATED STABILITY CLASS C 80.460
METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2022/07/11

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.758	1.495	0.265	0.000	0.000	2.610
NNE	0.000	0.000	0.000	0.231	0.447	0.944	0.115	0.027	0.000	1.763
NE	0.000	0.000	0.046	0.046	0.175	0.248	0.000	0.000	0.000	0.515
ENE	0.000	0.000	0.000	0.139	0.311	0.039	0.000	0.000	0.000	0.489
E	0.000	0.000	0.185	0.277	0.222	0.040	0.000	0.000	0.000	0.724
ESE	0.000	0.000	0.139	0.092	0.398	0.767	0.229	0.025	0.000	1.651
SE	0.000	0.000	0.370	1.386	0.852	1.411	1.383	0.573	0.027	6.001
SSE	0.000	0.000	0.185	0.970	0.757	1.097	1.539	0.535	0.008	5.090
S	0.000	0.000	0.370	0.647	0.444	0.808	2.730	0.247	0.002	5.248
SSW	0.000	0.046	0.416	0.647	0.402	1.124	1.569	0.370	0.000	4.573
SW	0.000	0.000	0.185	0.970	0.316	0.820	0.448	0.036	0.000	2.775
WSW	0.000	0.000	0.185	0.924	0.716	0.415	0.038	0.024	0.000	2.302
W	0.000	0.000	0.185	0.785	1.073	1.670	0.752	0.201	0.000	4.667
WNW	0.000	0.000	0.139	0.231	0.267	0.745	0.712	0.406	0.000	2.499
NW	0.000	0.000	0.046	0.277	0.482	0.931	1.016	0.141	0.000	2.893
NNW	0.000	0.000	0.046	0.185	0.357	1.207	0.454	0.000	0.000	2.249
SUBTOTAL	0.000	0.046	2.494	7.898	7.977	13.763	11.248	2.584	0.037	46.049

TOTAL HOURS OF VALID OBSERVATIONS 2165.000
TOTAL HOURS OF ELEVATED RELEASES 1913.270
TOTAL HOURS OF STABILITY CLASS D 1097.740
TOTAL HOURS OF ELEVATED STABILITY CLASS D 996.960
METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

DATE PRINTED: 2022/07/11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.370	0.353	0.654	0.115	0.000	0.000	1.538
NNE	0.000	0.000	0.092	0.139	0.224	1.170	0.115	0.000	0.000	1.739
NE	0.000	0.000	0.046	0.092	0.311	0.697	0.038	0.000	0.000	1.185
ENE	0.000	0.000	0.092	0.046	0.224	0.325	0.000	0.000	0.000	0.687
E	0.000	0.000	0.000	0.139	0.268	0.291	0.000	0.000	0.000	0.698
ESE	0.000	0.000	0.231	0.185	0.400	0.410	0.115	0.000	0.000	1.341
SE	0.000	0.000	0.185	0.231	0.311	1.338	0.494	0.058	0.000	2.617
SSE	0.000	0.000	0.139	0.185	0.269	0.916	1.990	0.382	0.001	3.882
S	0.000	0.000	0.139	0.370	0.221	0.875	0.749	0.448	0.035	2.835
SSW	0.000	0.000	0.277	0.462	0.307	0.197	0.187	0.068	0.003	1.501
SW	0.000	0.046	0.139	0.554	0.226	0.000	0.075	0.000	0.000	1.040
WSW	0.000	0.000	0.231	0.185	0.271	0.000	0.000	0.000	0.000	0.686
W	0.000	0.000	0.046	0.370	0.133	0.250	0.000	0.000	0.000	0.799
WNW	0.000	0.000	0.046	0.046	0.224	0.042	0.037	0.000	0.000	0.396
NW	0.000	0.000	0.185	0.092	0.133	0.481	0.114	0.000	0.000	1.005
NNW	0.000	0.046	0.000	0.277	0.399	0.245	0.038	0.000	0.000	1.006
SUBTOTAL	0.000	0.092	1.894	3.741	4.273	7.892	4.066	0.956	0.038	22.953

TOTAL HOURS OF VALID OBSERVATIONS 2165.000
TOTAL HOURS OF ELEVATED RELEASES 1913.270
TOTAL HOURS OF STABILITY CLASS E 561.120
TOTAL HOURS OF ELEVATED STABILITY CLASS E 496.940
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: 2022/07/11

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.046	0.046	0.357	0.847	0.000	0.000	0.000	1.297
NNE	0.000	0.000	0.000	0.046	0.135	0.402	0.267	0.000	0.000	0.850
NE	0.000	0.000	0.046	0.185	0.044	0.281	0.115	0.000	0.000	0.671
ENE	0.000	0.000	0.046	0.046	0.397	0.485	0.115	0.000	0.000	1.089
E	0.000	0.000	0.185	0.139	0.267	0.331	0.000	0.000	0.000	0.922
ESE	0.000	0.000	0.046	0.139	0.403	0.448	0.000	0.000	0.000	1.036
SE	0.000	0.000	0.185	0.277	0.271	0.733	0.000	0.000	0.000	1.467
SSE	0.000	0.000	0.046	0.185	0.046	0.449	0.149	0.062	0.000	0.938
S	0.000	0.000	0.185	0.139	0.086	0.281	0.000	0.030	0.000	0.721
SSW	0.000	0.000	0.139	0.046	0.046	0.122	0.000	0.000	0.000	0.353
SW	0.000	0.000	0.046	0.046	0.000	0.040	0.000	0.000	0.000	0.133
WSW	0.000	0.000	0.139	0.139	0.046	0.041	0.000	0.000	0.000	0.364
W	0.000	0.000	0.370	0.139	0.000	0.125	0.000	0.000	0.000	0.633
WNW	0.000	0.000	0.092	0.000	0.089	0.000	0.000	0.000	0.000	0.182
NW	0.000	0.000	0.046	0.139	0.087	0.122	0.000	0.000	0.000	0.394
NNW	0.000	0.000	0.000	0.000	0.177	0.245	0.000	0.000	0.000	0.422
SUBTOTAL	0.000	0.000	1.617	1.709	2.452	4.953	0.646	0.093	0.000	11.470

TOTAL HOURS OF VALID OBSERVATIONS 2165.000
TOTAL HOURS OF ELEVATED RELEASES 1913.270
TOTAL HOURS OF STABILITY CLASS F 274.100
TOTAL HOURS OF ELEVATED STABILITY CLASS F 248.330
METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
STABILITY BASED ON DELTA-T BETWEEN 10.03 AND 89.59 METERS
WIND DIRECTION MEASURED AT 45.74 METER LEVEL
WIND SPEED MEASURED AT 45.74 METER LEVEL
EFFLUENT VELOCITY = 12.60 M/S

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2022/07/11

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.000	0.084	0.000	0.000	0.000	0.130
NNE	0.000	0.000	0.046	0.000	0.046	0.275	0.000	0.000	0.000	0.367
NE	0.000	0.000	0.092	0.046	0.135	0.200	0.000	0.000	0.000	0.474
ENE	0.000	0.000	0.000	0.185	0.045	0.083	0.000	0.000	0.000	0.312
E	0.000	0.000	0.000	0.000	0.000	0.251	0.000	0.000	0.000	0.251
ESE	0.000	0.000	0.185	0.000	0.044	0.000	0.000	0.000	0.000	0.229
SE	0.000	0.000	0.092	0.046	0.270	0.166	0.000	0.000	0.000	0.575
SSE	0.000	0.000	0.092	0.000	0.000	0.042	0.000	0.000	0.000	0.134
S	0.000	0.000	0.046	0.092	0.000	0.039	0.000	0.000	0.000	0.178
SSW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.139	0.000	0.000	0.000	0.000	0.000	0.000	0.139
W	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.043	0.000	0.000	0.000	0.000	0.043
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	0.785	0.416	0.582	1.140	0.000	0.000	0.000	2.923

TOTAL HOURS OF VALID OBSERVATIONS 2165.000
TOTAL HOURS OF ELEVATED RELEASES 1913.270
TOTAL HOURS OF STABILITY CLASS G 73.180
TOTAL HOURS OF ELEVATED STABILITY CLASS G 63.290
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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2022/07/11

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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

Joint Frequency Distribution In Percent

(Ground Level Release Mode and Elevated Release Mode)

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.091	0.000	0.000	0.000	0.091
NNE	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.009
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	0.005	0.016	0.025	0.000	0.000	0.000	0.046
SSE	0.000	0.000	0.000	0.034	0.007	0.000	0.000	0.000	0.000	0.040
S	0.000	0.000	0.000	0.043	0.088	0.014	0.000	0.000	0.000	0.145
SSW	0.000	0.000	0.000	0.017	0.126	0.071	0.000	0.000	0.000	0.215
SW	0.000	0.000	0.000	0.015	0.083	0.051	0.000	0.000	0.000	0.150
WSW	0.000	0.000	0.000	0.000	0.014	0.019	0.000	0.000	0.000	0.033
W	0.000	0.000	0.000	0.000	0.019	0.041	0.000	0.000	0.000	0.061
WNW	0.000	0.000	0.000	0.000	0.005	0.005	0.000	0.000	0.000	0.010
NW	0.000	0.000	0.000	0.001	0.000	0.004	0.009	0.000	0.000	0.015
NNW	0.000	0.000	0.000	0.000	0.000	0.013	0.009	0.000	0.000	0.022
SUBTOTAL	0.000	0.000	0.000	0.116	0.359	0.344	0.018	0.000	0.000	0.837

TOTAL HOURS OF VALID OBSERVATIONS 2198.000

TOTAL HOURS OF GROUND LEVEL RELEASE 141.860

TOTAL HOURS OF STABILITY CLASS A 23.780

TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 18.400

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: 2022/10/12

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.015	0.000	0.000	0.000	0.020
NNE	0.000	0.000	0.000	0.000	0.004	0.047	0.000	0.000	0.000	0.051
NE	0.000	0.000	0.000	0.000	0.000	0.023	0.000	0.000	0.000	0.023
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.008	0.035	0.000	0.000	0.000	0.000	0.043
SSE	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.008
S	0.000	0.000	0.000	0.000	0.013	0.000	0.000	0.000	0.000	0.013
SSW	0.000	0.000	0.000	0.005	0.017	0.008	0.000	0.000	0.000	0.030
SW	0.000	0.000	0.000	0.003	0.012	0.008	0.000	0.000	0.000	0.023
WSW	0.000	0.000	0.000	0.002	0.008	0.006	0.000	0.000	0.000	0.016
W	0.000	0.000	0.000	0.000	0.009	0.022	0.000	0.000	0.000	0.031
WNW	0.000	0.000	0.000	0.000	0.000	0.024	0.009	0.000	0.000	0.032
NW	0.000	0.000	0.000	0.000	0.002	0.008	0.009	0.000	0.000	0.019
NNW	0.000	0.000	0.000	0.000	0.000	0.015	0.000	0.000	0.000	0.015
SUBTOTAL	0.000	0.000	0.000	0.026	0.104	0.178	0.018	0.000	0.000	0.325

TOTAL HOURS OF VALID OBSERVATIONS 2198.000
TOTAL HOURS OF GROUND LEVEL RELEASE 141.860
TOTAL HOURS OF STABILITY CLASS B 60.680
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 7.150
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: 2022/10/12

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.018	0.022	0.000	0.000	0.000	0.040
NNE	0.000	0.000	0.000	0.000	0.022	0.020	0.000	0.000	0.000	0.042
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.015	0.054	0.000	0.000	0.000	0.000	0.069
SSE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.005
S	0.000	0.000	0.000	0.009	0.015	0.009	0.000	0.000	0.000	0.032
SSW	0.000	0.000	0.000	0.004	0.029	0.017	0.000	0.000	0.000	0.049
SW	0.000	0.000	0.000	0.009	0.023	0.009	0.000	0.000	0.000	0.041
WSW	0.000	0.000	0.000	0.002	0.006	0.007	0.000	0.000	0.000	0.015
W	0.000	0.000	0.000	0.003	0.015	0.013	0.000	0.000	0.000	0.031
WNW	0.000	0.000	0.000	0.000	0.003	0.023	0.000	0.000	0.000	0.026
NW	0.000	0.000	0.000	0.000	0.014	0.025	0.000	0.000	0.000	0.039
NNW	0.000	0.000	0.000	0.000	0.005	0.015	0.000	0.000	0.000	0.020
SUBTOTAL	0.000	0.000	0.000	0.046	0.203	0.165	0.000	0.000	0.000	0.414

TOTAL HOURS OF VALID OBSERVATIONS 2198.000

TOTAL HOURS OF GROUND LEVEL RELEASE 141.860

TOTAL HOURS OF STABILITY CLASS C 125.560

TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 9.100

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: 2022/10/12

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.007	0.045	0.088	0.000	0.000	0.000	0.140
NNE	0.000	0.000	0.000	0.019	0.089	0.055	0.000	0.000	0.000	0.162
NE	0.000	0.000	0.000	0.001	0.036	0.037	0.025	0.000	0.000	0.099
ENE	0.000	0.000	0.000	0.001	0.010	0.005	0.000	0.000	0.000	0.017
E	0.000	0.000	0.001	0.016	0.028	0.000	0.000	0.000	0.000	0.045
ESE	0.000	0.000	0.000	0.035	0.065	0.000	0.000	0.000	0.000	0.100
SE	0.000	0.000	0.022	0.128	0.049	0.037	0.000	0.000	0.000	0.235
SSE	0.000	0.000	0.016	0.103	0.000	0.000	0.000	0.000	0.000	0.120
S	0.000	0.000	0.002	0.212	0.240	0.117	0.000	0.000	0.000	0.572
SSW	0.000	0.000	0.000	0.142	0.186	0.171	0.000	0.000	0.000	0.499
SW	0.000	0.000	0.001	0.069	0.025	0.024	0.000	0.000	0.000	0.119
WSW	0.000	0.000	0.000	0.046	0.025	0.027	0.000	0.000	0.000	0.098
W	0.000	0.000	0.000	0.005	0.092	0.027	0.000	0.000	0.000	0.124
WNW	0.000	0.000	0.000	0.003	0.019	0.027	0.000	0.000	0.000	0.049
NW	0.000	0.000	0.000	0.008	0.010	0.015	0.009	0.000	0.000	0.041
NNW	0.000	0.000	0.000	0.007	0.050	0.037	0.000	0.000	0.000	0.094
SUBTOTAL	0.000	0.000	0.043	0.803	0.969	0.667	0.033	0.000	0.000	2.515

TOTAL HOURS OF VALID OBSERVATIONS 2198.000

TOTAL HOURS OF GROUND LEVEL RELEASE 141.860

TOTAL HOURS OF STABILITY CLASS D 1145.940

TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 55.270

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

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

DATE PRINTED: 2022/10/12

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.026	0.032	0.015	0.026	0.000	0.000	0.000	0.100
NNE	0.000	0.000	0.013	0.132	0.123	0.044	0.000	0.000	0.000	0.313
NE	0.000	0.000	0.003	0.021	0.065	0.021	0.000	0.000	0.000	0.110
ENE	0.000	0.000	0.010	0.022	0.006	0.000	0.000	0.000	0.000	0.039
E	0.000	0.000	0.015	0.063	0.000	0.000	0.000	0.000	0.000	0.078
ESE	0.000	0.000	0.031	0.124	0.011	0.000	0.000	0.000	0.000	0.166
SE	0.000	0.000	0.020	0.037	0.000	0.000	0.000	0.000	0.000	0.058
SSE	0.000	0.000	0.024	0.025	0.006	0.000	0.000	0.000	0.000	0.056
S	0.000	0.000	0.017	0.079	0.050	0.023	0.000	0.000	0.000	0.169
SSW	0.000	0.000	0.002	0.052	0.054	0.000	0.000	0.000	0.000	0.108
SW	0.000	0.000	0.000	0.006	0.006	0.000	0.000	0.000	0.000	0.012
WSW	0.000	0.000	0.001	0.006	0.000	0.000	0.000	0.000	0.000	0.007
W	0.000	0.000	0.000	0.011	0.003	0.007	0.000	0.000	0.000	0.022
WNW	0.000	0.000	0.000	0.004	0.000	0.013	0.009	0.000	0.000	0.025
NW	0.000	0.000	0.000	0.001	0.008	0.015	0.000	0.000	0.000	0.025
NNW	0.000	0.000	0.011	0.015	0.018	0.000	0.000	0.000	0.000	0.045
SUBTOTAL	0.000	0.000	0.175	0.632	0.366	0.150	0.009	0.000	0.000	1.332

TOTAL HOURS OF VALID OBSERVATIONS 2198.000

TOTAL HOURS OF GROUND LEVEL RELEASE 141.860

TOTAL HOURS OF STABILITY CLASS E 558.800

TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 29.280

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: 2022/10/12

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.063	0.135	0.007	0.000	0.000	0.000	0.000	0.205
NNE	0.000	0.000	0.014	0.121	0.080	0.000	0.000	0.000	0.000	0.214
NE	0.000	0.000	0.001	0.003	0.006	0.000	0.000	0.000	0.000	0.011
ENE	0.000	0.000	0.004	0.030	0.000	0.000	0.000	0.000	0.000	0.034
E	0.000	0.000	0.019	0.062	0.006	0.000	0.000	0.000	0.000	0.087
ESE	0.000	0.000	0.003	0.030	0.007	0.000	0.000	0.000	0.000	0.040
SE	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.008
SSE	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.005
S	0.000	0.000	0.002	0.003	0.007	0.008	0.000	0.000	0.000	0.021
SSW	0.000	0.000	0.001	0.000	0.008	0.000	0.000	0.000	0.000	0.009
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.005
NW	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001
NNW	0.000	0.000	0.010	0.004	0.025	0.008	0.000	0.000	0.000	0.047
SUBTOTAL	0.000	0.000	0.127	0.398	0.146	0.016	0.000	0.000	0.000	0.687

TOTAL HOURS OF VALID OBSERVATIONS 2198.000

TOTAL HOURS OF GROUND LEVEL RELEASE 141.860

TOTAL HOURS OF STABILITY CLASS F 214.480

TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 15.110

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: 2022/10/12

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.069	0.098	0.000	0.000	0.000	0.000	0.000	0.167
NNE	0.000	0.000	0.026	0.037	0.051	0.000	0.000	0.000	0.000	0.114
NE	0.000	0.000	0.001	0.005	0.000	0.000	0.000	0.000	0.000	0.005
ENE	0.000	0.000	0.009	0.008	0.000	0.000	0.000	0.000	0.000	0.017
E	0.000	0.000	0.012	0.011	0.001	0.000	0.000	0.000	0.000	0.024
ESE	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.004
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	0.006	0.000	0.000	0.000	0.006
NNW	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.006
SUBTOTAL	0.000	0.000	0.126	0.158	0.052	0.006	0.000	0.000	0.000	0.343

TOTAL HOURS OF VALID OBSERVATIONS 2198.000

TOTAL HOURS OF GROUND LEVEL RELEASE 141.860

TOTAL HOURS OF STABILITY CLASS G 68.760

TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 7.550

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: 2022/10/12

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.044	0.000	0.037	0.000	0.081
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.042	0.000	0.000	0.000	0.042
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.000	0.000	0.038
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.041	0.000	0.000	0.041
W	0.000	0.000	0.000	0.000	0.000	0.042	0.000	0.000	0.000	0.042
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.128	0.080	0.037	0.000	0.000	0.245

TOTAL HOURS OF VALID OBSERVATIONS 2198.000
TOTAL HOURS OF ELEVATED RELEASES 2056.140
TOTAL HOURS OF STABILITY CLASS A 23.780
TOTAL HOURS OF ELEVATED STABILITY CLASS A 5.380

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

DATE PRINTED: 2022/10/12

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.222	0.000	0.000	0.222
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.000	0.000	0.042	0.080	0.000	0.000	0.000	0.122
S	0.000	0.000	0.000	0.000	0.043	0.081	0.000	0.000	0.000	0.000	0.123
SSW	0.000	0.000	0.045	0.091	0.087	0.315	0.075	0.000	0.000	0.000	0.614
SW	0.000	0.000	0.000	0.045	0.086	0.202	0.000	0.000	0.000	0.000	0.334
WSW	0.000	0.000	0.000	0.136	0.088	0.079	0.075	0.000	0.000	0.000	0.378
W	0.000	0.000	0.000	0.136	0.219	0.159	0.000	0.000	0.000	0.000	0.515
WNW	0.000	0.000	0.000	0.000	0.086	0.041	0.000	0.000	0.000	0.000	0.127
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	0.045	0.409	0.652	0.958	0.371	0.000	0.000	0.000	2.435

TOTAL HOURS OF VALID OBSERVATIONS 2198.000

TOTAL HOURS OF ELEVATED RELEASES 2056.140

TOTAL HOURS OF STABILITY CLASS B 60.680

TOTAL HOURS OF ELEVATED STABILITY CLASS B 53.530

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: 2022/10/12

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.043	0.159	0.110	0.000	0.000	0.312
NNE	0.000	0.000	0.000	0.000	0.000	0.080	0.186	0.000	0.000	0.266
NE	0.000	0.000	0.000	0.000	0.000	0.038	0.038	0.000	0.000	0.076
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	0.041	0.000	0.000	0.000	0.086
SSE	0.000	0.000	0.000	0.136	0.175	0.081	0.000	0.000	0.000	0.393
S	0.000	0.000	0.000	0.045	0.000	0.284	0.000	0.000	0.000	0.329
SSW	0.000	0.000	0.045	0.227	0.174	0.357	0.075	0.000	0.000	0.879
SW	0.000	0.000	0.000	0.273	0.433	0.242	0.112	0.000	0.000	1.060
WSW	0.000	0.000	0.000	0.273	0.221	0.081	0.000	0.000	0.000	0.575
W	0.000	0.000	0.000	0.182	0.308	0.160	0.000	0.000	0.000	0.650
WNW	0.000	0.000	0.000	0.045	0.000	0.162	0.037	0.000	0.000	0.245
NW	0.000	0.000	0.000	0.000	0.088	0.000	0.074	0.000	0.000	0.162
NNW	0.000	0.000	0.000	0.000	0.000	0.156	0.111	0.000	0.000	0.267
SUBTOTAL	0.000	0.000	0.045	1.183	1.486	1.841	0.742	0.000	0.000	5.298

TOTAL HOURS OF VALID OBSERVATIONS 2198.000
TOTAL HOURS OF ELEVATED RELEASES 2056.140
TOTAL HOURS OF STABILITY CLASS C 125.560
TOTAL HOURS OF ELEVATED STABILITY CLASS C 116.460

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: 2022/10/12

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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
P

ART 2 OF 2 ELEVATED RELEASE MODE

JUL 1, 2022 - SEP 30, 2022

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.091	0.136	0.219	1.003	0.408	0.000	0.000	1.858
NNE	0.000	0.045	0.182	0.227	0.430	1.129	0.148	0.000	0.000	2.162
NE	0.000	0.045	0.045	0.273	0.087	0.281	0.000	0.030	0.000	0.762
ENE	0.000	0.000	0.182	0.273	0.089	0.122	0.000	0.000	0.000	0.666
E	0.000	0.000	0.136	0.136	0.129	0.247	0.000	0.000	0.000	0.648
ESE	0.000	0.000	0.227	0.409	0.659	1.076	0.113	0.000	0.000	2.485
SE	0.000	0.000	0.455	1.865	1.103	1.682	0.298	0.028	0.000	5.432
SSE	0.000	0.000	0.591	1.774	1.271	1.496	0.223	0.000	0.000	5.356
S	0.000	0.000	0.591	1.683	2.186	2.835	0.554	0.000	0.000	7.849
SSW	0.000	0.000	0.773	1.865	1.758	2.487	0.672	0.000	0.000	7.555
SW	0.000	0.000	0.728	2.275	1.369	1.419	0.261	0.000	0.000	6.051
WSW	0.000	0.000	0.273	1.729	1.449	0.402	0.038	0.000	0.000	3.891
W	0.000	0.000	0.091	0.409	0.561	0.937	0.075	0.000	0.000	2.073
WNW	0.000	0.000	0.045	0.227	0.130	0.405	0.074	0.000	0.000	0.882
NW	0.000	0.000	0.000	0.045	0.259	0.364	0.111	0.000	0.000	0.780
NNW	0.000	0.045	0.045	0.227	0.219	0.482	0.150	0.000	0.000	1.170
SUBTOTAL	0.000	0.136	4.459	13.558	11.919	16.366	3.125	0.058	0.000	49.621

TOTAL HOURS OF VALID OBSERVATIONS 2198.000
TOTAL HOURS OF ELEVATED RELEASES 2056.140
TOTAL HOURS OF STABILITY CLASS D 1145.940
TOTAL HOURS OF ELEVATED STABILITY CLASS D 1090.670

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: 2022/10/12

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.273	0.610	1.005	0.186	0.000	0.000	2.391
NNE	0.000	0.000	0.045	0.364	0.441	1.223	0.489	0.000	0.000	2.562
NE	0.000	0.000	0.182	0.227	0.090	0.556	0.038	0.000	0.000	1.093
ENE	0.000	0.045	0.091	0.273	0.305	0.121	0.000	0.000	0.000	0.835
E	0.000	0.000	0.091	0.136	0.483	0.205	0.000	0.000	0.000	0.915
ESE	0.000	0.000	0.227	0.227	0.565	1.091	0.000	0.000	0.000	2.111
SE	0.000	0.000	0.364	0.409	1.146	0.686	0.037	0.034	0.000	2.676
SSE	0.000	0.000	0.500	0.773	0.351	0.446	0.038	0.000	0.000	2.109
S	0.000	0.000	0.273	0.546	0.486	0.788	0.263	0.000	0.000	2.357
SSW	0.000	0.045	0.318	0.728	0.260	0.728	0.038	0.000	0.000	2.117
SW	0.000	0.000	0.455	0.364	0.400	0.200	0.000	0.000	0.000	1.419
WSW	0.000	0.000	0.136	0.364	0.223	0.120	0.000	0.000	0.000	0.843
W	0.000	0.000	0.091	0.318	0.348	0.280	0.036	0.000	0.000	1.074
WNW	0.000	0.000	0.091	0.091	0.176	0.042	0.000	0.000	0.000	0.400
NW	0.000	0.000	0.182	0.045	0.000	0.201	0.075	0.000	0.000	0.503
NNW	0.000	0.000	0.045	0.182	0.261	0.197	0.000	0.000	0.000	0.685
SUBTOTAL	0.000	0.091	3.412	5.323	6.144	7.888	1.199	0.034	0.000	24.091

TOTAL HOURS OF VALID OBSERVATIONS 2198.000
TOTAL HOURS OF ELEVATED RELEASES 2056.140
TOTAL HOURS OF STABILITY CLASS E 558.800
TOTAL HOURS OF ELEVATED STABILITY CLASS E 529.520

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: 2022/10/12

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.133	0.675	0.113	0.000	0.000	0.921
NNE	0.000	0.000	0.045	0.000	0.129	0.831	0.151	0.000	0.000	1.157
NE	0.000	0.000	0.000	0.227	0.305	0.488	0.000	0.000	0.000	1.021
ENE	0.000	0.000	0.136	0.136	0.000	0.163	0.000	0.000	0.000	0.436
E	0.000	0.000	0.136	0.182	0.306	0.162	0.000	0.000	0.000	0.787
ESE	0.000	0.000	0.045	0.318	0.520	0.328	0.000	0.000	0.000	1.212
SE	0.000	0.000	0.182	0.182	0.356	0.167	0.000	0.000	0.000	0.887
SSE	0.000	0.000	0.000	0.091	0.089	0.000	0.000	0.000	0.000	0.180
S	0.000	0.000	0.045	0.091	0.089	0.038	0.075	0.000	0.000	0.339
SSW	0.000	0.000	0.091	0.136	0.044	0.041	0.000	0.000	0.000	0.313
SW	0.000	0.000	0.182	0.000	0.045	0.000	0.000	0.000	0.000	0.227
WSW	0.000	0.000	0.045	0.136	0.043	0.000	0.000	0.000	0.000	0.225
W	0.000	0.045	0.000	0.227	0.091	0.000	0.000	0.000	0.000	0.364
WNW	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.091
NW	0.000	0.000	0.045	0.091	0.088	0.039	0.000	0.000	0.000	0.263
NNW	0.000	0.000	0.000	0.045	0.132	0.322	0.149	0.000	0.000	0.649
SUBTOTAL	0.000	0.045	0.955	1.956	2.371	3.253	0.489	0.000	0.000	9.071

TOTAL HOURS OF VALID OBSERVATIONS 2198.000

TOTAL HOURS OF ELEVATED RELEASES 2056.140

TOTAL HOURS OF STABILITY CLASS F 214.480

TOTAL HOURS OF ELEVATED STABILITY CLASS F 199.370

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: 2022/10/12

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.043	0.202	0.038	0.000	0.000	0.328
NNE	0.000	0.000	0.000	0.000	0.044	0.244	0.446	0.000	0.000	0.734
NE	0.000	0.000	0.045	0.136	0.043	0.328	0.000	0.000	0.000	0.552
ENE	0.000	0.045	0.000	0.091	0.043	0.000	0.000	0.000	0.000	0.179
E	0.000	0.000	0.045	0.000	0.042	0.000	0.000	0.000	0.000	0.088
ESE	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.045
SE	0.000	0.000	0.000	0.227	0.000	0.000	0.000	0.000	0.000	0.227
SSE	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.045
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.091
SW	0.000	0.000	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.136
WSW	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.045
W	0.000	0.045	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.091
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.091
NNW	0.000	0.000	0.045	0.045	0.000	0.040	0.000	0.000	0.000	0.131
SUBTOTAL	0.000	0.091	0.364	0.819	0.214	0.813	0.484	0.000	0.000	2.785

TOTAL HOURS OF VALID OBSERVATIONS 2198.000

TOTAL HOURS OF ELEVATED RELEASES 2056.140

TOTAL HOURS OF STABILITY CLASS G 68.760

TOTAL HOURS OF ELEVATED STABILITY CLASS G 61.210

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: 2022/10/12

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.038	0.000	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	0.005	0.000	0.000	0.000	0.000	0.005
SE	0.000	0.000	0.000	0.003	0.049	0.015	0.000	0.000	0.000	0.068
SSE	0.000	0.000	0.000	0.012	0.010	0.000	0.000	0.000	0.000	0.021
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	0.001	0.012	0.000	0.000	0.000	0.000	0.014
W	0.000	0.000	0.000	0.000	0.000	0.024	0.012	0.000	0.000	0.035
WNW	0.000	0.000	0.000	0.000	0.000	0.008	0.018	0.000	0.000	0.026
NW	0.000	0.000	0.000	0.000	0.000	0.024	0.009	0.000	0.000	0.033
NNW	0.000	0.000	0.000	0.000	0.000	0.071	0.009	0.000	0.000	0.080
SUBTOTAL	0.000	0.000	0.000	0.017	0.076	0.180	0.047	0.000	0.000	0.320

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 273.180
 TOTAL HOURS OF STABILITY CLASS A 7.040
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS A 7.040

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: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.055	0.000	0.000	0.000	0.062
NNE	0.000	0.000	0.000	0.000	0.000	0.018	0.000	0.000	0.000	0.018
NE	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.003
ENE	0.000	0.000	0.000	0.000	0.000	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	0.007	0.020	0.061	0.000	0.000	0.000	0.088
SSE	0.000	0.000	0.000	0.009	0.014	0.009	0.000	0.000	0.000	0.032
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	0.001	0.000	0.009	0.000	0.000	0.000	0.010
WSW	0.000	0.000	0.000	0.000	0.006	0.031	0.000	0.000	0.000	0.037
W	0.000	0.000	0.000	0.000	0.025	0.061	0.009	0.000	0.000	0.095
WNW	0.000	0.000	0.000	0.000	0.011	0.060	0.065	0.000	0.000	0.136
NW	0.000	0.000	0.000	0.000	0.008	0.054	0.014	0.000	0.000	0.075
NNW	0.000	0.000	0.000	0.000	0.004	0.021	0.009	0.000	0.000	0.034
SUBTOTAL	0.000	0.000	0.000	0.017	0.098	0.378	0.097	0.000	0.000	0.590

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 273.180
 TOTAL HOURS OF STABILITY CLASS B 21.570
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS B 12.980

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

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.023	0.000	0.000	0.000	0.023
NNE	0.000	0.000	0.000	0.000	0.013	0.032	0.000	0.000	0.000	0.045
NE	0.000	0.000	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.011
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.008	0.060	0.066	0.000	0.000	0.000	0.134
SSE	0.000	0.000	0.000	0.011	0.016	0.000	0.000	0.000	0.000	0.027
S	0.000	0.000	0.000	0.001	0.022	0.000	0.000	0.000	0.000	0.023
SSW	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.008
SW	0.000	0.000	0.000	0.000	0.006	0.016	0.000	0.000	0.000	0.023
WSW	0.000	0.000	0.000	0.001	0.000	0.014	0.000	0.000	0.000	0.015
W	0.000	0.000	0.000	0.001	0.005	0.033	0.009	0.000	0.000	0.048
WNW	0.000	0.000	0.000	0.000	0.011	0.049	0.020	0.000	0.000	0.081
NW	0.000	0.000	0.000	0.000	0.013	0.039	0.027	0.000	0.000	0.079
NNW	0.000	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.091
SUBTOTAL	0.000	0.000	0.000	0.031	0.147	0.375	0.056	0.000	0.000	0.609

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 273.180
 TOTAL HOURS OF STABILITY CLASS C 74.790
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS C 13.390

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

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.015	0.043	0.056	0.000	0.000	0.000	0.113
NNE	0.000	0.000	0.004	0.026	0.101	0.030	0.000	0.000	0.000	0.161
NE	0.000	0.000	0.000	0.016	0.057	0.040	0.000	0.000	0.000	0.113
ENE	0.000	0.000	0.000	0.002	0.010	0.005	0.000	0.000	0.000	0.019
E	0.000	0.000	0.000	0.001	0.005	0.000	0.000	0.000	0.000	0.006
ESE	0.000	0.000	0.000	0.050	0.095	0.023	0.000	0.000	0.000	0.169
SE	0.000	0.000	0.000	0.092	0.164	0.925	0.167	0.000	0.000	1.348
SSE	0.000	0.000	0.006	0.049	0.125	0.163	0.000	0.000	0.000	0.343
S	0.000	0.000	0.001	0.011	0.050	0.167	0.022	0.000	0.000	0.251
SSW	0.000	0.000	0.005	0.016	0.006	0.039	0.000	0.000	0.000	0.067
SW	0.000	0.000	0.004	0.015	0.045	0.059	0.030	0.000	0.000	0.152
WSW	0.000	0.000	0.000	0.050	0.045	0.057	0.000	0.000	0.000	0.151
W	0.000	0.000	0.000	0.025	0.103	0.245	0.059	0.000	0.000	0.432
WNW	0.000	0.000	0.000	0.002	0.029	0.136	0.135	0.045	0.000	0.346
NW	0.000	0.000	0.000	0.003	0.066	0.255	0.170	0.252	0.045	0.792
NNW	0.000	0.000	0.000	0.021	0.083	0.328	0.009	0.000	0.000	0.441
SUBTOTAL	0.000	0.000	0.021	0.395	1.026	2.528	0.591	0.297	0.045	4.904

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 273.180
 TOTAL HOURS OF STABILITY CLASS D 891.610
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS D 107.880

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: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.033	0.073	0.045	0.000	0.000	0.000	0.000	0.151
NNE	0.000	0.000	0.011	0.158	0.058	0.008	0.013	0.000	0.000	0.249
NE	0.000	0.000	0.011	0.055	0.046	0.000	0.000	0.000	0.000	0.112
ENE	0.000	0.000	0.014	0.024	0.015	0.000	0.000	0.000	0.000	0.053
E	0.000	0.000	0.029	0.086	0.014	0.015	0.000	0.000	0.000	0.144
ESE	0.000	0.000	0.040	0.198	0.115	0.025	0.000	0.000	0.000	0.378
SE	0.000	0.000	0.036	0.173	0.065	0.165	0.000	0.000	0.000	0.439
SSE	0.000	0.000	0.010	0.079	0.140	0.409	0.227	0.000	0.000	0.865
S	0.000	0.000	0.005	0.025	0.074	0.286	0.159	0.000	0.000	0.549
SSW	0.000	0.000	0.003	0.002	0.026	0.105	0.021	0.000	0.000	0.157
SW	0.000	0.000	0.001	0.016	0.017	0.043	0.000	0.000	0.000	0.077
WSW	0.000	0.000	0.000	0.005	0.018	0.000	0.000	0.000	0.000	0.023
W	0.000	0.000	0.001	0.029	0.026	0.008	0.000	0.000	0.000	0.065
WNW	0.000	0.000	0.000	0.008	0.018	0.014	0.000	0.000	0.000	0.040
NW	0.000	0.000	0.004	0.048	0.029	0.046	0.000	0.000	0.000	0.127
NNW	0.000	0.000	0.013	0.055	0.184	0.095	0.000	0.000	0.000	0.346
SUBTOTAL	0.000	0.000	0.213	1.032	0.890	1.219	0.420	0.000	0.000	3.774

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 273.180
 TOTAL HOURS OF STABILITY CLASS E 793.630
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS E 83.030

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

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.026	0.122	0.000	0.000	0.000	0.000	0.000	0.148
NNE	0.000	0.000	0.013	0.102	0.020	0.000	0.000	0.000	0.000	0.135
NE	0.000	0.000	0.002	0.013	0.007	0.000	0.000	0.000	0.000	0.023
ENE	0.000	0.000	0.007	0.016	0.000	0.000	0.000	0.000	0.000	0.024
E	0.000	0.000	0.034	0.037	0.000	0.000	0.000	0.000	0.000	0.070
ESE	0.000	0.000	0.046	0.091	0.021	0.000	0.000	0.000	0.000	0.159
SE	0.000	0.000	0.032	0.083	0.085	0.065	0.000	0.000	0.000	0.265
SSE	0.000	0.000	0.024	0.103	0.083	0.205	0.091	0.000	0.000	0.505
S	0.000	0.000	0.005	0.012	0.029	0.044	0.000	0.000	0.000	0.089
SSW	0.000	0.000	0.004	0.018	0.000	0.000	0.000	0.000	0.000	0.022
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.004	0.005	0.000	0.000	0.000	0.000	0.000	0.010
NNW	0.000	0.000	0.014	0.055	0.015	0.000	0.000	0.000	0.000	0.083
SUBTOTAL	0.000	0.000	0.211	0.657	0.260	0.314	0.091	0.000	0.000	1.532

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF GROUND LEVEL RELEASE 273.180
TOTAL HOURS OF STABILITY CLASS F 295.460
TOTAL HOURS OF GROUND LEVEL STABILITY CLASS F 33.710

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: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.032	0.149	0.028	0.000	0.000	0.000	0.000	0.209
NNE	0.000	0.000	0.008	0.074	0.007	0.000	0.000	0.000	0.000	0.089
NE	0.000	0.000	0.006	0.021	0.000	0.000	0.000	0.000	0.000	0.027
ENE	0.000	0.000	0.017	0.027	0.000	0.000	0.000	0.000	0.000	0.044
E	0.000	0.000	0.022	0.003	0.000	0.000	0.000	0.000	0.000	0.025
ESE	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.011
SE	0.000	0.000	0.036	0.015	0.047	0.016	0.000	0.000	0.000	0.115
SSE	0.000	0.000	0.031	0.025	0.017	0.075	0.000	0.000	0.000	0.148
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	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
NNW	0.000	0.000	0.013	0.008	0.000	0.000	0.000	0.000	0.000	0.020
SUBTOTAL	0.000	0.000	0.165	0.333	0.100	0.091	0.000	0.000	0.000	0.689

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF GROUND LEVEL RELEASE 273.180
 TOTAL HOURS OF STABILITY CLASS G 115.900
 TOTAL HOURS OF GROUND LEVEL STABILITY CLASS G 15.150

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: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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 1926.820
 TOTAL HOURS OF STABILITY CLASS A 7.040
 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: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.078	0.000	0.000	0.000	0.078
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	0.045	0.045	0.000	0.000	0.000	0.000	0.091
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.034	0.000	0.034
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.000	0.000	0.037
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.077	0.075	0.000	0.000	0.151
SUBTOTAL	0.000	0.000	0.000	0.045	0.045	0.155	0.111	0.034	0.000	0.390

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF ELEVATED RELEASES 1926.820
 TOTAL HOURS OF STABILITY CLASS B 21.570
 TOTAL HOURS OF ELEVATED STABILITY CLASS B 8.590

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: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.043	0.392	0.111	0.000	0.000	0.545
NNE	0.000	0.000	0.000	0.000	0.000	0.079	0.000	0.000	0.000	0.079
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	0.040	0.000	0.000	0.000	0.040
SE	0.000	0.000	0.000	0.000	0.044	0.039	0.000	0.000	0.000	0.082
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	0.091	0.136	0.000	0.000	0.000	0.000	0.000	0.227
SW	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.045
WSW	0.000	0.000	0.000	0.000	0.085	0.240	0.000	0.000	0.000	0.325
W	0.000	0.000	0.000	0.045	0.088	0.240	0.335	0.000	0.000	0.708
WNW	0.000	0.000	0.000	0.000	0.000	0.039	0.260	0.024	0.000	0.323
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.075	0.000	0.000	0.075
NNW	0.000	0.000	0.000	0.000	0.000	0.119	0.222	0.000	0.000	0.341
SUBTOTAL	0.000	0.000	0.091	0.227	0.259	1.187	1.003	0.024	0.000	2.791

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF ELEVATED RELEASES 1926.820
TOTAL HOURS OF STABILITY CLASS C 74.790
TOTAL HOURS OF ELEVATED STABILITY CLASS C 61.400

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

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.273	0.091	0.128	0.512	0.261	0.035	0.000	1.299
NNE	0.000	0.000	0.136	0.182	0.608	1.318	0.150	0.000	0.000	2.395
NE	0.000	0.000	0.091	0.273	0.305	0.446	0.000	0.000	0.000	1.115
ENE	0.000	0.000	0.000	0.455	0.221	0.040	0.000	0.000	0.000	0.715
E	0.000	0.000	0.045	0.409	0.135	0.157	0.000	0.000	0.000	0.747
ESE	0.000	0.000	0.091	0.227	0.527	1.801	0.555	0.023	0.004	3.230
SE	0.000	0.045	0.136	0.136	0.565	1.229	1.027	0.744	0.053	3.936
SSE	0.000	0.000	0.273	0.136	0.174	0.522	0.924	0.108	0.000	2.137
S	0.000	0.000	0.182	0.409	0.225	0.318	0.372	0.135	0.000	1.641
SSW	0.000	0.000	0.318	0.136	0.087	0.314	0.150	0.000	0.000	1.005
SW	0.000	0.045	0.000	0.091	0.350	0.557	0.293	0.035	0.000	1.370
WSW	0.000	0.000	0.227	0.318	0.567	1.201	0.264	0.000	0.000	2.578
W	0.000	0.045	0.136	0.273	0.606	2.068	0.668	0.106	0.000	3.903
WNW	0.000	0.000	0.045	0.182	0.395	1.873	0.480	0.283	0.001	3.259
NW	0.000	0.000	0.091	0.182	0.219	1.545	1.152	0.143	0.020	3.352
NNW	0.000	0.000	0.091	0.227	0.257	1.546	0.821	0.000	0.000	2.942
SUBTOTAL	0.000	0.136	2.136	3.727	5.370	15.447	7.118	1.611	0.078	35.624

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF ELEVATED RELEASES 1926.820
 TOTAL HOURS OF STABILITY CLASS D 891.610
 TOTAL HOURS OF ELEVATED STABILITY CLASS D 783.730

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

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.318	0.698	0.904	0.149	0.000	0.000	2.069
NNE	0.000	0.045	0.182	0.273	0.701	1.600	0.075	0.032	0.000	2.908
NE	0.000	0.000	0.182	0.455	0.434	0.808	0.000	0.000	0.000	1.878
ENE	0.000	0.000	0.182	0.409	0.395	0.160	0.000	0.000	0.000	1.146
E	0.000	0.000	0.136	0.591	0.390	0.733	0.038	0.000	0.000	1.888
ESE	0.000	0.000	0.227	0.455	0.657	1.753	0.299	0.036	0.004	3.431
SE	0.000	0.000	0.091	0.045	0.396	1.910	1.110	0.316	0.008	3.876
SSE	0.000	0.000	0.045	0.182	0.265	0.639	1.135	0.643	0.020	2.929
S	0.000	0.000	0.182	0.455	0.308	0.715	0.849	0.124	0.000	2.632
SSW	0.000	0.000	0.364	0.273	0.268	0.552	0.520	0.025	0.000	2.001
SW	0.000	0.045	0.136	0.409	0.485	0.282	0.073	0.057	0.000	1.488
WSW	0.000	0.000	0.045	0.318	0.130	0.157	0.000	0.000	0.000	0.650
W	0.000	0.000	0.136	0.318	0.310	0.286	0.037	0.000	0.000	1.088
WNW	0.000	0.000	0.045	0.045	0.132	0.200	0.000	0.000	0.000	0.423
NW	0.000	0.000	0.091	0.182	0.173	0.952	0.448	0.000	0.000	1.846
NNW	0.000	0.000	0.000	0.273	0.563	0.874	0.338	0.000	0.000	2.047
SUBTOTAL	0.000	0.091	2.045	5.000	6.305	12.524	5.071	1.232	0.031	32.300

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF ELEVATED RELEASES 1926.820
 TOTAL HOURS OF STABILITY CLASS E 793.630
 TOTAL HOURS OF ELEVATED STABILITY CLASS E 710.600

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: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.045	0.630	0.000	0.000	0.000	0.721
NNE	0.000	0.000	0.182	0.045	0.088	0.836	0.000	0.000	0.000	1.151
NE	0.000	0.000	0.045	0.227	0.088	0.672	0.000	0.000	0.000	1.033
ENE	0.000	0.000	0.045	0.091	0.175	0.365	0.000	0.000	0.000	0.676
E	0.000	0.045	0.182	0.091	0.213	0.397	0.000	0.000	0.000	0.928
ESE	0.000	0.000	0.045	0.273	0.173	0.847	0.000	0.000	0.000	1.338
SE	0.000	0.000	0.091	0.136	0.217	0.910	0.183	0.115	0.000	1.652
SSE	0.000	0.000	0.000	0.045	0.088	0.434	0.592	0.089	0.000	1.249
S	0.000	0.000	0.045	0.136	0.000	0.078	0.037	0.000	0.000	0.297
SSW	0.000	0.000	0.091	0.182	0.042	0.000	0.000	0.000	0.000	0.315
SW	0.000	0.000	0.136	0.182	0.000	0.000	0.000	0.000	0.000	0.318
WSW	0.000	0.000	0.136	0.227	0.000	0.000	0.000	0.000	0.000	0.364
W	0.000	0.000	0.136	0.227	0.044	0.000	0.000	0.000	0.000	0.408
WNW	0.000	0.000	0.227	0.227	0.000	0.000	0.000	0.000	0.000	0.455
NW	0.000	0.000	0.000	0.227	0.043	0.160	0.000	0.000	0.000	0.430
NNW	0.000	0.000	0.000	0.045	0.000	0.518	0.000	0.000	0.000	0.563
SUBTOTAL	0.000	0.045	1.364	2.409	1.217	5.845	0.813	0.204	0.000	11.898

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
TOTAL HOURS OF ELEVATED RELEASES 1926.820
TOTAL HOURS OF STABILITY CLASS F 295.460
TOTAL HOURS OF ELEVATED STABILITY CLASS F 261.750

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

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.091	0.000	0.079	0.000	0.000	0.000	0.215
NNE	0.000	0.000	0.091	0.091	0.044	0.426	0.151	0.000	0.000	0.802
NE	0.000	0.000	0.091	0.091	0.264	0.316	0.000	0.000	0.000	0.762
ENE	0.000	0.000	0.136	0.045	0.045	0.000	0.000	0.000	0.000	0.227
E	0.000	0.000	0.182	0.273	0.130	0.124	0.000	0.000	0.000	0.709
ESE	0.000	0.000	0.182	0.091	0.128	0.042	0.000	0.000	0.000	0.443
SE	0.000	0.000	0.000	0.000	0.173	0.080	0.000	0.000	0.000	0.253
SSE	0.000	0.045	0.091	0.045	0.089	0.080	0.000	0.000	0.000	0.351
S	0.000	0.000	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.136
SSW	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.091
SW	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.091
WSW	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.045
W	0.000	0.045	0.000	0.091	0.045	0.000	0.000	0.000	0.000	0.181
WNW	0.000	0.000	0.000	0.136	0.000	0.000	0.000	0.000	0.000	0.136
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	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.136
SUBTOTAL	0.000	0.091	1.227	1.045	0.919	1.146	0.151	0.000	0.000	4.580

TOTAL HOURS OF VALID OBSERVATIONS 2200.000
 TOTAL HOURS OF ELEVATED RELEASES 1926.820
 TOTAL HOURS OF STABILITY CLASS G 115.900
 TOTAL HOURS OF ELEVATED STABILITY CLASS G 100.750

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

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

Table 8-A Elevated Releases - 1st Quarter JFD

Joint Frequency Distribution In Percent

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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

JAN 1, 2022 - MAR 31, 2022

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 2151
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 2151
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: 2022/04/07

MEAN WIND SPEED = 0.00

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2022 - MAR 31, 2022

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	0.046	0.046
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.046
S	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.046
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.093	0.000	0.000	0.046	0.139

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2151
 TOTAL HOURS OF STABILITY CLASS B 3
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 3
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2151
 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

MEAN WIND SPEED = 16.67

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2022 - MAR 31, 2022

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	0.093	0.186	0.000	0.000	0.279
NNE	0.000	0.000	0.000	0.000	0.000	0.093	0.093	0.000	0.000	0.186
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.046	0.000	0.046	0.000	0.000	0.093
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	0.000	0.186	0.000	0.000	0.186
S	0.000	0.000	0.000	0.000	0.000	0.139	0.046	0.000	0.000	0.186
SSW	0.000	0.000	0.000	0.000	0.000	0.139	0.000	0.000	0.000	0.139
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	0.139	0.000	0.046	0.000	0.186
W	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.093	0.000	0.139
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.093	0.139
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.046	0.697	0.558	0.186	0.093	1.581

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2151
 TOTAL HOURS OF STABILITY CLASS C 34
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 34
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2151
 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

MEAN WIND SPEED = 14.04

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2022 - MAR 31, 2022

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	0.232	0.511	2.139	2.650	0.930	0.139	6.648
NNE	0.000	0.000	0.000	0.325	0.651	2.046	1.488	0.186	0.046	4.742
NE	0.000	0.000	0.046	0.046	0.558	0.790	0.232	0.000	0.000	1.674
ENE	0.000	0.000	0.093	0.046	0.093	0.279	0.139	0.000	0.000	0.651
E	0.000	0.000	0.000	0.046	0.093	0.372	0.511	0.093	0.000	1.116
ESE	0.000	0.000	0.000	0.325	0.232	0.558	0.604	0.139	0.046	1.906
SE	0.000	0.000	0.186	0.186	0.232	0.279	0.279	0.186	0.093	1.441
SSE	0.000	0.000	0.139	0.046	0.139	0.465	0.465	0.558	0.093	1.906
S	0.000	0.000	0.046	0.093	0.139	0.651	0.744	0.046	0.000	1.720
SSW	0.000	0.046	0.279	0.139	0.186	0.418	0.325	0.186	0.046	1.627
SW	0.000	0.000	0.093	0.139	0.046	0.418	0.558	0.232	0.000	1.488
WSW	0.000	0.000	0.093	0.093	0.093	0.651	0.604	0.186	0.000	1.720
W	0.000	0.000	0.325	0.697	0.976	0.651	1.348	0.744	0.000	4.742
WNW	0.000	0.000	0.186	0.558	0.837	1.255	1.069	0.744	0.418	5.067
NW	0.000	0.000	0.093	0.325	0.232	0.651	1.953	1.162	0.372	4.788
NNW	0.000	0.000	0.046	0.139	0.139	1.720	2.882	1.209	0.232	6.369
SUBTOTAL	0.000	0.046	1.674	3.440	5.160	13.343	15.853	6.602	1.488	47.606

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2151
 TOTAL HOURS OF STABILITY CLASS D 1024
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 1024
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2151
 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

MEAN WIND SPEED = 12.76

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2022 - MAR 31, 2022

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	0.186	0.046	1.302	1.069	0.093	0.000	2.696
NNE	0.000	0.000	0.000	0.139	0.000	0.790	1.209	0.046	0.000	2.185
NE	0.000	0.000	0.000	0.000	0.093	0.697	0.604	0.000	0.000	1.395
ENE	0.000	0.000	0.046	0.093	0.232	0.651	0.837	0.046	0.000	1.906
E	0.000	0.046	0.139	0.093	0.139	0.232	0.325	0.093	0.000	1.069
ESE	0.000	0.000	0.046	0.139	0.186	0.558	0.511	0.093	0.000	1.534
SE	0.000	0.000	0.093	0.139	0.093	0.744	0.930	1.069	0.883	3.952
SSE	0.000	0.000	0.046	0.093	0.046	1.023	1.534	2.046	1.023	5.811
S	0.000	0.000	0.000	0.046	0.232	0.558	1.813	1.906	1.395	5.951
SSW	0.000	0.000	0.000	0.232	0.186	0.651	0.744	0.465	0.418	2.696
SW	0.000	0.000	0.046	0.093	0.093	0.744	0.325	0.093	0.000	1.395
WSW	0.000	0.046	0.093	0.093	0.139	0.418	0.186	0.046	0.000	1.023
W	0.000	0.000	0.139	0.186	0.232	0.651	0.186	0.046	0.000	1.441
WNW	0.000	0.046	0.000	0.186	0.186	0.697	0.279	0.000	0.046	1.441
NW	0.000	0.000	0.139	0.046	0.046	0.232	0.604	0.000	0.000	1.069
NNW	0.000	0.000	0.046	0.093	0.046	0.465	0.790	0.000	0.000	1.441
SUBTOTAL	0.000	0.139	0.837	1.860	1.999	10.414	11.948	6.044	3.766	37.006

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2151
TOTAL HOURS OF STABILITY CLASS E 796
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 796
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2151
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

MEAN WIND SPEED = 14.74

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

BROWNS FERRY NUCLEAR PLANT

JAN 1, 2022 - MAR 31, 2022

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	0.000	0.000	0.093	0.093	0.372	0.000	0.000	0.604
NNE	0.000	0.000	0.046	0.046	0.046	0.000	0.093	0.000	0.000	0.232
NE	0.000	0.000	0.000	0.139	0.000	0.000	0.093	0.000	0.000	0.232
ENE	0.000	0.000	0.000	0.000	0.046	0.139	0.046	0.000	0.000	0.232
E	0.000	0.000	0.000	0.046	0.093	0.093	0.186	0.000	0.000	0.418
ESE	0.000	0.000	0.000	0.046	0.000	0.232	0.093	0.000	0.000	0.372
SE	0.000	0.000	0.046	0.046	0.093	0.604	0.930	0.232	0.000	1.953
SSE	0.000	0.000	0.000	0.046	0.000	0.186	0.604	0.930	0.093	1.860
S	0.000	0.000	0.093	0.139	0.046	0.139	0.418	0.232	0.000	1.069
SSW	0.000	0.046	0.000	0.046	0.093	0.186	0.325	0.000	0.000	0.697
SW	0.000	0.000	0.093	0.046	0.139	0.232	0.046	0.000	0.000	0.558
WSW	0.000	0.000	0.139	0.046	0.186	0.697	0.418	0.000	0.000	1.488
W	0.000	0.000	0.232	0.046	0.046	0.325	0.046	0.000	0.000	0.697
WNW	0.000	0.000	0.093	0.093	0.000	0.279	0.000	0.000	0.000	0.465
NW	0.000	0.000	0.232	0.046	0.093	0.139	0.046	0.000	0.000	0.558
NNW	0.000	0.000	0.046	0.000	0.000	0.093	0.093	0.000	0.000	0.232
SUBTOTAL	0.000	0.093	1.023	0.837	0.976	3.440	3.812	1.395	0.093	11.669

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2151
TOTAL HOURS OF STABILITY CLASS F 251
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 251
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2151
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

MEAN WIND SPEED = 11.83

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 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

JAN 1, 2022 - MAR 31, 2022

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	0.093	0.000	0.000	0.093
NNE	0.000	0.000	0.046	0.000	0.000	0.000	0.046	0.000	0.000	0.093
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.000	0.093
E	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.046	0.000	0.000	0.000	0.093	0.000	0.000	0.139
SSE	0.000	0.000	0.046	0.000	0.000	0.046	0.000	0.000	0.000	0.093
S	0.000	0.046	0.000	0.000	0.000	0.325	0.093	0.000	0.000	0.465
SSW	0.000	0.000	0.046	0.000	0.000	0.000	0.046	0.000	0.000	0.093
SW	0.000	0.000	0.000	0.046	0.000	0.093	0.000	0.000	0.000	0.139
WSW	0.000	0.000	0.000	0.046	0.139	0.139	0.046	0.000	0.000	0.372
W	0.000	0.000	0.000	0.000	0.000	0.186	0.046	0.000	0.000	0.232
WNW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
NW	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
NNW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
SUBTOTAL	0.000	0.046	0.325	0.093	0.186	0.883	0.465	0.000	0.000	1.999

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2151
 TOTAL HOURS OF STABILITY CLASS G 43
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 43
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2151
 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

MEAN WIND SPEED = 8.84

DATE PRINTED: 2022/04/07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

Table 8-B Elevated Releases - 2nd Quarter JFD

Joint Frequency Distribution In Percent

Browns Ferry Nuclear Plant
 Units 1, 2 and 3
 2022 Annual Radioactive Effluent Release Report

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

APR 1, 2022 - JUN 30, 2022

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	0.046	0.000	0.000	0.046
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	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	0.046	0.000	0.000	0.046

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2165
 TOTAL HOURS OF STABILITY CLASS A 1
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 1
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2164
 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

MEAN WIND SPEED = 13.60

DATE PRINTED: 2022/07/11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - JUN 30, 2022

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.000	0.000	0.000	0.046	0.277	0.000	0.000	0.323
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
SSE	0.000	0.000	0.000	0.000	0.046	0.046	0.046	0.000	0.000	0.139
S	0.000	0.000	0.000	0.046	0.000	0.092	0.000	0.000	0.000	0.139
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	0.046	0.000	0.046	0.000	0.000	0.000	0.092
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	0.277	0.000	0.000	0.000	0.277
WNW	0.000	0.000	0.000	0.000	0.000	0.185	0.046	0.000	0.000	0.231
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.046
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.092	0.000	0.000	0.092
SUBTOTAL	0.000	0.000	0.000	0.139	0.046	0.693	0.508	0.000	0.000	1.386

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2165
 TOTAL HOURS OF STABILITY CLASS B 30
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 30
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2164
 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: 2022/07/11

MEAN WIND SPEED = 10.96

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.185	0.370	0.092	0.000	0.000	0.647
NNE	0.000	0.000	0.000	0.000	0.092	0.185	0.231	0.000	0.000	0.508
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
SE	0.000	0.000	0.000	0.092	0.000	0.185	0.092	0.000	0.000	0.370
SSE	0.000	0.000	0.000	0.046	0.139	0.185	0.046	0.000	0.000	0.416
S	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
SSW	0.000	0.000	0.000	0.000	0.092	0.046	0.000	0.000	0.000	0.139
SW	0.000	0.000	0.000	0.000	0.000	0.185	0.139	0.000	0.000	0.323
WSW	0.000	0.000	0.000	0.000	0.046	0.092	0.000	0.000	0.000	0.139
W	0.000	0.000	0.000	0.139	0.277	0.231	0.092	0.185	0.000	0.924
WNW	0.000	0.000	0.000	0.000	0.000	0.139	0.139	0.046	0.000	0.323
NW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
NNW	0.000	0.000	0.000	0.000	0.000	0.139	0.092	0.000	0.000	0.231
SUBTOTAL	0.000	0.000	0.000	0.277	0.832	1.895	0.924	0.231	0.000	4.159

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2165
 TOTAL HOURS OF STABILITY CLASS C 90
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 90
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2164
 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

MEAN WIND SPEED = 10.67

DATE PRINTED: 2022/07/11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.462	1.710	0.924	0.092	0.000	3.281
NNE	0.000	0.000	0.000	0.185	0.231	1.571	0.277	0.046	0.000	2.311
NE	0.000	0.000	0.000	0.046	0.139	0.508	0.000	0.000	0.000	0.693
ENE	0.000	0.000	0.139	0.046	0.231	0.139	0.046	0.000	0.000	0.601
E	0.000	0.000	0.046	0.139	0.185	0.231	0.092	0.000	0.000	0.693
ESE	0.000	0.000	0.139	0.231	0.462	0.739	0.370	0.000	0.046	1.987
SE	0.000	0.000	0.139	1.109	0.508	1.109	1.756	1.201	0.277	6.100
SSE	0.000	0.000	0.416	0.601	0.601	1.109	1.479	1.340	0.185	5.730
S	0.000	0.000	0.231	0.508	0.462	1.201	2.588	1.109	0.000	6.100
SSW	0.000	0.000	0.185	0.508	0.416	0.832	2.126	1.063	0.092	5.222
SW	0.000	0.000	0.370	0.508	0.370	0.832	0.739	0.277	0.000	3.096
WSW	0.000	0.046	0.139	0.832	0.647	0.924	0.185	0.046	0.046	2.865
W	0.000	0.000	0.323	0.370	1.109	1.848	0.878	0.416	0.277	5.222
WNW	0.000	0.000	0.185	0.323	0.370	0.970	0.370	0.924	0.092	3.235
NW	0.000	0.000	0.139	0.231	0.416	0.786	1.433	0.462	0.000	3.466
NNW	0.000	0.000	0.046	0.046	0.046	1.109	0.786	0.092	0.000	2.126
SUBTOTAL	0.000	0.046	2.495	5.776	6.654	15.619	14.048	7.070	1.017	52.726

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2165
 TOTAL HOURS OF STABILITY CLASS D 1142
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 1141
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2164
 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

MEAN WIND SPEED = 11.78

DATE PRINTED: 2022/07/11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.000	0.092	0.185	0.924	0.462	0.046	0.000	1.756
NNE	0.000	0.000	0.139	0.046	0.139	0.739	0.693	0.092	0.000	1.848
NE	0.000	0.000	0.046	0.139	0.092	0.462	1.109	0.046	0.000	1.895
ENE	0.000	0.000	0.000	0.000	0.046	0.416	0.231	0.000	0.000	0.693
E	0.000	0.000	0.092	0.000	0.092	0.277	0.092	0.000	0.000	0.555
ESE	0.000	0.000	0.092	0.231	0.046	0.462	0.231	0.046	0.000	1.109
SE	0.000	0.000	0.139	0.092	0.046	1.294	0.832	0.139	0.000	2.542
SSE	0.000	0.000	0.046	0.185	0.092	0.647	2.403	1.063	0.139	4.575
S	0.000	0.000	0.046	0.231	0.323	0.693	1.525	1.017	0.508	4.344
SSW	0.000	0.000	0.046	0.277	0.231	0.647	0.601	0.277	0.046	2.126
SW	0.000	0.000	0.000	0.231	0.231	0.323	0.092	0.000	0.000	0.878
WSW	0.000	0.000	0.092	0.000	0.370	0.508	0.000	0.000	0.000	0.970
W	0.000	0.046	0.046	0.231	0.046	0.231	0.092	0.000	0.000	0.693
WNW	0.000	0.000	0.000	0.092	0.277	0.370	0.000	0.046	0.000	0.786
NW	0.000	0.000	0.092	0.046	0.092	0.277	0.231	0.092	0.000	0.832
NNW	0.000	0.000	0.000	0.046	0.092	0.277	0.092	0.046	0.000	0.555
SUBTOTAL	0.000	0.092	0.878	1.941	2.403	8.549	8.688	2.911	0.693	26.155

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2165
TOTAL HOURS OF STABILITY CLASS E 566
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 566
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2164
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

MEAN WIND SPEED = 12.32

DATE PRINTED: 2022/07/11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - JUN 30, 2022

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	0.786	0.000	0.000	0.878
NNE	0.000	0.000	0.046	0.046	0.000	0.185	0.508	0.092	0.000	0.878
NE	0.000	0.000	0.000	0.000	0.092	0.277	0.277	0.370	0.000	1.017
ENE	0.000	0.000	0.092	0.000	0.046	0.231	0.323	0.277	0.000	0.970
E	0.000	0.000	0.000	0.046	0.046	0.277	0.185	0.000	0.000	0.555
ESE	0.000	0.000	0.000	0.139	0.231	0.832	0.046	0.046	0.000	1.294
SE	0.000	0.000	0.185	0.231	0.139	0.508	0.416	0.000	0.000	1.479
SSE	0.000	0.000	0.000	0.046	0.185	0.416	0.647	0.092	0.046	1.433
S	0.000	0.000	0.046	0.185	0.000	0.185	0.601	0.000	0.000	1.017
SSW	0.000	0.000	0.000	0.092	0.000	0.231	0.231	0.046	0.000	0.601
SW	0.000	0.000	0.046	0.092	0.000	0.000	0.000	0.000	0.000	0.139
WSW	0.000	0.000	0.046	0.000	0.000	0.092	0.046	0.000	0.000	0.185
W	0.000	0.000	0.046	0.231	0.092	0.185	0.000	0.000	0.000	0.555
WNW	0.000	0.046	0.139	0.046	0.139	0.231	0.000	0.000	0.000	0.601
NW	0.000	0.000	0.000	0.185	0.092	0.231	0.046	0.000	0.000	0.555
NNW	0.000	0.000	0.000	0.046	0.000	0.231	0.000	0.000	0.000	0.277
SUBTOTAL	0.000	0.046	0.647	1.386	1.063	4.205	4.113	0.924	0.046	12.431

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2165
TOTAL HOURS OF STABILITY CLASS F 269
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 269
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2164
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

MEAN WIND SPEED = 11.04

DATE PRINTED: 2022/07/11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 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

APR 1, 2022 - JUN 30, 2022

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	0.000	0.046	0.000	0.000	0.000	0.092
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.139	0.000	0.000	0.139
NE	0.000	0.000	0.000	0.000	0.000	0.046	0.139	0.046	0.000	0.231
ENE	0.000	0.000	0.000	0.000	0.000	0.139	0.277	0.000	0.000	0.416
E	0.000	0.000	0.092	0.046	0.046	0.092	0.046	0.000	0.000	0.323
ESE	0.000	0.000	0.092	0.046	0.139	0.231	0.000	0.000	0.000	0.508
SE	0.000	0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.092
SSE	0.000	0.000	0.092	0.000	0.139	0.323	0.000	0.000	0.000	0.555
S	0.000	0.000	0.000	0.092	0.139	0.046	0.046	0.000	0.000	0.323
SSW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
SW	0.000	0.046	0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.139
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	0.046	0.000	0.000	0.000	0.000	0.046
WNW	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.092
NW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
NNW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.046
SUBTOTAL	0.000	0.092	0.416	0.370	0.555	0.970	0.647	0.046	0.000	3.096

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2165
 TOTAL HOURS OF STABILITY CLASS G 67
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 67
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2164
 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

MEAN WIND SPEED = 8.84

DATE PRINTED: 2022/07/11

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

Table 8-C Elevated Releases - 3rd Quarter JFD

Joint Frequency Distribution In Percent

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

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

JUL 1, 2022 - SEP 30, 2022

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	0.045	0.000	0.045	0.000	0.000	0.091
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.091
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.091
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.000	0.000	0.045	0.182	0.045	0.000	0.000	0.273

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
TOTAL HOURS OF STABILITY CLASS A 6
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 6
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: 2022/10/12

MEAN WIND SPEED = 9.95

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.227	0.045	0.000	0.273
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	0.045	0.045	0.045	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	0.091	0.273	0.045	0.000	0.000	0.409
SW	0.000	0.000	0.000	0.136	0.136	0.364	0.045	0.000	0.000	0.682
WSW	0.000	0.000	0.000	0.136	0.000	0.182	0.045	0.000	0.000	0.364
W	0.000	0.000	0.000	0.091	0.318	0.182	0.045	0.045	0.000	0.682
WNW	0.000	0.000	0.000	0.000	0.091	0.045	0.000	0.000	0.000	0.136
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	0.364	0.682	1.092	0.455	0.091	0.000	2.684

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
 TOTAL HOURS OF STABILITY CLASS B 59
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 59
 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

MEAN WIND SPEED = 9.78

DATE PRINTED: 2022/10/12

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.182	0.227	0.091	0.000	0.500
NNE	0.000	0.000	0.000	0.000	0.000	0.091	0.227	0.091	0.000	0.409
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.136	0.000	0.000	0.136
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.045
SSE	0.000	0.000	0.000	0.091	0.136	0.182	0.000	0.000	0.000	0.409
S	0.000	0.000	0.000	0.000	0.045	0.182	0.045	0.000	0.000	0.273
SSW	0.000	0.000	0.000	0.136	0.136	0.455	0.000	0.000	0.000	0.728
SW	0.000	0.000	0.045	0.182	0.091	0.409	0.227	0.000	0.000	0.955
WSW	0.000	0.000	0.000	0.318	0.273	0.273	0.000	0.000	0.000	0.864
W	0.000	0.000	0.000	0.182	0.273	0.364	0.045	0.000	0.000	0.864
WNW	0.000	0.000	0.000	0.000	0.091	0.227	0.045	0.000	0.000	0.364
NW	0.000	0.000	0.000	0.000	0.091	0.000	0.045	0.000	0.000	0.136
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.045	0.000	0.091
SUBTOTAL	0.000	0.000	0.045	0.910	1.183	2.366	1.046	0.227	0.000	5.778

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
 TOTAL HOURS OF STABILITY CLASS C 127
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 127
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 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: 2022/10/12

MEAN WIND SPEED = 9.39

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.182	0.227	0.773	0.637	0.136	0.000	2.002
NNE	0.000	0.000	0.000	0.045	0.182	1.547	0.500	0.000	0.000	2.275
NE	0.000	0.000	0.182	0.227	0.182	0.500	0.091	0.045	0.045	1.274
ENE	0.000	0.000	0.227	0.136	0.227	0.182	0.000	0.000	0.000	0.773
E	0.000	0.045	0.136	0.136	0.000	0.273	0.045	0.000	0.000	0.637
ESE	0.000	0.000	0.182	0.318	0.182	0.819	0.455	0.000	0.000	1.956
SE	0.000	0.000	0.409	1.501	1.092	1.865	0.864	0.091	0.000	5.823
SSE	0.000	0.045	0.409	1.228	0.773	1.911	0.500	0.000	0.000	4.868
S	0.000	0.000	0.409	1.365	1.547	2.957	0.455	0.045	0.000	6.779
SSW	0.000	0.000	0.682	1.137	1.365	3.503	1.456	0.136	0.000	8.280
SW	0.000	0.000	0.546	1.547	1.956	2.138	0.728	0.000	0.000	6.915
WSW	0.000	0.000	0.409	1.638	1.365	1.547	0.182	0.000	0.000	5.141
W	0.000	0.000	0.091	0.546	0.637	1.410	0.409	0.000	0.000	3.094
WNW	0.000	0.000	0.045	0.091	0.182	0.773	0.136	0.000	0.000	1.228
NW	0.000	0.000	0.045	0.091	0.136	0.273	0.227	0.000	0.000	0.773
NNW	0.000	0.000	0.045	0.182	0.091	0.455	0.318	0.000	0.000	1.092
SUBTOTAL	0.000	0.091	3.867	10.373	10.146	20.928	7.006	0.455	0.045	52.912

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
 TOTAL HOURS OF STABILITY CLASS D 1163
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 1163
 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

MEAN WIND SPEED = 8.21

DATE PRINTED: 2022/10/12

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - SEP 30, 2022

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	0.136	0.591	0.500	0.091	0.000	1.365
NNE	0.000	0.000	0.045	0.227	0.182	1.137	1.456	0.227	0.000	3.276
NE	0.000	0.000	0.045	0.045	0.182	0.182	0.773	0.136	0.000	1.365
ENE	0.000	0.000	0.091	0.091	0.045	0.182	0.182	0.000	0.000	0.591
E	0.000	0.000	0.182	0.091	0.091	0.364	0.136	0.000	0.000	0.864
ESE	0.000	0.000	0.136	0.182	0.045	0.500	0.227	0.000	0.000	1.092
SE	0.000	0.000	0.136	0.227	0.500	1.865	0.455	0.045	0.000	3.230
SSE	0.000	0.000	0.364	0.273	0.409	1.092	0.091	0.000	0.000	2.229
S	0.000	0.045	0.273	0.637	0.591	0.910	0.728	0.000	0.000	3.185
SSW	0.000	0.000	0.227	0.409	0.273	0.910	0.455	0.000	0.000	2.275
SW	0.000	0.000	0.455	0.318	0.227	0.500	0.136	0.000	0.000	1.638
WSW	0.000	0.000	0.136	0.273	0.318	0.318	0.045	0.000	0.000	1.092
W	0.000	0.000	0.136	0.182	0.273	0.500	0.091	0.000	0.000	1.183
WNW	0.000	0.045	0.136	0.045	0.227	0.455	0.045	0.045	0.000	1.001
NW	0.000	0.000	0.136	0.227	0.000	0.136	0.136	0.045	0.000	0.682
NNW	0.000	0.000	0.045	0.091	0.091	0.227	0.136	0.000	0.000	0.591
SUBTOTAL	0.000	0.091	2.548	3.367	3.594	9.873	5.596	0.591	0.000	25.660

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
TOTAL HOURS OF STABILITY CLASS E 564
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 564
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: 2022/10/12

MEAN WIND SPEED = 9.28

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - SEP 30, 2022

WIND DIRECTION	WIND SPEED (MPH)									TOTAL
	CALM	0.60-1.40	1.41-3.40	3.41-5.40	5.41-7.40	7.41-12.40	12.41-18.40	18.41-24.40	>=24.41	
N	0.000	0.000	0.045	0.045	0.000	0.182	0.364	0.136	0.000	0.773
NNE	0.000	0.000	0.045	0.000	0.000	0.273	0.637	0.136	0.000	1.092
NE	0.000	0.000	0.000	0.091	0.182	0.409	0.409	0.227	0.000	1.319
ENE	0.000	0.000	0.000	0.045	0.045	0.409	0.182	0.000	0.000	0.682
E	0.000	0.045	0.000	0.091	0.045	0.045	0.182	0.000	0.000	0.409
ESE	0.000	0.000	0.091	0.227	0.182	0.136	0.000	0.000	0.000	0.637
SE	0.000	0.000	0.000	0.318	0.273	0.819	0.000	0.000	0.000	1.410
SSE	0.000	0.000	0.000	0.182	0.091	0.637	0.000	0.000	0.000	0.910
S	0.000	0.000	0.045	0.091	0.091	0.000	0.000	0.000	0.000	0.227
SSW	0.000	0.000	0.091	0.000	0.000	0.136	0.227	0.000	0.000	0.455
SW	0.000	0.000	0.045	0.045	0.136	0.045	0.000	0.000	0.000	0.273
WSW	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.045
W	0.000	0.045	0.000	0.136	0.091	0.045	0.045	0.000	0.000	0.364
WNW	0.000	0.000	0.045	0.045	0.136	0.136	0.000	0.000	0.000	0.364
NW	0.000	0.000	0.045	0.045	0.045	0.091	0.000	0.000	0.000	0.227
NNW	0.000	0.000	0.000	0.000	0.000	0.227	0.136	0.136	0.000	0.500
SUBTOTAL	0.000	0.091	0.455	1.365	1.365	3.594	2.184	0.637	0.000	9.691

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
 TOTAL HOURS OF STABILITY CLASS F 213
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 213
 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: 2022/10/12

MEAN WIND SPEED = 10.18

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 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 STA 52 D - Validated Edited Data

JUL 1, 2022 - SEP 30, 2022

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	0.000	0.000	0.045	0.000	0.000	0.000	0.091
NNE	0.000	0.000	0.000	0.045	0.045	0.045	0.273	0.273	0.045	0.728
NE	0.000	0.000	0.000	0.000	0.000	0.182	0.091	0.318	0.000	0.591
ENE	0.000	0.000	0.045	0.045	0.136	0.136	0.273	0.000	0.000	0.637
E	0.000	0.000	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.045
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	0.091	0.000	0.091	0.000	0.000	0.000	0.000	0.182
SSE	0.000	0.000	0.045	0.000	0.091	0.000	0.000	0.000	0.000	0.136
S	0.000	0.000	0.000	0.045	0.045	0.000	0.000	0.000	0.000	0.091
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.045	0.000	0.000	0.045	0.000	0.000	0.000	0.091
WSW	0.000	0.000	0.000	0.045	0.045	0.000	0.000	0.000	0.000	0.091
W	0.000	0.000	0.091	0.045	0.045	0.000	0.000	0.000	0.000	0.182
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	0.000	0.045	0.000	0.045	0.000	0.000	0.091
SUBTOTAL	0.000	0.000	0.409	0.227	0.546	0.500	0.682	0.591	0.045	3.003

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2198
 TOTAL HOURS OF STABILITY CLASS G 66
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 66
 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: 2022/10/12

MEAN WIND SPEED = 11.63

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

Table 8-D Elevated Releases - 4th Quarter JFD

Joint Frequency Distribution In Percent

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

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

OCT 1, 2022 - DEC 31, 2022

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 2202
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 2036
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

MEAN WIND SPEED = 0.00

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.049	0.098	0.000	0.000	0.147
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	0.049	0.000	0.000	0.000	0.000	0.000	0.049
WSW	0.000	0.000	0.000	0.049	0.000	0.000	0.000	0.000	0.000	0.049
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.049	0.000	0.049
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.049	0.000	0.000	0.049
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.147	0.000	0.000	0.147
SUBTOTAL	0.000	0.000	0.000	0.098	0.000	0.049	0.295	0.049	0.000	0.491

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2202
 TOTAL HOURS OF STABILITY CLASS B 10
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 10
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2036
 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

MEAN WIND SPEED = 13.29

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.246	0.442	0.098	0.000	0.786
NNE	0.000	0.000	0.000	0.000	0.000	0.098	0.049	0.000	0.000	0.147
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	0.049	0.000	0.000	0.000	0.049
SE	0.000	0.000	0.000	0.000	0.049	0.000	0.049	0.000	0.000	0.098
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	0.147	0.000	0.000	0.000	0.000	0.000	0.147
WSW	0.000	0.000	0.049	0.000	0.000	0.196	0.098	0.000	0.000	0.344
W	0.000	0.000	0.000	0.000	0.049	0.246	0.589	0.049	0.000	0.933
WNW	0.000	0.000	0.000	0.000	0.000	0.049	0.246	0.098	0.000	0.393
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.098	0.000	0.000	0.098
NNW	0.000	0.000	0.000	0.000	0.000	0.049	0.295	0.000	0.000	0.344
SUBTOTAL	0.000	0.000	0.049	0.147	0.098	0.933	1.866	0.246	0.000	3.340

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2202
 TOTAL HOURS OF STABILITY CLASS C 71
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 68
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2036
 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

MEAN WIND SPEED = 13.03

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.196	0.098	0.000	0.688	0.688	0.049	0.000	1.719
NNE	0.000	0.000	0.147	0.147	0.246	1.670	0.442	0.000	0.000	2.652
NE	0.000	0.000	0.049	0.295	0.196	0.688	0.049	0.000	0.000	1.277
ENE	0.000	0.000	0.000	0.246	0.442	0.295	0.098	0.000	0.000	1.081
E	0.000	0.000	0.000	0.246	0.246	0.147	0.049	0.000	0.000	0.688
ESE	0.000	0.000	0.049	0.049	0.639	1.621	1.031	0.196	0.000	3.585
SE	0.000	0.000	0.000	0.000	0.196	1.228	1.277	1.768	0.884	5.354
SSE	0.000	0.000	0.147	0.196	0.098	0.688	1.375	0.196	0.246	2.947
S	0.000	0.000	0.246	0.295	0.098	0.639	0.442	0.344	0.000	2.063
SSW	0.000	0.000	0.147	0.098	0.196	0.147	0.442	0.000	0.000	1.031
SW	0.000	0.000	0.049	0.147	0.049	0.884	0.442	0.000	0.000	1.572
WSW	0.000	0.000	0.098	0.147	0.147	1.375	0.786	0.049	0.000	2.603
W	0.000	0.000	0.147	0.344	0.196	1.473	1.866	0.344	0.147	4.519
WNW	0.000	0.000	0.098	0.196	0.344	1.768	0.589	0.639	0.246	3.880
NW	0.000	0.000	0.049	0.098	0.147	1.424	1.081	0.442	0.344	3.585
NNW	0.000	0.000	0.049	0.196	0.246	0.982	2.161	0.196	0.000	3.831
SUBTOTAL	0.000	0.000	1.473	2.800	3.487	15.717	12.819	4.224	1.866	42.387

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2202
 TOTAL HOURS OF STABILITY CLASS D 921
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 863
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2036
 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

MEAN WIND SPEED = 12.60

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

**Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report**

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.049	0.147	0.049	0.246	0.786	0.049	0.000	1.326
NNE	0.000	0.000	0.098	0.098	0.098	1.916	1.228	0.098	0.000	3.536
NE	0.000	0.000	0.049	0.147	0.000	1.081	1.228	0.000	0.000	2.505
ENE	0.000	0.000	0.049	0.147	0.147	0.393	0.196	0.049	0.000	0.982
E	0.000	0.000	0.098	0.442	0.049	0.589	0.295	0.000	0.000	1.473
ESE	0.000	0.049	0.147	0.344	0.196	0.786	1.523	0.098	0.000	3.143
SE	0.000	0.000	0.098	0.000	0.688	1.081	2.014	1.081	0.246	5.206
SSE	0.000	0.000	0.098	0.147	0.049	1.179	1.768	1.670	0.491	5.403
S	0.000	0.049	0.000	0.098	0.049	0.933	1.081	0.393	0.049	2.652
SSW	0.000	0.000	0.098	0.098	0.442	0.835	1.277	0.442	0.000	3.193
SW	0.000	0.000	0.147	0.049	0.295	1.081	0.049	0.147	0.000	1.768
WSW	0.000	0.000	0.000	0.147	0.295	0.442	0.196	0.049	0.000	1.130
W	0.000	0.000	0.049	0.344	0.098	0.491	0.196	0.000	0.000	1.179
WNW	0.000	0.000	0.000	0.049	0.147	0.295	0.147	0.000	0.000	0.639
NW	0.000	0.000	0.098	0.196	0.098	0.295	0.196	0.196	0.000	1.081
NNW	0.000	0.000	0.147	0.049	0.098	0.491	0.982	0.344	0.000	2.112
SUBTOTAL	0.000	0.098	1.228	2.505	2.800	12.132	13.163	4.617	0.786	37.328

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2202
 TOTAL HOURS OF STABILITY CLASS E 806
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 760
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2036
 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

MEAN WIND SPEED = 12.69

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 Annual Radioactive Effluent Release Report

Meteorological Data

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, 2022 - DEC 31, 2022

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	0.049	0.098	0.000	0.049	0.589	0.098	0.000	0.884
NNE	0.000	0.000	0.000	0.000	0.000	0.098	0.442	0.049	0.000	0.589
NE	0.000	0.000	0.000	0.000	0.098	0.393	0.933	0.000	0.000	1.424
ENE	0.000	0.000	0.098	0.000	0.098	0.049	0.393	0.049	0.000	0.688
E	0.000	0.000	0.147	0.098	0.049	0.295	0.147	0.000	0.000	0.737
ESE	0.000	0.000	0.000	0.098	0.049	0.295	0.491	0.098	0.000	1.031
SE	0.000	0.000	0.000	0.049	0.098	0.393	0.786	0.049	0.049	1.424
SSE	0.000	0.000	0.000	0.000	0.049	0.442	1.228	0.786	0.000	2.505
S	0.000	0.000	0.000	0.000	0.049	0.196	0.540	0.000	0.000	0.786
SSW	0.000	0.000	0.098	0.000	0.049	0.196	0.049	0.000	0.000	0.393
SW	0.000	0.049	0.049	0.147	0.098	0.049	0.000	0.000	0.000	0.393
WSW	0.000	0.000	0.049	0.098	0.098	0.049	0.000	0.000	0.000	0.295
W	0.000	0.000	0.000	0.147	0.049	0.000	0.000	0.000	0.000	0.196
WNW	0.000	0.000	0.000	0.000	0.196	0.000	0.000	0.000	0.000	0.196
NW	0.000	0.000	0.000	0.246	0.098	0.049	0.000	0.000	0.000	0.393
NNW	0.000	0.000	0.000	0.147	0.098	0.147	0.000	0.000	0.000	0.393
SUBTOTAL	0.000	0.049	0.491	1.130	1.179	2.701	5.599	1.130	0.049	12.328

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2202
 TOTAL HOURS OF STABILITY CLASS F 288
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 251
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2036
 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

MEAN WIND SPEED = 12.30

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Browns Ferry Nuclear Plant
Units 1, 2 and 3
2022 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, 2022 - DEC 31, 2022

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	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.049
NNE	0.000	0.000	0.049	0.000	0.000	0.147	0.196	0.000	0.000	0.393
NE	0.000	0.000	0.000	0.049	0.098	0.098	0.393	0.246	0.000	0.884
ENE	0.000	0.000	0.049	0.000	0.049	0.295	0.196	0.049	0.000	0.639
E	0.000	0.000	0.000	0.000	0.049	0.049	0.000	0.000	0.000	0.098
ESE	0.000	0.000	0.049	0.000	0.049	0.196	0.000	0.000	0.000	0.295
SE	0.000	0.000	0.049	0.049	0.049	0.196	0.049	0.000	0.000	0.393
SSE	0.000	0.000	0.000	0.000	0.000	0.049	0.049	0.000	0.000	0.098
S	0.000	0.000	0.000	0.000	0.000	0.295	0.098	0.000	0.000	0.393
SSW	0.000	0.000	0.000	0.049	0.098	0.000	0.000	0.000	0.000	0.147
SW	0.000	0.049	0.049	0.000	0.098	0.000	0.000	0.000	0.000	0.196
WSW	0.000	0.000	0.000	0.000	0.049	0.000	0.000	0.000	0.000	0.049
W	0.000	0.000	0.000	0.049	0.000	0.049	0.000	0.000	0.000	0.098
WNW	0.000	0.000	0.000	0.049	0.000	0.049	0.000	0.000	0.000	0.098
NW	0.000	0.049	0.000	0.098	0.000	0.098	0.000	0.000	0.000	0.246
NNW	0.000	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.049
SUBTOTAL	0.000	0.147	0.295	0.344	0.540	1.523	0.982	0.295	0.000	4.126

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2202
TOTAL HOURS OF STABILITY CLASS G 106
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 84
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2036
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

MEAN WIND SPEED = 10.17

DATE PRINTED: 2023/01/05

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS