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U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

South Texas Project  
Units 1 and 2  
Docket Nos. STN 50-498; STN 50-499; and 72-1041  
2025 Radioactive Effluent Release Report

Pursuant to the South Texas Project Technical Specification 6.9.1.4 and 10 CFR 50.36a, STP Nuclear Operating Company provides the attached 2025 Radioactive Effluent Release Report. The report covers the period from January 1, 2025, to December 31, 2025.

There are no commitments in this letter.

If there are any questions on this report, please contact me at (361) 972-7596, or Stephanie Rodgers at (361) 972-4527.

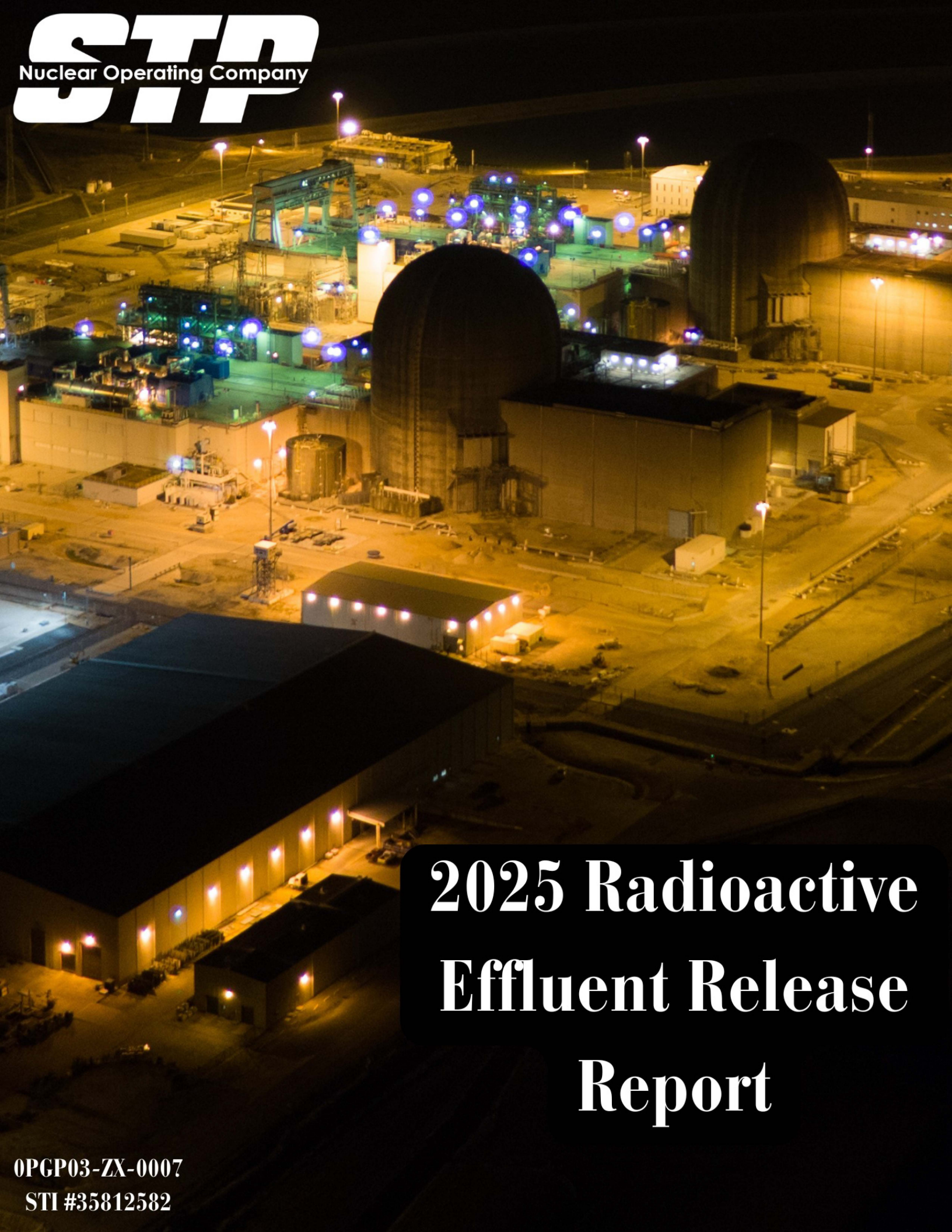
A handwritten signature in black ink, appearing to read "Scott Grones", is positioned above the printed name and title.

Scott Grones  
Manager, Chemistry & Safety

Enclosure: 2025 Radioactive Effluent Release Report

cc:

Regional Administrator, Region IV  
U.S. Nuclear Regulatory Commission  
1600 E. Lamar Boulevard  
Arlington, TX 76011-4511



# 2025 Radioactive Effluent Release Report

OPGP03-ZX-0007  
STI #35812582

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# 2025

## Radioactive Effluent Release Report

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION

Completed by  
Generation in accordance with  
Technical Specifications  
for  
United States Nuclear Regulatory Commission  
Renewed Facility Operating License Nos.  
NPF-76 & NPF-80  
April 2026

**Authored by:**

DocuSigned by:  
*Shaterika Brown*  
6CC76D41DA924BA...  
Shaterika N. Brown  
Lead Chemist  
Chemistry Department

**Technical Review:**

DocuSigned by:  
*Laura Stoicescu*  
42P65F4987E2445C...  
Laura Stoicescu, CHP  
Consulting Health Physicist  
Health Physics Department

**Approved by:**

DocuSigned by:  
*Scott Grones*  
3F84DB6CAA67468...  
\_\_\_\_\_  
Scott Grones  
Manager  
Chemistry Division

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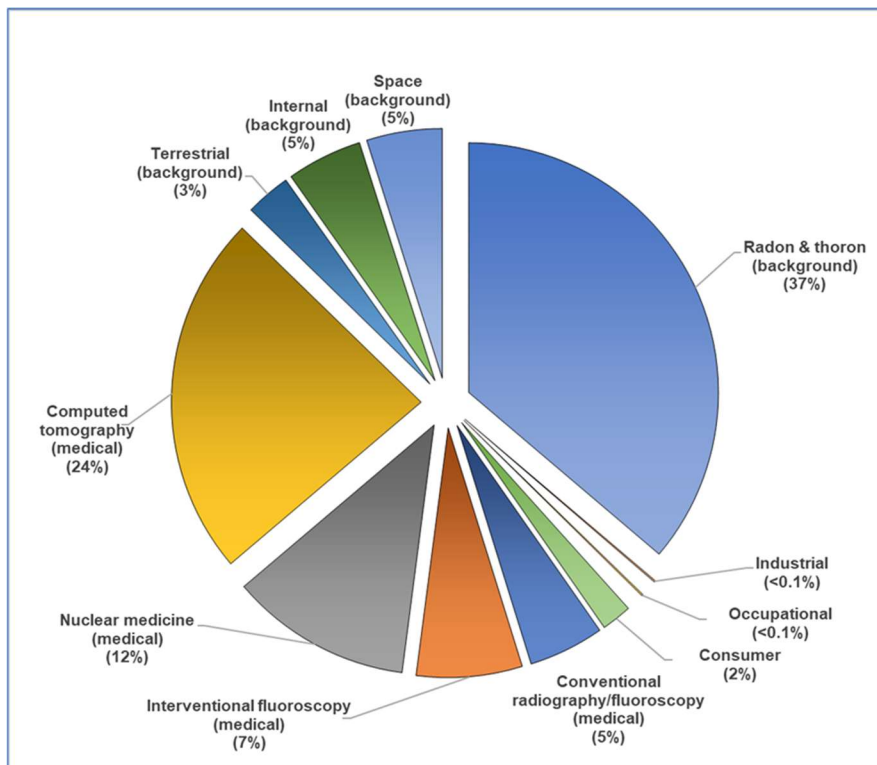
## **Summary Tab**

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### Report Summary

***During 2025, as in previous years, operation of the South Texas Project (STP) created no adverse effects or health risks. The maximum boundary dose (<1 mrem) is negligible compared with the average annual U.S. exposure of 620 mrem, ~50% from natural sources and ~48% from medical procedures; nuclear power operations contribute <1 mrem.***

Figure 1-1



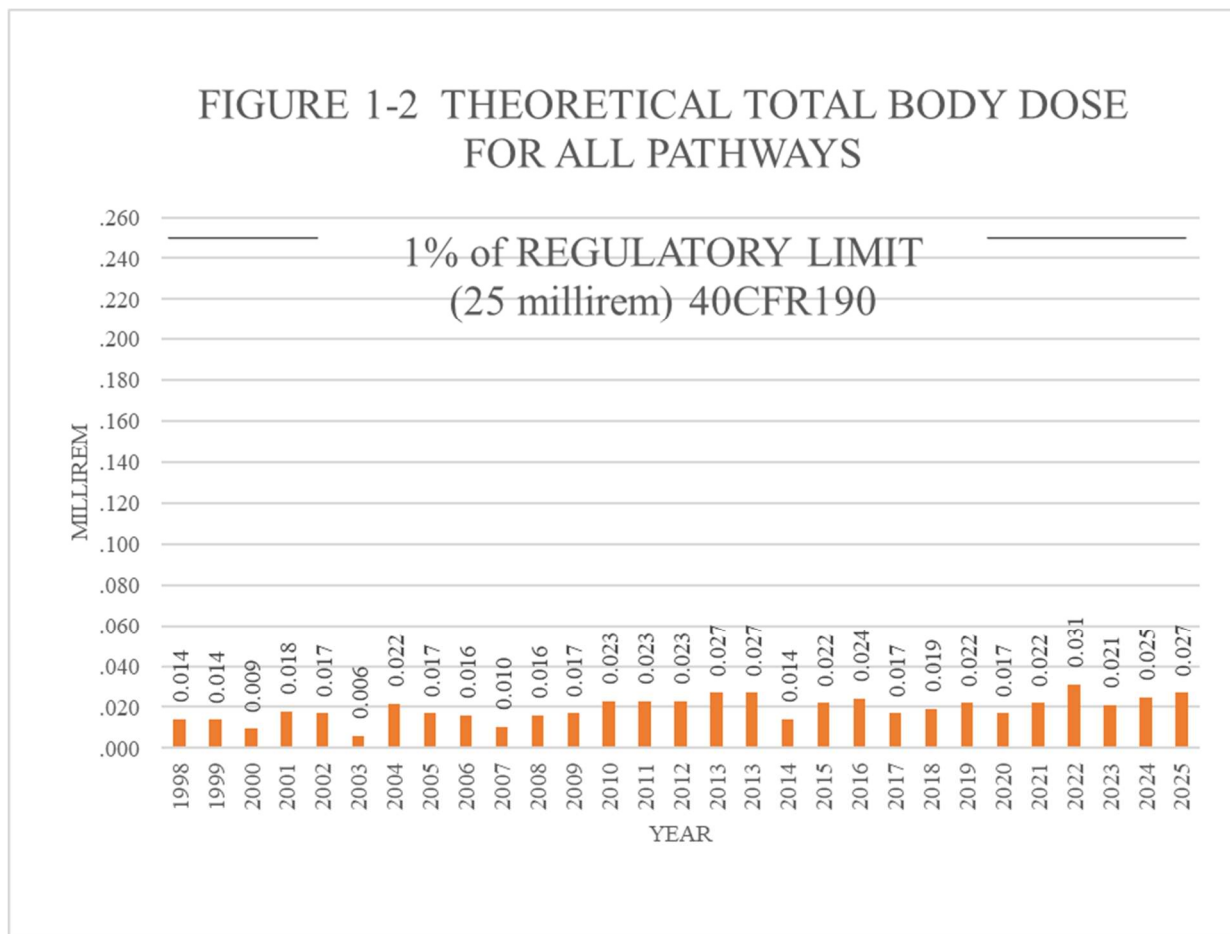
\*NCRP (2006). National Council on Radiation Protection and Measurements, *Ionizing Radiation Exposure of the Population of the United States*, (Bethesda, Maryland), NCRP Report No. 160.

During 2025, the estimated total body dose to a hypothetical Member of the Public with the highest probability for exposure from radioactive effluents and direct radiation was 0.027 millirem outside the site boundary. This total represents approximately 0.1% of the limits of 40 CFR 190. Based on our 2025 Land Use Census, real individuals reside in the West by Southwest Sector, approximately 3,500 meters (2.2 miles) from the site. For dose calculation purposes, the residents at this location are characterized as the theoretically highest exposed individual regarding food consumption, occupancy, and other uses of the areas in the plant vicinity. Our dose model assumes that this theoretically highest exposed individual may consume the maximum amount of food with all the food being grown or grazed at the residence. The hypothetical individual is assumed to (a) receive ~12 h/yr shoreline exposure at Little Robbins Slough; (b) consume 21 kg of fish from the Slough; (c) receive submersion and inhalation doses (noble gases, particulates, radioiodines, C-14, tritium); and (d) consume 64 kg leafy vegetables and 110 kg meat from on-site grazing. This estimated total body dose

Summary and Introduction

is calculated using models and exposure pathways described in our Offsite Dose Calculation Manual for a hypothetical individual offsite. Other dose estimates for Members of the Public onsite are listed in the report using exposure pathways not addressed by standard dose calculation methods.

Doses from releases to the environment at STP have historically been and continue to be well below regulatory limits, as shown in Figure 1-2. Carbon-14 accounted for a majority of the total body dose reported in gaseous effluents. Members of the Public continue to receive negligible additional radiation due to the operation of STP. This Radioactive Effluent Release Report summarizes the data describing the radioactive liquid and gaseous releases from STP during 2025. The radioactive effluents from STP are effectively monitored and controlled in accordance with regulatory requirements.



Liquid and gaseous discharges from STP are continuously monitored for radioactive content. Samples are also collected from ventilation systems and liquid discharges and analyzed for radioactivity. The sample and analysis methods are verified and augmented using an environmental laboratory. Radioactivity monitors continuously measure and sample the ventilation exhaust systems. On the liquid discharge lines, radioactivity monitors automatically divert or isolate liquid effluents if the radioactivity is higher than expected. These monitors are also equipped with remote alarm indications in the unit control rooms and health physics offices.

Prior to and during power operation, STP is required to evaluate radioactive material in the environment. We are committed to sampling and analyzing environmental samples for

**Summary and Introduction**

radioactivity to support our Radiological Environmental Monitoring Program (REMP). The results of these environmental samples are listed in our 2025 Annual Environmental Operating Report. These environmental measurements affirm the accuracy of our sampling and analysis program, a subset of our Radioactive Effluent Control Program. These measurements are categorized into four pathways. The sampled pathways include airborne, waterborne, ingestion, and direct radiation. Based on these environmental measurements and the radioactivity released to the environment (included in this report), STP continues to operate with no negative effect on the population or the environment.

The radiation monitors and the sampling and analysis program provide an accurate determination of the type and quantity of radioactive materials released in plant effluents. Liquid effluents are directed to the Main Cooling Reservoir (MCR) that is located entirely within the site boundary. STP continues to aggressively pursue the reduction of radioactive material in liquid effluents consistent with prudent industry practices.

Each year, the effluent monitoring results are summarized in this report and a hypothetical radiation dose to the population in the surrounding area is calculated based on gaseous radioactive effluents, meteorological conditions, and liquid radioactive effluents. The hypothetical dose assumes credible paths for radioactive material to reach a Member of the Public, such as consumption of leafy vegetables from a garden, fish from the river, inhalation, and direct external exposure. The highest potential hypothetical dose to an individual at the site boundary was calculated to be about one millirem or approximately an additional day of radiation exposure from natural radiation sources. The information presented in this report demonstrates that plant operation is consistently controlled to make certain that radioactive effluents remain below regulatory limits and to ensure protection of the public and the environment.

## INTRODUCTION

This Radioactive Effluent Release Report is submitted for the period of January 1, 2025, through December 31, 2025, in accordance with Appendix A of Renewed Facility Operating License Nos. NPF-76 and NPF-80, Technical Specifications, and the Offsite Dose Calculation Manual.

A single submittal is made for both units combining those sections that are common. Separate tables of releases and release totals are included where separate processing systems exist.

This report includes an annual summary of hourly meteorological measurements taken during each quarter. This data appears as tables of wind direction and wind speed by atmospheric stability class. All assessments of radiation doses are performed in accordance with the Offsite Dose Calculation Manual.

Minimal quantities of radioactivity were released during 2025. Liquid effluents are discharged to the onsite Main Cooling Reservoir and may be subsequently released offsite. The radioactivity released in liquids beyond the site boundary was estimated using the Offsite Dose Calculation Manual. Solid radioactive waste is shipped offsite for disposal. Table 1-1 lists a summary of the radioactive effluents and solid waste attributable to the station.

Table 1-1

TYPE OF RADIOACTIVE MATERIAL	EFFLUENT TYPE	DESTINATION	VOLUME CUBIC METERS	CURIES
NOBLE GAS	GAS	OFFSITE	5.1E+09 <sup>(2)</sup>	8.2E+02
PARTICULATE AND IODINES	GAS	OFFSITE	5.1E+09 <sup>(2)</sup>	4.6E-05
TRITIUM & CARBON-14	GAS	OFFSITE	5.1E+09 <sup>(2)</sup>	9.9E+01
TRITIUM	LIQUID	OFFSITE	4.8E+06 <sup>(3)</sup>	2.8E+02 <sup>(5)</sup>
FISSION AND ACTIVATION PRODUCTS	LIQUID	OFFSITE	4.8E+06 <sup>(3)</sup>	2.4E-03 <sup>(5)</sup>
TRITIUM	LIQUID	ON-SITE	6.1E+04 <sup>(4)</sup>	2.2E+03
FISSION AND ACTIVATION PRODUCTS <sup>(1)</sup>	LIQUID	ON-SITE	6.1E+04 <sup>(4)</sup>	6.9E-02
SPENT RESINS AND FILTERS	SOLID	FOR DISPOSAL	2.8E+01	1.6E+02
DRY COMPRESSIBLE WASTE	SOLID	FOR DISPOSAL	4.4E+02	1.7E-01
OTHER (Large Reactor Components and Associated Commodities)	SOLID	FOR DISPOSAL	6.3E+00	5.0E+04
Low Level Exempt Quantities of sewage sludge and resin	SOLID	FOR DISPOSAL	1.3E+02	2.7E-05

<sup>(1)</sup> Excludes dissolved and entrained gases.

<sup>(2)</sup> Unit Vent Release Volume for Units 1 and 2.

<sup>(3)</sup> Estimated MCR seepage to identified receptors.

<sup>(4)</sup> Total volume of liquid radioactive effluents discharged to the MCR.

<sup>(5)</sup> Reference ODCM, Table B4-1 for Matagorda Bay.

Tritium was the largest contributor to the offsite doses from radioactive liquid effluents. The offsite doses are well below any regulatory limit and significantly less than the average annual radiation exposure to people in the United States from all sources (620 millirem), from NCRP (2006). National Council on Radiation Protection and Measurements, *Ionizing Radiation Exposure of the Population of the United States*, (Bethesda, Maryland), NCRP Report No. 160.

## **Effluent Program Tab**

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## **Supplemental Information for Effluent and Waste Disposal**

## Supplemental Information for Effluent and Waste Disposal

The South Texas Project is located on 12,220 acres in Matagorda County, Texas, approximately 15 miles southwest of Bay City along the west bank of the Colorado River. The South Texas Project is currently owned by Constellation Energy, City of Austin, and City Public Service Board of San Antonio as tenants in common. Houston Lighting & Power Company was the original project manager of the South Texas Project and was responsible for the engineering, design, licensing, construction, startup, and initial commercial operation of the two-unit facility. In 1997, the STP Nuclear Operating Company assumed operational control of the South Texas Project and responsibility for implementation of associated environmental programs.

The South Texas Project has two Westinghouse pressurized water reactors. The rated core thermal power of each unit is 3,853 megawatts-thermal (MWt). Each unit was originally designed for a net electrical power output of 1,250 megawatts-electric (MWe). Unit 1 received a low-power testing license on August 21, 1987, achieved initial criticality on March 8, 1988, and was declared commercially operational on August 25, 1988. Unit 2 received a low-power testing license on December 16, 1988, achieved initial criticality on March 12, 1989, and was declared commercially operational on June 19, 1989. On September 28, 2017, the United States Nuclear Regulatory Commission approved the South Texas Project's request to extend the operating licenses an additional twenty years through 2047 and 2048.

The combined units currently produce enough electricity to serve more than two million homes and businesses throughout Texas. With approximately 1,000 baseline employees, the STP Nuclear Operating Company is the largest employer and source of revenue for Matagorda County. Nuclear energy continues to provide long-term cost stability and promote energy independence. It is our nation's largest source of carbon-free energy. As we work collectively to secure our state's long-term energy future, nuclear energy will continue to play an important role as a safe and reliable supply of clean base-load electricity.

## Regulatory Limits

### Fission and Activation Gases

The **air dose** due to noble gases released in gaseous effluents, from each unit to areas at and beyond the Site Boundary shall be limited to the following:

During any calendar quarter: Less than or equal to 5 millirads for gamma radiation and less than or equal to 10 millirads for beta radiation, and

During any calendar year: Less than or equal to 10 millirads for gamma radiation and less than or equal to 20 millirads for beta radiation.

### Iodines and Particulates, Half-lives > 8 days

The **dose** to a Member of the Public from iodine-131, iodine-133, tritium, and all radionuclides in particulate form with half-lives greater than eight days in gaseous effluents released, from each unit to areas at and beyond the Site Boundary shall be limited to the following:

During any calendar quarter: Less than or equal to 7.5 millirems to any organ; and

During any calendar year: Less than or equal to 15 millirems to any organ.

### Liquid Effluents

The **dose 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 to:

During any calendar quarter: Less than or equal to 1.5 millirems to the whole body and to less than or equal to 5 millirems to any organ; and

During any calendar year: Less than or equal to 3 millirems to the whole body and to less than or equal to 10 millirems to any organ.

### Effluent Concentrations Limits

#### Gaseous Effluents

The **dose rate** due to radioactive materials released in gaseous effluents from the site to areas at and beyond the Site Boundary shall be limited to the following:

For noble gases: Less than or equal to 500 millirems/year to the whole body and less than or equal to 3000 millirems/year to the skin, and

For iodine-131, iodine-133, tritium, and all radionuclides in particulate form with half-lives greater than eight days: Less than or equal to 1500 millirems/year to any organ.

#### Liquid Effluents

The concentration of radioactive material released in liquid effluents to Unrestricted Areas shall be limited to 10 times the concentrations specified in 10CFR, Part 20, Appendix B, Table II, Column 2, for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall be limited to 2.0E-04  $\mu\text{Ci/mL}$  total activity.

### Average Energy (Million Electron Volts/Disintegration)

The STP 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 rates 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, Evaluating, 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.

### Measurement and Approximations of Total Activity

The following discussions detail the methods used to measure and approximate total activity for the following:

Gaseous Effluents: Fission and Activation Gases, Tritium, Iodines, and Particulates

Liquid Effluents: Fission and Activation Products, Tritium, Dissolved and Entrained Gases

Tables A3-1 and A4-1 of the Offsite Dose Calculation Manual give sampling frequencies and lower limit of detection requirements for the analysis of liquid and gaseous effluent streams.

### Gaseous Effluents

#### Analytical Methods for Gaseous Releases from the Reactor Containment Building

Monthly pre-release grab samples are collected from the plant Reactor Containment Building atmosphere. These samples are analyzed on a gamma spectroscopy system utilizing high-purity Germanium detectors for noble gases, iodines, and particulates. Tritium activity is measured using Liquid Scintillation Counting techniques.

The radionuclide concentrations obtained are used in conjunction with the gross noble gas release rate monitoring data collected by the radiation monitoring system to estimate the release rate of each radionuclide in the effluent streams. The noble gas release rate data collected by the unit vent radiation monitor is quantified and reported as continuous mode of release. The data from the unit vent radiation monitor in conjunction with the grab sample results of the Reactor Containment Building atmosphere are used to quantify the radioactive material released.

#### Analytical Methods for Continuous Gaseous Releases

Periodic noble gas and tritium grab samples are taken from the continuous release points, such as the Unit Vent. Continuous sampling for particulates and iodine is also performed on effluent streams. These samples are analyzed for tritium and gamma radionuclides, as described above for gaseous releases. Strontium-89, strontium-90, and gross alpha analyses are performed by the on-site Radiological Services Laboratory.

Noble gas quantification is performed by the plant radiation monitoring system using noble gas grab sample results and the gross noble gas release rate monitor.

The methodology used for estimating the quantity of carbon-14 released to the environment is described in the following section Dose to Member of the Public from Radioactive Effluents Including Carbon-14.

Secondary system liquid grab samples, combined with measured secondary coolant loss, are used for quantifying secondary steam releases. The radioactive material in the steam is based on grab sample results of the secondary liquid. The secondary liquid is analyzed for gamma emitters and tritium.

### Liquid Effluents

#### Analytical Methods for Liquid Releases

Liquid batch releases include waste liquid treated by the liquid waste processing system and secondary system chemical regeneration waste. Liquid effluents resulting from primary to secondary leakage or other plant operations are continuously monitored and are tracked as continuous releases. For batch releases, representative pre-release grab samples are taken and analyzed in accordance with Table A3-1 of the Offsite Dose Calculation Manual. For

continuous releases, representative samples are collected weekly and analyzed. Radionuclide analyses are performed using a Gamma Spectroscopy System. Aliquots of each pre-release batch sample are composited in accordance with the requirements in Table A3-1 of the Offsite Dose Calculation Manual. Tritium concentrations are determined using Liquid Scintillation Counting techniques. Dissolved and entrained gas concentrations are determined by counting grab samples on the Gamma Spectroscopy System. Strontium-89, strontium-90, gross alpha, iron-55, and nickel-63 determinations are performed by the on-site Radiological Environmental Monitoring Laboratory. The radionuclide concentrations obtained are used with the total volume for each batch release.

### **Batch Releases**

Liquid and gaseous summaries are compiled from permits generated using a computer-based effluent management system and plant procedures. Liquid batch releases are accounted for by individual permits. Gaseous batch releases are accounted for by monthly permits and consist of reactor containment purges for the purpose of reducing radioactive material concentrations. Batch times represent the actual period of releases and the periods that the purge valves were open.

Liquid (Unit 1)

<b>Liquid (Unit 1)</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>
a. Number of batch releases	7	14	10	27
b. Total time period for batch releases (minutes)	410	826	585	1593
c. Maximum time period for a batch release (minutes)	61	64	62	65
d. Average time period for batch releases (minutes)	59	59	59	59
e. Minimum time period for a batch release (minutes)	56	47	55	53

Gaseous (Unit 1)

<b>Gaseous (Unit 1)</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>
a. Number of batch releases	0	0	0	0
b. Total time period for batch releases (minutes)	0	0	0	0
c. Maximum time period for a batch release (minutes)	0	0	0	0
d. Average time period for batch releases (minutes)	0	0	0	0
e. Minimum time period for a batch release (minutes)	0	0	0	0

Liquid (Unit 2)

<b>Liquid (Unit 2)</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>
a. Number of batch releases	6	18	39	24
b. Total time period for batch releases (minutes)	342	1072	2318	1404
c. Maximum time period for a batch release (minutes)	61	66	62	63
d. Average time period for batch releases (minutes)	57	60	59	59
e. Minimum time period for a batch release (minutes)	52	44	47	25

Gaseous (Unit 2)

<b>Gaseous (Unit 2)</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>
a. Number of batch releases	0	1	0	2
b. Total time period for batch releases (minutes)	0	2100	0	28740
c. Maximum time period for a batch release (minutes)	0	2100	0	18600
d. Average time period for batch releases (minutes)	0	2100	0	14370
e. Minimum time period for a batch release (minutes)	0	2100	0	10140

**Abnormal (Unplanned) Releases**

No abnormal (unplanned) releases occurred during 2025.

**Estimate of Total Error**Estimate of Error for Liquid Effluents

The **maximum error** associated with volume and flow measurements, based upon plant calibration practice, is estimated to be  $\pm 1.27\%$ . The error associated with the flow measurement is small in relation to the counting uncertainty of the radionuclide concentration analysis.

The **average uncertainty** associated with counting measurements is 10% or less at the 95% confidence interval.

The **error** associated with dilution volume is estimated to be  $\pm 10\%$ .

Estimate of Error for Gaseous Effluents

The **maximum error** associated with monitor readings, sample flow, vent flow, sample collection, monitor calibration, and laboratory procedures are collectively estimated to be:

Fission and Activation Gases Low Activity (less than 10 microcurie per second)	$\pm 100\%$
Fission and Activation Gases High Activity (greater than or equal to 10 microcurie per second)	$\pm 20\%$
Iodines	$\pm 25\%$
Particulates	$\pm 25\%$
Tritium	$\pm 50\%$

The **average uncertainty** associated with counting measurements is 10% or less at the 95% confidence interval for fission and activation gases, iodines, particulates, and tritium.

### Estimate of Error for Solid Radioactive Waste

The potential error associated with solid radioactive waste shipments is estimated to be  $\pm 20\%$ . This is based on waste stream sampling uncertainty and an industry standard of  $\pm 20\%$  for calibration of instrumentation.

### Solid Waste Shipments

A total of 15 shipments of radioactive filter media, spent resins, dry active waste, irradiated components, and other wastes were made during the reporting period. Additionally, there were 7 shipments of exempt quantities made in 2025. A summary of the data is provided in Section 6, Solid Waste and Irradiated Fuel Shipments. This data is based upon waste generated from Units 1 and 2.

### Radiological Impact on Man

The data for the period January 1, 2025, through December 31, 2025, is provided in the Dose Accumulation (Section 7) and the Summary of Direct Radiation Table 8-1 (Section 8). The following dilution factors and dilution water flows were used for assessing the radiation doses due to radioactive liquid effluents released to unrestricted areas.

Receptor Location	ODCM <sup>(1)</sup> Dilution Factor	Dilution Water Flow Cubic Feet/Second	Dilution Water Flow Liters/Year	Dilution Water Flow Liters/Quarter
Colorado River	1.00E+00	6.00E+02	5.36E+11	1.34E+11
Matagorda Bay	1.63E+02	9.78E+04	8.73E+13	2.18E+13
Little Robbins Slough Area	3.05E-02	1.83E+01	1.63E+10	4.08E+09

<sup>(1)</sup> Offsite Dose Calculation Manual factor (Table B4-3).

The dilution water flow used to estimate the individual dose due to ingestion of saltwater fish and saltwater invertebrates (shrimp) harvested from the Colorado River was 5.36E+11 liters per year for the years of 1989 through 2025. The dilution water flow used to estimate the individual dose due to ingestion of saltwater fish and saltwater invertebrates harvested from the Matagorda Bay was 8.73E+13 liters per year for the years of 1993 through 2025 as the result of a diversion channel that routes the Colorado River into Matagorda Bay. The dilution water flow used to estimate the individual dose due to ingestion of freshwater fish from the Little Robbins Slough Area was 1.63E+10 liters per year for the years 1989 through 2025. These dilution water flows were also used for estimating individual dose due to shoreline deposits. The radioactive material reported in the Liquid Effluent tables is the amount released to the Main Cooling Reservoir and does not contribute to dose until the radioactive material is released to unrestricted areas. To estimate the doses due to liquid effluents, the radioactive material reported must be adjusted by the values listed in the Offsite Dose Calculation Manual, Table B4-1, "Radionuclide Fractions N(i), Reaching Off-site Bodies of Water".

## **Meteorological Data**

The **2025 meteorological data** is presented in the form of joint frequency tables. Each quarter contains eight tables, one for each stability class, and one for all classes combined.

A second set of joint frequency tables is provided for time periods when the reactor containment building fans were operating to remove radioactive material from the containment for personnel protection reasons. These containment purges are classified as batch releases.

## **Lower Limit of Detection**

The **Lower Limit of Detection** (an a priori limit) is defined as the smallest concentration of radioactive material in a sample that will yield a net count above system background that will be detected with 95% probability, and only a 5% probability of falsely concluding that a blank observation represents a "real" signal. A zero (0) value in the attached tables indicates no activity detected.

## **Dose to Member of the Public**

### Dose to Member of the Public from Direct Radiation Outside the Site Boundary

The Offsite Dose Calculation Manual includes the direct radiation from plant structures as a component to the dose to a hypothetical, highest exposed Member of the Public located off site due to plant operations. The Offsite Dose Calculation Manual allows measurements made near the plant structures to be used in these calculations following suitable adjustments for distance and exposure time. In 2025, Environmental Dosimeters using BeOSL technology were placed along the protected area fence or the concrete intrusion barriers surrounding Units 1 and 2 of the South Texas Project, around the Old Steam Generator Storage Facility, Low Level Rad Waste Storage Area, and around the Independent Spent Fuel Storage Installation (ISFSI) pad as pictured in Figure 8-1 of Section 8. The results of these measurements are summarized in Table 8-1 of Section 8. The table shows that in 2025, Environmental Dosimeter measurements were typical of previous year's readings around the Protected Area and slightly higher near the Independent Spent Fuel Storage Installation (ISFSI) Area.

In accordance with the Offsite Dose Calculation Manual, the dose due to direct radiation can be estimated taking the highest Environmental Dosimeter measurement, minus the background, and correcting for the distance to the site boundary using the following calculation:

$$\text{Dose}_{\text{direct}} = \text{Environmental Dosimeter} * (\text{PA})^2 / (\text{RD})^2$$

Where

Environmental Dosimeter = background corrected annual dose, mR/yr

PA = distance from source of radiation to the dosimeter location, meters

RD = distance from the source of radiation to the closest site boundary, meters

The Environmental Dosimeter average dose rate is the average of the four quarterly values for the highest location less the quarterly average background at the site boundary. The highest average Environmental Dosimeter dose rate was 54 mR/quarter for station #11 which is in the vicinity of Independent Spent Fuel Storage Installation (ISFSI) Area, as shown in Figure 8-1. The value for Environmental Dosimeter may be calculated as shown below where the historical site boundary background of 15.4 mR/quarter gamma only is used to find the net rate attributable to waste stored onsite. Each Environmental Dosimeter location has background values calculated using ANSI N13.37 methodology, which was used in the following calculations:

$$\text{Environmental Dosimeter} = 54 \text{ mR/quarter for gamma and neutron at ISFSI station \# 11}$$

or

$$\text{Environmental Dosimeter} = (54 \text{ mR/quarter}) * (4 \text{ quarters/yr}) = 216 \text{ mrem/yr assuming a mR is about equal to a mrem}$$

The approximate distances PA and RD are estimated using field measurements and global positioning satellite technology. The total dose to a hypothetical member of the public at the site boundary could be calculated as below:

$$\text{Dose}_{\text{direct}} = (216 \text{ mrem/yr}) * (40 \text{ meters})^2 / (1800 \text{ meters})^2 = 0.11 \text{ mrem/yr}$$

This assumes someone is positioned permanently at the site boundary fence east of the Units. A real person might traverse this area twice daily (to and from work) for a total exposure time of

$$\text{Exposure time (hypothetical person)} = (250 \text{ work days per year}) * (4 \text{ minutes per trip}) * (2 \text{ trips per day})$$

$$\text{Exposure time (hypothetical person)} = 2000 \text{ minutes} = 0.00381 \text{ yr}$$

$$\text{Dosedirect} = 0.11 \text{ mrem/yr} * 0.00381 \text{ yr} = 0.0004 \text{ mrem in 2025}$$

In summary, a realistic dose of 0.0004 mrem was possible to a member of the public offsite in 2025 although a hypothetical maximum annual dose rate of 0.11 mrem/yr was calculated at the nearest offsite location.

#### Dose to Member of the Public from Direct Radiation Inside the Site Boundary

A hypothetical Member of the Public inside the site boundary but outside the protected area fence could receive less than one millirem from direct radiation. The most exposed employee on site who is also a member of the public would be a groundskeeper whose job required them to work in the vicinity east of the Independent Spent Fuel Storage Installation Area (ISFSI) Area. If such an individual worked 10 hours once a quarter at the fence where the dose rate was highest, their direct radiation dose could be calculated as follows:

$$\text{Dose (mrem)} = 40 * [48+59+56+54] / 365 / 24 = 0.99 \text{ mrem in a year}$$

where:

$$40 = 10 \text{ hours per quarter times four quarters}$$

$$48 = \text{dose rate in first quarter, mrem/quarter}$$

$$59 = \text{dose rate in second quarter, mrem/quarter}$$

- 56 = dose rate in third quarter, mrem/quarter
- 54 = dose rate in fourth quarter, mrem/quarter
- 365 = days in a year
- 24 = hours per day

Hence, in 2025 a hypothetical member of the public with the highest exposure to direct radiation received about 1 mrem from direct radiation. This value is considerably less than the EPA 40 CFR 190 limit of 25 mrem/year.

#### Dose to Member of the Public from Direct Radiation and Radioactive Effluents Inside the Site Boundary

A hypothetical Member of the Public outside the protected area fence but inside the site boundary could receive approximately 0.06 millirem from radioactive effluents due to inhalation and immersion. This dose plus the direct radiation dose would yield 1.05 millirem, a small fraction of the 10 CFR 20.1301 annual limit.

#### Dose to Member of the Public from Radioactive Effluents Outside the Site Boundary using ODCM Exposure Pathways

During 2025, the estimated total body dose to a hypothetical Member of the Public with the highest probability for exposure from radioactive effluents and direct radiation was 0.027 millirem. This total represents approximately 0.1% of the limits of 40 CFR 190. Based on our 2025 Land Use Census, real individuals reside in the West by Southwest Sector, approximately 3,500 meters (2.2 miles) from the site. For dose calculation purposes, the residents at this location are characterized as the theoretically highest exposed individual with regard to food consumption, occupancy, and other uses of the areas in the plant vicinity. Our dose model assumes that this theoretically highest exposed individual may consume the maximum amount of food with all the food being grown or grazed at the residence. This individual receives shoreline exposure from Little Robbins Slough for 12 hours per year and consumes 21 kilograms (46 pounds) of fish taken from Little Robbins Slough. This individual receives a submersion dose from noble gases and dose from inhaled radioactive particulates, radioiodines, carbon-14, and tritium. This hypothetical adult is assumed to consume 64 kilograms (140 pounds) of leafy vegetables grown at the residence and consumes 110 kilograms (240 pounds) of meat from livestock grazed at the residence. This estimated total body dose is calculated using models and exposure pathways described in our ODCM for a hypothetical individual offsite. Other dose estimates for Members of the Public onsite are listed in the report using exposure pathways not addressed by standard dose calculation methods.

#### Dose to Member of the Public from Radioactive Effluents Outside the Site Boundary using Liquid to Gaseous Receptor Exposure Pathways

Consistent with normal operation of the units, approximately 2200 Curies of tritium were released to the Main Cooling Reservoir during 2025. Since some portion of the tritium released in liquid effluents evaporates from the Main Cooling Reservoir, this section is included to provide an estimate of offsite dose from that gaseous source per section 4.10 of the ODCM. The Main Cooling Reservoir, with a surface area of about 28,300,000 square meters (7000 acres), is an area source and contributes tritium to the atmosphere. The atmospheric dispersion

factor for the WSW sector at 4000 meters was estimated to be 4.01E-07 seconds per cubic meter using the EPA code Iclt3 and 2004 meteorological data.

The product of X/Q, tritium released to the MCR, and the dose factor for a population age group (87.9, 91.7, 114.2, or 20.5 millirem-cubic meter per second-curie for age groups adult, teen, child and infant, respectively) generated an estimated whole body dose of 0.10 millirem for the highest exposed population group, a small fraction of the limits of 40 CFR 190.

#### Dose to Member of the Public from Radioactive Effluents including Carbon-14

Carbon-14 was reported as a radioactive effluent in 2010 for the first time. Carbon-14 is a naturally occurring isotope of carbon. Carbon-14 is formed naturally in the upper atmosphere and is also formed in an operating nuclear reactor, primarily through activation of oxygen molecules. The quantity of carbon-14 produced by operating nuclear reactors is significantly less than that produced naturally or from weapons testing.

The NRC published *Regulatory Guide 1.21 Revision 1, Measuring, Evaluating, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants* in 1974. This regulatory guidance recommends the content and format of this report. This report follows the recommendations of Regulatory Guide 1.21, Revision 1. In 2009, the NRC published revision 2 of Regulatory Guide 1.21 based on a risk-informed perspective for reporting principal radionuclides. This document recommended methods for estimating and reporting the quantity of carbon-14 released in gaseous effluents. The quantity of carbon-14 released from each unit was estimated using *NUREG-0017, Calculation of Releases of Radioactive Materials in Gaseous and Liquid Effluents from Pressurized Water Reactors PWR-GALE Code*, April 1985. A value of 7.3 curies of carbon-14 was used for each unit. The Semiannual Summation of All Releases by Quarter for All Airborne Effluents found in section 4-2 of this report lists carbon-14 in a similar manner as tritium.

ODCM dose factors were used for estimating doses to Members of the Public and the doses due to carbon-14 are included in the Dose Accumulations, Section 7-1 of this report. *EPRI Report TR-105715, Characterization of Carbon-14 Generated by the Nuclear Power Industry*, November 1995 concluded that the molecular form of carbon-14 produced in gaseous effluent is 75 to 90 percent hydrocarbons (primarily methane) with the remainder in inorganic form (carbon dioxide or carbon monoxide in gas or carbonates in liquid). This report listed the measured molecular forms of carbon-14 in gaseous effluents from two U.S. and six German commercial pressurized water reactors. The average fraction of inorganic carbon-14 was determined to be 20 percent, and the average organic fraction was determined to be 80 percent. The pathway doses were calculated using the average ratio of 1:5 for ingestion pathways, as carbon in the form of hydrocarbons is not absorbed by plants. The radiation doses from STP to the public (including carbon-14) are much lower than regulatory limits and are a very small contributor to the total radiation dose the American public receives each year from natural and manmade sources.

**Technical Specifications and Offsite Dose Calculation  
Manual Controls Reporting Requirements**

**Technical Specifications and Offsite Dose Calculation Manual  
Controls Reporting Requirements**

**Technical Specifications and Offsite Dose Calculation  
Manual Controls Reporting Requirements****Offsite Dose Calculation Manual Changes (reference, Technical Specifications, 6.13)**

The ODCM was not revised since issuance of the 2022 Radioactive Effluent Release Report.

**Annual Land Use Census (reference, Offsite Dose Calculation Manual Controls, 3.12.2.a)**

The Land Use Census verified current nearest residents within five miles. One new resident was noted within five miles of the site in the WSW sector. No new receptors were identified within five miles of the site.

**Radioactive Waste Treatment System Design Modification Description (reference, Offsite Dose Calculation Manual Controls, 6.15)**

A review of the work history for 2025 for the solid, liquid, and gaseous waste processing systems revealed that no major modifications were installed on these systems in 2025.

**Inoperable Effluent Monitoring Instrumentation Explanation (reference, Offsite Dose Calculation Manual Controls, 6.9.1.4)**

For 2025, inoperable liquid and gaseous effluent monitoring instruments were corrected within the time specified in sections 3.3.3.10 and 3.3.3.11 of offsite dose calculation manual controls.

**Gas Storage Tank Curie Limit Violation Description (reference, Offsite Dose Calculation Manual Controls, 6.9.1.4)**

The Reactor Coolant System (RCS) Vacuum Degassing System was not used during this reporting period. Therefore, the quantity of radioactive material in the RCS Vacuum Degassing System Storage Tanks did not exceed the limits set forth in Section 3.11.2.6 of Technical Specifications.

**Unprotected Outdoor Tank Curie Limit Violation Description (reference, Offsite Dose Calculation Manual Controls, 6.9.1.4)**

There are no Unprotected Outdoor Tanks at South Texas Project. Therefore, the quantity of radioactive material in any unprotected outdoor tank did not exceed the limit set forth in Section 3.11.1.4 of Technical Specifications.

**Abnormal (Unplanned) Release Description (reference, Offsite Dose Calculation Manual, 6.9.1.4)**

No abnormal (unplanned) releases occurred during this reporting period.

**Radioactive Waste Process Control Program Changes (reference, Technical Specifications, 6.13)**

There were no changes made to the Radioactive Waste Process Control Program during this reporting period.

**Independent Spent Fuel Storage Installation (ISFSI)**

There are no radiological effluents released from the ISFSI. Direct dose from the ISFSI is documented in table 8-1 of this report.

**2023 Radioactive Effluent Release Report Change**

In the 2023 Radioactive Effluent Release Report, Section 4 (pages 4-2, 4-4, 4-6, and 4-8) presented information on airborne effluents, including curies released, average release rates, and percentages of applicable limits. Carbon-14 was inadvertently included in the particulate and iodine totals. This issue was documented in Condition Report 25-3759 and submitted to the U.S. NRC as a special report (reference ML25132A160). The tables below provide the corrected airborne effluent data for 2023. No regulatory limits were exceeded.

**Technical Specifications and Offsite Dose Calculation  
Manual Controls Reporting Requirements**

**STP NUCLEAR OPERATING COMPANY  
SEMIANNUAL SUMMATION OF ALL RELEASES BY QUARTER  
ALL AIRBORNE EFFLUENTS**

**Unit: 1**

Starting: 1-Jan-2023    Ending: 30-Jun-2023

TYPE OF EFFLUENT	UNITS	QUARTER 1	QUARTER 2	EST. TOT ERROR %
<b>A. FISSION &amp; ACTIVATION GASES</b>				
1. TOTAL RELEASE	CURIES	3.81E-01	3.62E-01	100
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	4.90E-02	4.61E-02	
3. PERCENT OF LIMIT (9.60E+04 uCi/sec)	%	5.11E-05	4.80E-05	
<b>B. RADIOIODINES</b>				
1. IODINE-131	CURIES	6.20E-08	1.13E-08	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	7.97E-09	1.44E-09	
3. PERCENT OF LIMIT (4.00E-02 uCi/sec)	%	1.99E-05	3.60E-06	
<b>C. PARTICULATES</b>				
1. PARTICULATES(HAL F-LIVES>8 DAYS)	CURIES	3.58E-05	1.02E-05	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	4.60E-06	1.29E-06	
3. PERCENT OF LIMIT (3.00E-01 uCi/sec)	%	1.53E-03	4.31E-04	
4. GROSS ALPHA RADIOACTIVITY	CURIES	0.00E+00	0.00E+00	
<b>D. TRITIUM</b>				
1. TOTAL RELEASE	CURIES	1.10E+01	9.08E+00	50
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	1.42E+00	1.15E+00	
3. PERCENT OF LIMIT (1.80E+05 uCi/sec)	%	7.87E-04	6.42E-04	
<b>E. CARBON-14</b>				
1. TOTAL RELEASE	CURIES	1.80E+00	1.82E+00	None
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	2.31E-01	2.31E-01	
3. PERCENT OF LIMIT (7.8E+03 uCi/sec)	%	2.96E-03	2.96E-03	

**Technical Specifications and Offsite Dose Calculation  
Manual Controls Reporting Requirements**

**STP NUCLEAR OPERATING COMPANY  
SEMIANNUAL SUMMATION OF ALL RELEASES BY QUARTER  
ALL AIRBORNE EFFLUENTS**

**Unit: 1**

Starting: 1-Jul-2023    Ending: 31-Dec-2023

TYPE OF EFFLUENT	UNITS	QUARTER 3	QUARTER 4	EST. TOT ERROR %
<b>A. FISSION &amp; ACTIVATION GASES</b>				
1. TOTAL RELEASE	CURIES	4.21E-01	4.46E-01	100
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	5.29E-02	5.61E-02	
3. PERCENT OF LIMIT (9.60E+04 uCi/sec)	%	5.51E-05	5.85E-05	
<b>B. RADIOIODINES</b>				
1. IODINE-131	CURIES	1.63E-09	0.00E+00	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	2.05E-10	0.00E+00	
3. PERCENT OF LIMIT (4.00E-02 uCi/sec)	%	5.12E-07	0.00E+00	
<b>C. PARTICULATES</b>				
1. PARTICULATES(HAL F-LIVES>8 DAYS)	CURIES	0.00E+00	0.00E+00	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	0.00E+00	0.00E+00	
3. PERCENT OF LIMIT (3.00E-01 uCi/sec)	%	0.00E+00	0.00E+00	
4. GROSS ALPHA RADIOACTIVITY	CURIES	0.00E+00	0.00E+00	
<b>D. TRITIUM</b>				
1. TOTAL RELEASE	CURIES	7.34E+00	7.45E+00	50
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	9.23E-01	9.37E-01	
3. PERCENT OF LIMIT (1.80E+05 uCi/sec)	%	5.13E-04	5.21E-04	
<b>E. CARBON-14</b>				
1. TOTAL RELEASE	CURIES	1.84E+00	1.84E+00	None
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	2.31E-01	2.31E-01	
3. PERCENT OF LIMIT (7.8E+03 uCi/sec)	%	2.97E-03	2.97E-03	

**Technical Specifications and Offsite Dose Calculation  
Manual Controls Reporting Requirements**

**STP NUCLEAR OPERATING COMPANY  
SEMIANNUAL SUMMATION OF ALL RELEASES BY QUARTER  
ALL AIRBORNE EFFLUENTS**

**Unit: 2**

Starting: 1-Jan-2023    Ending: 30-Jun-2023

TYPE OF EFFLUENT	UNITS	QUARTER 1	QUARTER 2	EST. TOT ERROR %
<b>A. FISSION &amp; ACTIVATION GASES</b>				
1. TOTAL RELEASE	CURIES	8.79E+01	1.92E+02	20
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	1.13E+01	2.45E+01	
3. PERCENT OF LIMIT (9.60E+04 uCi/sec)	%	1.18E-02	2.55E-02	
<b>B. RADIOIODINES</b>				
1. IODINE-131	CURIES	2.57E-06	3.93E-07	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	3.30E-07	5.00E-08	
3. PERCENT OF LIMIT (4.00E-02 uCi/sec)	%	8.25E-04	1.25E-04	
<b>C. PARTICULATES</b>				
1. PARTICULATES(HAL F-LIVES>8 DAYS)	CURIES	0.00E+00	9.65E-06	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	0.00E+00	1.23E-06	
3. PERCENT OF LIMIT (3.00E-01 uCi/sec)	%	0.00E+00	4.09E-04	
4. GROSS ALPHA RADIOACTIVITY	CURIES	0.00E+00	0.00E+00	
<b>D. TRITIUM</b>				
1. TOTAL RELEASE	CURIES	6.62E+00	9.61E+00	50
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	8.52E-01	1.22E+00	
3. PERCENT OF LIMIT (1.80E+05 uCi/sec)	%	4.73E-04	6.79E-04	
<b>E. CARBON-14</b>				
1. TOTAL RELEASE	CURIES	1.80E+00	1.82E+00	None
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	2.31E-01	2.32E-01	
3. PERCENT OF LIMIT (7.8E+03 uCi/sec)	%	2.97E-03	2.97E-03	

**Technical Specifications and Offsite Dose Calculation  
Manual Controls Reporting Requirements**

**STP NUCLEAR OPERATING COMPANY  
SEMIANNUAL SUMMATION OF ALL RELEASES BY QUARTER  
ALL AIRBORNE EFFLUENTS**

**Unit: 2**

Starting: 1-Jul-2023 Ending: 31-Dec-2023

TYPE OF EFFLUENT	UNITS	QUARTER 3	QUARTER 4	EST. TOT ERROR %
<b>A. FISSION &amp; ACTIVATION GASES</b>				
1. TOTAL RELEASE	CURIES	2.53E+02	2.38E+02	20
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	3.18E+01	3.00E+01	
3. PERCENT OF LIMIT (9.60E+04 uCi/sec)	%	3.31E-02	3.12E-02	
<b>B. RADIOIODINES</b>				
1. IODINE-131	CURIES	6.41E-07	2.32E-07	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	8.06E-08	2.91E-08	
3. PERCENT OF LIMIT (4.00E-02 uCi/sec)	%	2.02E-04	7.28E-05	
<b>C. PARTICULATES</b>				
1. PARTICULATES(HAL F-LIVES>8 DAYS)	CURIES	3.67E-06	5.31E-06	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	4.62E-07	6.68E-07	
3. PERCENT OF LIMIT (3.00E-01 uCi/sec)	%	1.54E-04	2.23E-04	
4. GROSS ALPHA RADIOACTIVITY	CURIES	0.00E+00	0.00E+00	
<b>D. TRITIUM</b>				
1. TOTAL RELEASE	CURIES	5.20E+01	2.08E+01	50
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	6.54E+00	2.62E+00	
3. PERCENT OF LIMIT (1.80E+05 uCi/sec)	%	3.63E-03	1.46E-03	
<b>E. CARBON-14</b>				
1. TOTAL RELEASE	CURIES	1.84E+00	1.84E+00	None
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	2.31E-01	2.31E-01	
3. PERCENT OF LIMIT (7.8E+03 uCi/sec)	%	2.97E-03	2.97E-03	

## **Radiological Data Tab**

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## **Gaseous Effluents**

**STP NUCLEAR OPERATING COMPANY  
SEMIANNUAL SUMMATION OF ALL RELEASES BY QUARTER  
ALL AIRBORNE EFFLUENTS**

**Unit: 1**

Starting: 1-Jan-2025    Ending: 30-Jun-2025

TYPE OF EFFLUENT	UNITS	QUARTER 1	QUARTER 2	EST. TOT ERROR %
<b>A. FISSION &amp; ACTIVATION GASES</b>				
1. TOTAL RELEASE	CURIES	1.09E+00	4.58E-01	100
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	1.41E-01	5.83E-02	
3. PERCENT OF LIMIT (9.60E+04 uCi/sec)	%	1.47E-04	6.07E-05	
<b>B. RADIOIODINES</b>				
1. IODINE-131	CURIES	0.00E+00	0.00E+00	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	0.00E+00	0.00E+00	
3. PERCENT OF LIMIT (4.00E-02 uCi/sec)	%	0.00E+00	0.00E+00	
<b>C. PARTICULATES</b>				
1. PARTICULATES (HALF-LIVES>8 DAYS)	CURIES	4.20E-06	5.79E-06	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	5.40E-07	7.36E-07	
3. PERCENT OF LIMIT (3.00E-01 uCi/sec)	%	1.80E-04	2.45E-04	
4. GROSS ALPHA RADIOACTIVITY	CURIES	0.00E+00	0.00E+00	
<b>D. TRITIUM</b>				
1. TOTAL RELEASE	CURIES	4.75E+00	1.31E+01	50
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	6.11E-01	1.67E+00	
3. PERCENT OF LIMIT (1.80E+05 uCi/sec)	%	3.40E-04	9.26E-04	
<b>E. CARBON-14</b>				
1. TOTAL RELEASE	CURIES	1.80E+00	1.82E+00	None
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	2.31E-01	2.31E-01	
3. PERCENT OF LIMIT (7.8E+03 uCi/sec)	%	2.97E-03	2.97E-03	

## STP NUCLEAR OPERATING COMPANY

## Unit 1

REPORT CATEGORY: SEMIANNUAL AIRBORNE GROUND LEVEL  
CONTINUOUS AND BATCH RELEASES. TOTALS  
FOR EACH NUCLIDE RELEASED.

TYPE OF ACTIVITY: FISSION GASES, IODINES, AND PARTICULATES

REPORTING PERIOD: QUARTER # 1 AND QUARTER # 2 YEAR 2025

NUCLIDES RELEASED	UNITS	CONTINUOUS MODE		BATCH MODE	
		QUARTER 1	QUARTER 2	QUARTER 1	QUARTER 2
FISSION GASES					
Argon-41	CURIES	4.14E-01	2.72E-01	0.00E+00	0.00E+00
Xenon-133	CURIES	6.80E-01	1.86E-01	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	1.09E+00	4.58E-01	0.00E+00	0.00E+00
IODINES					
Iodine-131	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Iodine-132	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PARTICULATES					
Beryllium-7	CURIES	4.20E-06	5.79E-06	0.00E+00	0.00E+00
Cobalt-58	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cobalt-60	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cesium-137	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	4.20E-06	5.79E-06	0.00E+00	0.00E+00
OTHER					
Carbon-14	CURIES	1.80E+00	1.82E+00	0.00E+00	0.00E+00
Hydrogen-3 (Tritium)	CURIES	4.75E+00	1.31E+01	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	6.55E+00	1.49E+01	0.00E+00	0.00E+00

**STP NUCLEAR OPERATING COMPANY  
SEMIANNUAL SUMMATION OF ALL RELEASES BY QUARTER  
ALL AIRBORNE EFFLUENTS**

**Unit: 1**

Starting: 1-Jul-2025    Ending: 31-Dec-2025

TYPE OF EFFLUENT	UNITS	QUARTER 3	QUARTER 4	EST. TOT ERROR %
<b>A. FISSION &amp; ACTIVATION GASES</b>				
1. TOTAL RELEASE	CURIES	4.35E-01	4.08E-01	100
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	5.48E-02	5.13E-02	
3. PERCENT OF LIMIT (9.60E+04 uCi/sec)	%	5.70E-05	5.34E-05	
<b>B. RADIOIODINES</b>				
1. IODINE-131	CURIES	0.00E+00	0.00E+00	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	0.00E+00	0.00E+00	
3. PERCENT OF LIMIT (4.00E-02 uCi/sec)	%	0.00E+00	0.00E+00	
<b>C. PARTICULATES</b>				
1. PARTICULATES (HALF-LIVES>8 DAYS)	CURIES	1.89E-08	4.99E-06	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	2.38E-09	6.28E-07	
3. PERCENT OF LIMIT (3.00E-01 uCi/sec)	%	7.93E-07	2.09E-04	
4. GROSS ALPHA RADIOACTIVITY	CURIES	0.00E+00	0.00E+00	
<b>D. TRITIUM</b>				
1. TOTAL RELEASE	CURIES	1.30E+01	5.33E+00	50
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	1.63E+00	6.70E-01	
3. PERCENT OF LIMIT (1.80E+05 uCi/sec)	%	9.08E-04	3.72E-04	
<b>E. CARBON-14</b>				
1. TOTAL RELEASE	CURIES	1.84E+00	1.84E+00	None
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	2.31E-01	2.31E-01	
3. PERCENT OF LIMIT (7.8E+03 uCi/sec)	%	2.97E-03	2.97E-03	

## STP NUCLEAR OPERATING COMPANY

## Unit 1

REPORT CATEGORY: SEMIANNUAL AIRBORNE GROUND LEVEL  
CONTINUOUS AND BATCH RELEASES. TOTALS  
FOR EACH NUCLIDE RELEASED.

TYPE OF ACTIVITY: FISSION GASES, IODINES, AND PARTICULATES

REPORTING PERIOD: QUARTER # 3 AND QUARTER # 4 YEAR 2025

NUCLIDES RELEASED	UNITS	CONTINUOUS MODE		BATCH MODE	
		QUARTER 3	QUARTER 4	QUARTER 3	QUARTER 4
FISSION GASES					
Argon-41	CURIES	2.43E-01	2.16E-01	0.00E+00	0.00E+00
Xenon-133	CURIES	1.92E-01	1.92E-01	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	4.35E-01	4.08E-01	0.00E+00	0.00E+00
IODINES					
Iodine-131	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Iodine-132	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PARTICULATES					
Beryllium-7	CURIES	0.00E+00	4.99E-06	0.00E+00	0.00E+00
Cobalt-58	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cobalt-60	CURIES	1.47E-08	0.00E+00	0.00E+00	0.00E+00
Cesium-137	CURIES	4.19E-09	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	1.89E-08	4.99E-06	0.00E+00	0.00E+00
OTHER					
Carbon-14	CURIES	1.84E+00	1.84E+00	0.00E+00	0.00E+00
Hydrogen-3 (Tritium)	CURIES	1.30E+01	5.32E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	1.48E+01	7.16E+00	0.00E+00	0.00E+00

**STP NUCLEAR OPERATING COMPANY  
SEMIANNUAL SUMMATION OF ALL RELEASES BY QUARTER  
ALL AIRBORNE EFFLUENTS**

**Unit: 2**

Starting: 1-Jan-2025    Ending: 30-Jun-2025

TYPE OF EFFLUENT	UNITS	QUARTER 1	QUARTER 2	EST. TOT ERROR %
<b>A. FISSION &amp; ACTIVATION GASES</b>				
1. TOTAL RELEASE	CURIES	2.07E+02	2.76E+02	20
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	2.66E+01	3.51E+01	
3. PERCENT OF LIMIT (9.60E+04 uCi/sec)	%	2.78E-02	3.66E-02	
<b>B. RADIOIODINES</b>				
1. IODINE-131	CURIES	1.12E-07	1.33E-07	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	1.45E-08	1.70E-08	
3. PERCENT OF LIMIT (4.00E-02 uCi/sec)	%	3.61E-05	4.24E-05	
<b>C. PARTICULATES</b>				
1. PARTICULATES (HALF-LIVES>8 DAYS)	CURIES	4.02E-06	1.73E-05	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	5.17E-07	2.20E-06	
3. PERCENT OF LIMIT (3.00E-01 uCi/sec)	%	1.72E-04	7.35E-04	
4. GROSS ALPHA RADIOACTIVITY	CURIES	0.00E+00	0.00E+00	
<b>D. TRITIUM</b>				
1. TOTAL RELEASE	CURIES	8.76E+00	1.67E+01	50
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	1.13E+00	2.13E+00	
3. PERCENT OF LIMIT (1.80E+05 uCi/sec)	%	6.26E-04	1.18E-03	
<b>E. CARBON-14</b>				
1. TOTAL RELEASE	CURIES	1.80E+00	1.82E+00	None
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	2.31E-01	2.31E-01	
3. PERCENT OF LIMIT (7.8E+03 uCi/sec)	%	2.97E-03	2.97E-03	

## STP NUCLEAR OPERATING COMPANY

## Unit 2

REPORT CATEGORY: SEMIANNUAL AIRBORNE GROUND LEVEL  
CONTINUOUS AND BATCH RELEASES. TOTALS  
FOR EACH NUCLIDE RELEASED.

TYPE OF ACTIVITY: FISSION GASES, IODINES, AND PARTICULATES

REPORTING PERIOD: QUARTER # 1 AND QUARTER # 2 YEAR 2025

NUCLIDES RELEASED	UNITS	CONTINUOUS MODE		BATCH MODE	
		QUARTER 1	QUARTER 2	QUARTER 1	QUARTER 2
FISSION GASES					
Argon-41	CURIES	4.52E-01	3.06E-01	0.00E+00	1.26E-01
Xenon-133	CURIES	2.07E+02	2.76E+02	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	2.07E+02	2.76E+02	0.00E+00	1.26E-01
IODINES					
Iodine-131	CURIES	1.12E-07	9.67E-08	0.00E+00	3.67E-08
Iodine-132	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	1.12E-07	9.67E-08	0.00E+00	3.67E-08
PARTICULATES					
Beryllium-7	CURIES	4.02E-06	1.49E-05	0.00E+00	2.43E-06
Cobalt-58	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cobalt-60	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cesium-137	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	4.02E-06	1.49E-05	0.00E+00	2.43E-06
OTHER					
Carbon-14	CURIES	1.80E+00	1.79E+00	0.00E+00	2.98E-02
Hydrogen-3 (Tritium)	CURIES	8.76E+00	1.62E+01	0.00E+00	5.34E-01
TOTAL FOR PERIOD	CURIES	1.06E+01	1.80E+01	0.00E+00	5.64E-01

**STP NUCLEAR OPERATING COMPANY  
SEMIANNUAL SUMMATION OF ALL RELEASES BY QUARTER  
ALL AIRBORNE EFFLUENTS**

**Unit: 2**

Starting: 1-Jul-2025 Ending: 31-Dec-2025

TYPE OF EFFLUENT	UNITS	QUARTER 3	QUARTER 4	EST. TOT ERROR %
<b>A. FISSION &amp; ACTIVATION GASES</b>				
1. TOTAL RELEASE	CURIES	1.31E+02	2.04E+02	20
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	1.64E+01	2.57E+01	
3. PERCENT OF LIMIT (9.60E+04 uCi/sec)	%	1.71E-02	2.68E-02	
<b>B. RADIOIODINES</b>				
1. IODINE-131	CURIES	7.31E-08	2.55E-06	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	9.19E-09	3.21E-07	
3. PERCENT OF LIMIT (4.00E-02 uCi/sec)	%	2.30E-05	8.03E-04	
<b>C. PARTICULATES</b>				
1. PARTICULATES (HALF-LIVES>8 DAYS)	CURIES	1.98E-09	2.18E-06	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	2.49E-10	2.74E-07	
3. PERCENT OF LIMIT (3.00E-01 uCi/sec)	%	8.30E-08	9.15E-05	
4. GROSS ALPHA RADIOACTIVITY	CURIES	0.00E+00	0.00E+00	
<b>D. TRITIUM</b>				
1. TOTAL RELEASE	CURIES	1.21E+01	1.03E+01	50
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	1.52E+00	1.29E+00	
3. PERCENT OF LIMIT (1.80E+05 uCi/sec)	%	8.45E-04	7.19E-04	
<b>E. CARBON-14</b>				
1. TOTAL RELEASE	CURIES	1.84E+00	1.84E+00	None
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	2.31E-01	2.31E-01	
3. PERCENT OF LIMIT (7.8E+03 uCi/sec)	%	2.97E-03	2.96E-03	

## STP NUCLEAR OPERATING COMPANY

## Unit 2

REPORT CATEGORY: SEMIANNUAL AIRBORNE GROUND LEVEL  
CONTINUOUS AND BATCH RELEASES. TOTALS  
FOR EACH NUCLIDE RELEASED.

TYPE OF ACTIVITY: FISSION GASES, IODINES, AND PARTICULATES

REPORTING PERIOD: QUARTER # 3 AND QUARTER # 4 YEAR 2025

NUCLIDES RELEASED	UNITS	CONTINUOUS MODE		BATCH MODE	
		QUARTER 3	QUARTER 4	QUARTER 3	QUARTER 4
FISSION GASES					
Argon-41	CURIES	2.99E-01	0.00E+00	0.00E+00	0.00E+00
Xenon-133	CURIES	1.30E+02	2.04E+02	0.00E+00	2.88E-02
TOTAL FOR PERIOD	CURIES	1.31E+02	2.04E+02	0.00E+00	2.88E-02
IODINES					
Iodine-131	CURIES	7.31E-08	7.70E-07	0.00E+00	1.78E-06
Iodine-132	CURIES	0.00E+00	5.01E-06	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	7.31E-08	5.78E-06	0.00E+00	1.78E-06
PARTICULATES					
Beryllium-7	CURIES	0.00E+00	1.89E-06	0.00E+00	0.00E+00
Cobalt-58	CURIES	1.22E-09	6.04E-09	0.00E+00	2.15E-07
Cobalt-60	CURIES	7.63E-10	1.53E-09	0.00E+00	6.56E-08
Cesium-137	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	1.98E-09	1.90E-06	0.00E+00	2.81E-07
OTHER					
Carbon-14	CURIES	1.84E+00	1.41E+00	0.00E+00	4.26E-01
Hydrogen-3 (Tritium)	CURIES	1.21E+01	7.81E+00	0.00E+00	2.48E+00
TOTAL FOR PERIOD	CURIES	1.39E+01	9.22E+00	0.00E+00	2.91E+00

## STP NUCLEAR OPERATING COMPANY

**Unit 1 plus 2 Total**

REPORT CATEGORY: ANNUAL AIRBORNE GROUND LEVEL RELEASES.

TOTALS FOR EACH NUCLIDE RELEASED. FOR  
ALL OF 2025

NUCLIDES RELEASED	UNITS	UNIT 1 2025	UNIT 2 2025	TOTAL 2025
<b>FISSION GASES</b>				
Argon-41	CURIES	1.15E+00	1.18E+00	2.33E+00
Xenon-133	CURIES	1.25E+00	8.17E+02	8.18E+02
TOTAL FOR PERIOD	CURIES	2.39E+00	8.18E+02	8.21E+02
<b>IODINES</b>				
Iodine-131	CURIES	0.00E+00	2.87E-06	2.87E-06
Iodine-132	CURIES	0.00E+00	5.01E-06	5.01E-06
TOTAL FOR PERIOD	CURIES	0.00E+00	7.88E-06	7.88E-06
<b>PARTICULATES</b>				
Beryllium-7	CURIES	1.50E-05	2.32E-05	3.82E-05
Cobalt-58	CURIES	0.00E+00	2.22E-07	2.22E-07
Cobalt-60	CURIES	1.47E-08	6.79E-08	8.26E-08
Cesium-137	CURIES	4.19E-09	0.00E+00	4.19E-09
TOTAL FOR PERIOD	CURIES	1.50E-05	2.35E-05	3.85E-05
<b>OTHER</b>				
Carbon-14	CURIES	7.30E+00	7.30E+00	1.46E+01
Hydrogen-3 (Tritium)	CURIES	3.62E+01	4.79E+01	8.41E+01
TOTAL FOR PERIOD	CURIES	4.34E+01	5.52E+01	9.86E+01

## **Liquid Effluents**

**STP NUCLEAR OPERATING COMPANY  
SEMIANNUAL SUMMATION OF ALL RELEASES BY QUARTER  
ALL LIQUID EFFLUENTS**

**Unit: 1**

Starting: 1-Jan-2025 Ending: 30-Jun-2025

TYPE OF EFFLUENT	UNITS	QUARTER 1	QUARTER 2	EST. TOT ERROR %
<b>A. FISSION &amp; ACTIVATION PRODUCTS</b>				
1. TOTAL RELEASE (NOT INCLUDING TRITIUM, GASES, ALPHA)	CURIES	5.17E-04	4.28E-04	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	μCi/mL	1.93E-10	7.94E-11	
3. PERCENT OF EC* LIMIT (FRACTIONAL)	%	3.94E-04	2.36E-04	
<b>B. TRITIUM</b>				
1. TOTAL RELEASE	CURIES	4.63E+00	1.03E+02	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	μCi/mL	1.72E-06	1.91E-05	
3. % OF LIMIT (1.00E-02 μCi/mL)	%	6.52E-02	7.25E-01	
<b>C. DISSOLVED AND ENTRAINED GASES</b>				
1. TOTAL RELEASE	CURIES	0.00E+00	4.14E-05	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	μCi/mL	0.00E+00	7.68E-12	
3. PERCENT OF LIMIT (2.00E-4 μCi/mL)	%	0.00E+00	1.45E-05	
<b>D. GROSS ALPHA RADIOACTIVITY</b>				
1. TOTAL RELEASE	CURIES	0.00E+00	0.00E+00	10
<b>E. WASTE VOL RELEASED</b>				
1. TOTAL PRE-DILUTION VOLUME	LITERS	8.46E+06	1.02E+07	1
2. BATCH PRE-DILUTION VOLUME	LITERS	3.83E+05	7.66E+05	
F. VOLUME OF DILUTION WATER USED**	LITERS	7.02E+08	1.41E+09	

\*EC= Effluent Concentration

\*\*"Volume of dilution water used" means the volume of water circulated through the main condenser during the actual time of release. Liquid effluent releases ultimately dilute into the volume of the onsite main cooling reservoir, and then into offsite water bodies as described in Section 2, subsection Radiological Impact on Man of this report.

## STP NUCLEAR OPERATING COMPANY

## Unit 1

REPORT CATEGORY: SEMIANNUAL LIQUID CONTINUOUS AND BATCH  
RELEASES. TOTALS FOR EACH NUCLIDE RELEASED.

TYPE OF ACTIVITY: ALL RADIONUCLIDES

REPORTING PERIOD: QUARTER # 1 AND QUARTER # 2 YEAR 2025

NUCLIDES RELEASED	UNITS	CONTINUOUS RELEASES		BATCH RELEASES	
		QUARTER 1	QUARTER 2	QUARTER 1	QUARTER 2
ALL NUCLIDES					
Arsenic-76	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cerium-144	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cobalt-58	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cobalt-60	CURIES	0.00E+00	0.00E+00	7.01E-05	3.32E-05
Chromium-51	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cesium-137	CURIES	0.00E+00	0.00E+00	0.00E+00	1.04E-05
Iron-55	CURIES	0.00E+00	0.00E+00	4.03E-04	3.24E-05
Tritium	CURIES	1.50E-02	3.50E-02	4.61E+00	1.03E+02
Manganese-54	CURIES	0.00E+00	0.00E+00	0.00E+00	1.56E-06
Nickel-63	CURIES	0.00E+00	0.00E+00	3.91E-05	1.10E-04
Antimony-124	CURIES	0.00E+00	0.00E+00	0.00E+00	2.37E-05
Antimony-125	CURIES	0.00E+00	0.00E+00	5.44E-06	2.17E-04
Xenon-131m	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xenon-133	CURIES	0.00E+00	0.00E+00	0.00E+00	4.14E-05
Xenon-133m	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xenon-135	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	1.50E-02	3.50E-02	4.61E+00	1.03E+02

**STP NUCLEAR OPERATING COMPANY  
SEMIANNUAL SUMMATION OF ALL RELEASES BY QUARTER  
ALL LIQUID EFFLUENTS**

**Unit: 1**

Starting: 1-Jul-2025    Ending: 31-Dec-2025

TYPE OF EFFLUENT	UNITS	QUARTER 3	QUARTER 4	EST. TOT ERROR %
<b>A. FISSION &amp; ACTIVATION PRODUCTS</b>				
1. TOTAL RELEASE (NOT INCLUDING TRITIUM, GASES, ALPHA)	CURIES	3.49E-04	4.18E-02	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	µCi/mL	9.11E-11	4.68E-09	
3. PERCENT OF EC* LIMIT (FRACTIONAL)	%	5.15E-04	2.30E-03	
<b>B. TRITIUM</b>				
1. TOTAL RELEASE	CURIES	8.66E+00	6.50E+02	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	µCi/mL	2.26E-06	7.30E-05	
3. % OF LIMIT (1.00E-02 µCi/mL)	%	8.56E-02	2.76E+00	
<b>C. DISSOLVED AND ENTRAINED GASES</b>				
1. TOTAL RELEASE	CURIES	0.00E+00	1.29E-04	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	µCi/mL	0.00E+00	1.45E-11	
3. PERCENT OF LIMIT (2.00E-04 µCi/mL)	%	0.00E+00	2.74E-05	
<b>D. GROSS ALPHA RADIOACTIVITY</b>				
1. TOTAL RELEASE	CURIES	0.00E+00	0.00E+00	10
<b>E. WASTE VOL RELEASED</b>				
1. TOTAL PRE-DILUTION VOLUME	LITERS	1.03E+07	7.28E+06	1
2. BATCH PRE-DILUTION VOLUME	LITERS	5.45E+05	1.47E+06	
F. VOLUME OF DILUTION WATER USED**	LITERS	1.00E+09	2.35E+09	

\*EC= Effluent Concentration

\*\*"Volume of dilution water used" means the volume of water circulated through the main condenser during the actual time of release. Liquid effluent releases ultimately dilute into the volume of the onsite main cooling reservoir, and then into offsite water bodies as described in Section 2, subsection Radiological Impact on Man of this report.

## STP NUCLEAR OPERATING COMPANY

## Unit 1

REPORT CATEGORY: SEMIANNUAL LIQUID CONTINUOUS AND BATCH  
RELEASES. TOTALS FOR EACH NUCLIDE RELEASED.

TYPE OF ACTIVITY: ALL RADIONUCLIDES

REPORTING PERIOD: QUARTER # 3 AND QUARTER # 4 YEAR 2025

NUCLIDES RELEASED	UNITS	CONTINUOUS RELEASES		BATCH RELEASES	
		QUARTER 3	QUARTER 4	QUARTER 3	QUARTER 4
ALL NUCLIDES					
Arsenic-76	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cerium-144	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cobalt-58	CURIES	0.00E+00	0.00E+00	0.00E+00	1.60E-06
Cobalt-60	CURIES	0.00E+00	0.00E+00	5.66E-05	1.25E-04
Chromium-51	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cesium-137	CURIES	0.00E+00	0.00E+00	1.96E-05	6.85E-05
Iron-55	CURIES	0.00E+00	0.00E+00	0.00E+00	3.35E-05
Tritium	CURIES	2.88E-02	1.52E-02	8.63E+00	6.50E+02
Manganese-54	CURIES	0.00E+00	0.00E+00	1.37E-05	1.33E-05
Nickel-63	CURIES	0.00E+00	0.00E+00	6.12E-05	4.12E-02
Antimony-124	CURIES	0.00E+00	0.00E+00	5.48E-05	7.78E-05
Antimony-125	CURIES	0.00E+00	0.00E+00	1.43E-04	2.25E-04
Xenon-131m	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xenon-133	CURIES	0.00E+00	0.00E+00	0.00E+00	1.29E-04
Xenon-133m	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xenon-135	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	2.88E-02	1.52E-02	8.63E+00	6.50E+02

**STP NUCLEAR OPERATING COMPANY  
SEMIANNUAL SUMMATION OF ALL RELEASES BY QUARTER  
ALL LIQUID EFFLUENTS**

**Unit: 2**

Starting: 1-Jan-2025    Ending: 30-Jun-2025

TYPE OF EFFLUENT	UNITS	QUARTER 1	QUARTER 2	EST. TOT ERROR %
<b>A. FISSION &amp; ACTIVATION PRODUCTS</b>				
1. TOTAL RELEASE (NOT INCLUDING TRITIUM, GASES, ALPHA)	CURIES	2.12E-03	3.82E-03	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	μCi/mL	1.13E-09	5.49E-10	
3. PERCENT OF EC* LIMIT (FRACTIONAL)	%	5.43E-04	2.89E-04	
<b>B. TRITIUM</b>				
1. TOTAL RELEASE	CURIES	5.91E+01	5.13E+02	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	μCi/mL	3.15E-05	7.38E-05	
3. % OF LIMIT (1.00E-02 μCi/mL)	%	1.19E+00	2.79E+00	
<b>C. DISSOLVED AND ENTRAINED GASES</b>				
1. TOTAL RELEASE	CURIES	0.00E+00	1.18E-03	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	μCi/mL	0.00E+00	1.70E-10	
3. PERCENT OF LIMIT (2.00E-04 μCi/mL)	%	0.00E+00	3.21E-04	
<b>D. GROSS ALPHA RADIOACTIVITY</b>				
1. TOTAL RELEASE	CURIES	0.00E+00	0.00E+00	10
<b>E. WASTE VOL RELEASED</b>				
1. TOTAL PRE-DILUTION VOLUME	LITERS	5.24E+06	3.77E+06	1
2. BATCH PRE-DILUTION VOLUME	LITERS	3.22E+05	9.62E+05	
F. VOLUME OF DILUTION WATER USED**	LITERS	4.90E+08	1.83E+09	

\*EC= Effluent Concentration

\*\*"Volume of dilution water used" means the volume of water circulated through the main condenser during the actual time of release. Liquid effluent releases ultimately dilute into the volume of the onsite main cooling reservoir, and then into offsite water bodies as described in Section 2, subsection Radiological Impact on Man of this report.

## STP NUCLEAR OPERATING COMPANY

## Unit 2

REPORT CATEGORY: SEMIANNUAL LIQUID CONTINUOUS AND BATCH  
RELEASES. TOTALS FOR EACH NUCLIDE RELEASED.

TYPE OF ACTIVITY: ALL RADIONUCLIDES

REPORTING PERIOD: QUARTER # 1 AND QUARTER # 2 YEAR 2025

NUCLIDES RELEASED	UNITS	CONTINUOUS RELEASES		BATCH RELEASES	
		QUARTER 1	QUARTER 2	QUARTER 1	QUARTER 2
ALL NUCLIDES					
Arsenic-76	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cerium-144	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cobalt-58	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cobalt-60	CURIES	0.00E+00	0.00E+00	7.64E-06	3.94E-05
Chromium-51	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cesium-137	CURIES	0.00E+00	0.00E+00	0.00E+00	8.27E-07
Iron-55	CURIES	0.00E+00	0.00E+00	3.34E-04	0.00E+00
Tritium	CURIES	4.09E-02	1.35E-02	5.90E+01	5.13E+02
Manganese-54	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nickel-63	CURIES	0.00E+00	0.00E+00	1.65E-03	3.73E-03
Antimony-124	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Antimony-125	CURIES	0.00E+00	0.00E+00	1.36E-04	5.40E-05
Xenon-131m	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xenon-133	CURIES	0.00E+00	0.00E+00	0.00E+00	1.18E-03
Xenon-133m	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xenon-135	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	4.09E-02	1.35E-02	5.90E+01	5.13E+02

**STP NUCLEAR OPERATING COMPANY  
SEMIANNUAL SUMMATION OF ALL RELEASES BY QUARTER  
ALL LIQUID EFFLUENTS**

**Unit: 2**

Starting: 1-Jul-2025    Ending: 31-Dec-2025

TYPE OF EFFLUENT	UNITS	QUARTER 3	QUARTER 4	EST. TOT ERROR %
<b>A. FISSION &amp; ACTIVATION PRODUCTS</b>				
1. TOTAL RELEASE (NOT INCLUDING TRITIUM, GASES, ALPHA)	CURIES	1.11E-02	8.62E-03	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	μCi/mL	7.41E-10	1.01E-09	
3. PERCENT OF EC* LIMIT (FRACTIONAL)	%	1.02E-03	1.18E-03	
<b>B. TRITIUM</b>				
1. TOTAL RELEASE	CURIES	6.53E+02	1.90E+02	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	μCi/mL	4.34E-05	2.23E-05	
3. % OF LIMIT (1.00E-02 μCi/mL)	%	1.64E+00	8.45E-01	
<b>C. DISSOLVED AND ENTRAINED GASES</b>				
1. TOTAL RELEASE	CURIES	1.13E-02	1.39E-02	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	μCi/mL	7.52E-10	1.63E-09	
3. PERCENT OF LIMIT (2.00E-04 μCi/mL)	%	1.42E-03	3.08E-03	
<b>D. GROSS ALPHA RADIOACTIVITY</b>				
1. TOTAL RELEASE	CURIES	0.00E+00	0.00E+00	10
<b>E. WASTE VOL RELEASED</b>				
1. TOTAL PRE-DILUTION VOLUME	LITERS	7.62E+06	8.04E+06	1
2. BATCH PRE-DILUTION VOLUME	LITERS	2.14E+06	1.30E+06	
F. VOLUME OF DILUTION WATER USED**	LITERS	3.97E+09	2.25E+09	

\*EC= Effluent Concentration

\*\*"Volume of dilution water used" means the volume of water circulated through the main condenser during the actual time of release. Liquid effluent releases ultimately dilute into the volume of the onsite main cooling reservoir, and then into offsite water bodies as described in Section 2, subsection Radiological Impact on Man of this report.

## STP NUCLEAR OPERATING COMPANY

## Unit 2

REPORT CATEGORY: SEMIANNUAL LIQUID CONTINUOUS AND BATCH  
RELEASES. TOTALS FOR EACH NUCLIDE RELEASED.

TYPE OF ACTIVITY: ALL RADIONUCLIDES

REPORTING PERIOD: QUARTER # 3 AND QUARTER # 4 YEAR 2025

NUCLIDES RELEASED	UNITS	CONTINUOUS RELEASES		BATCH RELEASES	
		QUARTER 3	QUARTER 4	QUARTER 3	QUARTER 4
ALL NUCLIDES					
Arsenic-76	CURIES	0.00E+00	0.00E+00	0.00E+00	5.02E-06
Cerium-144	CURIES	0.00E+00	0.00E+00	0.00E+00	2.16E-06
Cobalt-58	CURIES	0.00E+00	0.00E+00	0.00E+00	3.02E-05
Cobalt-60	CURIES	0.00E+00	0.00E+00	9.10E-04	5.39E-04
Chromium-51	CURIES	0.00E+00	0.00E+00	0.00E+00	1.91E-05
Cesium-137	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Iron-55	CURIES	0.00E+00	0.00E+00	5.48E-05	0.00E+00
Tritium	CURIES	2.03E-02	1.02E-02	6.53E+02	1.90E+02
Manganese-54	CURIES	0.00E+00	0.00E+00	3.09E-05	2.21E-05
Nickel-63	CURIES	0.00E+00	0.00E+00	1.01E-02	7.87E-03
Antimony-124	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Antimony-125	CURIES	0.00E+00	0.00E+00	0.00E+00	1.40E-04
Xenon-131m	CURIES	0.00E+00	0.00E+00	0.00E+00	6.19E-05
Xenon-133	CURIES	0.00E+00	0.00E+00	1.12E-02	1.01E-02
Xenon-133m	CURIES	0.00E+00	0.00E+00	1.03E-04	2.96E-04
Xenon-135	CURIES	0.00E+00	0.00E+00	3.79E-05	3.42E-03
TOTAL FOR PERIOD	CURIES	2.03E-02	1.02E-02	6.53E+02	1.90E+02

## STP NUCLEAR OPERATING COMPANY

## Unit 1 plus 2 Total

REPORT CATEGORY: ANNUAL LIQUID RELEASES. TOTALS FOR EACH  
NUCLIDE RELEASED. FOR ALL OF 2025

NUCLIDES RELEASED	UNITS	UNIT 1 2025	UNIT 2 2025	TOTAL 2025
ALL NUCLIDES				
Arsenic-76	CURIES	0.00E+00	5.02E-06	5.02E-06
Cerium-144	CURIES	0.00E+00	2.16E-06	2.16E-06
Cobalt-58	CURIES	1.60E-06	3.02E-05	3.18E-05
Cobalt-60	CURIES	2.85E-04	1.50E-03	1.78E-03
Chromium-51	CURIES	0.00E+00	1.91E-05	1.91E-05
Cesium-137	CURIES	9.85E-05	8.27E-07	9.93E-05
Iron-55	CURIES	4.69E-04	3.89E-04	8.58E-04
Tritium	CURIES	7.66E+02	1.42E+03	2.18E+03
Manganese-54	CURIES	2.86E-05	5.30E-05	8.16E-05
Nickel-63	CURIES	4.14E-02	2.34E-02	6.48E-02
Antimony-124	CURIES	1.56E-04	0.00E+00	1.56E-04
Antimony-125	CURIES	5.90E-04	3.30E-04	9.20E-04
Xenon-131m	CURIES	0.00E+00	6.19E-05	6.19E-05
Xenon-133	CURIES	1.70E-04	2.25E-02	2.27E-02
Xenon-133m	CURIES	0.00E+00	3.99E-04	3.99E-04
Xenon-135	CURIES	0.00E+00	3.46E-03	3.46E-03
TOTAL FOR PERIOD	CURIES	7.66E+02	1.42E+03	2.18E+03
TOTAL Noble Gases	CURIES	1.70E-04	2.64E-02	2.66E-02
TOTAL Excluding Tritium & Noble Gases	CURIES	4.30E-02	2.57E-02	6.87E-02
TOTAL Gamma Emitters Excluding Noble Gases	millicuries	1.16E+00	1.94E+00	3.10E+00

## **Solid Waste and Irradiated Fuel Shipments**

## Solid Waste and Irradiated Fuel Shipments

## A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (not irradiated fuel)

1. Type of Waste	Units	12-Month Period Shipped	Estimated Error, (±) %
a. Spent resins, filters, evaporator bottoms, etc.	m <sup>3</sup>	2.77E+01	2.00E+01
	Ci	1.61E+02	
b. Dry compressible waste, contaminated equip., etc.	m <sup>3</sup>	4.42E+02	2.00E+01
	Ci	1.73E-01	
c. Irradiated components, control rods, etc.	m <sup>3</sup>	None	N/A
	Ci	None	
d. Other (Large Reactor Components and Associated Commodities)	m <sup>3</sup>	6.25E+00	2.00E+01
	Ci	5.00E-04	
e. Low Level Exempt Quantities of sewage sludge and resin.	m <sup>3</sup>	1.29E+02	N/A
	Ci	2.66E-05	

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

a. Spent resins, filter sludges, evaporator bottoms, etc.	Shipped Curies (Ci)	%
H-3	1.74E+00	1.1%
Mn-54	5.13E+00	3.2%
Fe-55	1.97E+01	12.3%
Co-60	6.84E+01	42.5%
Ni-63	5.76E+01	35.8%
Cs-137	2.00E+00	1.2%
b. Dry Compressible Waste (DAW)	Shipped Curies (Ci)	%
Cr-51	4.55E-02	26.2%
Mn-54	4.44E-03	2.6%
Fe-55	1.99E-02	11.5%
Co-58	2.88E-02	16.6%
Co-60	2.16E-02	12.5%
Ni-63	3.10E-03	1.8%
Zr-95	1.62E-02	9.3%
Nb-95	2.93E-02	16.9%
c. Irradiated components, control rods, etc.	Shipped Curies (Ci)	%

**Solid Waste and Irradiated Fuel Shipments**

None	0.00E+00	0.00%
d. Other (Large Reactor Components and Associated Commodities)	Shipped Curies (Ci)	%
Cr-51	6.82E-06	1.4%
Mn-54	8.93E-06	1.8%
Fe-55	1.84E-04	36.9%
Fe-59	7.62E-06	1.5%
Co-58	1.29E-05	2.6%
Co-60	2.02E-04	40.5%
Ni-63	2.92E-05	5.9%
Zn-65	5.44E-06	1.1%
Nb-95	7.59E-06	1.5%
Sb-125	1.26E-05	2.5%
e. Low Level Exempt Quantities of sewage sludge and resin*	Shipped Curies (Ci)	%
H-3	1.14E-05	42.9%
Be-7	1.39E-05	52.1%
Co-60	1.27E-06	4.8%
Cs-137	4.90E-08	0.2%

3. Solid Waste Disposition			
Number of Shipments	Mode of Transportation	Type of Waste	Destination
7	Truck	a. Spent resins, filter sludges, evaporator bottoms, etc. b. Dry compressible waste, contaminated equip., etc. d. Other (Large Reactor Components and Associated Commodities)	Waste Control Specialists - Compact Waste Disposal Facility 9998 W. State Highway 176 Andrews, TX 79714
8	Truck	a. Spent resins, filter sludges, evaporator bottoms, etc. b. Dry compressible waste, contaminated equip., etc. d. Other (Large Reactor Components and Associated Commodities)	Waste Control Specialists - TSDF Storage and Processing Facility 9998 W. State Highway 176 Andrews, TX 79714

Note: \*Shipped per Texas Commission on Environmental Quality exemption to industrial landfill

4. Class of Solid Waste:  
A, B, C

5. Type of Containers Used for Shipment:  
General Design, Type A Containers, Type B Containers

6. Solidifying Agent: N/A

B. Irradiated Fuel Shipments (Disposal): No shipments made during this period

## **Dose Data Tab**

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## **Dose Accumulations**

STP NUCLEAR OPERATING COMPANY  
SUMMARY OF MAXIMUM INDIVIDUAL DOSES

Unit: 1

TOTAL ACCUMULATION FOR PERIODS:

for LIQUID, GASEOUS, AND AIR

Starting: 1-Jan-2025 Ending: 31-Dec-2025

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (mrem)	AGE GROUP	LOCATION DIST DIR (m) (TOWARD)	% OF APPLICABLE LIMIT	LIMIT (mrad or mrem)
LIQUID	TOTAL BODY	4.70E-03	ADULT	LITTLE ROBBINS SLOUGH	1.57E-01	3
LIQUID	BONE	1.23E-02	CHILD	LITTLE ROBBINS SLOUGH	1.23E-01	10
NOBLE GAS	AIR DOSE (gamma-mrad)	3.34E-04		1850m WNW	3.34E-03	10
NOBLE GAS	AIR DOSE (beta-mrad)	6.19E-04		1850m WNW	3.09E-03	20
NOBLE GAS	TOTAL BODY	2.07E-04	ALL	1850m WNW	4.13E-03	5
NOBLE GAS	TOTAL BODY	4.58E-05	ALL	3500m WSW	9.17E-04	5
NOBLE GAS	SKIN	4.67E-04	ALL	1850m WNW	3.11E-03	15
NOBLE GAS	SKIN	7.60E-05	ALL	3500m WSW	5.07E-04	15
IODINE, PARTICULATES, & TRITIUM	BONE	2.37E-01	CHILD	1720m NW	1.58E+00	15
IODINE, PARTICULATES, & TRITIUM	BONE	7.99E-02	CHILD	3500m WSW	5.33E-01	15

SUMMARY OF POPULATION DOSES FOR 2025			
EFFLUENT	APPLICABLE ORGAN	ESTIMATED POPULATION DOSE (person-rem)	AVERAGE DOSE TO POPULATION (rem per person)
LIQUID	TOTAL BODY	3.13E-04	7.14E-08
GASEOUS	TOTAL BODY	3.48E-02	2.91E-09

NOTES:

- (1) Doses were calculated for HYPOTHETICAL receptors at the site boundary.
- (2) Highest dose for nearest individual or receptor. This individual is assumed to reside at this location.
- (3) Calculation based on a population of 303,500 for shoreline exposure and for saltwater invertebrate ingestion and 3,800 for saltwater sport fish ingestion.
- (4) Calculation based on a population of 299,000 within fifty (50) miles of South Texas Project.
- (5) Receptor at this location is an adult ingesting fresh water sport fish and receiving shoreline exposure from the Little Robbins Slough Area.

STP NUCLEAR OPERATING COMPANY  
SUMMARY OF MAXIMUM INDIVIDUAL DOSES

Unit: 2

TOTAL ACCUMULATION FOR PERIODS:  
for LIQUID, GASEOUS, AND AIR

Starting: 1-Jan-2025 Ending: 31-Dec-2025

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (mrem)	AGE GROUP	LOCATION DIST DIR (m) (TOWARD)	% OF APPLICABLE LIMIT	LIMIT (mrad or mrem)
LIQUID	TOTAL BODY	8.29E-03	ADULT	LITTLE ROBBINS SLOUGH	2.76E-01	3
LIQUID	LIVER	8.47E-03	ADULT	LITTLE ROBBINS SLOUGH	8.47E-02	10
NOBLE GAS	AIR DOSE (gamma-mrad)	9.27E-03		1720m NW	9.27E-02	10
NOBLE GAS	AIR DOSE (beta-mrad)	2.70E-02		1720m NW	1.35E-01	20
NOBLE GAS	TOTAL BODY	5.43E-03	ALL	1720m NW	1.09E-01	5
NOBLE GAS	TOTAL BODY	9.92E-04	ALL	3500m WSW	1.98E-02	5
NOBLE GAS	SKIN	1.51E-02	ALL	1720m NW	1.01E-01	15
NOBLE GAS	SKIN	2.75E-03	ALL	3500m WSW	1.83E-02	15
IODINE, PARTICULATES, & TRITIUM	BONE	2.36E-01	CHILD	1720m NW	1.57E+00	15
IODINE, PARTICULATES, & TRITIUM	BONE	8.11E-02	CHILD	3500m WSW	5.40E-01	15

SUMMARY OF POPULATION DOSES FOR 2025			
EFFLUENT	APPLICABLE ORGAN	ESTIMATED POPULATION DOSE (person-rem)	AVERAGE DOSE TO POPULATION (rem per person)
LIQUID	TOTAL BODY	5.56E-04	1.25E-07
GASEOUS	TOTAL BODY	3.99E-02	3.44E-09

NOTES:

- (1) Doses were calculated for HYPOTHETICAL receptors at the site boundary.
- (2) Highest dose for nearest individual or receptor. This individual is assumed to reside at this location.
- (3) Calculation based on a population of 303,500 for shoreline exposure and for saltwater invertebrate ingestion and 3,800 for saltwater sport fish ingestion.
- (4) Calculation based on a population of 299,000 within fifty (50) miles of South Texas Project.
- (5) Receptor at this location is an adult ingesting fresh water sport fish and receiving shoreline exposure from the Little Robbins Slough Area.

STP NUCLEAR OPERATING COMPANY  
SUMMARY OF MAXIMUM INDIVIDUAL DOSES

Unit: 1 plus 2

TOTAL ACCUMULATION FOR PERIODS:

for LIQUID, GASEOUS, AND AIR

Starting: 1-Jan-2025 Ending: 31-Dec-2025

EFFLUENT	APPLICABLE ORGAN	UNIT 1 ESTIMATED DOSE (mrem)	UNIT 2 ESTIMATED DOSE (mrem)	TOTAL 1+2 ESTIMATED DOSE (mrem)	AGE GROUP	LOCATION DIST DIR (m)(TOWARD)
LIQUID	TOTAL BODY	4.70E-03	8.29E-03	1.30E-02	ADULT	LITTLE ROBBINS SLOUGH
LIQUID	BONE	1.23E-02	6.93E-03	1.92E-02	CHILD	LITTLE ROBBINS SLOUGH
NOBLE GAS	AIR DOSE (gamma-mrad)	2.87E-04	9.27E-03	9.56E-03		1720m NW
NOBLE GAS	AIR DOSE (beta-mrad)	1.29E-04	2.70E-02	2.72E-02		1720m NW
NOBLE GAS	TOTAL BODY	1.90E-04	5.43E-03	5.62E-03	ALL	1720m NW
NOBLE GAS	TOTAL BODY	4.58E-05	9.92E-04	1.04E-03	ALL	3500m WSW
NOBLE GAS	SKIN	3.12E-04	1.51E-02	1.55E-02	ALL	1720m NW
NOBLE GAS	SKIN	7.60E-05	2.75E-03	2.82E-03	ALL	3500m WSW
IODINE, PARTICULATES, & TRITIUM	BONE	2.37E-01	2.36E-01	4.73E-01	CHILD	1720m NW
IODINE, PARTICULATES, & TRITIUM	BONE	7.99E-02	8.11E-02	1.61E-01	CHILD	3500m WSW
IODINE, PARTICULATES, & TRITIUM	TOTAL BODY	6.26E-03	6.63E-03	1.29E-02	ADULT	3500m WSW

SUMMARY OF POPULATION DOSES FOR 2025			
EFFLUENT	APPLICABLE ORGAN	ESTIMATED POPULATION DOSE (person-rem)	AVERAGE DOSE TO POPULATION (rem per person)
LIQUID	TOTAL BODY	8.69E-04	1.96E-07
GASEOUS	TOTAL BODY	7.47E-02	5.41E-09

NOTES:

- (1) Doses were calculated for HYPOTHETICAL receptors at the site boundary.
- (2) Highest dose for nearest individual or receptor. This individual is assumed to reside at this location.
- (3) Calculation based on a population of 303,500 for shoreline exposure and for saltwater invertebrate ingestion and 3,800 for saltwater sport fish ingestion.
- (4) Calculation based on a population of 299,000 within fifty (50) miles of South Texas Project.
- (5) Receptor at this location is an adult ingesting fresh water sport fish and receiving shoreline exposure from the Little Robbins Slough Area.

## **RESULTS OF DIRECT RADIATION MEASUREMENTS PROGRAM**

**STP NUCLEAR OPERATING COMPANY**  
**Onsite Direct Radiation Measurements**

REPORT CATEGORY: THERMOLUMINESCENT DOSIMETER MONITORING  
 STATIONS QUARTERLY RESULTS FOR 2025 TABLE 8-1

<b>MONITORING STATION NUMBER (Noted on Figure 8-1)</b>	<b>QUARTER 1</b>	<b>QUARTER 2</b>	<b>QUARTER 3</b>	<b>QUARTER 4</b>	<b>AVERAGE RATE</b>	<b>AVERAGE NET RATE</b>
<b>UNITS</b>	milliRoentgen	milliRoentgen	milliRoentgen	milliRoentgen	milliRoentgen per quarter	milliRoentgen per hour
<b>PROTECTED AREA</b>						
1	9	9	8	13	10	0.0045
2	14	12	10	11	12	0.0054
3	14	14	12	13	13	0.0061
4	9	21	14	19	16	0.0072
5	14	13	26	16	17	0.0079
6	26	15	21	17	20	0.0090
7	17	20	21	21	20	0.0090
8	12	12	23	14	15	0.0070
9	27	11	17	17	18	0.0082
10 next to ISFSI*	23	24	29	26	26	0.0117
11 next to ISFSI*	48	59	56	54	54	0.0248
12	14	8	16	13	13	0.0058
13	13	13	10	12	12	0.0055
14	19	18	9	13	15	0.0068
15	14	18	13	12	14	0.0065
16	11	11	17	21	15	0.0069

## Results of Direct Radiation Measurements

OLD STEAM GENERATOR STORAGE FACILITY						
25	20	12	14	19	16	0.0074
26	14	13	22	17	17	0.0076
27	11	14	13	12	13	0.0057
28	11	10	20	10	13	0.0058
LOW LEVEL RAD WASTE STORAGE AREA						
29	25	16	22	22	21	0.0097
30	22	16	19	19	19	0.0087
31	17	16	19	23	19	0.0086
32	16	15	21	13	16	0.0074
33	16	16	13	17	16	0.0071
34	22	20	16	17	19	0.0086
35	28	18	22	23	23	0.0104
36	14	16	12	14	14	0.0064
ISFSI AREA						
37*	10	29	24	31	24	0.0108
38*	12	31	27	45	29	0.0132
39*	16	37	22	42	29	0.0134
40*	22	61	51	68	51	0.0231

*\*The Independent Spent Fuel Storage Installation (ISFSI) began storing radioactive material in 2019. Environmental thermoluminescent dosimeters (TLDs) were first installed in January 2015. Stations #37 through #40 used both environmental TLDs (Panasonic UD-814) and personnel TLDs (Mirion Type 36 badge) beginning in Q3 2015 to measure gamma and neutron background exposure through the end of 2022. In 2025, STP used Mirion dosimetry with BeOSL and Harshaw TLD (Type 36) for neutron.*

## **Notes for Onsite Direct Radiation Measurements**

### **Measurement Results**

Individual values normalized to a 91-day quarter.

Only calcium sulfate elements were used in these averages for the environmental TLDs.

The ISFSI fence TLD's are a part of the 10CFR72.44 monitoring and are not considered part of the REMP. However, their results can be used indirectly to determine whether the operation of the ISFSI is having an impact on the ambient environmental radiation beyond the site boundary. Impacts are determined by comparison of fence TLD results to the results of monitoring at STP's site boundary and other selected locations. These results are used as part of the 40CFR190 compliance demonstration.

### **Average Net Rate:**

Difference between the 2025 exposure rate and the 1986 measured rate due to natural background

Average Net Rate= Average rate / 91 days / 24 hours per day

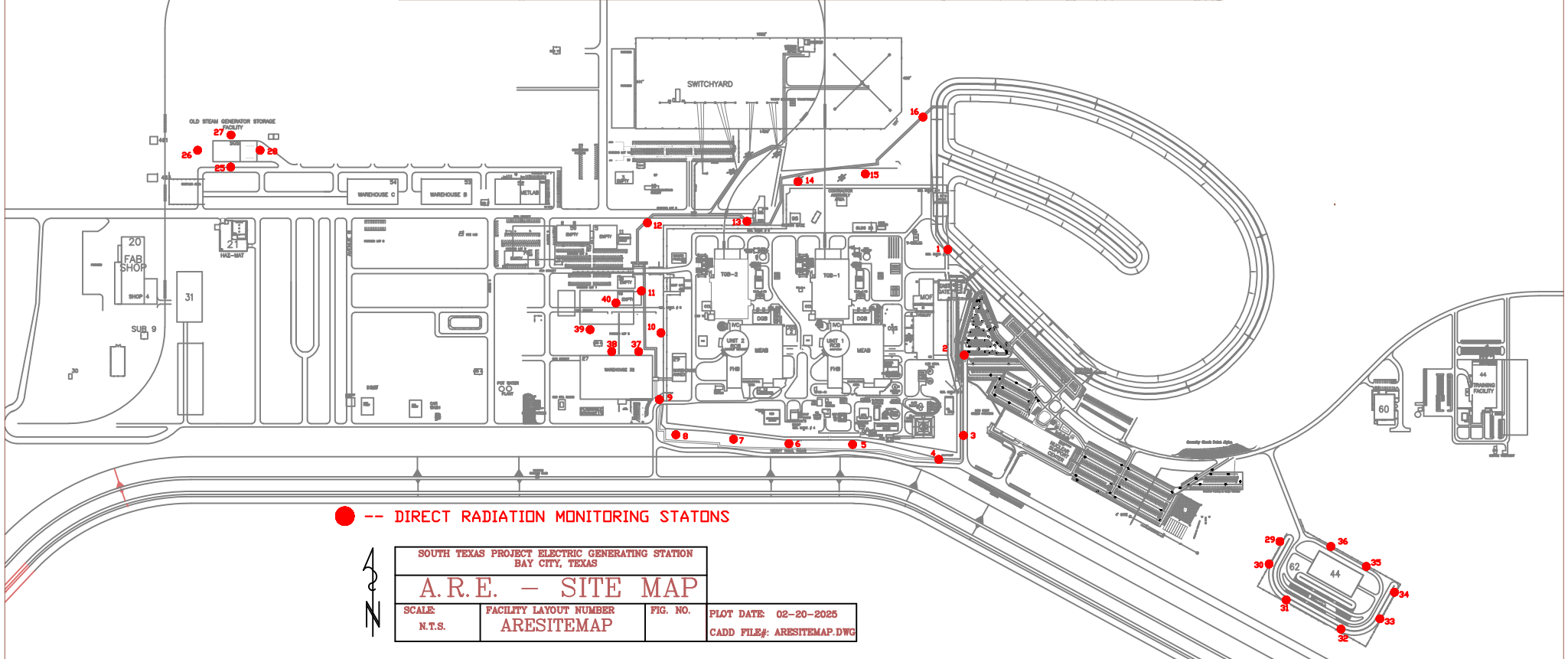
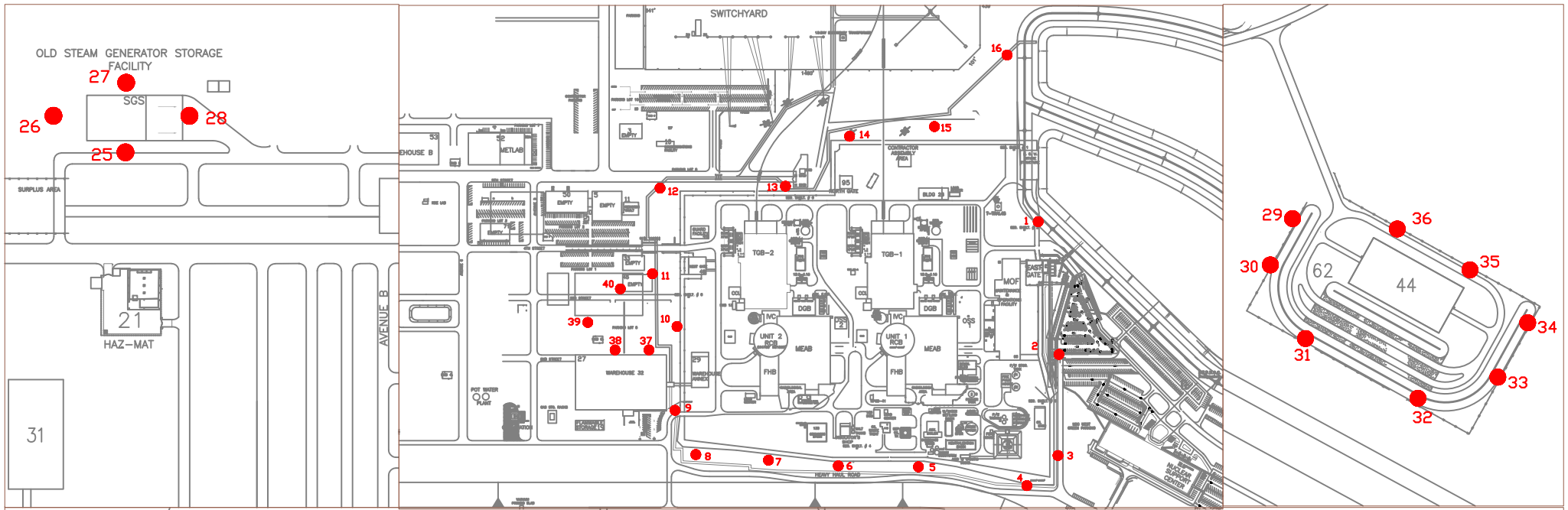
The pre-operational background rate of 15.4 mR at the site boundary in 1986 has been used to reflect the background baseline exposure rate for STP. Historically the exposure rates measured near the protected area fence have been lower than the historical background at the site boundary. However, a few dosimeter stations have at times exceeded this background rate due to radioactive waste shipping activities.

### **Zero:**

Zero (0 or 0.00) indicate measurements at or below background levels.

### **Milliroentgen:**

Milliroentgen or mR is a unit of exposure for X-rays and gamma rays.



## **Meteorological Data Tab**

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## **Joint Frequency Tables**

**Joint Frequency Table**

**From** : 01/01/2025 00:00    **To** : 03/31/2025 23:00

**PRIMARY TOWER**

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**Joint Frequency Table****From** : 01/01/2025 00:00 **To** : 03/31/2025 23:00**PRIMARY TOWER****STABILITY CLASS A**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	1	1	2	3	0	7	2.1%	20.9
NNE	0	0	1	8	6	0	0	0	15	4.5%	11.5
NE	0	0	0	7	3	1	0	0	11	3.3%	12.5
ENE	0	0	0	4	0	0	0	0	4	1.2%	10.0
E	0	0	1	0	1	0	0	0	2	0.6%	10.9
ESE	0	0	0	2	2	10	2	0	16	4.8%	19.7
SE	0	0	0	2	6	5	1	0	14	4.2%	17.3
SSE	0	0	1	12	14	2	1	0	30	9.0%	13.7
S	0	0	6	49	36	4	0	0	95	28.4%	12.4
SSW	0	0	3	22	9	0	0	0	34	10.2%	10.9
SW	0	0	1	3	7	0	0	0	11	3.3%	14.5
WSW	0	0	0	0	2	19	0	0	21	6.3%	19.0
W	0	0	1	0	0	19	0	0	20	6.0%	19.3
WNW	0	1	1	2	2	2	0	0	8	2.4%	12.5
NW	0	0	1	0	6	5	1	0	13	3.9%	19.1
NNW	0	0	3	1	7	20	2	0	33	9.9%	19.2
Total	0	1	19	113	102	89	10	0	334		
% Of Total	0.0%	0.3%	5.7%	33.8%	30.5%	26.6%	3.0%	0.0%			

Average speed for this table (MPH): 14.9  
Hours in above table with variable direction : 0  
Total number of CALMs : 3  
Total number of Invalid hours : 45  
Total number of Valid hours : 2115  
Total number of hours for period : 2160

**Joint Frequency Table****From** : 01/01/2025 00:00 **To** : 03/31/2025 23:00**PRIMARY TOWER****STABILITY CLASS B**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	1	1	3	1	1	0	7	8.9%	15.7
NNE	0	0	0	1	1	1	0	0	3	3.8%	14.5
NE	0	0	1	1	0	0	0	0	2	2.5%	7.4
ENE	0	0	0	0	5	0	0	0	5	6.3%	15.3
E	0	0	0	0	0	0	0	0	0	0.0%	0.0
ESE	0	0	0	1	0	0	0	0	1	1.3%	12.0
SE	0	0	0	2	3	0	0	0	5	6.3%	12.7
SSE	0	0	1	4	2	1	0	0	8	10.1%	11.4
S	0	0	1	3	3	0	0	0	7	8.9%	11.7
SSW	0	0	2	4	0	0	0	0	6	7.6%	8.3
SW	0	0	1	0	0	0	0	0	1	1.3%	6.3
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	1	0	0	1	0	0	2	2.5%	14.1
WNW	0	0	0	0	0	16	0	0	16	20.3%	21.1
NW	0	0	0	1	2	1	0	0	4	5.1%	16.2
NNW	0	0	0	1	3	5	3	0	12	15.2%	21.0
Total	0	0	8	19	22	26	4	0	79		
% Of Total	0.0%	0.0%	10.1%	24.1%	27.8%	32.9%	5.1%	0.0%			

Average speed for this table (MPH): 15.6  
Hours in above table with variable direction : 0  
Total number of CALMs : 3  
Total number of Invalid hours : 45  
Total number of Valid hours : 2115  
Total number of hours for period : 2160

**Joint Frequency Table****From** : 01/01/2025 00:00 **To** : 03/31/2025 23:00**PRIMARY TOWER****STABILITY CLASS C**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	9	1	3	0	13	15.3%	18.8
NNE	0	0	0	1	1	0	0	0	2	2.4%	12.4
NE	0	0	0	0	2	0	0	0	2	2.4%	16.0
ENE	0	0	0	2	1	0	0	0	3	3.5%	11.0
E	0	0	0	1	1	0	0	0	2	2.4%	13.7
ESE	0	0	0	0	1	0	0	0	1	1.2%	15.3
SE	0	0	0	0	5	3	0	0	8	9.4%	18.1
SSE	0	0	0	4	5	0	0	0	9	10.6%	12.2
S	0	0	1	9	2	0	0	0	12	14.1%	10.7
SSW	0	0	1	0	0	0	0	0	1	1.2%	5.2
SW	0	0	0	0	1	0	0	0	1	1.2%	15.4
WSW	0	0	1	0	0	0	0	0	1	1.2%	5.8
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	0	0	0	6	0	0	6	7.1%	21.2
NW	0	0	1	0	2	13	0	0	16	18.8%	19.9
NNW	0	0	0	1	4	2	1	0	8	9.4%	17.9
Total	0	0	4	18	34	25	4	0	85		
% Of Total	0.0%	0.0%	4.7%	21.2%	40.0%	29.4%	4.7%	0.0%			

Average speed for this table (MPH): 16.2  
Hours in above table with variable direction : 0  
Total number of CALMs : 3  
Total number of Invalid hours : 45  
Total number of Valid hours : 2115  
Total number of hours for period : 2160

**Joint Frequency Table**

**From** : 01/01/2025 00:00 **To** : 03/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS D**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	1	1	20	40	27	1	0	90	14.3%	15.9
NNE	0	0	11	46	52	17	0	0	126	20.0%	13.4
NE	0	1	3	33	15	8	0	0	60	9.5%	12.4
ENE	0	0	1	11	12	4	0	0	28	4.5%	13.1
E	0	1	0	3	18	2	0	0	24	3.8%	14.7
ESE	0	0	2	4	12	5	0	0	23	3.7%	15.0
SE	0	0	1	8	23	3	0	0	35	5.6%	14.5
SSE	0	0	2	18	10	3	0	0	33	5.2%	11.8
S	0	0	5	20	7	0	0	0	32	5.1%	9.9
SSW	0	0	5	8	3	0	0	0	16	2.5%	10.1
SW	0	0	1	5	2	0	0	0	8	1.3%	10.9
WSW	0	0	1	0	0	0	0	0	1	0.2%	7.4
W	0	1	0	0	1	0	0	0	2	0.3%	8.3
WNW	0	1	2	2	1	1	0	0	7	1.1%	10.8
NW	0	0	2	5	8	14	0	0	29	4.6%	16.7
NNW	0	0	3	12	24	51	25	0	115	18.3%	20.0
Total	0	5	40	195	228	135	26	0	629		
% Of Total	0.0%	0.8%	6.4%	31.0%	36.2%	21.5%	4.1%	0.0%			

Average speed for this table (MPH): 14.8  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 3  
 Total number of Invalid hours : 45  
 Total number of Valid hours : 2115  
 Total number of hours for period : 2160

**Joint Frequency Table****From** : 01/01/2025 00:00 **To** : 03/31/2025 23:00**PRIMARY TOWER****STABILITY CLASS E**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	1	7	32	7	3	1	0	51	8.7%	10.7
NNE	0	2	12	21	4	0	0	0	39	6.7%	8.4
NE	0	1	7	12	3	0	0	0	23	3.9%	9.2
ENE	0	1	7	17	2	0	0	0	27	4.6%	9.3
E	0	1	7	14	7	0	0	0	29	5.0%	9.4
ESE	0	0	3	16	7	1	0	0	27	4.6%	11.1
SE	0	1	14	47	22	8	1	0	93	16.0%	11.8
SSE	0	1	28	53	23	3	3	0	111	19.0%	10.6
S	0	0	17	37	9	0	0	0	63	10.8%	9.4
SSW	0	2	12	6	0	0	0	0	20	3.4%	6.5
SW	0	1	2	2	1	0	0	0	6	1.0%	8.2
WSW	0	0	2	2	0	0	0	0	4	0.7%	7.3
W	0	0	5	1	0	0	0	0	6	1.0%	5.7
WNW	0	3	5	0	0	0	0	0	8	1.4%	4.1
NW	0	0	9	5	3	0	0	0	17	2.9%	8.7
NNW	0	1	1	23	15	16	3	0	59	10.1%	15.3
Total	0	15	138	288	103	31	8	0	583		
% Of Total	0.0%	2.6%	23.7%	49.4%	17.7%	5.3%	1.4%	0.0%			

Average speed for this table (MPH): 10.5  
Hours in above table with variable direction : 0  
Total number of CALMs : 3  
Total number of Invalid hours : 45  
Total number of Valid hours : 2115  
Total number of hours for period : 2160

**Joint Frequency Table**

**From** : 01/01/2025 00:00 **To** : 03/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS F**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	1	9	4	0	0	0	0	14	8.9%	6.7
NNE	0	0	8	16	0	0	0	0	24	15.3%	8.0
NE	0	2	4	1	0	0	0	0	7	4.5%	5.5
ENE	0	2	2	0	0	0	0	0	4	2.5%	3.6
E	0	4	6	4	0	0	0	0	14	8.9%	5.2
ESE	0	1	5	6	0	0	0	0	12	7.6%	7.0
SE	0	0	10	5	0	0	0	0	15	9.6%	7.1
SSE	0	1	10	4	0	0	0	0	15	9.6%	6.6
S	0	0	7	0	0	0	0	0	7	4.5%	5.9
SSW	0	1	0	0	0	0	0	0	1	0.6%	2.2
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	3	1	0	0	0	0	4	2.5%	5.8
W	0	0	5	0	0	0	0	0	5	3.2%	5.1
WNW	0	4	2	0	0	0	0	0	6	3.8%	4.4
NW	0	0	6	7	1	0	0	0	14	8.9%	7.9
NNW	0	1	9	5	0	0	0	0	15	9.6%	7.0
Total	0	17	86	53	1	0	0	0	157		
% Of Total	0.0%	10.8%	54.8%	33.8%	0.6%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 6.6  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 3  
 Total number of Invalid hours : 45  
 Total number of Valid hours : 2115  
 Total number of hours for period : 2160

**Joint Frequency Table****From** : 01/01/2025 00:00 **To** : 03/31/2025 23:00**PRIMARY TOWER****STABILITY CLASS G**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	3	4	0	0	0	0	0	7	2.8%	4.4
NNE	0	6	12	4	0	0	0	0	22	8.9%	5.1
NE	0	7	11	0	0	0	0	0	18	7.3%	3.8
ENE	1	9	13	2	0	0	0	0	25	10.1%	4.0
E	0	13	26	0	0	0	0	0	39	15.7%	3.8
ESE	1	16	41	5	0	0	0	0	63	25.4%	4.6
SE	0	5	8	0	0	0	0	0	13	5.2%	4.3
SSE	0	0	4	0	0	0	0	0	4	1.6%	5.2
S	0	0	0	0	2	0	0	0	2	0.8%	14.5
SSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
SW	0	2	0	0	0	0	0	0	2	0.8%	2.8
WSW	0	2	1	0	0	0	0	0	3	1.2%	3.2
W	0	2	0	0	0	0	0	0	2	0.8%	1.9
WNW	0	4	14	1	0	0	0	0	19	7.7%	4.6
NW	0	4	10	3	0	0	0	0	17	6.9%	5.7
NNW	1	2	6	3	0	0	0	0	12	4.8%	5.4
Total	3	75	150	18	2	0	0	0	248		
% Of Total	1.2%	30.2%	60.5%	7.3%	0.8%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 4.5  
Hours in above table with variable direction : 0  
Total number of CALMs : 3  
Total number of Invalid hours : 45  
Total number of Valid hours : 2115  
Total number of hours for period : 2160

**Joint Frequency Table**

**From** : 01/01/2025 00:00 **To** : 03/31/2025 23:00

**PRIMARY TOWER**

**ALL STABILITY CLASSES COMBINED**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	6	22	58	60	34	9	0	189	8.9%	13.8
NNE	0	8	44	97	64	18	0	0	231	10.9%	11.1
NE	0	11	26	54	23	9	0	0	123	5.8%	10.1
ENE	1	12	23	36	20	4	0	0	96	4.5%	9.2
E	0	19	40	22	27	2	0	0	110	5.2%	8.2
ESE	1	17	51	34	22	16	2	0	143	6.8%	9.5
SE	0	6	33	64	59	19	2	0	183	8.7%	12.1
SSE	0	2	46	95	54	9	4	0	210	9.9%	10.9
S	0	0	37	118	59	4	0	0	218	10.3%	10.8
SSW	0	3	23	40	12	0	0	0	78	3.7%	9.2
SW	0	3	5	10	11	0	0	0	29	1.4%	11.2
WSW	0	2	8	3	2	19	0	0	34	1.6%	14.0
W	0	3	12	1	1	20	0	0	37	1.7%	13.4
WNW	0	13	24	5	3	25	0	0	70	3.3%	11.2
NW	0	4	29	21	22	33	1	0	110	5.2%	13.4
NNW	1	4	22	46	53	94	34	0	254	12.0%	17.3
Total	3	113	445	704	492	306	52	0	2115		
% Of Total	0.1%	5.3%	21.0%	33.3%	23.3%	14.5%	2.5%	0.0%			

Average speed for this table (MPH): 11.9  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 3  
 Total number of Invalid hours : 45  
 Total number of Valid hours : 2115  
 Total number of hours for period : 2160

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**Joint Frequency Table**

**From** : 04/01/2025 00:00    **To** : 06/30/2025 23:00

**PRIMARY TOWER**

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**Joint Frequency Table****From** : 04/01/2025 00:00 **To** : 06/30/2025 23:00**PRIMARY TOWER****STABILITY CLASS C**

<b>Wind Speed (MPH) -&gt;</b>	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
<b>Sector</b>											
N	0	0	0	0	6	0	0	0	6	7.4%	17.3
NNE	0	0	0	0	0	0	0	0	0	0.0%	0.0
NE	0	0	2	3	1	0	0	0	6	7.4%	10.2
ENE	0	0	0	1	0	0	0	0	1	1.2%	11.6
E	0	0	1	0	1	0	0	0	2	2.5%	11.4
ESE	0	0	2	0	5	2	0	0	9	11.1%	14.6
SE	0	0	0	4	11	5	1	0	21	25.9%	16.9
SSE	0	0	0	7	6	4	2	0	19	23.5%	15.9
S	0	0	0	8	3	0	0	0	11	13.6%	10.9
SSW	0	0	0	1	0	0	0	0	1	1.2%	9.8
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NW	0	0	0	1	0	0	1	0	2	2.5%	19.4
NNW	0	0	0	0	3	0	0	0	3	3.7%	17.2
Total	0	0	5	25	36	11	4	0	81		
% Of Total	0.0%	0.0%	6.2%	30.9%	44.4%	13.6%	4.9%	0.0%			

Average speed for this table (MPH): 14.9  
Hours in above table with variable direction : 0  
Total number of CALMs : 0  
Total number of Invalid hours : 183  
Total number of Valid hours : 2001  
Total number of hours for period : 2184

**Joint Frequency Table****From** : 04/01/2025 00:00 **To** : 06/30/2025 23:00**PRIMARY TOWER****STABILITY CLASS D**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	1	5	6	0	1	0	13	3.4%	13.5
NNE	0	0	4	8	0	0	0	0	12	3.2%	8.4
NE	0	0	3	10	3	0	0	0	16	4.2%	10.0
ENE	0	0	1	5	3	1	0	0	10	2.7%	13.0
E	0	0	2	1	10	4	0	0	17	4.5%	15.0
ESE	0	0	1	8	6	8	1	0	24	6.4%	15.6
SE	0	0	4	19	60	38	4	0	125	33.2%	16.4
SSE	0	0	6	25	42	12	1	0	86	22.8%	14.2
S	0	0	0	23	10	0	0	0	33	8.8%	11.2
SSW	0	1	1	1	0	0	0	0	3	0.8%	5.9
SW	0	0	1	1	0	0	0	0	2	0.5%	7.7
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	0	0	1	0	0	0	1	0.3%	14.2
NW	0	0	2	1	3	0	1	0	7	1.9%	13.4
NNW	0	0	4	1	7	9	7	0	28	7.4%	18.7
Total	0	1	30	108	151	72	15	0	377		
% Of Total	0.0%	0.3%	8.0%	28.6%	40.1%	19.1%	4.0%	0.0%			

Average speed for this table (MPH): 14.6  
Hours in above table with variable direction : 0  
Total number of CALMs : 0  
Total number of Invalid hours : 183  
Total number of Valid hours : 2001  
Total number of hours for period : 2184

**Joint Frequency Table**

**From** : 04/01/2025 00:00 **To** : 06/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS E**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	1	7	5	1	0	0	0	14	2.1%	8.4
NNE	0	0	4	11	4	0	0	0	19	2.9%	9.7
NE	0	3	14	9	4	0	0	0	30	4.6%	7.6
ENE	0	2	13	6	0	0	0	0	21	3.2%	6.5
E	0	0	16	9	4	0	0	0	29	4.4%	8.4
ESE	0	1	19	34	11	3	0	0	68	10.3%	10.4
SE	0	0	24	89	60	13	0	0	186	28.3%	11.7
SSE	0	2	20	112	32	8	0	0	174	26.4%	10.9
S	0	0	15	33	13	0	0	0	61	9.3%	9.7
SSW	0	0	1	0	0	0	0	0	1	0.2%	3.7
SW	0	0	3	1	0	0	0	0	4	0.6%	6.5
WSW	0	0	1	3	0	0	0	0	4	0.6%	7.7
W	0	2	2	0	0	0	0	0	4	0.6%	4.8
WNW	0	1	3	1	0	0	0	0	5	0.8%	6.2
NW	0	1	6	7	1	0	0	0	15	2.3%	8.5
NNW	0	2	6	11	3	1	0	0	23	3.5%	8.9
Total	0	15	154	331	133	25	0	0	658		
% Of Total	0.0%	2.3%	23.4%	50.3%	20.2%	3.8%	0.0%	0.0%			

Average speed for this table (MPH): 10.2  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 183  
 Total number of Valid hours : 2001  
 Total number of hours for period : 2184

**Joint Frequency Table****From** : 04/01/2025 00:00 **To** : 06/30/2025 23:00**PRIMARY TOWER****STABILITY CLASS F**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	2	7	3	0	0	0	0	12	6.7%	6.2
NNE	0	4	3	3	0	0	0	0	10	5.6%	5.5
NE	0	10	8	0	0	0	0	0	18	10.1%	3.8
ENE	0	8	8	0	0	0	0	0	16	8.9%	3.7
E	0	5	9	3	0	0	0	0	17	9.5%	5.0
ESE	0	6	14	0	0	0	0	0	20	11.2%	4.4
SE	0	5	30	2	0	0	0	0	37	20.7%	5.4
SSE	0	1	17	7	0	0	0	0	25	14.0%	7.0
S	0	0	2	0	0	0	0	0	2	1.1%	6.5
SSW	0	1	0	0	0	0	0	0	1	0.6%	3.2
SW	0	0	1	0	0	0	0	0	1	0.6%	4.6
WSW	0	1	0	0	0	0	0	0	1	0.6%	2.7
W	0	1	0	0	0	0	0	0	1	0.6%	3.3
WNW	0	3	0	0	0	0	0	0	3	1.7%	2.7
NW	0	0	7	1	0	0	0	0	8	4.5%	5.4
NNW	0	2	3	2	0	0	0	0	7	3.9%	6.2
Total	0	49	109	21	0	0	0	0	179		
% Of Total	0.0%	27.4%	60.9%	11.7%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 5.2  
Hours in above table with variable direction : 0  
Total number of CALMs : 0  
Total number of Invalid hours : 183  
Total number of Valid hours : 2001  
Total number of hours for period : 2184

**Joint Frequency Table****From** : 04/01/2025 00:00 **To** : 06/30/2025 23:00**PRIMARY TOWER****STABILITY CLASS G**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	3	3	2	0	0	0	0	8	5.1%	5.5
NNE	0	3	4	2	0	0	0	0	9	5.7%	5.1
NE	0	6	4	0	0	0	0	0	10	6.3%	3.7
ENE	0	11	3	1	0	0	0	0	15	9.5%	3.1
E	0	19	1	0	0	0	0	0	20	12.7%	2.4
ESE	0	25	8	0	0	0	0	0	33	20.9%	3.2
SE	0	9	19	0	0	0	0	0	28	17.7%	4.2
SSE	0	0	9	0	0	0	0	0	9	5.7%	5.7
S	0	0	0	0	0	0	0	0	0	0.0%	0.0
SSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	2	0	0	0	0	0	0	2	1.3%	2.8
WNW	0	2	2	0	0	0	0	0	4	2.5%	3.9
NW	0	2	8	0	0	0	0	0	10	6.3%	5.3
NNW	0	5	5	0	0	0	0	0	10	6.3%	3.5
Total	0	87	66	5	0	0	0	0	158		
% Of Total	0.0%	55.1%	41.8%	3.2%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 3.8  
Hours in above table with variable direction : 0  
Total number of CALMs : 0  
Total number of Invalid hours : 183  
Total number of Valid hours : 2001  
Total number of hours for period : 2184

Second Quarter 2025

Joint Frequency Tables

**Joint Frequency Table****From** : 04/01/2025 00:00 **To** : 06/30/2025 23:00**PRIMARY TOWER****ALL STABILITY CLASSES COMBINED**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	6	20	18	15	0	1	0	60	3.0%	9.7
NNE	0	7	15	24	4	0	0	0	50	2.5%	7.7
NE	0	19	33	23	8	0	0	0	83	4.1%	6.9
ENE	0	21	25	16	4	1	0	0	67	3.3%	6.4
E	0	24	29	15	21	4	0	0	93	4.6%	8.2
ESE	0	32	48	51	28	24	1	0	184	9.2%	9.9
SE	0	14	78	128	222	93	11	0	546	27.3%	13.6
SSE	0	3	53	168	146	53	11	0	434	21.7%	13.1
S	0	0	27	157	95	1	0	0	280	14.0%	11.4
SSW	0	2	8	6	0	0	0	0	16	0.8%	6.9
SW	0	0	7	3	0	0	0	0	10	0.5%	6.7
WSW	0	1	1	3	0	0	0	0	5	0.2%	6.7
W	0	5	2	0	0	0	0	0	7	0.3%	4.0
WNW	0	6	9	6	1	0	0	0	22	1.1%	6.4
NW	0	3	23	14	6	2	4	0	52	2.6%	10.0
NNW	0	9	19	17	22	15	10	0	92	4.6%	13.3
Total	0	152	397	649	572	193	38	0	2001		
% Of Total	0.0%	7.6%	19.8%	32.4%	28.6%	9.6%	1.9%	0.0%			

Average speed for this table (MPH): 11.5  
Hours in above table with variable direction : 0  
Total number of CALMs : 0  
Total number of Invalid hours : 183  
Total number of Valid hours : 2001  
Total number of hours for period : 2184

**Joint Frequency Table**

**From** : 07/01/2025 00:00    **To** : 09/30/2025 23:00

**PRIMARY TOWER**

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**Joint Frequency Table****From** : 07/01/2025 00:00 **To** : 09/30/2025 23:00**PRIMARY TOWER****STABILITY CLASS A**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNE	0	0	1	2	0	0	0	0	3	0.6%	8.7
NE	0	0	5	6	0	0	0	0	11	2.3%	8.5
ENE	0	0	5	7	1	0	0	0	13	2.7%	8.6
E	0	0	2	4	7	0	0	0	13	2.7%	12.1
ESE	0	0	8	10	22	8	0	0	48	10.0%	13.4
SE	0	0	3	17	35	1	0	0	56	11.7%	13.4
SSE	0	0	4	41	46	0	0	0	91	19.0%	12.5
S	0	0	16	114	25	0	0	0	155	32.4%	10.4
SSW	0	0	19	20	1	0	0	0	40	8.4%	8.0
SW	0	1	12	5	0	0	0	0	18	3.8%	6.5
WSW	0	0	7	3	0	0	0	0	10	2.1%	6.2
W	0	0	5	1	0	0	0	0	6	1.3%	5.6
WNW	0	1	3	0	1	0	0	0	5	1.0%	7.4
NW	0	0	3	1	0	0	0	0	4	0.8%	6.5
NNW	0	0	4	2	0	0	0	0	6	1.3%	6.4
Total	0	2	97	233	138	9	0	0	479		
% Of Total	0.0%	0.4%	20.3%	48.6%	28.8%	1.9%	0.0%	0.0%			

Average speed for this table (MPH): 10.8  
Hours in above table with variable direction : 0  
Total number of CALMs : 0  
Total number of Invalid hours : 29  
Total number of Valid hours : 2179  
Total number of hours for period : 2208

Third Quarter 2025

Joint Frequency Tables

**Joint Frequency Table****From** : 07/01/2025 00:00 **To** : 09/30/2025 23:00**PRIMARY TOWER****STABILITY CLASS B**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	3	1	0	0	0	0	4	3.8%	6.9
NNE	0	0	4	2	0	0	0	0	6	5.7%	7.8
NE	0	0	3	7	0	0	0	0	10	9.5%	8.8
ENE	0	0	4	4	0	0	0	0	8	7.6%	7.5
E	0	0	2	4	1	0	0	0	7	6.7%	9.3
ESE	0	0	2	1	7	1	0	0	11	10.5%	14.4
SE	0	0	2	2	11	0	0	0	15	14.3%	13.1
SSE	0	0	0	9	10	0	0	0	19	18.1%	12.5
S	0	0	1	13	0	0	0	0	14	13.3%	9.4
SSW	0	1	1	2	0	0	0	0	4	3.8%	6.9
SW	0	0	1	0	0	0	0	0	1	1.0%	5.6
WSW	0	0	1	0	0	0	0	0	1	1.0%	6.5
W	0	1	0	0	0	0	0	0	1	1.0%	3.0
WNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NW	0	0	3	0	0	0	0	0	3	2.9%	6.1
NNW	0	0	1	0	0	0	0	0	1	1.0%	6.6
Total	0	2	28	45	29	1	0	0	105		
% Of Total	0.0%	1.9%	26.7%	42.9%	27.6%	1.0%	0.0%	0.0%			

Average speed for this table (MPH): 10.3  
Hours in above table with variable direction : 0  
Total number of CALMs : 0  
Total number of Invalid hours : 29  
Total number of Valid hours : 2179  
Total number of hours for period : 2208



**Joint Frequency Table**

**From** : 07/01/2025 00:00 **To** : 09/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS D**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	3	5	1	0	0	0	9	3.7%	8.2
NNE	0	1	11	21	0	1	0	0	34	13.9%	8.3
NE	0	0	14	15	1	0	0	0	30	12.2%	8.1
ENE	0	1	11	4	0	0	0	0	16	6.5%	6.1
E	0	2	3	1	2	0	0	0	8	3.3%	8.1
ESE	0	0	2	8	10	0	0	0	20	8.2%	12.2
SE	0	0	1	13	31	0	0	0	45	18.4%	13.0
SSE	0	1	5	21	11	0	0	0	38	15.5%	10.5
S	0	0	5	12	2	0	0	0	19	7.8%	9.0
SSW	0	0	2	3	0	0	0	0	5	2.0%	7.8
SW	0	1	2	3	0	0	0	0	6	2.4%	7.5
WSW	0	1	0	1	0	0	0	0	2	0.8%	5.7
W	0	0	2	1	0	0	0	0	3	1.2%	5.7
WNW	0	0	0	1	0	0	0	0	1	0.4%	7.7
NW	0	2	2	2	0	0	0	0	6	2.4%	6.1
NNW	0	0	3	0	0	0	0	0	3	1.2%	5.6
Total	0	9	66	111	58	1	0	0	245		
% Of Total	0.0%	3.7%	26.9%	45.3%	23.7%	0.4%	0.0%	0.0%			

Average speed for this table (MPH): 9.5  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 29  
 Total number of Valid hours : 2179  
 Total number of hours for period : 2208

Third Quarter 2025

Joint Frequency Tables

**Joint Frequency Table****From** : 07/01/2025 00:00 **To** : 09/30/2025 23:00**PRIMARY TOWER****STABILITY CLASS E**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	1	14	3	0	0	0	0	18	3.7%	5.7
NNE	0	2	23	15	0	0	0	0	40	8.3%	6.8
NE	0	4	13	8	0	0	0	0	25	5.2%	6.1
ENE	0	2	11	1	0	0	0	0	14	2.9%	4.8
E	0	2	6	2	1	0	0	0	11	2.3%	7.2
ESE	0	1	4	16	0	0	0	0	21	4.4%	8.2
SE	0	2	19	49	0	0	0	0	70	14.6%	8.1
SSE	0	0	32	88	7	0	0	0	127	26.4%	9.0
S	0	0	37	45	0	0	0	0	82	17.0%	7.7
SSW	0	1	9	16	0	0	0	0	26	5.4%	7.4
SW	0	1	5	6	0	0	0	0	12	2.5%	7.1
WSW	0	0	2	1	0	0	0	0	3	0.6%	5.8
W	0	2	6	0	0	0	0	0	8	1.7%	5.1
WNW	0	1	9	0	0	0	0	0	10	2.1%	4.8
NW	0	0	3	0	1	0	0	0	4	0.8%	8.0
NNW	0	1	7	1	0	1	0	0	10	2.1%	7.0
Total	0	20	200	251	9	1	0	0	481		
% Of Total	0.0%	4.2%	41.6%	52.2%	1.9%	0.2%	0.0%	0.0%			

Average speed for this table (MPH): 7.6  
Hours in above table with variable direction : 0  
Total number of CALMs : 0  
Total number of Invalid hours : 29  
Total number of Valid hours : 2179  
Total number of hours for period : 2208

**Joint Frequency Table**

**From** : 07/01/2025 00:00 **To** : 09/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS F**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	7	7	2	0	0	0	0	16	4.9%	4.5
NNE	0	13	15	0	0	0	0	0	28	8.6%	4.2
NE	0	12	8	0	0	0	0	0	20	6.1%	3.7
ENE	0	9	2	0	0	0	0	0	11	3.4%	3.3
E	0	10	15	1	0	0	0	0	26	8.0%	4.0
ESE	0	10	28	3	0	0	0	0	41	12.6%	4.9
SE	0	5	65	7	0	0	0	0	77	23.6%	5.6
SSE	0	2	51	10	0	0	0	0	63	19.3%	5.9
S	0	1	12	2	0	0	0	0	15	4.6%	5.6
SSW	0	0	3	0	0	0	0	0	3	0.9%	6.0
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	3	0	0	0	0	0	3	0.9%	4.7
W	0	0	2	0	0	0	0	0	2	0.6%	5.5
WNW	0	1	3	0	0	0	0	0	4	1.2%	3.9
NW	0	1	5	0	0	0	0	0	6	1.8%	4.2
NNW	0	4	7	0	0	0	0	0	11	3.4%	4.0
Total	0	75	226	25	0	0	0	0	326		
% Of Total	0.0%	23.0%	69.3%	7.7%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 5.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 29  
 Total number of Valid hours : 2179  
 Total number of hours for period : 2208

**Joint Frequency Table**

**From** : 07/01/2025 00:00 **To** : 09/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS G**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	21	11	2	0	0	0	0	34	7.4%	3.7
NNE	0	42	37	7	0	0	0	0	86	18.7%	4.0
NE	0	48	11	0	0	0	0	0	59	12.9%	2.9
ENE	0	39	12	1	0	0	0	0	52	11.3%	3.1
E	0	45	11	2	0	0	0	0	58	12.6%	3.1
ESE	0	36	19	0	0	0	0	0	55	12.0%	3.2
SE	0	21	28	0	0	0	0	0	49	10.7%	3.6
SSE	0	2	6	0	0	0	0	0	8	1.7%	4.1
S	0	0	0	0	0	0	0	0	0	0.0%	0.0
SSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	2	3	0	0	0	0	0	5	1.1%	3.7
NW	0	6	17	0	0	0	0	0	23	5.0%	4.4
NNW	0	18	12	0	0	0	0	0	30	6.5%	3.4
Total	0	280	167	12	0	0	0	0	459		
% Of Total	0.0%	61.0%	36.4%	2.6%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 3.5  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 29  
 Total number of Valid hours : 2179  
 Total number of hours for period : 2208

Third Quarter 2025

Joint Frequency Tables

**Joint Frequency Table****From** : 07/01/2025 00:00 **To** : 09/30/2025 23:00**PRIMARY TOWER****ALL STABILITY CLASSES COMBINED**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	29	39	14	1	0	0	0	83	3.8%	5.1
NNE	0	58	92	51	0	1	0	0	202	9.3%	5.6
NE	0	64	55	48	3	0	0	0	170	7.8%	5.7
ENE	0	51	47	19	1	0	0	0	118	5.4%	4.8
E	0	59	41	14	13	0	0	0	127	5.8%	5.4
ESE	0	47	64	38	42	9	0	0	200	9.2%	8.3
SE	0	29	120	92	84	1	0	0	326	15.0%	8.8
SSE	0	5	98	175	79	0	0	0	357	16.4%	9.7
S	0	1	74	197	27	0	0	0	299	13.7%	9.2
SSW	0	2	36	42	1	0	0	0	81	3.7%	7.7
SW	0	3	20	15	0	0	0	0	38	1.7%	6.9
WSW	0	1	13	6	0	0	0	0	20	0.9%	6.1
W	0	3	15	3	0	0	0	0	21	1.0%	5.4
WNW	0	5	19	1	1	0	0	0	26	1.2%	5.0
NW	0	10	33	5	1	0	0	0	49	2.2%	5.3
NNW	0	23	34	4	0	1	0	0	62	2.8%	4.6
Total	0	390	800	724	253	12	0	0	2179		
% Of Total	0.0%	17.9%	36.7%	33.2%	11.6%	0.6%	0.0%	0.0%			

Average speed for this table (MPH): 7.5  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 29  
 Total number of Valid hours : 2179  
 Total number of hours for period : 2208

**Joint Frequency Table**

**From** : 10/01/2025 00:00    **To** : 12/31/2025 23:00

**PRIMARY TOWER**

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**Joint Frequency Table**

**From** : 10/01/2025 00:00 **To** : 12/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS A**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	1	1	2	1	0	0	5	1.4%	13.6
NNE	0	0	1	0	0	0	0	0	1	0.3%	6.1
NE	0	0	4	6	6	0	0	0	16	4.4%	10.7
ENE	0	0	10	5	7	0	0	0	22	6.0%	9.7
E	0	0	3	5	1	0	1	0	10	2.7%	11.8
ESE	0	0	0	9	13	9	1	0	32	8.8%	15.6
SE	0	0	0	10	17	2	0	0	29	7.9%	14.2
SSE	0	0	3	22	33	1	0	0	59	16.2%	12.5
S	0	0	6	67	13	0	0	0	86	23.6%	10.7
SSW	0	0	6	40	3	0	0	0	49	13.4%	9.7
SW	0	1	0	17	0	0	0	0	18	4.9%	9.9
WSW	0	0	0	1	0	0	0	0	1	0.3%	11.7
W	0	0	1	0	0	0	0	0	1	0.3%	4.4
WNW	0	0	4	0	0	0	0	0	4	1.1%	5.8
NW	0	0	2	7	0	1	5	0	15	4.1%	15.4
NNW	0	0	1	8	8	0	0	0	17	4.7%	11.9
Total	0	1	42	198	103	14	7	0	365		
% Of Total	0.0%	0.3%	11.5%	54.2%	28.2%	3.8%	1.9%	0.0%			

Average speed for this table (MPH): 11.7  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 1  
 Total number of Invalid hours : 3  
 Total number of Valid hours : 2205  
 Total number of hours for period : 2208

**Joint Frequency Table**

**From** : 10/01/2025 00:00 **To** : 12/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS B**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	2	1	0	3	3.8%	23.9
NNE	0	0	0	3	2	1	0	0	6	7.5%	13.6
NE	0	0	3	5	1	0	0	0	9	11.3%	9.9
ENE	0	0	1	2	6	0	0	0	9	11.3%	12.9
E	0	0	0	0	2	1	0	0	3	3.8%	14.9
ESE	0	0	0	0	2	1	1	0	4	5.0%	18.6
SE	0	0	0	3	4	0	0	0	7	8.8%	13.1
SSE	0	0	2	5	9	0	0	0	16	20.0%	12.4
S	0	0	1	7	0	0	0	0	8	10.0%	8.7
SSW	0	0	2	2	0	0	0	0	4	5.0%	8.0
SW	0	0	1	2	0	0	0	0	3	3.8%	7.8
WSW	0	0	0	1	0	0	0	0	1	1.3%	8.4
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NW	0	0	2	0	1	1	0	0	4	5.0%	13.1
NNW	0	0	0	2	1	0	0	0	3	3.8%	11.1
Total	0	0	12	32	28	6	2	0	80		
% Of Total	0.0%	0.0%	15.0%	40.0%	35.0%	7.5%	2.5%	0.0%			

Average speed for this table (MPH): 12.3  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 1  
 Total number of Invalid hours : 3  
 Total number of Valid hours : 2205  
 Total number of hours for period : 2208

**Joint Frequency Table****From** : 10/01/2025 00:00 **To** : 12/31/2025 23:00**PRIMARY TOWER****STABILITY CLASS C**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	1	2	1	1	1	0	6	7.7%	14.8
NNE	0	0	0	1	4	1	0	0	6	7.7%	15.9
NE	0	0	1	5	4	0	0	0	10	12.8%	11.1
ENE	0	0	2	2	1	0	0	0	5	6.4%	9.7
E	0	0	1	2	1	0	0	0	4	5.1%	10.9
ESE	0	0	0	1	6	1	0	0	8	10.3%	15.3
SE	0	0	0	4	7	2	0	0	13	16.7%	14.2
SSE	0	0	1	1	4	1	0	0	7	9.0%	12.4
S	0	0	1	5	1	0	0	0	7	9.0%	10.2
SSW	0	0	1	2	0	0	0	0	3	3.8%	8.2
SW	0	0	2	1	0	0	0	0	3	3.8%	6.0
WSW	0	0	1	0	0	0	0	0	1	1.3%	6.0
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NW	0	0	1	1	0	0	0	0	2	2.6%	6.2
NNW	0	0	0	2	1	0	0	0	3	3.8%	10.1
Total	0	0	12	29	30	6	1	0	78		
% Of Total	0.0%	0.0%	15.4%	37.2%	38.5%	7.7%	1.3%	0.0%			

Average speed for this table (MPH): 12.1  
Hours in above table with variable direction : 0  
Total number of CALMs : 1  
Total number of Invalid hours : 3  
Total number of Valid hours : 2205  
Total number of hours for period : 2208

**Joint Frequency Table**

**From** : 10/01/2025 00:00 **To** : 12/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS D**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	3	9	27	18	5	0	62	16.9%	16.9
NNE	0	0	8	17	20	3	7	0	55	15.0%	14.0
NE	0	0	8	15	10	1	0	0	34	9.3%	10.5
ENE	0	0	6	9	8	0	0	0	23	6.3%	11.0
E	0	1	6	9	12	0	0	0	28	7.7%	10.9
ESE	0	0	3	10	9	3	0	0	25	6.8%	12.6
SE	0	0	1	18	7	1	0	0	27	7.4%	11.7
SSE	0	0	1	12	13	1	0	0	27	7.4%	12.7
S	0	1	5	9	2	0	0	0	17	4.6%	8.3
SSW	0	0	4	1	0	0	0	0	5	1.4%	7.0
SW	0	0	0	0	1	0	0	0	1	0.3%	12.8
WSW	0	0	1	0	0	0	0	0	1	0.3%	6.4
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	1	2	2	0	0	0	0	5	1.4%	5.5
NW	0	1	3	1	0	1	0	0	6	1.6%	8.3
NNW	0	0	4	6	20	17	3	0	50	13.7%	16.5
Total	0	4	55	118	129	45	15	0	366		
% Of Total	0.0%	1.1%	15.0%	32.2%	35.2%	12.3%	4.1%	0.0%			

Average speed for this table (MPH): 13.1  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 1  
 Total number of Invalid hours : 3  
 Total number of Valid hours : 2205  
 Total number of hours for period : 2208

**Joint Frequency Table****From** : 10/01/2025 00:00 **To** : 12/31/2025 23:00**PRIMARY TOWER****STABILITY CLASS E**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	9	5	18	2	1	0	35	6.5%	12.7
NNE	0	3	11	22	7	0	0	0	43	8.0%	9.4
NE	0	0	10	22	3	0	0	0	35	6.5%	9.3
ENE	0	0	14	9	0	0	0	0	23	4.3%	6.8
E	0	3	16	23	2	0	0	0	44	8.2%	8.0
ESE	0	1	13	18	7	4	0	0	43	8.0%	10.1
SE	0	4	17	46	13	9	0	0	89	16.6%	10.6
SSE	0	1	29	48	11	0	0	0	89	16.6%	9.0
S	0	3	23	22	1	0	0	0	49	9.2%	7.6
SSW	0	1	12	4	0	0	0	0	17	3.2%	6.4
SW	0	1	4	2	0	0	0	0	7	1.3%	5.9
WSW	0	1	4	0	0	0	0	0	5	0.9%	5.0
W	0	0	1	0	0	0	0	0	1	0.2%	6.4
WNW	0	2	1	1	0	0	0	0	4	0.7%	4.7
NW	0	0	4	1	1	0	0	0	6	1.1%	6.7
NNW	0	2	7	9	9	16	2	0	45	8.4%	14.7
Total	0	22	175	232	72	31	3	0	535		
% Of Total	0.0%	4.1%	32.7%	43.4%	13.5%	5.8%	0.6%	0.0%			

Average speed for this table (MPH): 9.6  
Hours in above table with variable direction : 0  
Total number of CALMs : 1  
Total number of Invalid hours : 3  
Total number of Valid hours : 2205  
Total number of hours for period : 2208

**Joint Frequency Table**

**From** : 10/01/2025 00:00 **To** : 12/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS F**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	3	9	5	1	0	0	0	18	6.6%	6.7
NNE	0	1	18	28	0	0	0	0	47	17.2%	8.1
NE	0	4	12	2	0	0	0	0	18	6.6%	5.0
ENE	0	7	14	0	0	0	0	0	21	7.7%	4.6
E	0	5	16	3	0	0	0	0	24	8.8%	5.2
ESE	0	2	31	6	0	0	0	0	39	14.3%	6.0
SE	0	2	27	6	0	0	0	0	35	12.8%	6.3
SSE	0	2	23	4	0	0	0	0	29	10.6%	5.9
S	0	0	17	0	0	0	0	0	17	6.2%	5.3
SSW	0	0	6	1	0	0	0	0	7	2.6%	6.4
SW	0	0	1	1	0	0	0	0	2	0.7%	6.7
WSW	0	1	0	0	0	0	0	0	1	0.4%	2.4
W	0	0	1	0	0	0	0	0	1	0.4%	5.2
WNW	0	0	1	0	0	0	0	0	1	0.4%	6.1
NW	0	1	5	0	0	0	0	0	6	2.2%	4.7
NNW	0	1	3	2	0	1	0	0	7	2.6%	8.4
Total	0	29	184	58	1	1	0	0	273		
% Of Total	0.0%	10.6%	67.4%	21.2%	0.4%	0.4%	0.0%	0.0%			

Average speed for this table (MPH): 6.2  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 1  
 Total number of Invalid hours : 3  
 Total number of Valid hours : 2205  
 Total number of hours for period : 2208

**Joint Frequency Table**

**From** : 10/01/2025 00:00 **To** : 12/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS G**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	1	12	25	1	0	0	0	0	39	7.7%	3.8
NNE	0	17	53	4	0	0	0	0	74	14.6%	4.6
NE	0	36	38	0	0	0	0	0	74	14.6%	3.8
ENE	0	62	24	0	0	0	0	0	86	16.9%	3.2
E	0	30	27	0	0	0	0	0	57	11.2%	3.6
ESE	0	19	29	0	0	0	0	0	48	9.4%	3.8
SE	0	12	38	3	0	0	0	0	53	10.4%	4.7
SSE	0	2	17	2	0	0	0	0	21	4.1%	5.3
S	0	0	5	0	0	0	0	0	5	1.0%	5.0
SSW	0	1	0	0	0	0	0	0	1	0.2%	2.1
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	1	0	0	0	0	0	1	0.2%	4.4
WNW	0	3	8	1	0	0	0	0	12	2.4%	4.9
NW	0	6	5	4	0	0	0	0	15	3.0%	4.7
NNW	0	13	9	0	0	0	0	0	22	4.3%	3.2
Total	1	213	279	15	0	0	0	0	508		
% Of Total	0.2%	41.9%	54.9%	3.0%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 4.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 1  
 Total number of Invalid hours : 3  
 Total number of Valid hours : 2205  
 Total number of hours for period : 2208

**Joint Frequency Table**

**From** : 10/01/2025 00:00 **To** : 12/31/2025 23:00

**PRIMARY TOWER**

**ALL STABILITY CLASSES COMBINED**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	1	15	48	23	49	24	8	0	168	7.6%	11.8
NNE	0	21	91	75	33	5	7	0	232	10.5%	9.0
NE	0	40	76	55	24	1	0	0	196	8.9%	7.2
ENE	0	69	71	27	22	0	0	0	189	8.6%	6.1
E	0	39	69	42	18	1	1	0	170	7.7%	7.0
ESE	0	22	76	44	37	18	2	0	199	9.0%	9.3
SE	0	18	83	90	48	14	0	0	253	11.5%	9.5
SSE	0	5	76	94	70	3	0	0	248	11.2%	9.9
S	0	4	58	110	17	0	0	0	189	8.6%	8.9
SSW	0	2	31	50	3	0	0	0	86	3.9%	8.4
SW	0	2	8	23	1	0	0	0	34	1.5%	8.4
WSW	0	2	6	2	0	0	0	0	10	0.5%	6.0
W	0	0	4	0	0	0	0	0	4	0.2%	5.1
WNW	0	6	16	4	0	0	0	0	26	1.2%	5.1
NW	0	8	22	14	2	3	5	0	54	2.4%	9.0
NNW	0	16	24	29	39	34	5	0	147	6.7%	12.8
Total	1	269	759	682	363	103	28	0	2205		
% Of Total	0.0%	12.2%	34.4%	30.9%	16.5%	4.7%	1.3%	0.0%			

Average speed for this table (MPH): 9.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 1  
 Total number of Invalid hours : 3  
 Total number of Valid hours : 2205  
 Total number of hours for period : 2208

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**Joint Frequency Table - Batch Release Hours**

**From** : 01/01/2025 00:00    **To** : 03/31/2025 23:00

**PRIMARY TOWER**

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**Joint Frequency Table - Batch Release Hours**

**From** : 01/01/2025 00:00 **To** : 03/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS A**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****			

Average speed for this table (MPH): 0.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 0  
 Total number of hours for period : 0

**Joint Frequency Table - Batch Release Hours**

**From** : 01/01/2025 00:00 **To** : 03/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS B**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****	*****		

Average speed for this table (MPH): 0.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 0  
 Total number of hours for period : 0

**Joint Frequency Table - Batch Release Hours**

**From** : 01/01/2025 00:00 **To** : 03/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS C**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****	*****		

Average speed for this table (MPH): 0.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 0  
 Total number of hours for period : 0

**Joint Frequency Table - Batch Release Hours**

**From** : 01/01/2025 00:00 **To** : 03/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS D**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****			

Average speed for this table (MPH): 0.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 0  
 Total number of hours for period : 0

**Joint Frequency Table - Batch Release Hours**

**From** : 01/01/2025 00:00 **To** : 03/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS E**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****			

Average speed for this table (MPH): 0.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 0  
 Total number of hours for period : 0

**Joint Frequency Table - Batch Release Hours**

**From** : 01/01/2025 00:00 **To** : 03/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS F**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****			

Average speed for this table (MPH): 0.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 0  
 Total number of hours for period : 0

**Joint Frequency Table - Batch Release Hours**

**From** : 01/01/2025 00:00 **To** : 03/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS G**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****	*****		

Average speed for this table (MPH): 0.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 0  
 Total number of hours for period : 0

**Joint Frequency Table - Batch Release Hours**

**From** : 01/01/2025 00:00 **To** : 03/31/2025 23:00

**PRIMARY TOWER**

**ALL STABILITY CLASSES COMBINED**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****			

Average speed for this table (MPH):

Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 0  
 Total number of hours for period : 0

**Joint Frequency Table - Batch Release Hours****From** : 01/01/2025 00:00    **To** : 03/31/2025 23:00**PRIMARY TOWER**

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The following periods represent times during which the release rates from one of the units was significantly higher than normal (> 30 uCi/s). Consequently, these meteorological data are submitted as batch release periods .

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**Joint Frequency Table - Batch Release Hours**

**From** : 04/01/2025 00:00    **To** : 06/30/2025 23:00

**PRIMARY TOWER**

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**Joint Frequency Table - Batch Release Hours**

**From** : 04/01/2025 00:00 **To** : 06/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS A**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNE	0	0	0	0	0	0	0	0	0	0.0%	0.0
NE	0	0	0	0	0	0	0	0	0	0.0%	0.0
ENE	0	0	0	0	0	0	0	0	0	0.0%	0.0
E	0	0	0	0	0	0	0	0	0	0.0%	0.0
ESE	0	0	0	0	0	1	0	0	1	16.7%	19.6
SE	0	0	0	0	3	2	0	0	5	83.3%	18.2
SSE	0	0	0	0	0	0	0	0	0	0.0%	0.0
S	0	0	0	0	0	0	0	0	0	0.0%	0.0
SSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
Total	0	0	0	0	3	3	0	0	6		
% Of Total	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	0.0%			

Average speed for this table (MPH): 18.5  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 4  
 Total number of Valid hours : 31  
 Total number of hours for period : 35

**Joint Frequency Table - Batch Release Hours**

**From** : 04/01/2025 00:00 **To** : 06/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS B**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNE	0	0	0	0	0	0	0	0	0	0.0%	0.0
NE	0	0	0	0	0	0	0	0	0	0.0%	0.0
ENE	0	0	0	0	0	0	0	0	0	0.0%	0.0
E	0	0	0	0	0	0	0	0	0	0.0%	0.0
ESE	0	0	0	0	0	0	0	0	0	0.0%	0.0
SE	0	0	0	0	1	0	0	0	1	50.0%	16.4
SSE	0	0	0	0	1	0	0	0	1	50.0%	16.5
S	0	0	0	0	0	0	0	0	0	0.0%	0.0
SSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
Total	0	0	0	0	2	0	0	0	2		
% Of Total	0.0%	0.0%	0.0%	0.0%	100%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 16.5  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 4  
 Total number of Valid hours : 31  
 Total number of hours for period : 35

**Joint Frequency Table - Batch Release Hours**

**From** : 04/01/2025 00:00 **To** : 06/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS C**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNE	0	0	0	0	0	0	0	0	0	0.0%	0.0
NE	0	0	0	0	0	0	0	0	0	0.0%	0.0
ENE	0	0	0	0	0	0	0	0	0	0.0%	0.0
E	0	0	0	0	0	0	0	0	0	0.0%	0.0
ESE	0	0	0	0	1	0	0	0	1	50.0%	17.0
SE	0	0	0	0	1	0	0	0	1	50.0%	16.3
SSE	0	0	0	0	0	0	0	0	0	0.0%	0.0
S	0	0	0	0	0	0	0	0	0	0.0%	0.0
SSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
Total	0	0	0	0	2	0	0	0	2		
% Of Total	0.0%	0.0%	0.0%	0.0%	100%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 16.7  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 4  
 Total number of Valid hours : 31  
 Total number of hours for period : 35

**Joint Frequency Table - Batch Release Hours**

**From** : 04/01/2025 00:00 **To** : 06/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS D**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNE	0	0	0	0	0	0	0	0	0	0.0%	0.0
NE	0	0	0	0	0	0	0	0	0	0.0%	0.0
ENE	0	0	0	0	0	0	0	0	0	0.0%	0.0
E	0	0	0	0	0	0	0	0	0	0.0%	0.0
ESE	0	0	0	0	0	0	0	0	0	0.0%	0.0
SE	0	0	0	1	1	0	0	0	2	100%	12.1
SSE	0	0	0	0	0	0	0	0	0	0.0%	0.0
S	0	0	0	0	0	0	0	0	0	0.0%	0.0
SSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
Total	0	0	0	1	1	0	0	0	2		
% Of Total	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 12.1  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 4  
 Total number of Valid hours : 31  
 Total number of hours for period : 35

**Joint Frequency Table - Batch Release Hours**

**From** : 04/01/2025 00:00 **To** : 06/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS E**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNE	0	0	0	0	0	0	0	0	0	0.0%	0.0
NE	0	0	0	0	0	0	0	0	0	0.0%	0.0
ENE	0	0	0	0	0	0	0	0	0	0.0%	0.0
E	0	0	0	0	0	0	0	0	0	0.0%	0.0
ESE	0	0	1	6	0	0	0	0	7	58.3%	10.3
SE	0	0	0	5	0	0	0	0	5	41.7%	9.3
SSE	0	0	0	0	0	0	0	0	0	0.0%	0.0
S	0	0	0	0	0	0	0	0	0	0.0%	0.0
SSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
Total	0	0	1	11	0	0	0	0	12		
% Of Total	0.0%	0.0%	8.3%	91.7%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 9.9  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 4  
 Total number of Valid hours : 31  
 Total number of hours for period : 35

**Joint Frequency Table - Batch Release Hours**

**From** : 04/01/2025 00:00 **To** : 06/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS F**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNE	0	0	0	0	0	0	0	0	0	0.0%	0.0
NE	0	1	0	0	0	0	0	0	1	14.3%	2.9
ENE	0	0	0	0	0	0	0	0	0	0.0%	0.0
E	0	0	2	0	0	0	0	0	2	28.6%	5.0
ESE	0	0	3	0	0	0	0	0	3	42.9%	6.1
SE	0	0	1	0	0	0	0	0	1	14.3%	5.8
SSE	0	0	0	0	0	0	0	0	0	0.0%	0.0
S	0	0	0	0	0	0	0	0	0	0.0%	0.0
SSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
Total	0	1	6	0	0	0	0	0	7		
% Of Total	0.0%	14.3%	85.7%	0.0%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 5.3  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 4  
 Total number of Valid hours : 31  
 Total number of hours for period : 35

**Joint Frequency Table - Batch Release Hours**

**From** : 04/01/2025 00:00 **To** : 06/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS G**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****	*****		

Average speed for this table (MPH): 0.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 4  
 Total number of Valid hours : 31  
 Total number of hours for period : 35

**Joint Frequency Table - Batch Release Hours**

**From** : 04/01/2025 00:00 **To** : 06/30/2025 23:00

**PRIMARY TOWER**

**ALL STABILITY CLASSES COMBINED**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNE	0	0	0	0	0	0	0	0	0	0.0%	0.0
NE	0	1	0	0	0	0	0	0	1	3.2%	2.9
ENE	0	0	0	0	0	0	0	0	0	0.0%	0.0
E	0	0	2	0	0	0	0	0	2	6.5%	5.0
ESE	0	0	4	6	1	1	0	0	12	38.7%	10.6
SE	0	0	1	6	6	2	0	0	15	48.4%	13.4
SSE	0	0	0	0	1	0	0	0	1	3.2%	16.5
S	0	0	0	0	0	0	0	0	0	0.0%	0.0
SSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
Total	0	1	7	12	8	3	0	0	31		
% Of Total	0.0%	3.2%	22.6%	38.7%	25.8%	9.7%	0.0%	0.0%			

Average speed for this table (MPH): 11.5  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 4  
 Total number of Valid hours : 31  
 Total number of hours for period : 35

**Joint Frequency Table - Batch Release Hours****From** : 04/01/2025 00:00    **To** : 06/30/2025 23:00**PRIMARY TOWER**

The following periods represent times during which the release rates from one of the units was significantly higher than normal (> 30 uCi/s). Consequently, these meteorological data are submitted as batch release periods .

From            04/26/2025 00:00 To 10/30/2025 15:00
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**Joint Frequency Table - Batch Release Hours**

**From** : 07/01/2025 00:00    **To** : 09/30/2025 23:00

**PRIMARY TOWER**

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**Joint Frequency Table - Batch Release Hours**

**From** : 07/01/2025 00:00 **To** : 09/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS A**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****	*****		

Average speed for this table (MPH): 0.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 0  
 Total number of hours for period : 0

**Joint Frequency Table - Batch Release Hours**

**From** : 07/01/2025 00:00 **To** : 09/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS B**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****	*****		

Average speed for this table (MPH): 0.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 0  
 Total number of hours for period : 0

**Joint Frequency Table - Batch Release Hours**

**From** : 07/01/2025 00:00 **To** : 09/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS C**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****	*****		

Average speed for this table (MPH): 0.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 0  
 Total number of hours for period : 0

**Joint Frequency Table - Batch Release Hours**

**From** : 07/01/2025 00:00 **To** : 09/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS D**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****			

Average speed for this table (MPH): 0.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 0  
 Total number of hours for period : 0

**Joint Frequency Table - Batch Release Hours**

**From** : 07/01/2025 00:00 **To** : 09/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS E**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****	*****		

Average speed for this table (MPH): 0.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 0  
 Total number of hours for period : 0

**Joint Frequency Table - Batch Release Hours**

**From** : 07/01/2025 00:00 **To** : 09/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS F**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****			

Average speed for this table (MPH): 0.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 0  
 Total number of hours for period : 0

**Joint Frequency Table - Batch Release Hours**

**From** : 07/01/2025 00:00 **To** : 09/30/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS G**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****			

Average speed for this table (MPH): 0.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 0  
 Total number of hours for period : 0

**Joint Frequency Table - Batch Release Hours**

**From** : 07/01/2025 00:00 **To** : 09/30/2025 23:00

**PRIMARY TOWER**

**ALL STABILITY CLASSES COMBINED**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	*****	0.0
NNE	0	0	0	0	0	0	0	0	0	*****	0.0
NE	0	0	0	0	0	0	0	0	0	*****	0.0
ENE	0	0	0	0	0	0	0	0	0	*****	0.0
E	0	0	0	0	0	0	0	0	0	*****	0.0
ESE	0	0	0	0	0	0	0	0	0	*****	0.0
SE	0	0	0	0	0	0	0	0	0	*****	0.0
SSE	0	0	0	0	0	0	0	0	0	*****	0.0
S	0	0	0	0	0	0	0	0	0	*****	0.0
SSW	0	0	0	0	0	0	0	0	0	*****	0.0
SW	0	0	0	0	0	0	0	0	0	*****	0.0
WSW	0	0	0	0	0	0	0	0	0	*****	0.0
W	0	0	0	0	0	0	0	0	0	*****	0.0
WNW	0	0	0	0	0	0	0	0	0	*****	0.0
NW	0	0	0	0	0	0	0	0	0	*****	0.0
NNW	0	0	0	0	0	0	0	0	0	*****	0.0
Total	0	0	0	0	0	0	0	0	0		
% Of Total	*****	*****	*****	*****	*****	*****	*****	*****			

Average speed for this table (MPH):

Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 0  
 Total number of hours for period : 0

**Joint Frequency Table - Batch Release Hours****From : 07/01/2025 00:00    To : 09/30/2025 23:00****PRIMARY TOWER**

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The following periods represent times during which the release rates from one of the units was significantly higher than normal (> 30 uCi/s). Consequently, these meteorological data are submitted as batch release periods .

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**Joint Frequency Table - Batch Release Hours**

**From** : 10/01/2025 00:00    **To** : 12/31/2025 23:00

**PRIMARY TOWER**

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**Joint Frequency Table - Batch Release Hours**

**From** : 10/01/2025 00:00 **To** : 12/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS A**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNE	0	0	0	0	0	0	0	0	0	0.0%	0.0
NE	0	0	1	5	2	0	0	0	8	9.2%	9.8
ENE	0	0	5	2	5	0	0	0	12	13.8%	10.5
E	0	0	2	1	0	0	0	0	3	3.4%	8.7
ESE	0	0	0	5	3	5	0	0	13	14.9%	15.4
SE	0	0	0	1	1	2	0	0	4	4.6%	16.8
SSE	0	0	1	3	4	0	0	0	8	9.2%	11.5
S	0	0	3	8	0	0	0	0	11	12.6%	9.2
SSW	0	0	1	9	0	0	0	0	10	11.5%	9.1
SW	0	0	0	1	0	0	0	0	1	1.1%	11.2
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	3	0	0	0	0	0	3	3.4%	5.4
NW	0	0	0	3	0	1	5	0	9	10.3%	20.6
NNW	0	0	1	3	1	0	0	0	5	5.7%	10.1
Total	0	0	17	41	16	8	5	0	87		
% Of Total	0.0%	0.0%	19.5%	47.1%	18.4%	9.2%	5.7%	0.0%			

Average speed for this table (MPH): 12.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 479  
 Total number of hours for period : 479

**Joint Frequency Table - Batch Release Hours**

**From** : 10/01/2025 00:00 **To** : 12/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS B**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNE	0	0	0	2	0	0	0	0	2	7.7%	10.6
NE	0	0	2	4	0	0	0	0	6	23.1%	9.4
ENE	0	0	0	1	5	0	0	0	6	23.1%	14.3
E	0	0	0	0	1	0	0	0	1	3.8%	13.1
ESE	0	0	0	0	1	1	0	0	2	7.7%	16.5
SE	0	0	0	1	2	0	0	0	3	11.5%	12.9
SSE	0	0	0	0	0	0	0	0	0	0.0%	0.0
S	0	0	0	1	0	0	0	0	1	3.8%	8.1
SSW	0	0	1	1	0	0	0	0	2	7.7%	9.2
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NW	0	0	0	0	1	1	0	0	2	7.7%	19.7
NNW	0	0	0	1	0	0	0	0	1	3.8%	9.9
Total	0	0	3	11	10	2	0	0	26		
% Of Total	0.0%	0.0%	11.5%	42.3%	38.5%	7.7%	0.0%	0.0%			

Average speed for this table (MPH): 12.5  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 479  
 Total number of hours for period : 479

**Joint Frequency Table - Batch Release Hours**

**From** : 10/01/2025 00:00 **To** : 12/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS C**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	1	0	0	0	0	1	5.6%	9.0
NNE	0	0	0	0	0	0	0	0	0	0.0%	0.0
NE	0	0	1	3	2	0	0	0	6	33.3%	9.7
ENE	0	0	1	0	0	0	0	0	1	5.6%	6.6
E	0	0	1	0	1	0	0	0	2	11.1%	12.0
ESE	0	0	0	0	2	0	0	0	2	11.1%	16.7
SE	0	0	0	0	2	2	0	0	4	22.2%	16.7
SSE	0	0	0	0	0	0	0	0	0	0.0%	0.0
S	0	0	0	0	0	0	0	0	0	0.0%	0.0
SSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
SW	0	0	0	1	0	0	0	0	1	5.6%	8.6
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNW	0	0	0	1	0	0	0	0	1	5.6%	8.7
Total	0	0	3	6	7	2	0	0	18		
% Of Total	0.0%	0.0%	16.7%	33.3%	38.9%	11.1%	0.0%	0.0%			

Average speed for this table (MPH): 11.9  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 479  
 Total number of hours for period : 479

**Joint Frequency Table - Batch Release Hours**

**From** : 10/01/2025 00:00 **To** : 12/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS D**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	0	0	0	1	0	0	1	1.7%	20.5
NNE	0	0	2	5	3	0	0	0	10	16.7%	10.2
NE	0	0	4	5	6	0	0	0	15	25.0%	10.7
ENE	0	0	1	5	4	0	0	0	10	16.7%	12.1
E	0	0	2	2	3	0	0	0	7	11.7%	10.8
ESE	0	0	1	2	2	1	0	0	6	10.0%	13.2
SE	0	0	0	2	2	1	0	0	5	8.3%	15.3
SSE	0	0	0	0	0	0	0	0	0	0.0%	0.0
S	0	0	1	0	0	0	0	0	1	1.7%	6.3
SSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
SW	0	0	0	0	1	0	0	0	1	1.7%	12.8
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NW	0	0	1	0	0	1	0	0	2	3.3%	13.5
NNW	0	0	1	1	0	0	0	0	2	3.3%	7.6
Total	0	0	13	22	21	4	0	0	60		
% Of Total	0.0%	0.0%	21.7%	36.7%	35.0%	6.7%	0.0%	0.0%			

Average speed for this table (MPH): 11.6  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 479  
 Total number of hours for period : 479

**Joint Frequency Table - Batch Release Hours**

**From** : 10/01/2025 00:00 **To** : 12/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS E**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	0	3	1	1	0	0	0	5	5.7%	9.1
NNE	0	1	5	8	0	0	0	0	14	16.1%	8.0
NE	0	0	2	13	3	0	0	0	18	20.7%	10.3
ENE	0	0	4	6	0	0	0	0	10	11.5%	8.2
E	0	0	0	5	1	0	0	0	6	6.9%	10.7
ESE	0	0	2	2	2	0	0	0	6	6.9%	10.0
SE	0	0	1	4	3	1	0	0	9	10.3%	12.7
SSE	0	0	2	3	0	0	0	0	5	5.7%	8.1
S	0	0	2	1	0	0	0	0	3	3.4%	6.2
SSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	0	0	1	0	0	0	0	1	1.1%	8.5
NW	0	0	0	1	1	0	0	0	2	2.3%	11.3
NNW	0	0	0	0	1	6	1	0	8	9.2%	21.2
Total	0	1	21	45	12	7	1	0	87		
% Of Total	0.0%	1.1%	24.1%	51.7%	13.8%	8.0%	1.1%	0.0%			

Average speed for this table (MPH): 10.6  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 479  
 Total number of hours for period : 479

**Joint Frequency Table - Batch Release Hours**

**From** : 10/01/2025 00:00 **To** : 12/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS F**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	1	4	3	0	0	0	0	8	12.7%	6.8
NNE	0	0	7	5	0	0	0	0	12	19.0%	7.2
NE	0	1	5	1	0	0	0	0	7	11.1%	5.1
ENE	0	2	6	0	0	0	0	0	8	12.7%	5.2
E	0	1	4	1	0	0	0	0	6	9.5%	5.9
ESE	0	0	3	0	0	0	0	0	3	4.8%	6.9
SE	0	1	3	2	0	0	0	0	6	9.5%	6.2
SSE	0	0	3	2	0	0	0	0	5	7.9%	7.0
S	0	0	0	0	0	0	0	0	0	0.0%	0.0
SSW	0	0	0	1	0	0	0	0	1	1.6%	7.8
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	1	0	0	0	0	0	1	1.6%	5.2
WNW	0	0	1	0	0	0	0	0	1	1.6%	6.1
NW	0	0	1	0	0	0	0	0	1	1.6%	6.8
NNW	0	1	0	2	0	1	0	0	4	6.3%	10.2
Total	0	7	38	17	0	1	0	0	63		
% Of Total	0.0%	11.1%	60.3%	27.0%	0.0%	1.6%	0.0%	0.0%			

Average speed for this table (MPH): 6.6  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 479  
 Total number of hours for period : 479

**Joint Frequency Table - Batch Release Hours**

**From** : 10/01/2025 00:00 **To** : 12/31/2025 23:00

**PRIMARY TOWER**

**STABILITY CLASS G**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	2	13	0	0	0	0	0	15	10.9%	4.2
NNE	0	4	12	0	0	0	0	0	16	11.6%	4.1
NE	0	9	14	0	0	0	0	0	23	16.7%	3.9
ENE	0	19	10	0	0	0	0	0	29	21.0%	3.3
E	0	12	6	0	0	0	0	0	18	13.0%	3.2
ESE	0	2	5	0	0	0	0	0	7	5.1%	3.8
SE	0	1	5	1	0	0	0	0	7	5.1%	5.5
SSE	0	0	0	0	0	0	0	0	0	0.0%	0.0
S	0	0	0	0	0	0	0	0	0	0.0%	0.0
SSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	1	0	0	0	0	0	1	0.7%	4.4
WNW	0	0	7	1	0	0	0	0	8	5.8%	5.8
NW	0	2	4	4	0	0	0	0	10	7.2%	5.8
NNW	0	3	1	0	0	0	0	0	4	2.9%	3.6
Total	0	54	78	6	0	0	0	0	138		
% Of Total	0.0%	39.1%	56.5%	4.3%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 4.0  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 479  
 Total number of hours for period : 479

**Joint Frequency Table - Batch Release Hours**

**From** : 10/01/2025 00:00 **To** : 12/31/2025 23:00

**PRIMARY TOWER**

**ALL STABILITY CLASSES COMBINED**

Wind Speed (MPH) -> Sector	(1) CALM	(2) 1.0 - 3.5	(3) 3.6 - 7.5	(4) 7.6 - 12.5	(5) 12.6 - 18.5	(6) 18.6 - 24.5	(7) 24.6 - 32.5	(8) 32.6 +	Total	% Of Total	Avg. Speed
N	0	3	20	5	1	1	0	0	30	6.3%	6.4
NNE	0	5	26	20	3	0	0	0	54	11.3%	7.1
NE	0	10	29	31	13	0	0	0	83	17.3%	8.0
ENE	0	21	27	14	14	0	0	0	76	15.9%	7.3
E	0	13	15	9	6	0	0	0	43	9.0%	6.9
ESE	0	2	11	9	10	7	0	0	39	8.1%	11.6
SE	0	2	9	11	10	6	0	0	38	7.9%	11.5
SSE	0	0	6	8	4	0	0	0	18	3.8%	9.3
S	0	0	6	10	0	0	0	0	16	3.3%	8.4
SSW	0	0	2	11	0	0	0	0	13	2.7%	9.0
SW	0	0	0	2	1	0	0	0	3	0.6%	10.9
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	2	0	0	0	0	0	2	0.4%	4.8
WNW	0	0	11	2	0	0	0	0	13	2.7%	5.9
NW	0	2	6	8	2	3	5	0	26	5.4%	13.0
NNW	0	4	3	8	2	7	1	0	25	5.2%	12.4
Total	0	62	173	148	66	24	6	0	479		
% Of Total	0.0%	12.9%	36.1%	30.9%	13.8%	5.0%	1.3%	0.0%			

Average speed for this table (MPH): 8.7  
 Hours in above table with variable direction : 0  
 Total number of CALMs : 0  
 Total number of Invalid hours : 0  
 Total number of Valid hours : 479  
 Total number of hours for period : 479

**Joint Frequency Table - Batch Release Hours****From** : 10/01/2025 00:00    **To** : 12/31/2025 23:00**PRIMARY TOWER**

The following periods represent times during which the release rates from one of the units was significantly higher than normal (> 30 uCi/s). Consequently, these meteorological data are submitted as batch release periods .

From	10/04/2025 10:00	To	10/30/2025 15:00
From	10/30/2025 19:00	To	10/30/2025 19:00
From	10/31/2025 06:00	To	10/31/2025 07:00
From	10/31/2025 13:00	To	10/31/2025 14:00
From	11/01/2025 22:00	To	11/01/2025 22:00
From	11/02/2025 07:00	To	11/02/2025 07:00
From	11/02/2025 18:00	To	11/02/2025 19:00
From	11/03/2025 00:00	To	11/03/2025 00:00
From	11/03/2025 05:00	To	11/03/2025 07:00

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