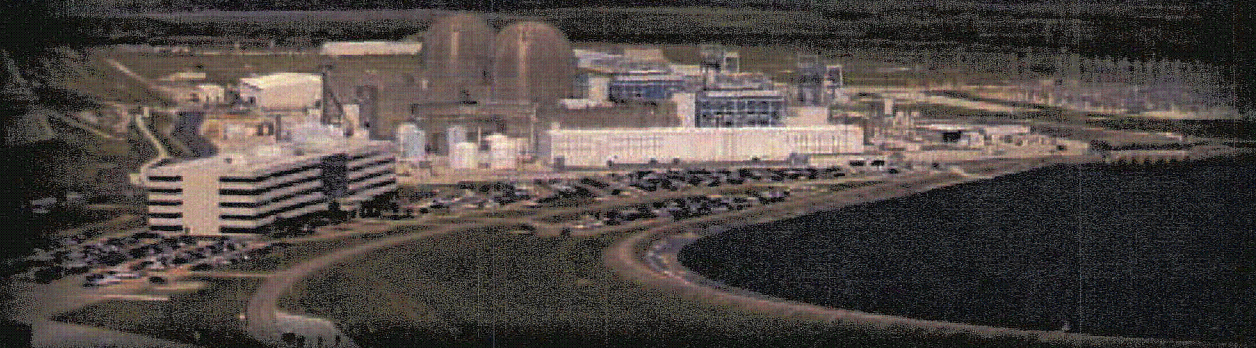


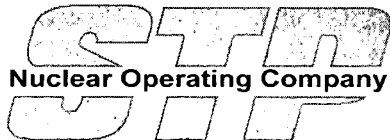
South Texas Project Electric Generating Station

2006



Radioactive
Effluent

Release Report



South Texas Project Electric Generating Station P.O. Box 289 Wadsworth, Texas 77483

April 30, 2007
NOC-AE-07002159
File No.: G25
10 CFR 50.36a

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, MD 20852-2738

South Texas Project
Units 1 & 2
Docket Nos. STN 50-498 & 50-499
Radioactive Effluent Release Report for 2006

Pursuant to the South Texas Project Technical Specification 6.9.1.4 and 10 CFR 50.36a, STP Nuclear Operating Company provides the attached Radioactive Effluent Release Report for 2006. The report covers the period from January 1, 2006, to December 31, 2006.

There are no commitments included in this report.

If there are any questions on this report, please contact either Philip Walker at (361) 972-8392 or me at (361) 972-7879.

Daniel J. Bryant
Manager, Chemistry

PLW

Attachment: Radioactive Effluent Release Report for 2006

IE48
A009

cc:

(paper copy)

Regional Administrator, Region IV
U. S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 400
Arlington, Texas 76011-8064

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, MD 20852-2738

Richard A. Ratliff
Bureau of Radiation Control
Texas Department of State Health Services
1100 West 49th Street
Austin, TX 78756-3189

C. M. Canady
City of Austin
Electric Utility Department
721 Barton Springs Road
Austin, TX 78704

Senior Resident Inspector
U. S. Nuclear Regulatory Commission
P. O. Box 289, Mail Code: MN116
Wadsworth, TX 77483

(electronic copy)

A. H. Gutterman, Esquire
Morgan, Lewis & Bockius LLP

Mohan C. Thadani
U. S. Nuclear Regulatory Commission

Thad Hill
Christine Jacobs
Eddy Daniels
Marty Ryan
NRG South Texas LP

J. J. Nesrsta
R. K. Temple
E. Alarcon
Kevin Pollo
City Public Service

Jon C. Wood
Cox Smith Matthews

C. Kirksey
City of Austin

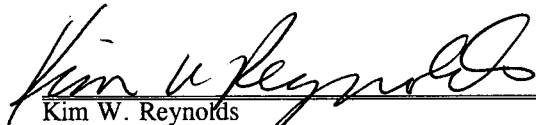
2006

Radioactive Effluent Release Report

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION


Completed by
Generation in accordance with
Technical Specifications
for
United States Nuclear Regulatory Commission
License Nos.
NPF-76 & NPF-80
April 2007

Authored by:




Kim W. Reynolds
Staff Nuclear Chemist
Chemistry Division

Technical Review:



Gordon E. Williams, CHP
Health Physicist
Health Physics Division

Approved by:



Daniel J. Bryant
Manager
Chemistry Division

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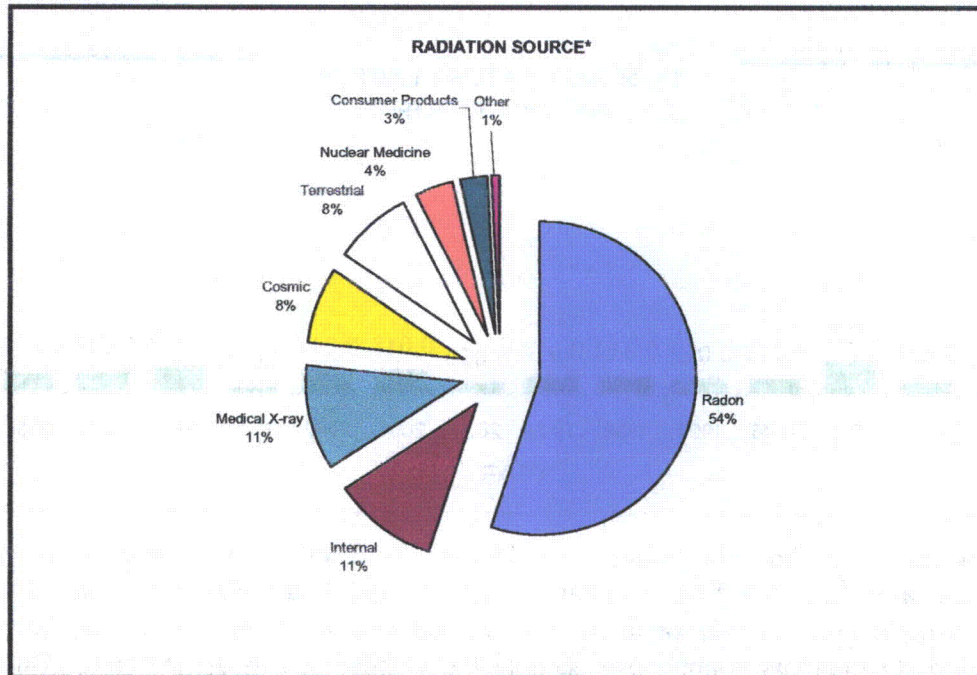
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Report Summary

During 2006, as in all previous years, operation of the South Texas Project created no adverse effects or health risks. The maximum radiation exposure calculated for a hypothetical person living at the boundary of the South Texas Project during 2006 due to operation of the South Texas Project was less than one millirem. For reference, this dose may be compared to the average annual radiation exposure of 360 millirem to people in the United States from all sources. Natural radiation sources in the environment contribute most of the radiation exposure to people; nuclear power operations contribute less than one millirem.



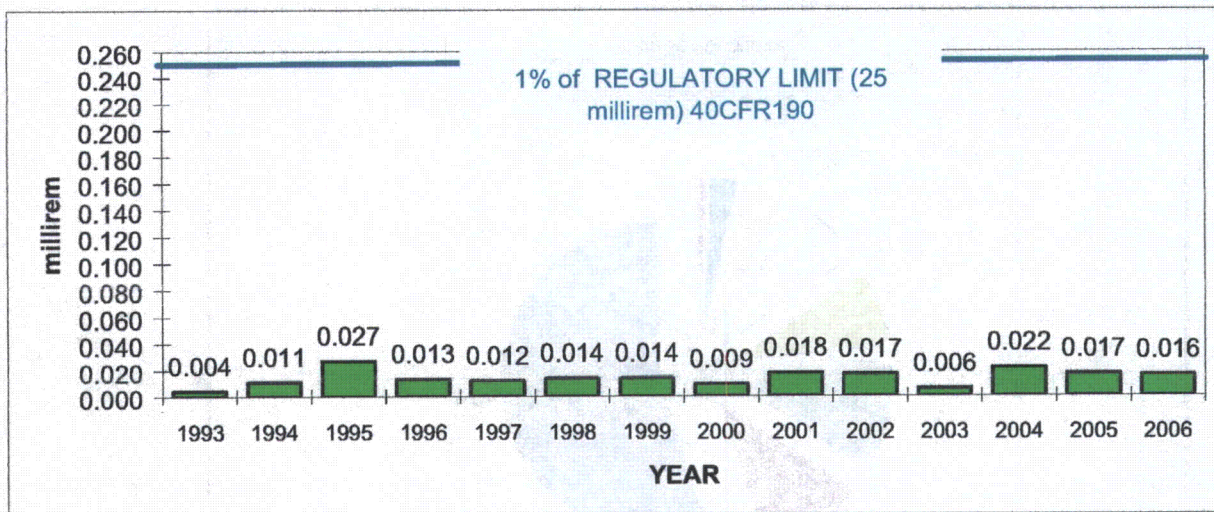
*NCRP (1987). National Council on Radiation Protection and Measurements, *Ionizing Radiation Exposure of the Population of the United States*, (Bethesda, Maryland), NCRP Report No. 93.

During 2006, 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 0.02 millirem. This total represents approximately 0.06% of the limits of 40 C.F.R. §190. Based on our 2006 Land Use Census, real individuals reside in the West by Southwest Sector, approximately 4,000 meters (2.5 miles) from the site. For dose calculation purposes, the residents at this location are characterized as the theoretically exposed with regard to food consumption, occupancy, and other uses of the areas in the plant vicinity. Our dose model assumes that this theoretically 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 (48 pounds) of fish taken from Little Robbins Slough. This individual receives a submersion dose from noble gases and dose from inhaled radioactive particulates, radioiodines, and tritium. This hypothetical adult is assumed to consume 64 kilograms (150 pounds) of vegetables grown at the residence and consumes 110 kilograms (250 pounds) of meat from livestock grazed at the residence. This estimated total body dose 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 the South Texas Project Electric Generating Station have historically been and continue to be well below regulatory limits as shown in the following figure. Members of the public received negligible additional radiation due to the operation of the South Texas Project. This Radioactive Effluent Release Report summarizes the data describing the radioactive liquid and gaseous releases from the South Texas Project Electric Generating Station during 2006. The radioactive effluents from the South Texas Project are effectively monitored and controlled in accordance with regulatory requirements.

THEORETICAL TOTAL BODY DOSE FOR ALL PATHWAYS



Liquid and gaseous discharges from the South Texas Project 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 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 control rooms and health physics offices.

Prior to and during power operation the South Texas Project is required to evaluate radioactive material in the environment. We are committed to sampling and analyzing environmental samples for radioactivity to support our Radiological Environmental Monitoring Program. The results of these environmental samples are reported in our Annual Environmental Operating Report. These environmental measurements affirm the accuracy of our sampling and analysis program.

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 that is located entirely within the site boundary. The South Texas Project 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

Introduction and Summary

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 vegetables from a garden, fish from the river, inhalation, and direct exposure. The highest potential hypothetical dose to an individual at the site boundary was calculated to be less than 1 millirem which is significantly less than an average person receives from natural sources annually. The information presented in this report demonstrates that plant operation is consistently controlled to ensure 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 January 1, 2006, through December 31, 2006, in accordance with Appendix A of 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 2006. Liquid effluents are discharged to the on-site Main Cooling Reservoir and subsequently released offsite. The radioactivity released in liquids beyond the site boundary was estimated using the South Texas Project Electric Generating Station Offsite Dose Calculation Manual. Solid radioactive waste is shipped offsite for disposal. The following table is a brief summary of the radioactive effluents and solid waste attributable to the station.

TYPE OF RADIOACTIVE MATERIAL	EFFLUENT TYPE	DESTINATION	VOLUME CUBIC METER	CURIES
NOBLE GAS	GAS	OFFSITE	6.0E+09	1.3E+02
PARTICULATE AND IODINES	GAS	OFFSITE	6.0E+09	8.9E-04
TRITIUM	GAS	OFFSITE	6.0E+09	8.6E+01
TRITIUM	LIQUID	OFFSITE	4.8E+06	2.9E+02
FISSION AND ACTIVATION PRODUCTS	LIQUID	OFFSITE	4.8E+06	3.3E-04
TRITIUM	LIQUID	ON-SITE	5.3E+04	2.2E+03
FISSION AND ACTIVATION PRODUCTS ⁽¹⁾	LIQUID	ON-SITE	5.3E+04	4.4E-02
SPENT RESINS AND FILTERS	SOLID	FOR BURIAL	4.4E+00	3.9E+02
DRY COMPRESSIBLE WASTE	SOLID	FOR BURIAL	1.6E+02	6.0E-01
OTHER WASTE (SECONDARY RESIN, CHARCOAL, AND MISCELLANEOUS EXPENDABLE MATERIALS)	SOLID	FOR BURIAL	0.0E+00	0.0E+00

⁽¹⁾Excludes 7.5e-03 curies of dissolved and entrained gases.

Tritium was the largest contributor to the offsite doses from radioactive effluents both liquid and gaseous. 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 (360 millirem).

Supplemental Information for Effluent and Waste Disposal

Supplemental Information for Effluent and Waste Disposal

The South Texas Project Electric Generating Station is located on 49,500,000 square meters (12,220 acres) in Matagorda County, Texas, approximately 24,000 meters (15 miles) southwest of Bay City along the west bank of the Colorado River. Ownership of the South Texas Project changed in February, 2006, when the Texas Genco LP interest in the South Texas Project was acquired by NRG Energy, Inc., the City of Austin and the City Public Service Board of San Antonio as tenants in common. The 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 operation of the South Texas Project. In 1997, the station owners changed the licensee to STP Nuclear Operating Company, which is responsible for implementation of the Radioactive Effluent Control Program.

The South Texas Project Electric Generating Station consists of two 1,250 megawatt-electric Westinghouse pressurized water reactors. The thermal output has been up-rated by 1.4 percent increasing the electrical output. Unit 1 received a low-power testing license on August 21, 1987, obtained 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, obtained initial criticality on March 12, 1989, and was declared commercially operational on June 19, 1989. Both units together produce enough electricity to serve over one million homes.

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 microcurie/milliliter total activity.

Average Energy (Million Electron Volts/Disintegration)

The **Average Energy** (or E-bar) shall be the average (weighted in proportion to the concentration of each radionuclide in the reactor coolant at the time of sampling) of the sum of the average beta and gamma energies per disintegration for the isotopes other than Iodines, with half-lives greater than 15 minutes, making up at least 95% of the total non-iodine activity in the coolant. The following average energy values are based on grab sample analyses from each reactor coolant systems with both samples being collected during August of 2006.

Reactor Coolant Liquid including tritium, fission products (excluding radioiodines), and corrosion and activation products

E-bar (Million Electron Volts/Disintegration)	<u>0.166</u> *	Unit 1
	<u>0.0655</u> *	Unit 2

* Includes tritium

The average energy (E-bar) values of the radionuclide mixture in gaseous releases of fission and activation gases are based on noble gases released during the reporting period.

Gaseous Effluents only Noble Gases

E-bar (Million Electron Volts/Disintegration)	<u>0.270</u>	Unit 1
	<u>0.240</u>	Unit 2

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 South Texas Project Electric Generating Station Offsite Dose Calculation Manual give sampling frequencies and lower limit of detection requirements for the analysis of liquid and gaseous effluent streams.

Gaseous EffluentsAnalytical 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 gas, iodine and particulate activity. Tritium specific radioactivity 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 were 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.

Secondary liquid grab samples in conjunction with the mass of the secondary coolant lost 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, and Iron-55 determinations are performed by the on-site Radiological Services 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)

Liquid (Unit 1)	Quarter 1	Quarter 2	Quarter 3	Quarter 4
a. Number of batch releases	7	10	21	27
b. Total time period for batch releases (minutes)	474	676	1422	1762
c. Maximum time period for a batch release (minutes)	71	72	70	70
d. Average time period for batch releases (minutes)	68	68	68	65
e. Minimum time period for a batch release (minutes)	65	64	61	54

Gaseous (Unit 1)

Gaseous (Unit 1)	Quarter 1	Quarter 2	Quarter 3	Quarter 4
a. Number of batch releases	0	0	1	13
b. Total time period for batch releases (minutes)	0	0	1560	40500
c. Maximum time period for a batch release (minutes)	0	0	1560	18360
d. Average time period for batch releases (minutes)	0	0	1560	3115
e. Minimum time period for a batch release (minutes)	0	0	1560	120

Liquid (Unit 2)

Liquid (Unit 2)	Quarter 1	Quarter 2	Quarter 3	Quarter 4
a. Number of batch releases	20	11	11	14
b. Total time period for batch releases (minutes)	1073	637	681	826
c. Maximum time period for a batch release (minutes)	62	65	70	66
d. Average time period for batch releases (minutes)	54	58	62	59
e. Minimum time period for a batch release (minutes)	2	39	58	46

Gaseous (Unit 2)

Gaseous (Unit 2)	Quarter 1	Quarter 2	Quarter 3	Quarter 4
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

Abnormal (Unplanned) Releases

No abnormal releases occurred during this reporting period.

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 level.

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 level for fission and activation gases, iodines, particulates and tritium.

Estimate of Error for Solid Radioactive Waste

The **error** associated with determining the volume of solid radioactive waste shipments is estimated to be $\pm 1\%$. The **error** associated with determining the filter media, spent primary resins, and spent secondary resins radioactivity is estimated to be within a factor of two of the real value and is due primarily to waste stream sampling uncertainty. The **error** associated with determining the radioactivity of other solid radioactive waste shipments is estimated to be within a factor of three of the real value.

Solid Waste Shipments

A total of nineteen shipments of radioactive filter media, spent resins, dry active and other wastes were made during the reporting period. A summary of the data is provided in the Section 6, Solid Waste and Irradiated Fuel Shipments.

Radiological Impact on Man

The data for the period January 1, 2006, through December 31, 2006, 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 ⁽¹⁾ 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

⁽¹⁾ Offsite Dose Calculation Manual factor

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 2006. 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 2006 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 2006. 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. In order 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 **2006 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 2006, Thermoluminescent Dosimeters were placed along the protected area fence surrounding Units 1 and 2 of the South Texas Project, on the fence of the Onsite Staging Facility (Outside Storage), along the walls of OSF Warehouse D, and around the Old Steam Generator Storage Facility as pictured in Figure 8-1 of Section 8. During the last quarter of 2006, radioactive waste was staged in the Onsite Staging Facility (Outside Storage). The results of these measurements are summarized in Table 8-1 of Section 8. The table shows that in 2006 Thermoluminescent Dosimeter stations near the OSF (Outside Storage) measured more exposure than typical of natural background determined prior to operation in the vicinity of the South Texas Project.

In accordance with the ODCM, the dose due to direct radiation can be estimated taking the highest TLD measurement, less background, and correcting for the distance to the site boundary using

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

Where

TLD = background corrected TLD annual dose, mrem/yr

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

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

The TLD 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 TLD dose rate was 64.8 mrem/quarter for station #19 on one side of the OSF Outside Facility as shown in Figure 8-1. The value for TLD may be calculated as shown below where the historical site boundary background of 15.4 mrem/quarter is used to find the net rate attributable to waste stored onsite.

$$\text{TLD} = 64.8 - 15.4 = 49.4 \text{ mR/quarter}$$

or

$$\text{TLD} = (49.4 \text{ mR/quarter}) * (4 \text{ quarters/yr}) = 198 \text{ mrem/yr} \quad \text{assuming an mR is about equal to an mrem}$$

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:

$$\text{Dose}_{\text{direct}} = (198 \text{ mrem/yr}) * (17.1 \text{ meters})^2 / (1060 \text{ meters})^2 = 0.052 \text{ mrem/yr}$$

This assumes someone is positioned permanently at the fence west-north west of the OSF Outside Facility. A real person might traverse this area twice daily (to and from work) for a total exposure time of

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

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

$$\text{Dose}_{\text{direct}} = 0.052 \text{ mrem/yr} * 0.00381 \text{ yr} = 0.0002 \text{ mrem in 2006}$$

In summary, a realistic dose of 0.0002 mrem was delivered to a member of the public offsite in 2006 although a hypothetical maximum dose of 0.052 mrem was possible 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 grounds keeper whose job required him to cut grass in the vicinity of the Onsite Staging Facility (Outside Storage) for radioactive waste. If such an individual worked 10 hours once a quarter at the fence nearest the highest dose rate waste, his direct radiation dose could be calculated as follows:

$$\text{Dose (mrem)} = 40 * [(14.2 + 12.2 + 14 + 224.4) / 4 - 15.4] / 91 / 24 = 0.9$$

where

- 40 = 10 hours per quarter times four quarters
- 14.2 = peak dose rate in first quarter, mrem/quarter
- 12.2 = peak dose rate in second quarter, mrem/quarter
- 14.0 = peak dose rate in third quarter, mrem/quarter
- 224.4 = peak dose rate in fourth quarter, mrem/quarter
- 15.4 = average pre-operation dose rate, mrem/quarter
- 91 = days in a standard quarter
- 24 = hours per day

Since most of his time would be at distances far from the fence, this dose rate could be reduced by a further factor. Assuming he was on average at least twice as far from the highest level waste as was the dosimeter on the fence, the dose above could be reduced by an additional factor of about $(1/3)^2$ to 0.1 mrem per year. Hence, in 2006 the highest exposed individual to direct radiation on site who was a member of the public, received 0.1 mrem of direct radiation.

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 0.14 millirem from radioactive effluents due to inhalation and immersion. This dose plus the direct radiation dose would yield 0.24 millirem, a small fraction of 10 C.F.R. §20.1301 annual limit.

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

During 2006, 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 0.02 millirem. This total represents approximately 0.06% of the limits of 40 C.F.R. §190. Based on our 2006 Land Use Census, real individuals reside in the West by Southwest Sector, approximately 4,000 meters (2.5 miles) from the site. For dose calculation purposes, the residents at this location are characterized as the theoretically exposed with regard to food consumption, occupancy, and other uses of the areas in the plant vicinity. Our dose model assumes that this theoretically 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 (48 pounds) of fish taken from Little Robbins Slough. This individual receives a submersion dose from noble gases and dose from inhaled radioactive particulates, radioiodines, and tritium. This hypothetical adult is assumed to consume 64 kilograms (150 pounds) of vegetables grown at the residence and consumes 110 kilograms (250 pounds) of meat from livestock grazed at the residence. This estimated total body dose 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.

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 twenty-two hundred curies of tritium were released to the Main Cooling Reservoir during 2006. Our ODCM models liquid, gaseous, and direct dose exposure pathways separately and lists methods for dose calculations using models and assumptions specified in Regulatory Guides issued by the Nuclear Regulatory Commission. The models used by our ODCM and NRC Regulatory Guides assume that radioactive material released in liquid effluent remains in liquid and any receptors are exposed via liquid pathways. 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 which is not modeled under our current licensing requirements. The Environmental Protection Agency has a code, Iclt3, approved to calculate airborne concentrations in regions around one or more area sources. Our 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 this EPA model and 2004 meteorological data. The product of X/Q , tritium released to the MCR, and dose factor (87.9 millirem-cubic meter per second-curie) generated an estimated whole body dose of 0.08 millirem, a small fraction of the limits of 40 C.F.R. §190. A more complete description of the tritium dose to gaseous receptors from liquid effluent was evaluated by Condition Report 05-8815.

Sewage Sludge Land Farming

Sewage sludge removed from the West Sanitary Waste Treatment System was beneficially land applied onsite during 2006. This beneficial land application is not a radioactive effluent and is only reported to document this activity. The amount of radioactivity contained in the sludge was approximately 81 microcuries. This radioactivity includes nuclides of Cobalt-60 and tritium. In accordance with Texas Commission on Environmental Quality Permit No. 04523, the sludge is incorporated into the soil after application. A soil sample collected from the area in October 2006 indicated no activity above background, confirming that the concentration in the soil is below the limits established in Title 25 of the Texas Administrative Code Section 289.202 (ddd).

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

Offsite Dose Calculation Manual Changes (reference, Technical Specifications, 6.13)

The ODCM must be formally reviewed at least once every 24-months. This review typically occurs in the fall in conjunction with the annual land use census. Any recommended changes identified since the last revision are considered at that time. Revision 14 of the ODCM includes improvements suggested over the past 24 months and include changes to sample location descriptions associated with the Radiological Environmental Monitoring Program (REMP). In addition, Licensing and Quality identified some corrections during the review and comment process.

During this review process spelling and typographical errors were corrected when found. All the formulas were retyped using the formula generation tools in Microsoft Word 2003. Tables were reformatted as was the balance of the ODCM to fully transition to Word 2003. However these changes are not identified in the revision by change bars since they do not change the intent and are cosmetic only.

The changes are summarized as follows:

1. Part A, Control 3/4.3.3.11 was revised to reflect moving Technical Specification 3.11.2.5 to Technical Requirements Manual 3.11.2.5 (page 16).
2. Part A, Table 3.3-13, Instrument 3.d was revised to clarify that if either the normal or accident Flow Rate Monitor is inoperable, the instrument is inoperable. However, only the Sample Flow Rate Monitor in use need be checked daily (page 17).
3. Part A, Table 3.3-13, Instrument 3.e was revised to clarify that if either normal or accident Sample Flow Rate Monitor is inoperable, the instrument is inoperable. However, only the Sample Flow Rate Monitor in use need be checked daily (page 17).
4. Part A, Table 3.3-13, Instrument 3.f was added to clarify that the signal is split and the processing of the signal for RT-8010A must be checked as well (page 17).
5. Part A, Table 4.3-9, Instrument 3.e was modified and 3.f was added to clarify that the signal is split and the processing of the signal for RT-8010A must be checked as well (page 18).
6. The location of a resident in the ENE sector was refined using GPS technology and the new distance is 7200 meters rather than the previous estimate of 8000 meters (page B4-31).
7. The location of a resident in the WNW sector was refined using GPS technology and the new distance is 7200 meters rather than the previous estimate of 6400 meters (page B4-31)..
8. References to CP&L were replaced by AEP in Table B5-3 (page B5-17).
9. Supplemental sample stations associated with tritium in ground water monitoring were added to Table B5-3 (pages B5-19 and B5-20).

These changes do not affect the methods used to calculate offsite doses or set points for effluent monitors. The changes do not affect STP's ability to meet the level of radioactive effluent control required by 10CFR20.1302, 40CFR190, 10CFR50.36a, and Appendix I to 10CFR50.

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

The Land Use Census identified no changes in the nearest residents within five miles.

In last year's report we incorrectly stated that the change in distance from the plant for the resident in the west by northwest sector was from 7200 to 6400 meters, the newly measured distance was 7200 meters. The distances to various gaseous dose pathway receptors may be found on page B4-31 of the ODCM attached to this report.

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

No major design modifications were made to the gaseous, liquid, or solid radioactive waste treatment systems during this reporting period.

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

For 2006, inoperable liquid effluent monitoring instruments were corrected within the time specified in Sections 3.3.3.10 of Offsite Dose Calculation Manual Controls.

For 2006, inoperable gaseous effluent monitoring instruments were corrected within the time specified in Sections 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 Vacuum Degassing System was not used during this reporting period. Therefore, the quantity of radioactive material in the Reactor Coolant System 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 Electric Generating Station. 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 to the Radioactive Waste Process Control Program during this reporting period.

GASEOUS EFFLUENTS

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

Unit: 1

Starting : 1-Jan-2006 Ending : 30-Jun-2006

TYPE OF EFFLUENT	UNITS	QUARTER 1	QUARTER 2	EST. TOT ERROR %
A. FISSION & ACTIVATION PRODUCTS				
1. TOTAL RELEASE	CURIES	1.39E+01	2.86E+01	100
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	1.79E+00	3.63E+00	
3. PERCENT OF LIMIT (9.60E+04 uCi/sec)	%	1.86E-03	3.78E-03	
B. RADIOIODINES				
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	
C. PARTICULATES				
1. PARTICULATES(HALF-LIVES>8 DAYS)	CURIES	5.65E-05	6.38E-05	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	7.26E-06	8.12E-06	
3. PERCENT OF LIMIT (3.00E-01 uCi/sec)	%	2.42E-03	2.71E-03	
4. GROSS ALPHA RADIOACTIVITY	CURIES	0.00E+00	0.00E+00	
D. TRITIUM				
1. TOTAL RELEASE	CURIES	1.41E+01	8.57E+00	50
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	1.81E+00	1.09E+00	
3. PERCENT OF LIMIT (1.80E+05 uCi/sec)	%	1.01E-03	6.06E-04	

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 2006

NUCLIDES RELEASED	UNITS	CONTINUOUS MODE		BATCH MODE	
		QUARTER 1	QUARTER 2	QUARTER 1	QUARTER 2
FISSION GASES					
Argon-41	CURIES	6.36E-01	9.18E-01	0.00E+00	0.00E+00
Xenon-133	CURIES	1.33E+01	2.76E+01	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	1.39E+01	2.86E+01	0.00E+00	0.00E+00
IODINES					
Iodine-131	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Iodine-133	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	5.64E-05	6.38E-05	0.00E+00	0.00E+00
Cobalt-58	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cobalt-60	CURIES	2.95E-09	0.00E+00	0.00E+00	0.00E+00
Chromium-51	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cesium-137	CURIES	5.29E-08	0.00E+00	0.00E+00	0.00E+00
Iron-59	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mercury-203	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Manganese-54	CURIES	1.26E-09	0.00E+00	0.00E+00	0.00E+00
Niobium-95	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Niobium-95M	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Selenium-75	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zirconium-95	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	5.65E-05	6.38E-05	0.00E+00	0.00E+00
OTHER					
Hydrogen-3 (Tritium)	CURIES	1.41E+01	8.57E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	1.41E+01	8.57E+00	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-2006 Ending : 31-Dec-2006

TYPE OF EFFLUENT	UNITS	QUARTER 3	QUARTER 4	EST. TOT ERROR %
A. FISSION & ACTIVATION PRODUCTS				
1. TOTAL RELEASE	CURIES	4.34E+00	5.63E-01	100
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	5.46E-01	7.08E-02	
3. PERCENT OF LIMIT (9.60E+04 uCi/sec)	%	5.69E-04	7.38E-05	
B. RADIOIODINES				
1. IODINE-131	CURIES	2.64E-07	3.89E-05	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	3.32E-08	4.89E-06	
3. PERCENT OF LIMIT (4.00E-02 uCi/sec)	%	8.31E-05	1.22E-02	
C. PARTICULATES				
1. PARTICULATES(HALF-LIVES>8 DAYS)	CURIES	3.21E-05	5.09E-04	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	4.03E-06	6.40E-05	
3. PERCENT OF LIMIT (3.00E-01 uCi/sec)	%	1.34E-03	2.13E-02	
4. GROSS ALPHA RADIOACTIVITY	CURIES	0.00E+00	0.00E+00	
D. TRITIUM				
1. TOTAL RELEASE	CURIES	8.84E+00	6.55E+00	50
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	1.11E+00	8.24E-01	
3. PERCENT OF LIMIT (1.80E+05 uCi/sec)	%	6.18E-04	4.58E-04	

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 2006

NUCLIDES RELEASED	UNITS	CONTINUOUS MODE		BATCH MODE	
		QUARTER 3	QUARTER 4	QUARTER 3	QUARTER 4
FISSION GASES					
Argon-41	CURIES	3.07E-01	1.80E-01	6.55E-01	0.00E+00
Xenon-133	CURIES	3.38E+00	1.78E-01	0.00E+00	2.05E-01
TOTAL FOR PERIOD	CURIES	3.69E+00	3.58E-01	6.55E-01	2.05E-01
IODINES					
Iodine-131	CURIES	1.86E-07	1.85E-06	7.87E-08	3.70E-05
Iodine-133	CURIES	1.99E-06	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	2.17E-06	1.85E-06	7.87E-08	3.70E-05
PARTICULATES					
Beryllium-7	CURIES	2.75E-05	2.52E-05	1.15E-06	1.04E-05
Cobalt-58	CURIES	4.17E-07	3.11E-05	1.71E-07	1.50E-04
Cobalt-60	CURIES	1.45E-06	4.43E-06	2.28E-07	2.13E-05
Chromium-51	CURIES	7.63E-08	2.55E-05	2.48E-07	1.92E-04
Cesium-137	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Iron-59	CURIES	0.00E+00	0.00E+00	0.00E+00	3.81E-06
Mercury-203	CURIES	0.00E+00	4.66E-07	0.00E+00	1.32E-05
Manganese-54	CURIES	1.97E-09	1.00E-06	6.39E-09	9.19E-06
Niobium-95	CURIES	3.53E-09	4.35E-06	1.15E-08	9.86E-06
Niobium-95M	CURIES	8.43E-07	0.00E+00	0.00E+00	0.00E+00
Selenium-75	CURIES	0.00E+00	0.00E+00	0.00E+00	8.71E-07
Zirconium-95	CURIES	0.00E+00	5.17E-07	0.00E+00	5.25E-06
TOTAL FOR PERIOD	CURIES	3.03E-05	9.26E-05	1.81E-06	4.16E-04
OTHER					
Hydrogen-3 (Tritium)	CURIES	8.77E+00	4.09E+00	6.84E-02	2.45E+00
TOTAL FOR PERIOD	CURIES	8.77E+00	4.09E+00	6.84E-02	2.45E+00

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

Unit: 2

Starting : 1-Jan-2006 Ending : 30-Jun-2006

TYPE OF EFFLUENT	UNITS	QUARTER 1	QUARTER 2	EST. TOT ERROR %
A. FISSION & ACTIVATION PRODUCTS				
1. TOTAL RELEASE	CURIES	5.34E+00	2.16E+01	100
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	6.87E-01	2.75E+00	
3. PERCENT OF LIMIT (9.60E+04 uCi/sec)	%	7.16E-04	2.87E-03	
B. RADIOIODINES				
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	
C. PARTICULATES				
1. PARTICULATES(HALF-LIVES>8 DAYS)	CURIES	5.56E-05	5.58E-05	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	7.15E-06	7.10E-06	
3. PERCENT OF LIMIT (3.00E-01 uCi/sec)	%	2.38E-03	2.37E-03	
4. GROSS ALPHA RADIOACTIVITY	CURIES	0.00E+00	0.00E+00	
D. TRITIUM				
1. TOTAL RELEASE	CURIES	6.99E+00	1.05E+01	50
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	8.99E-01	1.34E+00	
3. PERCENT OF LIMIT (1.80E+05 uCi/sec)	%	5.00E-04	7.44E-04	

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 2006

NUCLIDES RELEASED	UNITS	CONTINUOUS MODE		BATCH MODE	
		QUARTER 1	QUARTER 2	QUARTER 1	QUARTER 2
FISSION GASES					
Argon-41	CURIES	3.90E-01	7.39E-01	0.00E+00	0.00E+00
Xenon-133	CURIES	4.91E+00	2.09E+01	0.00E+00	0.00E+00
Xenon-135	CURIES	4.55E-02	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	5.34E+00	2.16E+01	0.00E+00	0.00E+00
IODINES					
Iodine-131	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Iodine-133	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	4.90E-05	5.43E-05	0.00E+00	0.00E+00
Cobalt-58	CURIES	6.06E-06	5.68E-07	0.00E+00	0.00E+00
Cobalt-60	CURIES	0.00E+00	9.47E-07	0.00E+00	0.00E+00
Chromium-51	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cesium-134	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cesium-137	CURIES	4.76E-07	1.69E-09	0.00E+00	0.00E+00
Manganese-54	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Molybdenum-99	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Niobium-95	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Technetium-99M	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zirconium-95	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	5.56E-05	5.58E-05	0.00E+00	0.00E+00
OTHER					
Hydrogen-3 (Tritium)	CURIES	6.99E+00	1.05E+01	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	6.99E+00	1.05E+01	0.00E+00	0.00E+00

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

Unit: 2

Starting : 1-Jul-2006 Ending : 31-Dec-2006

TYPE OF EFFLUENT	UNITS	QUARTER 3	QUARTER 4	EST. TOT ERROR %
A. FISSION & ACTIVATION PRODUCTS				
1. TOTAL RELEASE	CURIES	2.40E+01	3.60E+01	100
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	3.02E+00	4.53E+00	
3. PERCENT OF LIMIT (9.60E+04 uCi/sec)	%	3.14E-03	4.72E-03	
B. RADIOIODINES				
1. IODINE-131	CURIES	0.00E+00	7.43E-08	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	0.00E+00	9.35E-09	
3. PERCENT OF LIMIT (4.00E-02 uCi/sec)	%	0.00E+00	2.34E-05	
C. PARTICULATES				
1. PARTICULATES(HALF-LIVES>8 DAYS)	CURIES	3.20E-05	3.91E-05	25
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	4.03E-06	4.91E-06	
3. PERCENT OF LIMIT (3.00E-01 uCi/sec)	%	1.34E-03	1.64E-03	
4. GROSS ALPHA RADIOACTIVITY	CURIES	0.00E+00	0.00E+00	
D. TRITIUM				
1. TOTAL RELEASE	CURIES	1.35E+01	1.70E+01	50
2. AVERAGE RELEASE RATE FOR PERIOD	uCi/sec	1.69E+00	2.14E+00	
3. PERCENT OF LIMIT (1.80E+05 uCi/sec)	%	9.40E-04	1.19E-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 2006

NUCLIDES RELEASED	UNITS	CONTINUOUS MODE		BATCH MODE	
		QUARTER 3	QUARTER 4	QUARTER 3	QUARTER 4
FISSION GASES					
Argon-41	CURIES	7.48E-01	1.40E+00	0.00E+00	0.00E+00
Xenon-133	CURIES	2.32E+01	3.46E+01	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	2.40E+01	3.60E+01	0.00E+00	0.00E+00
IODINES					
Iodine-131	CURIES	0.00E+00	7.43E-08	0.00E+00	0.00E+00
Iodine-133	CURIES	0.00E+00	6.04E-07	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	0.00E+00	6.78E-07	0.00E+00	0.00E+00
PARTICULATES					
Beryllium-7	CURIES	3.20E-05	2.59E-05	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
Chromium-51	CURIES	0.00E+00	1.29E-05	0.00E+00	0.00E+00
Cesium-134	CURIES	0.00E+00	5.91E-09	0.00E+00	0.00E+00
Cesium-137	CURIES	2.45E-09	2.12E-08	0.00E+00	0.00E+00
Manganese-54	CURIES	0.00E+00	6.58E-09	0.00E+00	0.00E+00
Molybdenum-99	CURIES	0.00E+00	9.79E-08	0.00E+00	0.00E+00
Niobium-95	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Technetium-99M	CURIES	0.00E+00	1.93E-07	0.00E+00	0.00E+00
Zirconium-95	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	3.20E-05	3.91E-05	0.00E+00	0.00E+00
OTHER					
Hydrogen-3 (Tritium)	CURIES	1.35E+01	1.70E+01	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	1.35E+01	1.70E+01	0.00E+00	0.00E+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 2006

NUCLIDES RELEASED	UNITS	UNIT 1 2006	UNIT 2 2006	TOTAL 2006
FISSION GASES				
Argon-41	CURIES	2.696E+00	3.262E+00	5.958E+00
Xenon-133	CURIES	4.467E+01	8.342E+01	1.281E+02
Xenon-135	CURIES	0.000E+00	4.549E-02	4.549E-02
TOTAL FOR PERIOD	CURIES	4.737E+01	8.673E+01	1.341E+02
IODINES				
Iodine-131	CURIES	3.912E-05	7.096E-08	3.919E-05
Iodine-133	CURIES	1.987E-06	6.041E-07	2.591E-06
TOTAL FOR PERIOD	CURIES	4.111E-05	6.750E-07	4.178E-05
PARTICULATES				
Beryllium-7	CURIES	1.845E-04	1.613E-04	3.458E-04
Cobalt-58	CURIES	1.815E-04	6.631E-06	1.881E-04
Cobalt-60	CURIES	2.740E-05	9.467E-07	2.835E-05
Chromium-51	CURIES	2.183E-04	1.289E-05	2.312E-04
Cesium-134	CURIES	0.000E+00	5.611E-09	5.611E-09
Cesium-137	CURIES	5.286E-08	5.007E-07	5.536E-07
Iron-59	CURIES	3.806E-06	0.000E+00	3.806E-06
Mercury-203	CURIES	1.371E-05	0.000E+00	1.371E-05
Manganese-54	CURIES	1.020E-05	5.243E-09	1.020E-05
Molybdenum-99	CURIES	0.000E+00	9.792E-08	9.792E-08
Niobium-95	CURIES	1.405E-05	0.000E+00	1.405E-05
Niobium-95M	CURIES	8.430E-07	0.000E+00	8.430E-07
Selenium-75	CURIES	8.713E-07	0.000E+00	8.713E-07
Technetium-99M	CURIES	0.000E+00	1.916E-07	1.916E-07
Zirconium-95	CURIES	5.765E-06	0.000E+00	5.765E-06
TOTAL FOR PERIOD	CURIES	6.610E-04	1.825E-04	8.435E-04
OTHER				
Hydrogen-3 (Tritium)	CURIES	3.797E+01	4.780E+01	8.577E+01
TOTAL FOR PERIOD	CURIES	3.797E+01	4.780E+01	8.577E+01

LIQUID EFFLUENTS

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

Unit: 1

Starting : 1-Jan-2006 Ending : 30-Jun-2006

TYPE OF EFFLUENT	UNITS	QUARTER 1	QUARTER 2	EST. TOT ERROR %
A. FISSION & ACTIVATION PRODUCTS				
1. TOTAL RELEASE (NOT INCLUDING TRITIUM, GASES, ALPHA)	CURIES	4.045E-03	3.396E-03	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/mL	5.520E-09	3.323E-09	
3. PERCENT OF EC* LIMIT (FRACTIONAL)	%	9.619E-03	7.762E-03	
B. TRITIUM				
1. TOTAL RELEASE	CURIES	2.571E+02	4.578E+02	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/mL	3.508E-04	4.479E-04	
3. % OF LIMIT (1.00E-02 uCi/mL)	%	3.509E+00	4.478E+00	
C. DISSOLVED AND ENTRAINED GASES				
1. TOTAL RELEASE	CURIES	1.936E-05	7.252E-05	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/mL	2.642E-11	7.096E-11	
3. PERCENT OF LIMIT (2.00E-04 uCi/mL)	%	1.321E-05	3.547E-05	
D. GROSS ALPHA RADIOACTIVITY				
1. TOTAL RELEASE	CURIES	0.000E+00	0.000E+00	10
E. WASTE VOL RELEASED				
1. TOTAL PRE-DILUTION VOLUME	LITERS	7.804E+06	9.020E+06	1
2. BATCH PRE-DILUTION VOLUME	LITERS	3.944E+05	5.521E+05	1
F. VOLUME OF DILUTION WATER USED**	LITERS	7.250E+08	1.013E+09	10

*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 2006

NUCLIDES RELEASED	UNITS	CONTINUOUS RELEASES		BATCH RELEASES	
		QUARTER 1	QUARTER 2	QUARTER 1	QUARTER 2
ALL NUCLIDES					
Silver-110M	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Beryllium-7	CURIES	0.00E+00	0.00E+00	0.00E+00	1.69E-04
Cobalt-57	CURIES	0.00E+00	0.00E+00	0.00E+00	2.99E-06
Cobalt-58	CURIES	0.00E+00	0.00E+00	2.39E-04	2.01E-04
Cobalt-60	CURIES	0.00E+00	0.00E+00	6.95E-04	1.30E-03
Chromium-51	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cesium-134	CURIES	0.00E+00	0.00E+00	1.31E-04	1.03E-04
Cesium-137	CURIES	0.00E+00	0.00E+00	2.42E-04	2.06E-04
Iron-55	CURIES	0.00E+00	0.00E+00	9.47E-04	7.85E-04
Iron-59	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tritium	CURIES	1.88E-01	1.63E-01	2.57E+02	4.58E+02
Iodine-131	CURIES	0.00E+00	0.00E+00	5.01E-06	0.00E+00
Manganese-54	CURIES	0.00E+00	0.00E+00	1.61E-03	5.18E-04
Sodium-24	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Niobium-95	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Antimony-124	CURIES	0.00E+00	0.00E+00	0.00E+00	1.28E-05
Antimony-125	CURIES	0.00E+00	0.00E+00	1.74E-04	9.95E-05
Antimony-126	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tin-117M	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Strontium-89	CURIES	0.00E+00	0.00E+00	9.46E-07	2.31E-06
Strontium-90	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tellurium-125M	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xenon-133	CURIES	0.00E+00	0.00E+00	1.94E-05	7.25E-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
Zinc-65	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zirconium-95	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	1.88E-01	1.63E-01	2.57E+02	4.58E+02

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

Unit: 1

Starting : 1-Jul-2006 Ending : 31-Dec-2006

TYPE OF EFFLUENT	UNITS	QUARTER 3	QUARTER 4	EST. TOT ERROR %
A. FISSION & ACTIVATION PRODUCTS				
1. TOTAL RELEASE (NOT INCLUDING TRITIUM, GASES, ALPHA)	CURIES	1.015E-02	8.888E-03	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/mL	4.156E-09	3.642E-09	
3. PERCENT OF EC* LIMIT (FRACTIONAL)	%	6.606E-03	3.861E-03	
B. TRITIUM				
1. TOTAL RELEASE	CURIES	4.957E+02	1.634E+02	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/mL	2.029E-04	6.695E-05	
3. % OF LIMIT (1.00E-02 uCi/mL)	%	2.029E+00	6.692E-01	
C. DISSOLVED AND ENTRAINED GASES				
1. TOTAL RELEASE	CURIES	5.421E-04	4.640E-03	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/mL	2.219E-10	1.901E-09	
3. PERCENT OF LIMIT (2.00E-04 uCi/mL)	%	1.110E-04	9.505E-04	
D. GROSS ALPHA RADIOACTIVITY				
1. TOTAL RELEASE	CURIES	0.000E+00	0.000E+00	10
E. WASTE VOL RELEASED				
1. TOTAL PRE-DILUTION VOLUME	LITERS	9.475E+06	1.047E+07	1
2. BATCH PRE-DILUTION VOLUME	LITERS	1.170E+06	1.416E+06	1
F. VOLUME OF DILUTION WATER USED**	LITERS	2.433E+09	2.430E+09	10

*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 2006

NUCLIDES RELEASED	UNITS	CONTINUOUS RELEASES		BATCH RELEASES	
		QUARTER 3	QUARTER 4	QUARTER 3	QUARTER 4
ALL NUCLIDES					
Silver-110M	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Beryllium-7	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cobalt-57	CURIES	0.00E+00	0.00E+00	1.50E-05	9.90E-06
Cobalt-58	CURIES	0.00E+00	0.00E+00	1.67E-04	3.83E-04
Cobalt-60	CURIES	0.00E+00	0.00E+00	3.70E-03	2.14E-03
Chromium-51	CURIES	0.00E+00	0.00E+00	0.00E+00	2.40E-03
Cesium-134	CURIES	0.00E+00	0.00E+00	3.31E-05	2.54E-06
Cesium-137	CURIES	0.00E+00	0.00E+00	1.23E-04	2.98E-05
Iron-55	CURIES	0.00E+00	0.00E+00	8.54E-04	5.35E-04
Iron-59	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tritium	CURIES	6.06E-02	2.42E-02	4.96E+02	1.63E+02
Iodine-131	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Manganese-54	CURIES	0.00E+00	0.00E+00	1.37E-03	8.00E-04
Sodium-24	CURIES	0.00E+00	0.00E+00	0.00E+00	2.20E-06
Niobium-95	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Antimony-124	CURIES	0.00E+00	0.00E+00	0.00E+00	4.94E-04
Antimony-125	CURIES	0.00E+00	0.00E+00	2.19E-03	2.05E-03
Antimony-126	CURIES	0.00E+00	0.00E+00	0.00E+00	4.62E-06
Tin-117M	CURIES	0.00E+00	0.00E+00	2.69E-06	2.91E-05
Strontium-89	CURIES	0.00E+00	0.00E+00	3.29E-06	9.78E-06
Strontium-90	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tellurium-125M	CURIES	0.00E+00	0.00E+00	1.70E-03	0.00E+00
Xenon-133	CURIES	0.00E+00	0.00E+00	5.42E-04	3.58E-03
Xenon-133M	CURIES	0.00E+00	0.00E+00	0.00E+00	1.52E-04
Xenon-135	CURIES	0.00E+00	0.00E+00	0.00E+00	9.05E-04
Zinc-65	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zirconium-95	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	6.06E-02	2.42E-02	4.96E+02	1.63E+02

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

Unit: 2

Starting : 1-Jan-2006 Ending : 30-Jun-2006

TYPE OF EFFLUENT	UNITS	QUARTER 1	QUARTER 2	EST. TOT ERROR %
A. FISSION & ACTIVATION PRODUCTS				
1. TOTAL RELEASE (NOT INCLUDING TRITIUM, GASES, ALPHA)	CURIES	7.626E-03	3.881E-03	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/mL	1.041E-08	3.797E-09	
3. PERCENT OF EC* LIMIT (FRACTIONAL)	%	9.240E-03	3.135E-03	
B. TRITIUM				
1. TOTAL RELEASE	CURIES	4.173E+01	1.254E+01	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/mL	5.695E-05	1.227E-05	
3. % OF LIMIT (1.00E-02 uCi/mL)	%	3.023E-01	1.302E-01	
C. DISSOLVED AND ENTRAINED GASES				
1. TOTAL RELEASE	CURIES	1.143E-04	0.000E+00	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/mL	1.560E-10	0.000E+00	
3. PERCENT OF LIMIT (2.00E-04 uCi/mL)	%	4.140E-05	0.000E+00	
D. GROSS ALPHA RADIOACTIVITY				
1. TOTAL RELEASE	CURIES	0.000E+00	0.000E+00	10
E. WASTE VOL RELEASED				
1. TOTAL PRE-DILUTION VOLUME	LITERS	3.671E+06	2.968E+06	1
2. BATCH PRE-DILUTION VOLUME	LITERS	1.006E+06	5.695E+05	1
F. VOLUME OF DILUTION WATER USED**	LITERS	1.377E+09	9.603E+08	10

*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 2006

NUCLIDES RELEASED	UNITS	CONTINUOUS RELEASES		BATCH RELEASES	
		QUARTER 1	QUARTER 2	QUARTER 1	QUARTER 2
ALL NUCLIDES					
Silver-110M	CURIES	0.00E+00	0.00E+00	6.61E-06	0.00E+00
Beryllium-7	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cobalt-57	CURIES	0.00E+00	0.00E+00	4.06E-06	0.00E+00
Cobalt-58	CURIES	0.00E+00	0.00E+00	8.34E-04	3.52E-05
Cobalt-60	CURIES	0.00E+00	0.00E+00	2.54E-03	4.18E-04
Chromium-51	CURIES	0.00E+00	0.00E+00	1.08E-04	4.74E-05
Cesium-134	CURIES	0.00E+00	0.00E+00	6.24E-05	6.78E-06
Cesium-137	CURIES	0.00E+00	0.00E+00	2.19E-04	7.20E-05
Iron-55	CURIES	0.00E+00	0.00E+00	1.48E-03	1.29E-03
Iron-59	CURIES	0.00E+00	0.00E+00	6.28E-06	0.00E+00
Tritium	CURIES	7.25E-02	1.11E-01	4.17E+01	1.24E+01
Iodine-131	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Manganese-54	CURIES	0.00E+00	0.00E+00	5.85E-04	2.15E-05
Sodium-24	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Niobium-95	CURIES	0.00E+00	0.00E+00	3.18E-05	0.00E+00
Antimony-124	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Antimony-125	CURIES	0.00E+00	0.00E+00	1.74E-03	1.98E-03
Antimony-126	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tin-117M	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Strontium-89	CURIES	0.00E+00	0.00E+00	2.68E-06	1.36E-06
Strontium-90	CURIES	0.00E+00	0.00E+00	1.81E-06	3.10E-07
Tellurium-125M	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xenon-133	CURIES	0.00E+00	0.00E+00	1.14E-04	0.00E+00
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
Zinc-65	CURIES	0.00E+00	0.00E+00	0.00E+00	3.29E-06
Zirconium-95	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	CURIES	7.25E-02	1.11E-01	4.17E+01	1.24E+01

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

Unit: 2

Starting : 1-Jul-2006 Ending : 31-Dec-2006

TYPE OF EFFLUENT	UNITS	QUARTER 3	QUARTER 4	EST. TOT ERROR %
A. FISSION & ACTIVATION PRODUCTS				
1. TOTAL RELEASE (NOT INCLUDING TRITIUM, GASES, ALPHA)	CURIES	4.035E-03	1.720E-03	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/mL	1.652E-09	7.048E-10	
3. PERCENT OF EC* LIMIT (FRACTIONAL)	%	3.710E-03	2.155E-03	
B. TRITIUM				
1. TOTAL RELEASE	CURIES	2.934E+02	5.206E+02	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/mL	1.201E-04	2.133E-04	
3. % OF LIMIT (1.00E-02 uCi/mL)	%	2.508E+00	4.207E+00	
C. DISSOLVED AND ENTRAINED GASES				
1. TOTAL RELEASE	CURIES	9.102E-05	2.068E-03	10
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/mL	3.727E-11	8.474E-10	
3. PERCENT OF LIMIT (2.00E-04 uCi/mL)	%	3.890E-05	8.358E-04	
D. GROSS ALPHA RADIOACTIVITY				
1. TOTAL RELEASE	CURIES	0.000E+00	0.000E+00	10
E. WASTE VOL RELEASED				
1. TOTAL PRE-DILUTION VOLUME	LITERS	4.697E+06	4.930E+06	1
2. BATCH PRE-DILUTION VOLUME	LITERS	6.204E+05	7.207E+05	1
F. VOLUME OF DILUTION WATER USED**	LITERS	1.165E+09	1.232E+09	10

*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 2006

NUCLIDES RELEASED	UNITS	CONTINUOUS RELEASES		BATCH RELEASES	
		QUARTER 3	QUARTER 4	QUARTER 3	QUARTER 4
ALL NUCLIDES					
Silver-110M	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Beryllium-7	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cobalt-57	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cobalt-58	CURIES	0.00E+00	0.00E+00	5.42E-05	1.62E-05
Cobalt-60	CURIES	0.00E+00	0.00E+00	7.29E-04	6.63E-04
Chromium-51	CURIES	0.00E+00	0.00E+00	3.28E-05	6.01E-06
Cesium-134	CURIES	0.00E+00	0.00E+00	2.37E-05	0.00E+00
Cesium-137	CURIES	0.00E+00	0.00E+00	8.48E-05	2.46E-05
Iron-55	CURIES	0.00E+00	0.00E+00	1.22E-03	5.82E-04
Iron-59	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tritium	CURIES	1.63E-01	8.77E-02	2.93E+02	5.20E+02
Iodine-131	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Manganese-54	CURIES	0.00E+00	0.00E+00	4.11E-05	1.14E-05
Sodium-24	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Niobium-95	CURIES	0.00E+00	0.00E+00	0.00E+00	4.41E-06
Antimony-124	CURIES	0.00E+00	0.00E+00	1.57E-05	0.00E+00
Antimony-125	CURIES	0.00E+00	0.00E+00	1.83E-03	4.07E-04
Antimony-126	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tin-117M	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Strontium-89	CURIES	0.00E+00	0.00E+00	5.11E-07	1.98E-06
Strontium-90	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Telurium-125M	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xenon-133	CURIES	0.00E+00	0.00E+00	9.10E-05	2.03E-03
Xenon-133M	CURIES	0.00E+00	0.00E+00	0.00E+00	1.14E-05
Xenon-135	CURIES	0.00E+00	0.00E+00	0.00E+00	2.77E-05
Zinc-65	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zirconium-95	CURIES	0.00E+00	0.00E+00	0.00E+00	2.73E-06
TOTAL FOR PERIOD	CURIES	1.63E-01	8.77E-02	2.93E+02	5.20E+02

STP NUCLEAR OPERATING COMPANY

Unit 1 plus 2 Total

REPORT CATEGORY: ANNUAL LIQUID RELEASES. TOTALS FOR EACH
NUCLIDE RELEASED. FOR ALL OF 2006

NUCLIDES RELEASED	UNITS	UNIT 1 2006	UNIT 2 2006	TOTAL 2006
ALL NUCLIDES				
Silver-110M	CURIES	0.00E+00	6.61E-06	6.61E-06
Beryllium-7	CURIES	1.69E-04	0.00E+00	1.69E-04
Cobalt-57	CURIES	2.79E-05	4.06E-06	3.20E-05
Cobalt-58	CURIES	9.91E-04	9.40E-04	1.93E-03
Cobalt-60	CURIES	7.82E-03	4.35E-03	1.22E-02
Chromium-51	CURIES	2.40E-03	1.94E-04	2.60E-03
Cesium-134	CURIES	2.70E-04	9.29E-05	3.63E-04
Cesium-137	CURIES	6.01E-04	4.01E-04	1.00E-03
Iron-55	CURIES	3.12E-03	4.58E-03	7.70E-03
Iron-59	CURIES	0.00E+00	6.28E-06	6.28E-06
Tritium	CURIES	1.37E+03	8.68E+02	2.24E+03
Iodine-131	CURIES	5.01E-06	0.00E+00	5.01E-06
Manganese-54	CURIES	4.30E-03	6.59E-04	4.96E-03
Sodium-24	CURIES	2.20E-06	0.00E+00	2.20E-06
Niobium-95	CURIES	0.00E+00	3.62E-05	3.62E-05
Antimony-124	CURIES	5.07E-04	1.57E-05	5.23E-04
Antimony-125	CURIES	4.51E-03	5.97E-03	1.05E-02
Antimony-126	CURIES	4.62E-06	0.00E+00	4.62E-06
Tin-117M	CURIES	3.17E-05	0.00E+00	3.17E-05
Strontium-89	CURIES	1.63E-05	6.53E-06	2.29E-05
Strontium-90	CURIES	0.00E+00	2.12E-06	2.12E-06
Tellurium-125M	CURIES	1.70E-03	0.00E+00	1.70E-03
Xenon-133	CURIES	4.22E-03	2.23E-03	6.45E-03
Xenon-133M	CURIES	1.52E-04	1.14E-05	1.64E-04
Xenon-135	CURIES	9.05E-04	2.77E-05	9.33E-04
Zinc-65	CURIES	0.00E+00	3.29E-06	3.29E-06
Zirconium-95	CURIES	0.00E+00	2.73E-06	2.73E-06
TOTAL FOR PERIOD	CURIES	1.37E+03	8.68E+02	2.24E+03
TOTAL Noble Gases	CURIES	5.28E-03	2.27E-03	7.55E-03
TOTAL Excluding Tritium & Noble Gases	CURIES	2.65E-02	1.73E-02	4.38E-02

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		Est. Total Error, %	
		Period Shipped	Period Buried		
a. Spent resins, filter sludges, evaporator bottoms, etc.	m ³	2.55E+01	4.36E+00	-1.0E+00	+1.0E+00
	Ci	3.94E+02	3.90E+02	-5.0E+01	+1.0E+02
b. Dry compressible waste, contaminated equip., etc.	m ³	5.15E+02	1.64E+02	-1.0E+00	+1.0E+00
	Ci	4.63E-01	6.02E-01	-6.6E+01	+2.0E+02
c. Irradiated components, control rods, etc.	m ³	0.00E+00	0.00E+00	N/A	N/A
	Ci	0.00E+00	0.00E+00		
d. Other (low level secondary resin, sludge, oily waste, and miscellaneous expendable materials)	m ³	7.70E+00	0.00E+00	-1.0E+00	+1.0E+00
	Ci	1.54E-04	0.00E+00	-5.0E+01	+1.0E+02

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

a. Spent resins, filters, evaporator bottoms, etc.		
Nickel-63	%	5.47E+01
Cesium-137	%	1.48E+01
Iron-55	%	1.20E+01
Cobalt-60	%	9.17E+00
Cesium-134	%	5.97E+00
Manganese-54	%	1.82E+00
Tritium	%	7.60E-01
Antimony-125	%	2.70E-01
Cobalt-58	%	2.20E-01

b. Dry compressible waste, contaminated equip., etc.		
Cobalt-58	%	4.69 E+01
Chromium-51	%	2.49 E+01
Iron-55	%	1.06 E+01
Cobalt-60	%	4.00 E+00
Niobium-95	%	3.93 E+00
Nickel-63	%	2.49 E+00
Antimony-124	%	1.84 E+00
Zirconium-95	%	1.74 E+00
Manganese-54	%	1.44 E+00
Iron-59	%	7.80 E-01
Antimony-125	%	5.60 E-01
Silver-110m	%	4.80 E-01

c. N/A		
	N/A	N/A

d. Other (secondary resins, sludge, oily waste, and miscellaneous expendable materials)		
Iron-55	%	4.23E+01
Cobalt-60	%	1.67E+01
Cesium-137	%	1.40E+01
Nickel-63	%	1.29E+01
Cerium-144	%	1.01E+01
Cesium-134	%	3.68E+00
Manganese-54	%	1.40E-01
Cobalt-58	%	1.20E-01

3. Solid Waste Disposition:

Number of Shipments	Mode of Transportation	Destination
9	Truck	Studs vik Processing Facility, LLC 151 TC Runnion Rd. Erwin, Tn 37650
9	Truck	GTS-Duratek 1560 Bear Creek Road Oak Ridge, TN 37830
0	Truck	Chem-Nuclear Systems Barnwell Waste Management Facility 740 Osborn Rd. Barnwell, SC 29812
1	Truck	GTS-Duratek Gallaher Road Facility 628 Gallaher Rd. Kingston, TN 37763

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

5. Type of Containers Used for Shipment:
General Design, High-Integrity Containers, and Type A casks

6. Solidifying Agent:
N/A

B. IRRADIATED FUEL SHIPMENTS (Disposal)
No shipments made during this period.

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-2006 Ending: 31-Dec-2006

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (mrem)	AGE GROUP	LOCATION DIST DIR (m) (TOWARD)	% OF APPLICABLE LIMIT	LIMIT (mrad or mrem)
LIQUID	TOTAL BODY	7.90E-03	ADULT	RECEPTOR 3 ⁽⁵⁾	2.63E-01	3.0
LIQUID	GI-TRACT	8.01E-03	ADULT	RECEPTOR 3 ⁽⁵⁾	8.01E-02	10.0
NOBLE GAS	AIR DOSE (gamma-mrad)	1.87E-03		1720m NW	1.87E-02	10.0
NOBLE GAS	AIR DOSE (beta-mrad)	1.95E-03		1720m NW	9.73E-03	20.0
NOBLE GAS	TOTAL BODY	1.20E-03	ALL ⁽¹⁾	1720m NW	2.41E-02	5.0
NOBLE GAS	TOTAL BODY	1.49E-04	ALL ⁽²⁾	5600m N	2.98E-03	5.0
NOBLE GAS	SKIN	2.28E-03	ALL ⁽¹⁾	1720m NW	1.52E-02	15.0
NOBLE GAS	SKIN	2.80E-04	ALL ⁽²⁾	7200m NW	1.87E-03	15.0
IODINE, PARTICULATES & TRITIUM	GI-TRACT	5.45E-03	CHILD ⁽¹⁾	1720m NW	3.63E-02	15.0
IODINE, PARTICULATES & TRITIUM	GI-TRACT	1.23E-03	CHILD ⁽²⁾	4000m WSW	8.22E-03	15.0

SUMMARY OF POPULATION DOSES FOR 2006			
EFFLUENT	APPLICABLE ORGAN	ESTIMATED POPULATION DOSE (person-rem)	AVERAGE DOSE TO POPULATION (rem per person)
LIQUID	TOTAL BODY	6.4E-04	1.2E-07 ⁽³⁾
GASEOUS	TOTAL BODY	6.5E-03	6.2E-10 ⁽⁴⁾

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 shore line exposure and for salt water invertebrate ingestion and 3,800 for salt water sport fish ingestion.
- ⁽⁴⁾ Calculation based on a population of 299,000 within fifty (50) miles of South Texas Project Electric Generating Station.
- ⁽⁵⁾Receptor 3 is an individual 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-2006 Ending: 31-Dec-2006

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (mrem)	AGE GROUP	LOCATION DIST DIR (m) (TOWARD)	% OF APPLICABLE LIMIT	LIMIT (mrad or mrem)
LIQUID	TOTAL BODY	4.99E-03	ADULT	RECEPTOR 3 ⁽⁵⁾	1.66E-01	3.0
LIQUID	GI-TRACT	5.04E-03	ADULT	RECEPTOR 3 ⁽⁵⁾	5.04E-02	10.0
NOBLE GAS	AIR DOSE (gamma-mrad)	3.00E-03		1720m NW	3.00E-02	10.0
NOBLE GAS	AIR DOSE (beta-mrad)	5.63E-03		1720m NW	2.82E-02	20.0
NOBLE GAS	TOTAL BODY	1.86E-03	ALL ⁽¹⁾	1720m NW	3.71E-02	5.0
NOBLE GAS	TOTAL BODY	3.80E-04	ALL ⁽²⁾	4000m WSW	7.60E-03	5.0
NOBLE GAS	SKIN	4.21E-03	ALL ⁽¹⁾	1720m NW	2.81E-02	15.0
NOBLE GAS	SKIN	8.31E-04	ALL ⁽²⁾	4000m WSW	5.54E-03	15.0
IODINE, PARTICULATES & TRITIUM	THYROID	7.12E-03	CHILD ⁽¹⁾	1720m NW	4.75E-02	15.0
IODINE, PARTICULATES & TRITIUM	THYROID	1.72E-03	CHILD ⁽²⁾	4000m WSW	1.15E-02	15.0

SUMMARY OF POPULATION DOSES FOR 2006			
EFFLUENT	APPLICABLE ORGAN	ESTIMATED POPULATION DOSE (person-rem)	AVERAGE DOSE TO POPULATION (rem per person)
LIQUID	TOTAL BODY	4.0E-04	7.6E-08 ⁽³⁾
GASEOUS	TOTAL BODY	9.2E-03	9.2E-10 ⁽⁴⁾

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 shore line exposure and for salt water invertebrate ingestion and 3,800 for salt water sport fish ingestion.
⁽⁴⁾ Calculation based on a population of 299,000 within fifty (50) miles of South Texas Project Electric Generating Station.
⁽⁵⁾Receptor 3 is an individual 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-2006 Ending: 31-Dec-2006

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	7.90E-03	4.99E-03	1.29E-02	ADULT	RECEPTOR 3 ⁽⁵⁾
LIQUID	GI-TRACT	8.01E-03	5.04E-03	1.31E-02	ADULT	RECEPTOR 3 ⁽⁵⁾
NOBLE GAS	AIR DOSE (gamma-mrad)	1.87E-03	3.00E-03	4.87E-03		1720m NW
NOBLE GAS	AIR DOSE (beta-mrad)	1.95E-03	5.63E-03	7.58E-03		1720m NW
NOBLE GAS	TOTAL BODY	1.20E-03	1.86E-03	3.06E-03	ALL ⁽¹⁾	1720m NW
NOBLE GAS	TOTAL BODY	1.22E-04	3.80E-04	5.03E-04	ALL ⁽²⁾	4000m WSW
NOBLE GAS	SKIN	2.28E-03	4.21E-03	6.49E-03	ALL ⁽¹⁾	1720m NW
NOBLE GAS	SKIN	2.66E-04	8.31E-04	1.10E-03	ALL ⁽²⁾	4000m WSW
IODINE, PARTICULATES & TRITIUM	THYROID	5.45E-03	7.12E-03	1.26E-02	CHILD ⁽¹⁾	1720m NW
IODINE, PARTICULATES & TRITIUM	THYROID	1.23E-03	1.72E-03	2.95E-03	CHILD ⁽²⁾	4000m WSW
IODINE, PARTICULATES & TRITIUM	TOTAL BODY	9.08E-04	1.33E-03	2.23E-03	ADULT ⁽²⁾	4000m WSW

SUMMARY OF POPULATION DOSES FOR 2006			
EFFLUENT	APPLICABLE ORGAN	TOTAL 1+2 ESTIMATED POPULATION DOSE (person-rem)	TOTAL 1+2 AVERAGE DOSE TO POPULATION (rem per person)
LIQUID	TOTAL BODY	1.0E-03	2.0E-07 ⁽³⁾
GASEOUS	TOTAL BODY	1.6E-02	8.3E-10 ⁽⁴⁾

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 shore line exposure and for salt water invertebrate ingestion and 3,800 for salt water sport fish ingestion.
- ⁽⁴⁾Calculation based on a population of 299,000 within fifty (50) miles of South Texas Project Electric Generating Station.
- ⁽⁵⁾Receptor 3 is an individual 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 2006

MONITORING STATION NUMBER (Noted on Figure 8-1)	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4	AVERAGE RATE	AVERAGE NET RATE
UNITS	milliroentgen	milliroentgen	milliroentgen	milliroentgen	milliroentgen per quarter	milliroentgen per hour
PROTECTED AREA						
1	13.3	12.6	13.4	13.9	13.3	0.0
2	12.9	12.7	12.5	13.8	13.0	0.0
3	13.6	12.8	13.3	14.6	13.6	0.0
4	13.0	12.9	12.9	14.3	13.3	0.0
5	14.2	13.5	14.1	14.5	14.1	0.0
6	14.2	13.9	14.4	15.6	14.5	0.0
7	14.4	13.5	15.5	16.3	14.9	0.0
8	13.0	12.8	12.6	14.5	13.2	0.0
9	12.8	12.2	12.4	13.4	12.7	0.0
10	11.9	11.5	12.1	12.2	11.9	0.0
11	11.4	11.5	11.7	13.3	12.0	0.0
12	12.3	13.1	12.2	13.0	12.7	0.0
13	12.9	12.7	12.3	13.1	12.8	0.0
14	12.3	11.6	12.1	12.4	12.1	0.0
15	12.8	12.5	13.6	14.0	13.2	0.0
16	12.6	12.1	12.7	13.0	12.6	0.0
ONSITE STAGING FACILITY (OUTSIDE STORAGE)						
17	11.2	11.1	11.4	35.1	17.2	0.0008
18	12.3	11.1	12.5	175.1	52.8	0.0171
19	11.6	10.9	11.5	224.4	64.6	0.0225
20	14.2	12.2	14.0	21.6	15.5	0.0001
ONSITE STAGING FACILITY (WAREHOUSE D)						
21	12.8	14.0	13.7	15.5	14.0	0.0000
22	15.4	13.4	15.2	19.4	15.9	0.0002
23	12.6	11.5	11.0	18.3	13.4	0.0000
24	15.9	14.6	15.6	46.7	23.2	0.0036
OLD STEAM GENERATOR STORAGE FACILITY						
25	13.8	12.6	12.5	12.6	12.9	0.0000
26	16.7	15.1	15.9	15.3	15.8	0.0002
27	15.6	13.6	14.1	14.7	14.5	0.0000
28	14.1	12.1	12.1	13.8	13.0	0.0000

Notes for Onsite Direct Radiation Measurements

Measurement Results

Individual values normalized to a 91 day quarter.

Only the calcium sulfate elements were used in these averages.

Average Net Rate:

Difference between the exposure rate in 2006 and the rate measured in 1986 due to natural background

(average rate - 15.4 mR background) / 91 days / 24 hours per day

The 1986 background rate of 15.4 mR at the site boundary has been used to reflect the pre-operational 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, monitoring stations 6 and 7 have at times exceeded the background exposure rate at the site boundary due to radioactive waste processing activities on the south side of Units 1 and 2. Waste processing activities during 2006 did not cause these two stations exceed the site area background.

During the last quarter of 2006, radioactive waste was staged in the Onsite Staging Facility. The monitoring stations surrounding the onsite staging facility indicated exposure rates greater than background.

Zero

Zero (0 or 0.0000) indicate background levels

Milliroentgen

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

A.R.E - Site Map

Figure 8-1

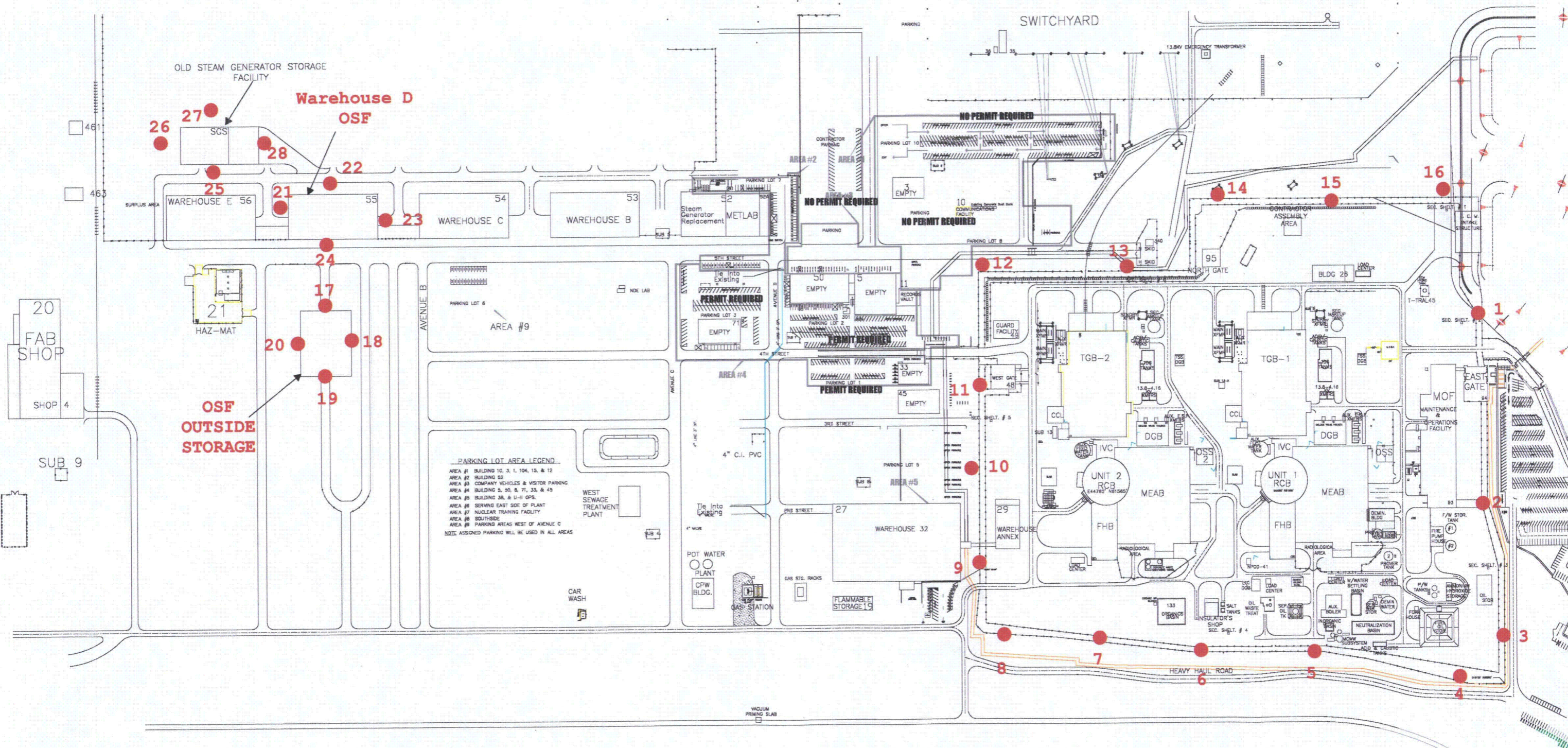


Figure 8-1

● — Direct Radiation Monitoring Stations



STP SITE		
NTS	NSCGRAIEROMAPSIA.R.E. - KIM	4/20/07

JOINT FREQUENCY TABLES

Joint Frequency Table

From : 01/01/2006 00:00 To : 03/31/2006 23:00

PRIMARY TOWER

Joint Frequency Table**From** : 01/01/2006 00:00 **To** : 03/31/2006 23:00**PRIMARY TOWER****STABILTY CLASS A**

Wind Speed (MPH) ->	(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
Sector											
N	0	2	4	1	0	0	0	0	7	5.8%	5.5
NNE	0	1	4	0	0	1	0	0	6	5.0%	8.2
NE	0	0	5	2	0	0	0	0	7	5.8%	6.6
ENE	0	1	1	0	0	0	0	0	2	1.7%	4.4
E	0	0	2	0	0	0	0	0	2	1.7%	6.1
ESE	0	1	1	0	6	0	0	0	8	6.6%	11.9
SE	0	1	0	1	3	4	0	0	9	7.4%	16.3
SSE	0	0	0	1	9	8	0	0	18	14.9%	18.1
S	0	0	2	19	15	0	0	0	36	29.8%	11.9
SSW	0	1	1	10	0	0	0	0	12	9.9%	9.5
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	1	0	0	0	0	1	0.8%	10.3
WNW	0	0	0	2	1	0	0	0	3	2.5%	11.7
NW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNW	0	1	2	6	0	1	0	0	10	8.3%	8.7
Total	0	8	22	43	34	14	0	0	121		
% Of Total	0.0%	6.6%	18.2%	35.5%	28.1%	11.6%	0.0%	0.0%			

Average speed for this table (MPH): 11.5
 Hours in above table with variable direction : 0
 Total number of CALMs : 2
 Total number of Invalid hours : 0
 Total number of Valid hours : 2160
 Total number of hours for period : 2160

Joint Frequency Table**From** : 01/01/2006 00:00 **To** : 03/31/2006 23:00**PRIMARY TOWER****STABILTY CLASS B**

Wind Speed (MPH) ->	(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
Sector											
N	0	0	2	7	1	0	0	0	10	13.3%	9.3
NNE	0	2	2	2	1	0	0	0	7	9.3%	7.2
NE	0	0	3	2	0	0	0	0	5	6.7%	7.9
ENE	0	1	0	0	1	0	0	0	2	2.7%	7.3
E	0	2	0	2	2	0	0	0	6	8.0%	8.8
ESE	0	3	0	1	3	0	0	0	7	9.3%	8.9
SE	0	0	3	0	4	1	0	0	8	10.7%	12.5
SSE	0	0	1	0	2	1	0	0	4	5.3%	14.6
S	0	0	2	8	1	0	0	0	11	14.7%	10.2
SSW	0	0	4	1	0	0	0	0	5	6.7%	6.6
SW	0	0	0	0	1	0	0	0	1	1.3%	13.6
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	1	0	0	0	0	0	1	1.3%	7.1
WNW	0	0	0	2	0	0	0	0	2	2.7%	10.0
NW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNW	0	1	2	3	0	0	0	0	6	8.0%	6.6
Total	0	9	20	28	16	2	0	0	75		
% Of Total	0.0%	12.0%	26.7%	37.3%	21.3%	2.7%	0.0%	0.0%			

Average speed for this table (MPH): 9.3
 Hours in above table with variable direction : 0
 Total number of CALMs : 2
 Total number of Invalid hours : 0
 Total number of Valid hours : 2160
 Total number of hours for period : 2160

Joint Frequency TableFrom : 01/01/2006 00:00 To : 03/31/2006 23:00PRIMARY TOWERSTABILTY CLASS C

Wind Speed (MPH) ->	(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
Sector											
N	0	1	5	12	20	2	0	0	40	22.1%	12.8
NNE	0	0	2	1	1	0	0	0	4	2.2%	8.8
NE	0	1	3	4	3	0	0	0	11	6.1%	9.9
ENE	0	0	2	2	1	0	0	0	5	2.8%	9.2
E	0	1	0	0	3	0	0	0	4	2.2%	11.3
ESE	0	0	0	1	5	0	0	0	6	3.3%	15.4
SE	0	0	0	7	11	0	0	0	18	9.9%	13.3
SSE	0	0	3	8	1	2	0	0	14	7.7%	11.0
S	0	0	2	6	0	0	0	0	8	4.4%	8.6
SSW	0	0	4	3	0	0	0	0	7	3.9%	7.2
SW	0	0	1	0	0	0	0	0	1	0.6%	4.3
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	1	1	0	0	0	0	2	1.1%	7.1
WNW	0	1	4	7	0	0	0	0	12	6.6%	7.6
NW	0	0	2	2	0	0	0	0	4	2.2%	7.3
NNW	0	1	4	13	24	3	0	0	45	24.9%	13.2
Total	0	5	33	67	69	7	0	0	181		
% Of Total	0.0%	2.8%	18.2%	37.0%	38.1%	3.9%	0.0%	0.0%			

Average speed for this table (MPH): 11.5
 Hours in above table with variable direction : 0
 Total number of CALMs : 2
 Total number of Invalid hours : 0
 Total number of Valid hours : 2160
 Total number of hours for period : 2160

Joint Frequency Table

From : 01/01/2006 00:00 **To** : 03/31/2006 23:00

PRIMARY TOWER

STABILTY 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	14	20	50	61	4	0	0	149	12.8%	10.9
NNE	0	11	14	44	6	0	0	0	75	6.4%	8.2
NE	0	8	10	21	10	0	0	0	49	4.2%	8.7
ENE	0	11	14	22	3	0	0	0	50	4.3%	7.3
E	0	15	10	19	9	2	0	0	55	4.7%	8.5
ESE	0	11	10	32	12	4	0	0	69	5.9%	9.8
SE	0	3	18	54	31	5	0	0	111	9.5%	10.8
SSE	0	1	18	57	50	3	0	0	129	11.1%	11.7
S	0	4	37	85	36	0	0	0	162	13.9%	9.6
SSW	0	0	25	38	19	0	0	0	82	7.0%	10.1
SW	0	0	3	21	5	0	0	0	29	2.5%	10.2
WSW	0	2	13	11	3	0	0	0	29	2.5%	7.9
W	1	0	9	5	3	0	0	0	18	1.5%	7.6
WNW	0	4	17	3	0	0	0	0	24	2.1%	5.5
NW	0	5	9	8	5	7	0	0	34	2.9%	11.1
NNW	1	6	25	34	28	4	1	0	99	8.5%	10.6
Total	2	95	252	504	281	29	1	0	1164		
% Of Total	0.2%	8.2%	21.6%	43.3%	24.1%	2.5%	0.1%	0.0%			

Average speed for this table (MPH) : 9.9
 Hours in above table with variable direction : 0
 Total number of CALMs : 2
 Total number of Invalid hours : 0
 Total number of Valid hours : 2160
 Total number of hours for period : 2160

Joint Frequency Table**From** : 01/01/2006 00:00 **To** : 03/31/2006 23:00**PRIMARY TOWER****STABILTY CLASS E**

Wind Speed (MPH) ->	(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
Sector											
N	0	5	11	8	0	0	0	0	24	4.8%	6.1
NNE	0	6	13	17	0	0	0	0	36	7.2%	6.8
NE	0	7	17	8	1	0	0	0	33	6.6%	6.1
ENE	0	7	28	11	1	0	0	0	47	9.4%	6.3
E	0	4	11	16	1	0	0	0	32	6.4%	7.6
ESE	0	2	33	10	3	0	0	0	48	9.6%	7.0
SE	0	4	45	19	6	0	0	0	74	14.8%	7.4
SSE	0	1	39	60	4	1	0	0	105	21.0%	8.6
S	0	0	31	14	0	0	0	0	45	9.0%	7.2
SSW	0	0	5	0	0	0	0	0	5	1.0%	5.8
SW	0	0	0	0	1	0	0	0	1	0.2%	13.9
WSW	0	0	1	2	0	0	0	0	3	0.6%	7.8
W	0	1	5	0	0	0	0	0	6	1.2%	4.8
WNW	0	1	6	1	0	0	0	0	8	1.6%	5.4
NW	0	3	11	7	0	0	0	0	21	4.2%	6.2
NNW	0	1	11	1	0	0	0	0	13	2.6%	5.5
Total	0	42	267	174	17	1	0	0	501		
% Of Total	0.0%	8.4%	53.3%	34.7%	3.4%	0.2%	0.0%	0.0%			

Average speed for this table (MPH): 7.1
 Hours in above table with variable direction : 0
 Total number of CALMs : 2
 Total number of Invalid hours : 0
 Total number of Valid hours : 2160
 Total number of hours for period : 2160

Joint Frequency Table**From** : 01/01/2006 00:00 **To** : 03/31/2006 23:00**PRIMARY TOWER****STABILTY CLASS F**

Wind Speed (MPH) ->	(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
Sector											
N	0	0	0	0	0	0	0	0	0	0.0%	0.0
NNE	0	2	4	2	0	0	0	0	8	9.6%	5.7
NE	0	0	4	0	0	0	0	0	4	4.8%	5.0
ENE	0	1	6	0	0	0	0	0	7	8.4%	5.9
E	0	3	11	2	0	0	0	0	16	19.3%	5.4
ESE	0	2	10	0	0	0	0	0	12	14.5%	5.5
SE	0	1	4	0	0	0	0	0	5	6.0%	4.4
SSE	0	0	10	2	0	0	0	0	12	14.5%	6.7
S	0	0	8	0	0	0	0	0	8	9.6%	6.5
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	1.2%	5.3
WNW	0	1	1	0	0	0	0	0	2	2.4%	4.2
NW	0	0	4	4	0	0	0	0	8	9.6%	6.9
NNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
Total	0	10	63	10	0	0	0	0	83		
% Of Total	0.0%	12.0%	75.9%	12.0%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 5.8
 Hours in above table with variable direction : 0
 Total number of CALMs : 2
 Total number of Invalid hours : 0
 Total number of Valid hours : 2160
 Total number of hours for period : 2160

Joint Frequency Table**From** : 01/01/2006 00:00 **To** : 03/31/2006 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%	0.0
NNE	0	0	1	0	0	0	0	0	1	2.9%	4.8
NE	0	2	3	0	0	0	0	0	5	14.3%	4.0
ENE	0	2	3	0	0	0	0	0	5	14.3%	4.4
E	0	2	2	0	0	0	0	0	4	11.4%	3.5
ESE	0	3	4	0	0	0	0	0	7	20.0%	3.7
SE	0	2	4	0	0	0	0	0	6	17.1%	4.4
SSE	0	0	1	0	0	0	0	0	1	2.9%	5.3
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	1	1	0	0	0	0	0	2	5.7%	3.9
NW	0	0	4	0	0	0	0	0	4	11.4%	5.4
NNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
Total	0	12	23	0	0	0	0	0	35		
% Of Total	0.0%	34.3%	65.7%	0.0%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 4.2
 Hours in above table with variable direction : 0
 Total number of CALMs : 2
 Total number of Invalid hours : 0
 Total number of Valid hours : 2160
 Total number of hours for period : 2160

Joint Frequency Table**From** : 01/01/2006 00:00 **To** : 03/31/2006 23:00**PRIMARY TOWER****ALL STABILITY CLASSES COMBINED**

Wind Speed (MPH) ->	(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
Sector											
N	0	22	42	78	82	6	0	0	230	10.6%	10.5
NNE	0	22	40	66	8	1	0	0	137	6.3%	7.6
NE	0	18	45	37	14	0	0	0	114	5.3%	7.6
ENE	0	23	54	35	6	0	0	0	118	5.5%	6.7
E	0	27	36	39	15	2	0	0	119	5.5%	7.7
ESE	0	22	58	44	29	4	0	0	157	7.3%	8.6
SE	0	11	74	81	55	10	0	0	231	10.7%	9.9
SSE	0	2	72	128	66	15	0	0	283	13.1%	10.7
S	0	4	82	132	52	0	0	0	270	12.5%	9.4
SSW	0	1	39	52	19	0	0	0	111	5.1%	9.5
SW	0	0	4	21	7	0	0	0	32	1.5%	10.2
WSW	0	2	14	13	3	0	0	0	32	1.5%	7.9
W	1	1	17	7	3	0	0	0	29	1.3%	7.0
WNW	0	8	29	15	1	0	0	0	53	2.5%	6.4
NW	0	8	30	21	5	7	0	0	71	3.3%	8.6
NNW	1	10	44	57	52	8	1	0	173	8.0%	10.7
Total	2	181	680	826	417	53	1	0	2160		
% Of Total	0.1%	8.4%	31.5%	38.2%	19.3%	2.5%	0.0%	0.0%			

Average speed for this table (MPH): 9.1
 Hours above table with variable direction : 0
 Total number of CALMs : 2
 Total number of Invalid hours : 0
 Total number of Valid hours : 2160
 Total number of hours for period : 2160

Second Quarter 2006

Joint Frequency Tables

Joint Frequency Table

From : 04/01/2006 00:00 To : 06/30/2006 23:00

PRIMARY TOWER

Second Quarter 2006

Joint Frequency Tables

Joint Frequency Table**From** : 04/01/2006 00:00 **To** : 06/30/2006 23:00**PRIMARY TOWER****STABILTY 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	5	1	0	0	0	7	2.8%	10.7
NNE	0	1	0	0	0	0	0	0	1	0.4%	1.2
NE	0	0	0	0	0	0	0	0	0	0.0%	0.0
ENE	0	0	1	0	0	0	0	0	1	0.4%	6.2
E	0	0	1	0	2	0	0	0	3	1.2%	10.9
ESE	0	0	6	3	12	0	0	0	21	8.5%	11.8
SE	0	0	8	17	25	2	0	0	52	21.1%	12.1
SSE	0	0	0	11	25	3	0	0	39	15.9%	13.8
S	0	0	5	44	37	1	0	0	87	35.4%	12.0
SSW	0	1	4	14	0	0	0	0	19	7.7%	8.2
SW	0	0	3	0	0	0	0	0	3	1.2%	5.2
WSW	0	1	1	0	0	0	0	0	2	0.8%	4.9
W	0	0	0	1	0	0	0	0	1	0.4%	8.3
WNW	0	1	0	2	0	0	0	0	3	1.2%	6.4
NW	0	0	0	1	0	0	0	0	1	0.4%	9.3
NNW	0	0	0	0	6	0	0	0	6	2.4%	16.3
Total	0	4	30	98	108	6	0	0	246		
% Of Total	0.0%	1.6%	12.2%	39.8%	43.9%	2.4%	0.0%	0.0%			

Average speed for this table (MPH): 11.7
 Hours in above table with variable direction : 0
 Total number of CALMs : 2
 Total number of Invalid hours : 2
 Total number of Valid hours : 2182
 Total number of hours for period : 2184

Second Quarter 2006

Joint Frequency Tables

Joint Frequency Table**From** : 04/01/2006 00:00 **To** : 06/30/2006 23:00**PRIMARY TOWER****STABILTY CLASS B**

Wind Speed (MPH) ->	(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
Sector											
N	0	0	1	1	1	0	0	0	3	1.9%	12.4
NNE	0	0	0	3	0	0	0	0	3	1.9%	10.9
NE	0	0	0	0	0	0	0	0	0	0.0%	0.0
ENE	0	0	0	1	0	0	0	0	1	0.6%	10.6
E	0	0	4	1	0	0	0	0	5	3.1%	6.3
ESE	0	0	4	8	6	0	0	0	18	11.2%	10.7
SE	0	0	2	19	19	2	0	0	42	26.1%	12.2
SSE	0	0	0	15	10	1	0	0	26	16.1%	12.0
S	0	0	4	27	3	1	0	0	35	21.7%	10.4
SSW	0	0	11	3	0	0	0	0	14	8.7%	6.9
SW	0	0	1	1	0	0	0	0	2	1.2%	7.3
WSW	0	0	3	0	0	0	0	0	3	1.9%	5.7
W	0	0	1	0	0	0	0	0	1	0.6%	6.9
WNW	0	0	2	1	0	0	0	0	3	1.9%	7.1
NW	0	0	1	1	0	0	0	0	2	1.2%	7.2
NNW	0	1	1	1	0	0	0	0	3	1.9%	6.2
Total	0	1	35	82	39	4	0	0	161		
% Of Total	0.0%	0.6%	21.7%	50.9%	24.2%	2.5%	0.0%	0.0%			

Average speed for this table (MPH): 10.5
 Hours in above table with variable direction : 0
 Total number of CALMs : 2
 Total number of Invalid hours : 2
 Total number of Valid hours : 2182
 Total number of hours for period : 2184

Second Quarter 2006

Joint Frequency Tables

Joint Frequency TableFrom : 04/01/2006 00:00 To : 06/30/2006 23:00PRIMARY TOWERSTABILTY CLASS C

Wind Speed (MPH) ->	(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
Sector											
N	0	0	3	4	1	0	0	0	8	5.0%	8.5
NNE	0	0	1	1	0	0	0	0	2	1.2%	9.4
NE	0	0	1	1	0	1	0	0	3	1.9%	12.9
ENE	0	0	2	0	0	0	0	0	2	1.2%	5.8
E	0	0	1	3	0	0	0	0	4	2.5%	9.1
ESE	0	0	2	11	5	0	0	0	18	11.2%	10.5
SE	0	0	1	23	6	1	0	0	31	19.3%	11.1
SSE	0	0	1	21	7	2	0	0	31	19.3%	11.3
S	0	0	6	15	4	0	0	0	25	15.5%	9.9
SSW	0	0	6	1	0	0	0	0	7	4.3%	5.8
SW	0	0	6	0	0	0	0	0	6	3.7%	5.0
WSW	0	1	1	0	0	0	0	0	2	1.2%	5.3
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	1	5	1	0	0	0	0	7	4.3%	5.6
NW	0	0	8	2	0	0	0	0	10	6.2%	6.2
NNW	0	0	0	1	4	0	0	0	5	3.1%	14.4
Total	0	2	44	84	27	4	0	0	161		
% Of Total	0.0%	1.2%	27.3%	52.2%	16.8%	2.5%	0.0%	0.0%			

Average speed for this table (MPH): 9.7
 Hours in above table with variable direction : 0
 Total number of CALMs : 2
 Total number of Invalid hours : 2
 Total number of Valid hours : 2182
 Total number of hours for period : 2184

Second Quarter 2006

Joint Frequency Tables

Joint Frequency Table**From** : 04/01/2006 00:00 **To** : 06/30/2006 23:00**PRIMARY TOWER****STABILTY CLASS D**

Wind Speed (MPH) ->	(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
Sector											
N	0	4	12	10	10	1	0	0	37	5.8%	9.7
NNE	0	5	12	12	3	4	0	0	36	5.7%	9.4
NE	0	4	8	5	0	1	0	0	18	2.8%	6.8
ENE	0	3	13	3	1	0	0	0	20	3.1%	5.6
E	1	2	22	6	2	0	0	0	33	5.2%	6.4
ESE	0	2	10	21	7	1	0	0	41	6.5%	9.5
SE	0	0	22	64	34	4	0	0	124	19.5%	11.2
SSE	0	1	19	80	27	1	0	0	128	20.2%	10.3
S	0	2	24	56	7	0	0	0	89	14.0%	8.8
SSW	0	2	13	13	1	0	0	0	29	4.6%	7.0
SW	0	2	15	4	0	0	0	0	21	3.3%	5.6
WSW	0	0	4	3	0	0	0	0	7	1.1%	6.6
W	0	4	6	2	0	0	0	0	12	1.9%	4.9
WNW	0	3	5	1	0	0	0	0	9	1.4%	5.0
NW	0	4	7	3	0	0	0	0	14	2.2%	5.4
NNW	0	3	10	2	2	0	0	0	17	2.7%	6.6
Total	1	41	202	285	94	12	0	0	635		
% Of Total	0.2%	6.5%	31.8%	44.9%	14.8%	1.9%	0.0%	0.0%			

Average speed for this table (MPH): 9.0
Hours in above table with variable direction : 0
Total number of CALMs : 2
Total number of Invalid hours : 2
Total number of Valid hours : 2182
Total number of hours for period : 2184

Second Quarter 2006

Joint Frequency Table**From** : 04/01/2006 00:00 **To** : 06/30/2006 23:00**PRIMARY TOWER****STABILTY CLASS E**

Wind Speed (MPH) ->	(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
Sector											
N	0	1	7	7	7	2	0	0	24	3.7%	10.7
NNE	0	1	20	9	2	1	0	0	33	5.0%	7.6
NE	0	5	15	9	0	0	0	0	29	4.4%	6.2
ENE	0	4	12	4	0	0	0	0	20	3.1%	6.0
E	0	3	24	1	1	0	0	0	29	4.4%	5.6
ESE	0	3	23	15	2	0	0	0	43	6.6%	7.2
SE	0	2	58	52	13	0	0	0	125	19.1%	8.3
SSE	0	1	80	98	17	2	0	0	198	30.2%	8.7
S	0	1	40	26	1	0	0	0	68	10.4%	7.4
SSW	0	2	25	5	0	0	0	0	32	4.9%	5.6
SW	0	0	8	2	0	0	0	0	10	1.5%	6.2
WSW	0	1	1	0	0	0	0	0	2	0.3%	5.4
W	0	1	3	0	0	0	0	0	4	0.6%	4.2
WNW	0	2	4	0	1	0	0	0	7	1.1%	6.3
NW	0	3	10	0	0	0	0	0	13	2.0%	4.8
NNW	0	0	12	4	2	0	0	0	18	2.7%	7.0
Total	0	30	342	232	46	5	0	0	655		
% Of Total	0.0%	4.6%	52.2%	35.4%	7.0%	0.8%	0.0%	0.0%			

Average speed for this table (MPH) : 7.7
 Hours in above table with variable direction : 0
 Total number of CALMs : 2
 Total number of Invalid hours : 2
 Total number of Valid hours : 2182
 Total number of hours for period : 2184

Second Quarter 2006

Joint Frequency Tables

Joint Frequency Table**From** : 04/01/2006 00:00 **To** : 06/30/2006 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	6	4	1	0	0	0	0	11	5.9%	4.1
NNE	0	5	5	2	0	0	0	0	12	6.4%	4.6
NE	0	6	6	0	0	0	0	0	12	6.4%	3.7
ENE	0	9	4	0	0	0	0	0	13	6.9%	3.2
E	0	7	5	1	0	0	0	0	13	6.9%	4.3
ESE	0	12	13	1	0	0	0	0	26	13.8%	3.9
SE	0	12	31	3	0	0	0	0	46	24.5%	4.9
SSE	0	4	15	0	0	0	0	0	19	10.1%	4.8
S	0	2	2	0	0	0	0	0	4	2.1%	3.8
SSW	0	0	0	0	1	0	0	0	1	0.5%	12.9
SW	0	1	1	0	0	0	0	0	2	1.1%	3.3
WSW	0	2	0	0	0	0	0	0	2	1.1%	3.0
W	0	4	1	0	0	0	0	0	5	2.7%	2.9
WNW	0	7	0	0	0	0	0	0	7	3.7%	3.0
NW	0	3	2	0	0	0	0	0	5	2.7%	3.3
NNW	0	7	3	0	0	0	0	0	10	5.3%	3.4
Total	0	87	92	8	1	0	0	0	188		
% Of Total	0.0%	46.3%	48.9%	4.3%	0.5%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 4.2
 Hours in above table with variable direction : 0
 Total number of CALMs : 2
 Total number of Invalid hours : 2
 Total number of Valid hours : 2182
 Total number of hours for period : 2184

Second Quarter 2006

Joint Frequency Tables

Joint Frequency Table**From** : 04/01/2006 00:00 **To** : 06/30/2006 23:00**PRIMARY TOWER****STABILITY CLASS G**

Wind Speed (MPH) ->	(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
Sector											
N	0	3	5	0	0	0	0	0	8	5.9%	4.2
NNE	1	12	10	0	0	0	0	0	23	16.9%	3.5
NE	0	18	6	0	0	0	0	0	24	17.6%	3.1
ENE	0	13	1	0	0	0	0	0	14	10.3%	2.9
E	0	12	1	0	0	0	0	0	13	9.6%	2.4
ESE	0	9	5	0	0	0	0	0	14	10.3%	3.9
SE	0	5	10	0	0	0	0	0	15	11.0%	4.0
SSE	0	0	0	0	0	0	0	0	0	0.0%	0.0
S	0	0	1	0	0	0	0	0	1	0.7%	5.5
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	3	0	0	0	0	0	5	3.7%	3.7
WNW	0	4	1	0	0	0	0	0	5	3.7%	3.0
NW	0	6	2	0	0	0	0	0	8	5.9%	3.1
NNW	0	5	1	0	0	0	0	0	6	4.4%	2.4
Total	1	89	46	0	0	0	0	0	136		
% Of Total	0.7%	65.4%	33.8%	0.0%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 3.3
Hours in above table with variable direction : 0
Total number of CALMs : 2
Total number of Invalid hours : 2
Total number of Valid hours : 2182
Total number of hours for period : 2184

Second Quarter 2006

Joint Frequency TableFrom : 04/01/2006 00:00 To : 06/30/2006 23:00PRIMARY TOWERALL STABILITY CLASSES COMBINED

Wind Speed (MPH) ->	(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
Sector											
N	0	14	33	28	20	3	0	0	98	4.5%	8.9
NNE	1	24	48	27	5	5	0	0	110	5.0%	7.0
NE	0	33	36	15	0	2	0	0	86	3.9%	5.4
ENE	0	29	33	8	1	0	0	0	71	3.3%	4.8
E	1	24	58	12	5	0	0	0	100	4.6%	5.6
ESE	0	26	63	59	32	1	0	0	181	8.3%	8.2
SE	0	19	132	178	97	9	0	0	435	19.9%	9.6
SSE	0	6	115	225	86	9	0	0	441	20.2%	9.8
S	0	5	82	168	52	2	0	0	309	14.2%	9.6
SSW	0	5	59	36	2	0	0	0	102	4.7%	6.8
SW	0	3	34	7	0	0	0	0	44	2.0%	5.6
WSW	0	5	10	3	0	0	0	0	18	0.8%	5.6
W	0	11	14	3	0	0	0	0	28	1.3%	4.4
WNW	0	18	17	5	1	0	0	0	41	1.9%	5.0
NW	0	16	30	7	0	0	0	0	53	2.4%	5.0
NNW	0	16	27	8	14	0	0	0	65	3.0%	7.3
Total	2	254	791	789	315	31	0	0	2182		
% Of Total	0.1%	11.6%	36.3%	36.2%	14.4%	1.4%	0.0%	0.0%			

Average speed for this table (MPH): 8.3
 Hours in above table with variable direction : 0
 Total number of CALMs : 2
 Total number of Invalid hours : 2
 Total number of Valid hours : 2182
 Total number of hours for period : 2184

Third Quarter 2006

Joint Frequency Tables

Joint Frequency Table

From : 07/01/2006 00:00 **To** : 09/30/2006 23:00

PRIMARY TOWER

Third Quarter 2006

Joint Frequency Table

From : 07/01/2006 00:00 **To** : 09/30/2006 23:00

PRIMARY TOWER

STABILTY CLASS A

Wind Speed (MPH) ->	(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
Sector											
N	0	0	2	3	0	0	0	0	5	6.1%	7.0
NNE	0	0	3	5	0	0	0	0	8	9.8%	8.1
NE	0	0	3	1	0	0	0	0	4	4.9%	5.8
ENE	0	1	0	0	0	0	0	0	1	1.2%	3.5
E	0	0	2	0	0	0	0	0	2	2.4%	3.8
ESE	0	0	2	0	2	0	0	0	4	4.9%	9.2
SE	0	0	0	1	1	0	0	0	2	2.4%	12.7
SSE	0	0	1	0	0	0	0	0	1	1.2%	5.5
S	0	0	1	34	2	0	0	0	37	45.1%	10.2
SSW	0	0	2	9	0	0	0	0	11	13.4%	8.2
SW	0	0	2	0	0	0	0	0	2	2.4%	5.4
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	1	1	0	0	0	0	0	2	2.4%	5.0
NNW	0	0	3	0	0	0	0	0	3	3.7%	4.9
Total	0	2	22	53	5	0	0	0	82		
% Of Total	0.0%	2.4%	26.8%	64.6%	6.1%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 8.6
 Hours in above table with variable direction : 0
 Total number of CALMs : 1
 Total number of Invalid hours : 0
 Total number of Valid hours : 2208
 Total number of hours for period : 2208

Third Quarter 2006

Joint Frequency Tables

Joint Frequency Table**From** : 07/01/2006 00:00 **To** : 09/30/2006 23:00**PRIMARY TOWER****STABILTY 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	2	0	0	0	0	5	3.8%	6.3
NNE	0	0	3	3	0	0	0	0	6	4.5%	8.1
NE	0	0	0	1	0	0	0	0	1	0.8%	8.4
ENE	0	0	0	2	0	0	0	0	2	1.5%	9.1
E	0	0	0	4	0	0	0	0	4	3.0%	9.8
ESE	0	0	0	4	1	0	0	0	5	3.8%	11.0
SE	0	0	2	13	3	0	0	0	18	13.6%	10.0
SSE	0	0	1	7	2	0	0	0	10	7.6%	10.4
S	0	0	15	32	9	0	0	0	56	42.4%	9.8
SSW	0	0	8	8	1	0	0	0	17	12.9%	7.9
SW	0	1	2	1	0	0	0	0	4	3.0%	5.3
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	0	1	0	0	0	0	0	1	0.8%	5.2
WNW	0	0	0	0	0	0	0	0	0	0.0%	0.0
NW	0	0	0	1	0	0	0	0	1	0.8%	7.6
NNW	0	0	2	0	0	0	0	0	2	1.5%	4.1
Total	0	1	37	78	16	0	0	0	132		
% Of Total	0.0%	0.8%	28.0%	59.1%	12.1%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 9.2
 Hours in above table with variable direction : 0
 Total number of CALMs : 1
 Total number of Invalid hours : 0
 Total number of Valid hours : 2208
 Total number of hours for period : 2208

Third Quarter 2006

Joint Frequency Tables

Joint Frequency Table**From** : 07/01/2006 00:00 **To** : 09/30/2006 23:00**PRIMARY TOWER****STABILTY CLASS C**

Wind Speed (MPH) ->	(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
Sector											
N	0	2	5	1	0	0	0	0	8	4.9%	5.4
NNE	0	1	4	3	0	0	0	0	8	4.9%	6.8
NE	0	1	4	1	0	0	0	0	6	3.7%	5.8
ENE	0	1	1	0	0	0	0	0	2	1.2%	4.2
E	0	0	1	0	0	0	0	0	1	0.6%	5.0
ESE	0	0	2	3	1	0	0	0	6	3.7%	8.3
SE	0	0	3	20	2	0	0	0	25	15.4%	9.9
SSE	0	0	1	23	4	0	0	0	28	17.3%	10.3
S	0	0	15	21	6	0	0	0	42	25.9%	9.4
SSW	0	0	7	7	0	0	0	0	14	8.6%	7.2
SW	0	0	5	0	0	0	0	0	5	3.1%	5.0
WSW	0	0	0	0	0	0	0	0	0	0.0%	0.0
W	0	3	2	0	0	0	0	0	5	3.1%	3.6
WNW	0	1	4	0	0	0	0	0	5	3.1%	4.6
NW	0	2	2	0	0	0	0	0	4	2.5%	4.3
NNW	0	1	2	0	0	0	0	0	3	1.9%	4.2
Total	0	12	58	79	13	0	0	0	162		
% Of Total	0.0%	7.4%	35.8%	48.8%	8.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 8.2
 Hours in above table with variable direction : 0
 Total number of CALMs : 1
 Total number of Invalid hours : 0
 Total number of Valid hours : 2208
 Total number of hours for period : 2208

Third Quarter 2006

Joint Frequency Tables

Joint Frequency TableFrom : 07/01/2006 00:00 To : 09/30/2006 23:00PRIMARY TOWERSTABILITY CLASS D

Wind Speed (MPH) ->	(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
Sector											
N	0	10	11	7	0	0	0	0	28	5.3%	5.8
NNE	0	4	12	8	0	0	0	0	24	4.5%	6.2
NE	0	6	20	4	0	0	0	0	30	5.7%	5.0
ENE	0	6	17	1	0	0	0	0	24	4.5%	4.9
E	0	6	12	8	0	0	0	0	26	4.9%	6.5
ESE	0	2	16	10	0	0	0	0	28	5.3%	6.9
SE	0	1	26	46	1	0	0	0	74	14.0%	8.2
SSE	0	4	33	59	9	0	0	0	105	19.9%	8.5
S	0	4	29	48	14	0	0	0	95	18.0%	8.9
SSW	0	2	20	6	2	0	0	0	30	5.7%	7.0
SW	0	0	10	0	0	0	0	0	10	1.9%	5.7
WSW	0	0	4	2	0	0	0	0	6	1.1%	6.1
W	0	5	8	0	0	0	0	0	13	2.5%	4.2
WNW	0	3	6	0	0	0	0	0	9	1.7%	4.3
NW	0	2	4	0	0	0	0	0	6	1.1%	3.6
NNW	0	11	8	1	0	0	0	0	20	3.8%	3.9
Total	0	66	236	200	26	0	0	0	528		
% Of Total	0.0%	12.5%	44.7%	37.9%	4.9%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 7.2
 Hours in above table with variable direction : 0
 Total number of CALMs : 1
 Total number of Invalid hours : 0
 Total number of Valid hours : 2208
 Total number of hours for period : 2208

Third Quarter 2006

Joint Frequency Tables

Joint Frequency Table**From** : 07/01/2006 00:00 **To** : 09/30/2006 23:00**PRIMARY TOWER****STABILTY CLASS E**

Wind Speed (MPH) ->	(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
Sector											
N	0	6	17	9	0	0	0	0	32	4.8%	5.9
NNE	0	4	17	2	0	0	0	0	23	3.5%	4.9
NE	0	4	12	1	0	0	0	0	17	2.6%	5.2
ENE	0	11	16	0	0	0	0	0	27	4.1%	3.9
E	0	2	9	3	0	0	0	0	14	2.1%	5.5
ESE	0	8	15	11	2	0	0	0	36	5.4%	6.3
SE	0	4	83	22	1	0	0	0	110	16.6%	6.3
SSE	0	2	98	62	9	1	0	0	172	25.9%	7.6
S	0	0	66	42	10	0	0	0	118	17.8%	8.1
SSW	0	1	41	7	0	0	0	0	49	7.4%	6.4
SW	0	0	7	4	1	0	0	0	12	1.8%	8.4
WSW	0	0	5	0	0	0	0	0	5	0.8%	5.6
W	0	1	4	0	0	0	0	0	5	0.8%	5.5
WNW	0	3	1	0	0	0	0	0	4	0.6%	2.7
NW	0	7	9	1	0	0	0	0	17	2.6%	3.8
NNW	0	5	17	0	0	0	0	0	22	3.3%	4.1
Total	0	58	417	164	23	1	0	0	663		
% Of Total	0.0%	8.7%	62.9%	24.7%	3.5%	0.2%	0.0%	0.0%			

Average speed for this table (MPH): 6.6
 Hours in above table with variable direction : 0
 Total number of CALMs : 1
 Total number of Invalid hours : 0
 Total number of Valid hours : 2208
 Total number of hours for period : 2208

Third Quarter 2006

Joint Frequency Tables

Joint Frequency Table**From** : 07/01/2006 00:00 **To** : 09/30/2006 23:00**PRIMARY TOWER****STABILTY CLASS F**

Wind Speed (MPH) ->	(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
Sector											
N	0	17	9	0	0	0	0	0	26	7.2%	3.5
NNE	0	22	16	0	0	0	0	0	38	10.6%	3.8
NE	0	19	10	0	0	0	0	0	29	8.1%	3.5
ENE	0	21	8	0	0	0	0	0	29	8.1%	3.1
E	0	30	14	0	0	0	0	0	44	12.3%	3.0
ESE	0	22	15	0	0	0	0	0	37	10.3%	3.3
SE	0	28	53	1	0	0	0	0	82	22.8%	4.2
SSE	0	5	38	0	0	0	0	0	43	12.0%	4.7
S	0	1	4	0	1	0	0	0	6	1.7%	5.6
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	2	1	0	0	0	0	0	3	0.8%	3.0
W	0	3	0	0	0	0	0	0	3	0.8%	2.9
WNW	0	4	0	0	0	0	0	0	4	1.1%	3.1
NW	0	5	1	0	0	0	0	0	6	1.7%	2.8
NNW	0	7	2	0	0	0	0	0	9	2.5%	2.9
Total	0	186	171	1	1	0	0	0	359		
% Of Total	0.0%	51.8%	47.6%	0.3%	0.3%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 3.7
 Hours in above table with variable direction : 0
 Total number of CALMs : 1
 Total number of Invalid hours : 0
 Total number of Valid hours : 2208
 Total number of hours for period : 2208

Third Quarter 2006

Joint Frequency Tables

Joint Frequency Table**From** : 07/01/2006 00:00 **To** : 09/30/2006 23:00**PRIMARY TOWER****STABILITY CLASS G**

Wind Speed (MPH) ->	(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
Sector											
N	0	18	3	0	0	0	0	0	21	7.4%	2.9
NNE	0	42	18	0	0	0	0	0	60	21.3%	3.1
NE	0	44	3	0	0	0	0	0	47	16.7%	2.6
ENE	0	33	7	0	0	0	0	0	40	14.2%	2.7
E	1	38	4	0	0	0	0	0	43	15.2%	2.6
ESE	0	21	3	0	0	0	0	0	24	8.5%	2.8
SE	0	14	13	0	0	0	0	0	27	9.6%	3.5
SSE	0	1	0	0	0	0	0	0	1	0.4%	3.4
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	1	2	0	0	0	0	0	3	1.1%	3.6
WNW	0	4	0	0	0	0	0	0	4	1.4%	3.1
NW	0	1	4	0	0	0	0	0	5	1.8%	3.5
NNW	0	6	1	0	0	0	0	0	7	2.5%	2.9
Total	1	223	58	0	0	0	0	0	282		
% Of Total	0.4%	79.1%	20.6%	0.0%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 2.9
 Hours in above table with variable direction : 0
 Total number of CALMs : 1
 Total number of Invalid hours : 0
 Total number of Valid hours : 2208
 Total number of hours for period : 2208

Third Quarter 2006

Joint Frequency TableFrom : 07/01/2006 00:00 To : 09/30/2006 23:00PRIMARY TOWERALL STABILITY CLASSES COMBINED

Wind Speed (MPH) ->	(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
Sector											
N	0	53	50	22	0	0	0	0	125	5.7%	4.9
NNE	0	73	73	21	0	0	0	0	167	7.6%	4.5
NE	0	74	52	8	0	0	0	0	134	6.1%	3.9
ENE	0	73	49	3	0	0	0	0	125	5.7%	3.6
E	1	76	42	15	0	0	0	0	134	6.1%	4.0
ESE	0	53	53	28	6	0	0	0	140	6.3%	5.3
SE	0	47	180	103	8	0	0	0	338	15.3%	6.5
SSE	0	12	172	151	24	1	0	0	360	16.3%	7.8
S	0	5	130	177	42	0	0	0	354	16.0%	8.9
SSW	0	3	78	37	3	0	0	0	121	5.5%	7.0
SW	0	1	26	5	1	0	0	0	33	1.5%	6.5
WSW	0	2	10	2	0	0	0	0	14	0.6%	5.3
W	0	13	17	0	0	0	0	0	30	1.4%	4.1
WNW	0	15	11	0	0	0	0	0	26	1.2%	3.7
NW	0	18	21	2	0	0	0	0	41	1.9%	3.8
NNW	0	30	35	1	0	0	0	0	66	3.0%	3.8
Total	1	548	999	575	84	1	0	0	2208		
% Of Total	0.0%	24.8%	45.2%	26.0%	3.8%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 6.1
Hours in above table with variable direction : 0
Total number of CALMs : 1
Total number of Invalid hours : 0
Total number of Valid hours : 2208
Total number of hours for period : 2208

Fourth Quarter 2006

Joint Frequency Tables

Joint Frequency Table

From : 10/01/2006 00:00 To : 12/31/2006 23:00

PRIMARY TOWER

Fourth Quarter 2006

Joint Frequency Tables

Joint Frequency Table**From** : 10/01/2006 00:00 **To** : 12/31/2006 23:00**PRIMARY TOWER****STABILTY 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	5	3	0	0	0	8	15.1%	11.8
NNE	0	0	2	0	0	0	0	0	2	3.8%	6.2
NE	0	0	1	0	0	0	0	0	1	1.9%	5.9
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	3	0	0	0	0	3	5.7%	9.1
SE	0	0	0	3	4	0	0	0	7	13.2%	12.2
SSE	0	0	1	4	0	0	0	0	5	9.4%	9.1
S	0	0	1	3	0	0	0	0	4	7.5%	9.9
SSW	0	0	0	3	1	0	0	0	4	7.5%	10.1
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	1	0	0	0	0	0	1	1.9%	3.6
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	3	8	0	2	2	0	15	28.3%	13.1
NNW	0	0	0	1	2	0	0	0	3	5.7%	12.9
Total	0	0	9	30	10	2	2	0	53		
% Of Total	0.0%	0.0%	17.0%	56.6%	18.9%	3.8%	3.8%	0.0%			

Average speed for this table (MPH) : 11.1
 Hours in above table with variable direction : 0
 Total number of CALMs : 4
 Total number of Invalid hours : 1
 Total number of Valid hours : 2207
 Total number of hours for period : 2208

Fourth Quarter 2006

Joint Frequency Tables

Joint Frequency TableFrom : 10/01/2006 00:00 To : 12/31/2006 23:00PRIMARY TOWERSTABILTY 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	2	7	4	1	0	0	14	21.5%	11.7
NNE	0	0	1	2	0	0	0	0	3	4.6%	8.9
NE	0	0	1	0	1	0	0	0	2	3.1%	10.8
ENE	0	0	0	0	0	0	0	0	0	0.0%	0.0
E	0	0	1	1	0	0	0	0	2	3.1%	7.3
ESE	0	0	1	2	0	0	0	0	3	4.6%	9.6
SE	0	0	0	3	2	1	0	0	6	9.2%	12.6
SSE	0	0	0	3	1	0	0	0	4	6.2%	11.6
S	0	0	0	12	1	0	0	0	13	20.0%	10.8
SSW	0	0	0	4	0	0	0	0	4	6.2%	9.0
SW	0	0	0	3	1	0	0	0	4	6.2%	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	0	0	0	0	0	0	0	0.0%	0.0
NW	0	0	1	2	2	2	0	0	7	10.8%	14.8
NNW	0	0	1	1	1	0	0	0	3	4.6%	10.6
Total	0	0	8	40	13	4	0	0	65		
% Of Total	0.0%	0.0%	12.3%	61.5%	20.0%	6.2%	0.0%	0.0%			

Average speed for this table (MPH): 11.3
 Hours in above table with variable direction : 0
 Total number of CALMs : 4
 Total number of Invalid hours : 1
 Total number of Valid hours : 2207
 Total number of hours for period : 2208

Fourth Quarter 2006

Joint Frequency Table

From : 10/01/2006 00:00 **To** : 12/31/2006 23:00

PRIMARY TOWER

STABILTY CLASS C

Wind Speed (MPH) ->	(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
Sector											
N	0	0	1	4	1	0	0	0	6	7.1%	10.2
NNE	0	0	0	7	1	0	0	0	8	9.4%	10.3
NE	0	0	0	1	2	0	0	0	3	3.5%	13.9
ENE	0	0	0	0	0	0	0	0	0	0.0%	0.0
E	0	0	2	0	0	0	0	0	2	2.4%	7.0
ESE	0	0	0	1	3	0	0	0	4	4.7%	13.7
SE	0	0	0	5	7	0	0	0	12	14.1%	12.1
SSE	0	0	1	5	3	0	0	0	9	10.6%	11.4
S	0	0	2	15	2	0	0	0	19	22.4%	10.5
SSW	0	0	1	5	0	0	0	0	6	7.1%	9.7
SW	0	0	0	2	0	0	0	0	2	2.4%	10.2
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	0	1	0	0	0	0	1	1.2%	10.2
NW	0	0	3	0	2	1	0	0	6	7.1%	11.1
NNW	0	0	1	3	2	1	0	0	7	8.2%	12.5
Total	0	0	11	49	23	2	0	0	85		
% Of Total	0.0%	0.0%	12.9%	57.6%	27.1%	2.4%	0.0%	0.0%			

Average speed for this table (MPH): 11.1
 Hours in above table with variable direction : 0
 Total number of CALMs : 4
 Total number of Invalid hours : 1
 Total number of Valid hours : 2207
 Total number of hours for period : 2208

Fourth Quarter 2006

Joint Frequency Tables

Joint Frequency TableFrom : 10/01/2006 00:00 To : 12/31/2006 23:00PRIMARY TOWERSTABILTY 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	3	12	35	16	0	0	0	66	9.6%	10.0
NNE	0	1	21	53	7	1	0	0	83	12.1%	9.3
NE	0	4	23	28	7	0	0	0	62	9.1%	8.2
ENE	0	5	15	40	4	0	0	0	64	9.3%	8.5
E	0	0	27	25	8	0	0	0	60	8.8%	8.6
ESE	0	1	8	38	8	0	0	0	55	8.0%	10.0
SE	0	0	12	40	20	3	0	0	75	10.9%	10.8
SSE	0	0	11	30	13	0	0	0	54	7.9%	10.2
S	0	1	17	31	3	0	0	0	52	7.6%	8.8
SSW	0	1	10	8	2	0	0	0	21	3.1%	7.6
SW	0	0	3	6	3	0	0	0	12	1.8%	10.1
WSW	0	0	1	1	0	0	0	0	2	0.3%	7.4
W	0	0	0	0	1	0	0	0	1	0.1%	14.7
WNW	0	2	8	3	0	0	0	0	13	1.9%	6.2
NW	0	2	6	5	15	6	0	0	34	5.0%	13.1
NNW	0	2	9	12	7	1	0	0	31	4.5%	9.6
Total	0	22	183	355	114	11	0	0	685		
% Of Total	0.0%	3.2%	26.7%	51.8%	16.6%	1.6%	0.0%	0.0%			

Average speed for this table (MPH): 9.5
 Hours in above table with variable direction : 0
 Total number of CALMs : 4
 Total number of Invalid hours : 1
 Total number of Valid hours : 2207
 Total number of hours for period : 2208

Fourth Quarter 2006

Joint Frequency Tables

Joint Frequency TableFrom : 10/01/2006 00:00 To : 12/31/2006 23:00PRIMARY TOWERSTABILTY CLASS E

Wind Speed (MPH) ->	(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
Sector											
N	0	6	35	26	9	0	0	0	76	10.9%	7.9
NNE	0	3	23	24	1	0	0	0	51	7.3%	7.5
NE	0	5	34	23	0	0	0	0	62	8.9%	6.5
ENE	0	6	35	18	0	0	0	0	59	8.5%	6.4
E	0	6	33	9	1	0	0	0	49	7.1%	5.9
ESE	0	7	37	31	12	0	0	0	87	12.5%	8.1
SE	0	0	23	46	1	2	0	0	72	10.4%	8.9
SSE	0	2	23	44	8	0	0	0	77	11.1%	9.0
S	0	2	25	24	7	1	0	0	59	8.5%	8.5
SSW	0	0	7	10	2	0	0	0	19	2.7%	8.8
SW	0	1	0	1	0	0	0	0	2	0.3%	7.1
WSW	0	0	2	2	0	0	0	0	4	0.6%	7.9
W	0	3	0	0	0	0	0	0	3	0.4%	2.4
WNW	0	4	3	2	0	0	0	0	9	1.3%	4.8
NW	0	8	13	21	4	0	0	0	46	6.6%	7.8
NNW	0	3	8	7	2	0	0	0	20	2.9%	7.1
Total	0	56	301	288	47	3	0	0	695		
% Of Total	0.0%	8.1%	43.3%	41.4%	6.8%	0.4%	0.0%	0.0%			

Average speed for this table (MPH): 7.7
 Hours in above table with variable direction : 0
 Total number of CALMs : 4
 Total number of Invalid hours : 1
 Total number of Valid hours : 2207
 Total number of hours for period : 2208

Fourth Quarter 2006

Joint Frequency Tables

Joint Frequency TableFrom : 10/01/2006 00:00 To : 12/31/2006 23:00PRIMARY TOWERSTABILTY CLASS F

Wind Speed (MPH) ->	(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
Sector											
N	0	0	12	0	0	0	0	0	12	4.3%	5.6
NNE	0	3	16	10	0	0	0	0	29	10.5%	6.3
NE	0	6	26	3	0	0	0	0	35	12.7%	5.1
ENE	0	8	6	0	0	0	0	0	14	5.1%	3.5
E	0	9	29	0	0	0	0	0	38	13.8%	4.6
ESE	1	9	13	1	0	0	0	0	24	8.7%	4.0
SE	0	5	19	9	0	0	0	0	33	12.0%	6.0
SSE	0	3	21	3	0	0	0	0	27	9.8%	5.4
S	0	2	4	0	0	0	0	0	6	2.2%	4.8
SSW	0	1	5	0	0	0	0	0	6	2.2%	4.5
SW	0	0	1	1	0	0	0	0	2	0.7%	6.9
WSW	0	2	1	1	0	0	0	0	4	1.4%	4.9
W	0	2	1	0	0	0	0	0	3	1.1%	2.7
WNW	1	7	2	0	0	0	0	0	10	3.6%	2.8
NW	0	2	18	3	0	0	0	0	23	8.3%	5.2
NNW	0	1	8	1	0	0	0	0	10	3.6%	5.6
Total	2	60	182	32	0	0	0	0	276		
% Of Total	0.7%	21.7%	65.9%	11.6%	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 : 4
 Total number of Invalid hours : 1
 Total number of Valid hours : 2207
 Total number of hours for period : 2208

Fourth Quarter 2006

Joint Frequency Tables

Joint Frequency Table**From** : 10/01/2006 00:00 **To** : 12/31/2006 23:00**PRIMARY TOWER****STABILITY CLASS G**

Wind Speed (MPH) ->	(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
Sector											
N	0	11	8	0	0	0	0	0	19	5.5%	3.7
NNE	0	20	32	2	0	0	0	0	54	15.5%	4.2
NE	0	26	38	0	0	0	0	0	64	18.4%	3.8
ENE	0	25	16	0	0	0	0	0	41	11.8%	3.3
E	0	20	12	0	0	0	0	0	32	9.2%	3.2
ESE	0	20	9	0	0	0	0	0	29	8.3%	3.2
SE	0	19	19	0	0	0	0	0	38	10.9%	3.7
SSE	1	2	10	0	0	0	0	0	13	3.7%	3.9
S	0	5	0	0	0	0	0	0	5	1.4%	2.6
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	1	1	0	0	0	0	0	0	2	0.6%	1.1
W	0	3	3	0	0	0	0	0	6	1.7%	3.5
WNW	0	5	20	0	0	0	0	0	25	7.2%	4.3
NW	0	4	10	1	0	0	0	0	15	4.3%	4.9
NNW	0	2	3	0	0	0	0	0	5	1.4%	4.0
Total	2	163	180	3	0	0	0	0	348		
% Of Total	0.6%	46.8%	51.7%	0.9%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 3.7
 Hours in above table with variable direction : 0
 Total number of CALMs : 4
 Total number of Invalid hours : 1
 Total number of Valid hours : 2207
 Total number of hours for period : 2208

Fourth Quarter 2006

Joint Frequency TableFrom : 10/01/2006 00:00 To : 12/31/2006 23:00PRIMARY TOWERALL STABILITY CLASSES COMBINED

Wind Speed (MPH) ->	(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
Sector											
N	0	20	70	77	33	1	0	0	201	9.1%	8.6
NNE	0	27	95	98	9	1	0	0	230	10.4%	7.3
NE	0	41	123	55	10	0	0	0	229	10.4%	6.1
ENE	0	44	72	58	4	0	0	0	178	8.1%	6.2
E	0	35	104	35	9	0	0	0	183	8.3%	6.1
ESE	1	37	68	76	23	0	0	0	205	9.3%	7.6
SE	0	24	73	106	34	6	0	0	243	11.0%	8.6
SSE	1	7	67	89	25	0	0	0	189	8.6%	8.6
S	0	10	49	85	13	1	0	0	158	7.2%	8.7
SSW	0	2	23	30	5	0	0	0	60	2.7%	8.1
SW	0	1	4	13	4	0	0	0	22	1.0%	9.7
WSW	1	3	5	4	0	0	0	0	13	0.6%	5.6
W	0	8	4	0	1	0	0	0	13	0.6%	3.9
WNW	1	18	33	6	0	0	0	0	58	2.6%	4.7
NW	0	16	54	40	23	11	2	0	146	6.6%	9.4
NNW	0	8	30	25	14	2	0	0	79	3.6%	8.5
Total	4	301	874	797	207	22	2	0	2207		
% Of Total	0.2%	13.6%	39.6%	36.1%	9.4%	1.0%	0.1%	0.0%			

Average speed for this table (MPH): 7.6
Hours in above table with variable direction : 0
Total number of CALMs : 4
Total number of Invalid hours : 1
Total number of Valid hours : 2207
Total number of hours for period : 2208

Joint Frequency Table - Batch Release Hours

From : 07/01/2006 00:00 **To** : 09/30/2006 23:00

PRIMARY TOWER

Joint Frequency Table - Batch Release Hours

From : 07/01/2006 00:00 **To** : 09/30/2006 23:00

PRIMARY TOWER

STABILTY CLASS A

Wind Speed (MPH) ->	(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
Sector											
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	0	0	0	0	0	0.0%	0.0
SSE	0	0	0	0	0	0	0	0	0	0.0%	0.0
S	0	0	0	1	0	0	0	0	1	*****	9.3
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	0	0	0	0	1		
% Of Total	0.0%	0.0%	0.0%	*****	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 9.3
 Hours in above table with variable direction : 0
 Total number of CALMs : 0
 Total number of Invalid hours : 0
 Total number of Valid hours : 26
 Total number of hours for period : 26

Joint Frequency Table - Batch Release Hours

From : 07/01/2006 00:00 **To** : 09/30/2006 23:00

PRIMARY TOWER

STABILITY CLASS B

Wind Speed (MPH) ->	(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
Sector											
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	0	0	0	0	0	0.0%	0.0
SSE	0	0	0	0	0	0	0	0	0	0.0%	0.0
S	0	0	0	4	0	0	0	0	4	*****	8.6
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	4	0	0	0	0	4		
% Of Total	0.0%	0.0%	0.0%	*****	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 8.6
 Hours in above table with variable direction : 0
 Total number of CALMs : 0
 Total number of Invalid hours : 0
 Total number of Valid hours : 26
 Total number of hours for period : 26

Joint Frequency Table - Batch Release Hours

From : 07/01/2006 00:00 **To** : 09/30/2006 23:00

PRIMARY TOWER

STABILTY CLASS C

Wind Speed (MPH) ->	(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
Sector											
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	0	0	0	0	0	0.0%	0.0
SSE	0	0	0	0	0	0	0	0	0	0.0%	0.0
S	0	0	1	0	0	0	0	0	1	50.0%	7.5
SSW	0	0	0	1	0	0	0	0	1	50.0%	8.7
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	1	0	0	0	0	2		
% Of Total	0.0%	0.0%	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 8.1
 Hours in above table with variable direction : 0
 Total number of CALMs : 0
 Total number of Invalid hours : 0
 Total number of Valid hours : 26
 Total number of hours for period : 26

Joint Frequency Table - Batch Release Hours

From : 07/01/2006 00:00 **To** : 09/30/2006 23:00

PRIMARY TOWER

STABILTY CLASS D

Wind Speed (MPH) ->	(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
Sector											
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	0	0	0	0	0	0.0%	0.0
SSE	0	0	1	0	0	0	0	0	1	25.0%	6.6
S	0	0	3	0	0	0	0	0	3	75.0%	6.4
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	4	0	0	0	0	0	4		
% Of Total	0.0%	0.0%	*****	0.0%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 6.5
 Hours in above table with variable direction : 0
 Total number of CALMs : 0
 Total number of Invalid hours : 0
 Total number of Valid hours : 26
 Total number of hours for period : 26

Joint Frequency Table - Batch Release Hours

From : 07/01/2006 00:00 **To** : 09/30/2006 23:00

PRIMARY TOWER

STABILTY CLASS E

Wind Speed (MPH) ->	(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
Sector											
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	0	0	0	0	0	0.0%	0.0
SSE	0	0	0	0	0	0	0	0	0	0.0%	0.0
S	0	0	7	0	0	0	0	0	7	*****	6.4
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	7	0	0	0	0	0	7		
% Of Total	0.0%	0.0%	*****	0.0%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 6.4
 Hours in above table with variable direction : 0
 Total number of CALMs : 0
 Total number of Invalid hours : 0
 Total number of Valid hours : 26
 Total number of hours for period : 26

Joint Frequency Table - Batch Release Hours

From : 07/01/2006 00:00 **To** : 09/30/2006 23:00

PRIMARY TOWER

STABILTY CLASS F

Wind Speed (MPH) ->	(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
Sector											
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	1	1	0	0	0	0	0	2	50.0%	3.5
SE	0	0	1	0	0	0	0	0	1	25.0%	5.1
SSE	0	0	1	0	0	0	0	0	1	25.0%	5.1
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	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	3	0	0	0	0	0	4		
% Of Total	0.0%	25.0%	75.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH) : 4.3
 Hours in above table with variable direction : 0
 Total number of CALMs : 0
 Total number of Invalid hours : 0
 Total number of Valid hours : 26
 Total number of hours for period : 26

Joint Frequency Table - Batch Release Hours

From : 07/01/2006 00:00 **To** : 09/30/2006 23:00

PRIMARY TOWER

STABILTY CLASS G

Wind Speed (MPH) ->	(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
Sector											
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	1	0	0	0	0	0	1	25.0%	4.0
ESE	0	0	0	0	0	0	0	0	0	0.0%	0.0
SE	0	0	3	0	0	0	0	0	3	75.0%	4.3
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	4	0	0	0	0	0	4		
% Of Total	0.0%	0.0%	*****	0.0%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 4.2
 Hours in above table with variable direction : 0
 Total number of CALMs : 0
 Total number of Invalid hours : 0
 Total number of Valid hours : 26
 Total number of hours for period : 26

Joint Frequency Table - Batch Release Hours

From : 07/01/2006 00:00 **To** : 09/30/2006 23:00

PRIMARY TOWER

ALL STABILITY CLASSES COMBINED

Wind Speed (MPH) ->	(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
Sector											
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	1	0	0	0	0	0	1	3.8%	4.0
ESE	0	1	1	0	0	0	0	0	2	7.7%	3.5
SE	0	0	4	0	0	0	0	0	4	15.4%	4.5
SSE	0	0	2	0	0	0	0	0	2	7.7%	5.9
S	0	0	11	5	0	0	0	0	16	61.5%	7.2
SSW	0	0	0	1	0	0	0	0	1	3.8%	8.7
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	19	6	0	0	0	0	26		
% Of Total	0.0%	3.8%	73.1%	23.1%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 6.3
 Hours in above table with variable direction : 0
 Total number of CALMs : 0
 Total number of Invalid hours : 0
 Total number of Valid hours : 26
 Total number of hours for period : 26

Joint Frequency Table - Batch Release Hours

From : 10/01/2006 00:00 **To** : 12/31/2006 23:00

PRIMARY TOWER

Joint Frequency Table - Batch Release Hours**From** : 10/01/2006 00:00 **To** : 12/31/2006 23:00**PRIMARY TOWER****STABILITY CLASS A**

Wind Speed (MPH) ->	(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
Sector											
N	0	0	0	2	0	0	0	0	2	20.0%	11.2
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	1	0	0	0	0	1	10.0%	8.1
SE	0	0	0	1	0	0	0	0	1	10.0%	9.7
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	1	1	0	0	0	2	20.0%	11.3
SW	0	0	0	0	0	0	0	0	0	0.0%	0.0
WSW	0	0	1	0	0	0	0	0	1	10.0%	3.6
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	0	0	0	1	10.0%	7.3
NNW	0	0	0	0	2	0	0	0	2	20.0%	13.3
Total	0	0	2	5	3	0	0	0	10		
% Of Total	0.0%	0.0%	20.0%	50.0%	30.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH) : 10.0
 Hours in above table with variable direction : 0
 Total number of CALMs : 4
 Total number of Invalid hours : 0
 Total number of Valid hours : 673
 Total number of hours for period : 673

Joint Frequency Table - Batch Release Hours

From : 10/01/2006 00:00 **To** : 12/31/2006 23:00

PRIMARY TOWER

STABILTY CLASS B

Wind Speed (MPH) ->	(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
Sector											
N	0	0	1	3	0	0	0	0	4	33.3%	9.5
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	0	0	0	0	0	0.0%	0.0
SSE	0	0	0	0	0	0	0	0	0	0.0%	0.0
S	0	0	0	2	0	0	0	0	2	16.7%	9.7
SSW	0	0	0	1	0	0	0	0	1	8.3%	10.2
SW	0	0	0	2	0	0	0	0	2	16.7%	9.6
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	1	0	0	0	1	8.3%	14.8
NNW	0	0	0	1	1	0	0	0	2	16.7%	13.1
Total	0	0	1	9	2	0	0	0	12		
% Of Total	0.0%	0.0%	8.3%	75.0%	16.7%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 10.7
 Hours in above table with variable direction : 0
 Total number of CALMs : 4
 Total number of Invalid hours : 0
 Total number of Valid hours : 673
 Total number of hours for period : 673

Joint Frequency Table - Batch Release Hours

From : 10/01/2006 00:00 **To** : 12/31/2006 23:00

PRIMARY TOWER

STABILTY CLASS C

Wind Speed (MPH) ->	(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
Sector											
N	0	0	0	1	0	0	0	0	1	4.2%	8.6
NNE	0	0	0	2	0	0	0	0	2	8.3%	9.3
NE	0	0	0	1	0	0	0	0	1	4.2%	10.8
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	2	0	0	0	0	2	8.3%	9.3
SSE	0	0	0	1	1	0	0	0	2	8.3%	11.0
S	0	0	0	5	2	0	0	0	7	29.2%	11.1
SSW	0	0	0	4	0	0	0	0	4	16.7%	10.5
SW	0	0	0	1	0	0	0	0	1	4.2%	9.5
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	2	0	0	0	3	12.5%	12.1
NNW	0	0	0	0	1	0	0	0	1	4.2%	13.2
Total	0	0	1	17	6	0	0	0	24		
% Of Total	0.0%	0.0%	4.2%	70.8%	25.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 10.7
 Hours in above table with variable direction : 0
 Total number of CALMs : 4
 Total number of Invalid hours : 0
 Total number of Valid hours : 673
 Total number of hours for period : 673

Joint Frequency Table - Batch Release Hours

From : 10/01/2006 00:00 **To** : 12/31/2006 23:00

PRIMARY TOWER

STABILTY CLASS D

Wind Speed (MPH) ->	(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
Sector											
N	0	2	7	20	3	0	0	0	32	14.2%	8.9
NNE	0	0	6	17	2	0	0	0	25	11.1%	9.5
NE	0	3	9	11	0	0	0	0	23	10.2%	7.3
ENE	0	1	3	15	4	0	0	0	23	10.2%	10.0
E	0	0	6	5	7	0	0	0	18	8.0%	10.3
ESE	0	0	0	3	1	0	0	0	4	1.8%	10.5
SE	0	0	2	8	8	0	0	0	18	8.0%	11.4
SSE	0	0	1	10	8	0	0	0	19	8.4%	12.2
S	0	0	5	17	3	0	0	0	25	11.1%	9.9
SSW	0	1	6	5	2	0	0	0	14	6.2%	7.7
SW	0	0	2	2	2	0	0	0	6	2.7%	9.8
WSW	0	0	1	0	0	0	0	0	1	0.4%	3.7
W	0	0	0	0	1	0	0	0	1	0.4%	14.7
WNW	0	1	0	0	0	0	0	0	1	0.4%	3.0
NW	0	1	1	1	4	0	0	0	7	3.1%	10.8
NNW	0	2	3	3	1	0	0	0	9	4.0%	7.3
Total	0	11	52	117	46	0	0	0	226		
% Of Total	0.0%	4.9%	23.0%	51.8%	20.4%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 9.6
 Hours in above table with variable direction : 0
 Total number of CALMs : 4
 Total number of Invalid hours : 0
 Total number of Valid hours : 673
 Total number of hours for period : 673

Joint Frequency Table - Batch Release Hours**From** : 10/01/2006 00:00 **To** : 12/31/2006 23:00**PRIMARY TOWER****STABILTY CLASS E**

Wind Speed (MPH) ->	(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
Sector											
N	0	0	18	11	2	0	0	0	31	13.4%	8.2
NNE	0	0	11	10	0	0	0	0	21	9.1%	7.7
NE	0	0	17	10	0	0	0	0	27	11.6%	6.8
ENE	0	2	19	0	0	0	0	0	21	9.1%	5.3
E	0	0	5	2	0	0	0	0	7	3.0%	6.5
ESE	0	1	6	5	0	0	0	0	12	5.2%	6.9
SE	0	0	4	6	0	0	0	0	10	4.3%	7.9
SSE	0	1	10	13	6	0	0	0	30	12.9%	9.1
S	0	1	11	17	6	1	0	0	36	15.5%	9.4
SSW	0	0	4	7	2	0	0	0	13	5.6%	9.3
SW	0	1	0	0	0	0	0	0	1	0.4%	2.3
WSW	0	0	2	0	0	0	0	0	2	0.9%	5.5
W	0	1	0	0	0	0	0	0	1	0.4%	2.5
WNW	0	1	0	0	0	0	0	0	1	0.4%	2.3
NW	0	6	4	4	0	0	0	0	14	6.0%	5.3
NNW	0	0	4	1	0	0	0	0	5	2.2%	5.7
Total	0	14	115	86	16	1	0	0	232		
% Of Total	0.0%	6.0%	49.6%	37.1%	6.9%	0.4%	0.0%	0.0%			

Average speed for this table (MPH): 7.6
 Hours in above table with variable direction : 0
 Total number of CALMs : 4
 Total number of Invalid hours : 0
 Total number of Valid hours : 673
 Total number of hours for period : 673

Joint Frequency Table - Batch Release Hours**From** : 10/01/2006 00:00 **To** : 12/31/2006 23:00**PRIMARY TOWER****STABILTY CLASS F**

Wind Speed (MPH) ->	(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
Sector											
N	0	0	4	0	0	0	0	0	4	4.2%	6.0
NNE	0	1	4	2	0	0	0	0	7	7.4%	6.0
NE	0	2	8	0	0	0	0	0	10	10.5%	4.3
ENE	0	2	2	0	0	0	0	0	4	4.2%	3.2
E	0	3	9	0	0	0	0	0	12	12.6%	4.3
ESE	1	5	1	0	0	0	0	0	7	7.4%	2.4
SE	0	1	7	0	0	0	0	0	8	8.4%	5.6
SSE	0	2	13	1	0	0	0	0	16	16.8%	5.3
S	0	0	4	0	0	0	0	0	4	4.2%	5.7
SSW	0	0	1	0	0	0	0	0	1	1.1%	4.4
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	1.1%	4.6
WNW	1	4	0	0	0	0	0	0	5	5.3%	2.1
NW	0	1	11	1	0	0	0	0	13	13.7%	4.8
NNW	0	0	2	1	0	0	0	0	3	3.2%	6.8
Total	2	21	67	5	0	0	0	0	95		
% Of Total	2.1%	22.1%	70.5%	5.3%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 4.7
 Hours in above table with variable direction : 0
 Total number of CALMs : 4
 Total number of Invalid hours : 0
 Total number of Valid hours : 673
 Total number of hours for period : 673

Joint Frequency Table - Batch Release Hours**From** : 10/01/2006 00:00 **To** : 12/31/2006 23:00**PRIMARY TOWER****STABILTY CLASS G**

Wind Speed (MPH) ->	(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
Sector											
N	0	1	0	0	0	0	0	0	1	1.4%	1.2
NNE	0	2	11	0	0	0	0	0	13	17.6%	4.3
NE	0	1	9	0	0	0	0	0	10	13.5%	4.1
ENE	0	5	1	0	0	0	0	0	6	8.1%	3.0
E	0	6	0	0	0	0	0	0	6	8.1%	2.3
ESE	0	7	1	0	0	0	0	0	8	10.8%	2.8
SE	0	4	3	0	0	0	0	0	7	9.5%	3.6
SSE	1	0	5	0	0	0	0	0	6	8.1%	4.2
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	1	0	0	0	0	0	0	0	1	1.4%	0.9
W	0	0	0	0	0	0	0	0	0	0.0%	0.0
WNW	0	3	8	0	0	0	0	0	11	14.9%	3.9
NW	0	1	3	0	0	0	0	0	4	5.4%	4.9
NNW	0	1	0	0	0	0	0	0	1	1.4%	1.5
Total	2	31	41	0	0	0	0	0	74		
% Of Total	2.7%	41.9%	55.4%	0.0%	0.0%	0.0%	0.0%	0.0%			

Average speed for this table (MPH): 3.6
 Hours in above table with variable direction : 0
 Total number of CALMs : 4
 Total number of Invalid hours : 0
 Total number of Valid hours : 673
 Total number of hours for period : 673

Joint Frequency Table - Batch Release Hours**From** : 10/01/2006 00:00 **To** : 12/31/2006 23:00**PRIMARY TOWER****ALL STABILITY CLASSES COMBINED**

Wind Speed (MPH) ->	(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
Sector											
N	0	3	30	37	5	0	0	0	75	11.1%	8.4
NNE	0	3	32	31	2	0	0	0	68	10.1%	7.6
NE	0	6	43	22	0	0	0	0	71	10.5%	6.3
ENE	0	10	25	15	4	0	0	0	54	8.0%	6.9
E	0	9	20	7	7	0	0	0	43	6.4%	6.9
ESE	1	13	8	9	1	0	0	0	32	4.8%	5.4
SE	0	5	16	17	8	0	0	0	46	6.8%	8.3
SSE	1	3	29	25	15	0	0	0	73	10.8%	8.7
S	0	1	20	41	11	1	0	0	74	11.0%	9.6
SSW	0	1	11	18	5	0	0	0	35	5.2%	8.8
SW	0	1	2	5	2	0	0	0	10	1.5%	9.0
WSW	1	0	4	0	0	0	0	0	5	0.7%	3.8
W	0	1	1	0	1	0	0	0	3	0.4%	7.2
WNW	1	9	8	0	0	0	0	0	18	2.7%	3.3
NW	0	9	21	6	7	0	0	0	43	6.4%	6.7
NNW	0	3	9	6	5	0	0	0	23	3.4%	7.9
Total	4	77	279	239	73	1	0	0	673		
% Of Total	0.6%	11.4%	41.5%	35.5%	10.8%	0.1%	0.0%	0.0%			

Average speed for this table (MPH): 7.6
 Hours in above table with variable direction : 0
 Total number of CALMs : 4
 Total number of Invalid hours : 0
 Total number of Valid hours : 673
 Total number of hours for period : 673