

**ENCLOSURE 1**

**ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

**SEQUOYAH NUCLEAR PLANT**

**2005**

## SUPPLEMENTAL INFORMATION

### I. REGULATORY LIMITS

#### A. Gaseous Effluents

1. Dose rates due to radioactivity released in gaseous effluents from the site to areas at and beyond the unrestricted area boundary shall be limited to the following:
  - a. Noble gases: - Less than or equal to 500 mrem/year to the total body.
    - Less than or equal to 3000 mrem/year to the skin.
  - b. Iodine-131, Iodine-133, tritium, and all radionuclides in particulate form with half-lives greater than eight days:
    - Less than or equal to 1500 mrem/year to any organ.
2. Air dose due to noble gases released in gaseous effluents to areas at and beyond the unrestricted area boundary shall be limited to the following:
  - a. Less than or equal to 5 mrad for gamma radiation and less than or equal to 10 mrad for beta radiation during any calendar quarter.
  - b. Less than or equal to 10 mrad for gamma radiation and less than or equal to 20 mrad for beta radiation during any calendar year.
3. Dose to a member of the public from Iodine-131, Iodine-133, tritium, and radionuclides in particulate form with half-lives greater than eight days in gaseous effluents released to areas at and beyond the unrestricted area boundary shall be limited to the following:
  - a. Less than or equal to 7.5 mrem to any organ during any calendar quarter.
  - b. Less than or equal to 15 mrem to any organ during any calendar year.

#### B. Liquid Effluents

1. The annual average concentration of radioactivity released in liquid effluents to unrestricted areas shall be limited to the concentrations specified in Title 10 of the Code of Federal Regulations, Part 20

## SUPPLEMENTAL INFORMATION

(Standards for Protection Against Radiation), Appendix B, Table 2, Column 2, for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall be limited to 2.0 E-04 microcuries/milliliter ( $\mu\text{Ci}/\text{ml}$ ) total activity.

2. The dose or dose commitment to a member of the public from radioactivity in liquid effluents released to unrestricted areas shall be limited to:
  - a. Less than or equal to 1.5 mrem to the total body and less than or equal to 5 mrem to any organ during any calendar quarter.
  - b. Less than or equal to 3 mrem to the total body and less than or equal to 10 mrem to any organ during any calendar year.

## II. EFFLUENT CONCENTRATION LIMITS

### A. Liquids

- \*1. The Effluent Concentration Limits (ECL) for liquids are those listed in 10 CFR 20, Appendix B, Table 2, Column 2. For dissolved and entrained gases, the ECL of 2.0E-04  $\mu\text{Ci}/\text{ml}$  is applied. This ECL is based on the Xe-135 concentration in air (submersion dose) converted to an equivalent concentration in water as discussed in the International Commission on Radiological Protection (ICRP), Publication 2.

\*These values are used as applicable limits for liquid and gaseous effluents.

### B. Gaseous

- \*1. The maximum permissible dose rates for gaseous releases are defined in plant Offsite Dose Calculation Manual (ODCM).
  - a. Noble gas dose rate at the unrestricted area boundary:
    - Less than or equal to 500 mrem/year to the total body.
    - Less than or equal to 3000 mrem/year to skin.
  - b. Iodine-131, Iodine-133, tritium, and particulates with half-lives greater than eight days dose rate at the unrestricted area boundary:
    - Less than or equal to 1500 mrem/year to any organ.

\*These values are used as applicable limits for liquid and gaseous effluents.

## SUPPLEMENTAL INFORMATION

### III. AVERAGE ENERGY

Sequoyah's ODCM limits the dose equivalent rates due to the release of noble gases to less than or equal to 500 mrem/year to the total body and less than or equal to 3000 mrem/year to the skin. The use of dose rate is in accordance with NUREG-0133, "Preparation of Radiological Effluent Technical Specifications for Nuclear Power Plants". Since the release rate is not used for effluent control, the average energy discussed in Regulatory Guide 1.21 (used for release rate control) is not included in this report.

### IV. MEASUREMENTS AND APPROXIMATIONS OF TOTAL RADIOACTIVITY

NOTE: Every effort is made to ensure that effluent releases from Sequoyah are conducted such that all ODCM Lower Limit of Detection (LLD) values are met. Whenever an analysis does not identify a radioisotope, an "0.00E-01 Ci" is recorded for the release. This does not necessarily mean that no activity was released for that particular radionuclide, but that the concentration was below the ODCM and analysis LLD. Refer to Tables A and B for estimates of these typical LLD values.

#### A. Fission and Activation Gases

Airborne effluent gaseous activity is continuously monitored and recorded. Additional grab samples from the shield building, auxiliary building, service building, and condenser vacuum exhausts are taken and analyzed at least monthly to determine the quantity of noble gas activity released for the month based on the average vent flow rates recorded for the sample period. Also, noble gas samples are collected and evaluated for the shield and auxiliary buildings following startup, shutdown, or rated thermal power change exceeding 15 percent within one hour (sampling is only required if the dose equivalent I-131 concentration in the primary coolant or the noble gas activity monitor shows that the containment activity has increased more than a factor of 3).

The quantity of noble gases released through the shield and auxiliary building exhausts due to purging or venting of containment and releases of waste gas decay tanks are also determined.

The total noble gas activity released for the month is then determined by summing of the activity released from each vent for the sampling periods.

#### B. Iodines and Particulates

Iodine and particulate activity is continuously sampled. Charcoal and particulate samples are taken from the shield and auxiliary building exhausts and analyzed at least weekly to determine the total activity released from the plant based on the average vent flow rates recorded for sampling period.

## SUPPLEMENTAL INFORMATION

Also, particulate and charcoal samples are taken from the auxiliary and shield building exhausts once per 24 hours for 2 days following startup, shutdown, or a rated thermal power change exceeding 15 percent within 1 hour. The quantity of iodine and particulate released from each vent during each sampling period is then determined using the average vent flow rates recorded for the sampling period and activity concentration.

The total particulate and iodine activity released for the month is then determined by summing all activity released from the shield and auxiliary building exhausts for the sampling periods.

### C. Liquid Effluents

Batch (Radwaste and during periods of primary to secondary leakage, condensate regenerants to cooling tower blowdown)

Total gamma isotopic activity concentrations are determined on each batch of liquid effluent prior to release. The total activity of a released batch is determined by summing each nuclide's concentration and multiplying by the total volume discharged. The total activity released during a month is then determined by summing the activity content of each batch discharged during the month.

Continuous Releases and Periodic Continuous Releases (Condensate regenerants, turbine building sump, and steam generator blowdown)

Total gamma isotopic activity concentration is determined daily on a composite sample from the condensate system and turbine building sump and weekly for steam generator blowdown. The total activity of the continuous release is determined by summing each nuclide's concentration and multiplying by the total volume discharged. The total activity released during the month is then determined by summing the activity content of each daily and weekly composite for the month.

### V. BATCH

	Value		
	1st Half	2nd Half	Units

#### A. Liquid (Radwaste only)

1. Number of releases	103	47	Each
2. Total time period of releases	17357	7180	Minutes
3. Maximum time period of release	512	315	Minutes
4. Average time period of releases	168.51	152.77	Minutes
5. Minimum time period for release	25.0	40	Minutes
6. Average dilution stream flow during release periods	32844.5	28976.5	CFS

## SUPPLEMENTAL INFORMATION

B. Gaseous (Batches only, containment purges,  
containment vents, and waste decay tanks)

1. Number of releases	130	77	Each
2. Total time period of releases	43119	26981	Minutes
3. Maximum time period for release	5150	1205	Minutes
4. Average time period for releases	331.69	350.40	Minutes
5. Minimum time period for release	45.0	30.0	Minutes

VI. ABNORMAL RELEASES

		Value		<u>Units</u>
<u>1st</u>	<u>2nd</u>	<u>Half</u>	<u>Half</u>	

A. Liquid

Number of Releases	0	0	
Total Activity Released	0.00E-01	0.00E-01	Ci

B. Gaseous

Number of Releases	0	0	
Total Activity Released	0.00E-01	0.00E-01	Ci

## LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

A.	<u>Fission and Activation Products</u>	<u>Unit</u>	<u>1st Qtr</u>	<u>2nd Qtr</u>	<u>3rd Qtr</u>	<u>4th Qtr</u>	<u>%Error</u>
1.	Total Released	Curies	4.95E-02	1.97E-01	1.99E-02	2.20E-02	18%
2.	Average diluted concentration during period	$\mu\text{Ci}/\text{ml}$	2.95E-08	1.38E-07	1.16E-08	1.29E-08	
3.	Percent of Applicable Limit	%	*	*	*	*	
B.	<u>Tritium</u>						
1.	Total Released	Curies	4.47E+02	7.40E+02	3.85E+01	2.55E+02	18%
2.	Average diluted concentration during period	$\mu\text{Ci}/\text{ml}$	2.67E-04	5.17E-04	2.25E-05	1.50E-04	
3.	Percent of Applicable Limit	%	*	*	*	*	
C.	<u>Dissolved and Entrained Gases</u>						
1.	Total Released	Curies	5.77E-03	6.28E-01	6.31E-03	5.91E-02	39%
2.	Average diluted concentration during period	$\mu\text{Ci}/\text{ml}$	3.44E-09	4.39E-07	3.69E-09	3.47E-08	
3.	Percent of Applicable Limit	%	1.72E-03	2.20E-01	1.85E-03	1.74E-02	
D.	<u>Gross Alpha</u>						
1.	Total Released	Curies	0.00E-01	0.00E-01	0.00E-01	0.00E-01	
E.	<u>Volume of Waste Released</u>	Liters	5.74E+07	4.11E+07	5.06E+07	5.27E+07	4%
F.	<u>Volume of Dilution Water for Period</u>	Liters	1.62E+09	1.39E+09	1.66E+09	1.65E+09	4%

\*Applicable limits are expressed in terms of dose. See Tables 1 thru 4.

## LIQUID EFFLUENTS - TOTAL PLANT DISCHARGE

G. Nuclide Summary (Note: Refer to Table A for ODCM nuclides reported as 0.00E-01)

Required by ODCM/Others  
Fission and Activation Products

<u>Nuclide</u>	<u>Unit</u>	Continuous Mode		Batch Mode	
		Quarter		Quarter	
		1 <sup>st</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>
1. Silver-110M	Ci	0.00E-01	0.00E-01	1.01E-03	3.15E-03
2. Cerium-144	Ci	0.00E-01	0.00E-01	3.19E-05	0.00E-01
3. Cobalt-57	Ci	0.00E-01	0.00E-01	3.37E-04	5.34E-04
4. Cobalt-58	Ci	0.00E-01	0.00E-01	3.10E-02	1.00E-01
5. Cobalt-60	Ci	0.00E-01	0.00E-01	5.92E-03	1.18E-02
6. Chromium-51	Ci	0.00E-01	0.00E-01	3.61E-04	8.84E-03
7. Cesium-134	Ci	0.00E-01	0.00E-01	2.82E-04	0.00E-01
8. Cesium-137	Ci	0.00E-01	0.00E-01	7.74E-04	2.43E-05
9. Cesium-138	Ci	0.00E-01	0.00E-01	0.00E-01	2.17E-05
10. Iron-55	Ci	0.00E-01	0.00E-01	7.29E-03	2.88E-02
11. Iron-59	Ci	0.00E-01	0.00E-01	3.46E-04	2.18E-03
12. Iodine-131	Ci	0.00E-01	0.00E-01	1.07E-03	1.98E-04
13. Iodine-133	Ci	0.00E-01	0.00E-01	0.00E-01	2.33E-05
14. Iodine-134	Ci	0.00E-01	0.00E-01	0.00E-01	6.17E-05
15. Manganese-54	Ci	0.00E-01	0.00E-01	1.22E-04	1.22E-03
16. Sodium-24	Ci	0.00E-01	0.00E-01	0.00E-01	7.84E-07
17. Niobium-95	Ci	0.00E-01	0.00E-01	1.18E-04	2.03E-03
18. Antimony-124	Ci	0.00E-01	0.00E-01	0.00E-01	4.05E-03
19. Antimony-125	Ci	0.00E-01	0.00E-01	7.98E-04	3.33E-02
20. Strontium-91	Ci	0.00E-01	0.00E-01	9.92E-06	0.00E-01
21. Technetium-99M	Ci	0.00E-01	0.00E-01	3.99E-06	0.00E-01
22. Tellurium-132	Ci	0.00E-01	0.00E-01	0.00E-01	8.95E-06
23. Zinc-65	Ci	0.00E-01	0.00E-01	0.00E-01	1.13E-04
24. Zirconium-95	Ci	0.00E-01	0.00E-01	0.00E-01	8.32E-04
<b>Total for Period</b>	<b>Ci</b>	<b>0.00E-01</b>	<b>0.00E-01</b>	<b>4.95E-02</b>	<b>1.97E-01</b>

## LIQUID EFFLUENTS - TOTAL PLANT DISCHARGE

G. Nuclide Summary (Note: Refer to Table A for ODCM nuclides reported as 0.00E-01)

Required by ODCM/Others

<u>Nuclide</u>	<u>Unit</u>	Continuous Mode		Batch Mode	
		Quarter 1 <sup>st</sup>	Quarter 2 <sup>nd</sup>	Quarter 1 <sup>st</sup>	Quarter 2 <sup>nd</sup>
<b>Tritium</b>					
Tritium	H-3	Ci	1.60E-01	9.69E-02	4.47E+02
<b>Dissolved and Entrained Noble Gases</b>					
1. Argon-41	Ci	0.00E-01	0.00E-01	2.93E-04	7.51E-04
2. Krypton-85M	Ci	0.00E-01	0.00E-01	7.77E-08	2.09E-05
3. Xenon-131M	Ci	0.00E-01	0.00E-01	0.00E-01	1.05E-02
4. Xenon-133	Ci	0.00E-01	0.00E-01	5.47E-03	6.12E-01
5. Xenon-133M	Ci	0.00E-01	0.00E-01	0.00E-01	3.51E-03
6. Xenon-135	Ci	0.00E-01	0.00E-01	0.00E-01	1.03E-03
<b>Total for Period</b>	Ci	<b>0.00E-01</b>	<b>0.00E-01</b>	<b>5.77E-03</b>	<b>6.28E-01</b>

## LIQUID EFFLUENTS - TOTAL PLANT DISCHARGE

### G. Nuclide Summary (Note: Refer to Table A for ODCM nuclides reported as 0.00E-01)

Required by ODCM/Others

#### Fission and Activation Products

<u>Nuclide</u>	<u>Unit</u>	Continuous Mode		Batch Mode	
		Quarter 3 <sup>rd</sup>	Quarter 4 <sup>th</sup>	Quarter 3 <sup>rd</sup>	Quarter 4 <sup>th</sup>
1. Silver-110M	Ci	0.00E-01	0.00E-01	7.67E-04	4.77E-04
2. Cobalt-57	Ci	0.00E-01	0.00E-01	1.02E-04	1.19E-04
3. Cobalt-58	Ci	0.00E-01	0.00E-01	1.08E-02	7.36E-03
4. Cobalt-60	Ci	0.00E-01	0.00E-01	1.66E-03	2.86E-03
5. Chromium-51	Ci	0.00E-01	0.00E-01	5.96E-05	8.35E-05
6. Cesium-134	Ci	0.00E-01	0.00E-01	0.00E-01	7.62E-05
7. Cesium-137	Ci	0.00E-01	0.00E-01	0.00E-01	4.03E-04
8. Iron-55	Ci	0.00E-01	0.00E-01	2.26E-03	3.60E-03
9. Iron-59	Ci	0.00E-01	0.00E-01	6.26E-06	0.00E-01
10. Iodine-131	Ci	0.00E-01	0.00E-01	9.03E-06	0.00E-01
11. Manganese--54	Ci	0.00E-01	0.00E-01	6.29E-05	1.32E-04
12. Sodium-24	Ci	0.00E-01	0.00E-01	0.00E-01	1.31E-06
13. Niobium-95	Ci	0.00E-01	0.00E-01	3.56E-05	5.30E-05
14. Antimony-124	Ci	0.00E-01	0.00E-01	2.52E-04	2.48E-04
15. Antimony-125	Ci	0.00E-01	0.00E-01	3.86E-03	6.45E-03
16. Zinc-65	Ci	0.00E-01	0.00E-01	1.04E-04	1.10E-04
17. Zirconium-95	Ci	0.00E-01	0.00E-01	8.77E-06	0.00E-01
<b>Total for Period</b>	<b>Ci</b>	<b>0.00E-01</b>	<b>0.00E-01</b>	<b>1.99E-02</b>	<b>2.20E-02</b>

## LIQUID EFFLUENTS - TOTAL PLANT DISCHARGE

G. Nuclide Summary (Note: Refer to Table A for ODCM nuclides reported as 0.00E-01)

Required by ODCM/Others

<u>Nuclide</u>	<u>Unit</u>	Continuous Mode		Batch Mode	
		Quarter 3 <sup>rd</sup>	Quarter 4 <sup>th</sup>	Quarter 3 <sup>rd</sup>	Quarter 4 <sup>th</sup>
H-3	Ci	1.40E-01	2.08E-01	3.84E+01	2.55E+02
<b>Dissolved and Entrained Noble Gases</b>					
1. Kr-85	Ci	0.00E-01	0.00E-01	0.00E-01	1.83E-03
2. Xe-131M	Ci	0.00E-01	0.00E-01	0.00E-01	1.50E-03
3. Xenon-133	Ci	0.00E-01	0.00E-01	6.30E-03	5.57E-02
4. Xenon-133M	Ci	0.00E-01	0.00E-01	0.00E-01	5.33E-05
5. Xenon-135	Ci	0.00E-01	0.00E-01	5.97E-06	1.15E-05
Total for Period	Ci	0.00E-01	0.00E-01	6.31E-03	5.91E-02

**TABLE A**  
**LIQUID "TYPICAL LLD" EVALUATION<sup>(1)</sup>**

<u>Nuclide</u>	<u>ODCM LLD</u>	$\square t^{(2)}$		
		<u>1 hr</u>	<u>8 hr</u>	<u>32 hr</u>
Manganese-54	5.0E-07	3.36E-08	3.36E-08	3.37E-08
Cobalt-58	5.0E-07	2.53E-08	2.54E-08	2.56E-08
Iron-59	5.0E-07	5.26E-08	5.29E-08	5.37E-08
Cobalt-60	5.0E-07	4.63E-08	4.63E-08	4.64E-08
Zinc-65	5.0E-07	2.95E-08	2.95E-08	2.96E-08
Molybdenum-99	5.0E-07	1.55E-07	1.67E-07	2.15E-07
Cesium-134	5.0E-07	1.91E-08	1.91E-08	1.92E-08
Cesium-137	5.0E-07	3.87E-08	3.87E-08	3.87E-08
Cerium-141	5.0E-07	2.80E-08	2.81E-08	2.87E-08
Cerium-144	5.0E-06	1.11E-07	1.12E-07	1.12E-07
Iodine-131	1.0E-06	2.28E-08	2.34E-08	2.55E-08
Krypton-87	1.0E-05	1.16E-07	5.25E-07	(3)
Krypton-88	1.0E-05	9.95E-08	5.49E-07	(3)
Xenon-133	1.0E-05	4.19E-08	4.36E-08	4.98E-08
Xenon-133m	1.0E-05	1.42E-07	1.55E-07	2.13E-07
Xenon-135	1.0E-05	2.06E-08	3.50E-08	2.17E-07
Xenon-138	1.0E-05	8.37E-06	(3)	(3)
<u>Nuclide</u>	<u>ODCM LLD</u>	<u>Typical LLD</u>		
Tritium	1.0E-05	1.2E-06		
Gross Alpha	1.0E-07	2.0E-08		
Strontium-89/90	5.0E-08	3.8E-08/1.4E-08		
Iron-55	1.0E-06	1.3E-08		

NOTES: (1) LLD values are in  $\mu\text{Ci}/\text{ml}$ .

(2)  $\square t$  is the time between sample collection and counting time.

(3) T  $\frac{1}{2}$  too short.

**GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES  
(GROUND LEVEL RELEASES)**

<u>Summation of All Releases</u>	<u>Unit</u>	<u>1<sup>st</sup> Qtr</u>	<u>2<sup>nd</sup> Qtr</u>	<u>3<sup>rd</sup> Qtr</u>	<u>4<sup>th</sup> Qtr</u>	<u>%Error</u>
<b>A. Noble Gases</b>						
1. Total Released	Ci	9.03E+00	6.76E+00	5.41E+00	7.77E+01	11%
2. Average Release Rate of Period	$\mu\text{Ci/sec}$	1.16E+01	8.60E-01	6.80E-01	9.77E+01	
3. Percent of Limit	%	*	*	*	*	
<b>B. Iodines</b>						
1. Total Iodine-131	Ci	6.53.E-05	8.03E-05	9.46E-06	0.00E-01	13%
2. Average Release Rate for Period	$\mu\text{Ci/sec}$	8.40E-06	1.02E-05	1.19E-06	0.00E-01	
3. Percent of Limit	%	*	*	*	*	
<b>C. Particulates</b>						
1. Particulates with half-lives >8 days	Ci	0.00E-01	8.55E-06	0.00E-01	0.00E-01	16%
2. Average Release Rate for Period	$\mu\text{Ci/sec}$	0.00E-01	1.09E-06	0.00E-01	0.00E-01	
3. Percent of Limit	%	*	*	*	*	
4. Gross Alpha Radio-activity	Ci	0.00E-01	0.00E-01	0.00E-01	0.00E-01	
<b>D. Tritium</b>						
1. Total Release	Ci	1.92E+01	2.65E+01	1.15E+01	1.21E+01	15%
2. Average Release Rate for Period	$\mu\text{Ci/sec}$	2.48E-01	3.37E+00	1.45E+00	1.52E+00	
3. Percent of Limit	%	*	*	*	*	

\*Applicable limits are expressed in terms of dose. See Tables 5 thru 8.

**GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES**  
**(GROUND LEVEL RELEASES)**

**1. Noble Gases**

Required by  
ODCM/Others

<u>Nuclide</u>	<u>Unit</u>	Continuous Mode		Batch Mode	
		Quarter 1st	Quarter 2nd	Quarter 1st	Quarter 2nd
1. Krypton-85M	Ci	0.00E-01	0.00E-01	8.76E-05	0.00E-01
2. Krypton-88	Ci	0.00E-01	0.00E-01	0.00E-01	7.10E-04
3. Xenon-133M	Ci	0.00E-01	0.00E-01	1.97E-02	1.44E-02
4. Xenon-135	Ci	0.00E-01	0.00E-01	1.15E-01	5.83E-02
5. Krypton-85	Ci	0.00E-01	0.00E-01	2.12E-01	1.07E-01
6. Xenon-131M	Ci	0.00E-01	0.00E-01	5.57E-02	1.46E-01
7. Argon-41	Ci	0.00E-01	0.00E-01	4.15E+00	1.77E+00
8. Xenon-133	Ci	0.00E-01	0.00E-01	4.48E+00	4.66E+00
<b>Total for Period</b>	<b>Ci</b>	<b>0.00E-01</b>	<b>0.00E-01</b>	<b>9.03E+00</b>	<b>6.76E+00</b>

**2. Iodines**

Iodine-133	Ci	1.60E-04	7.86E-05	0.00E-01	0.00E-01
Iodine-131	Ci	6.53E-05	8.03E-05	0.00E-01	0.00E-01
<b>Total for Period</b>	<b>Ci</b>	<b>2.25E-04</b>	<b>1.59E-04</b>	<b>0.00E-01</b>	<b>0.00E-01</b>

**3. Particulates**

1. Bromine-82	Ci	0.00E-01	4.97E-06	0.00E-01	0.00E-01
2. Cobalt-58	Ci	0.00E-01	8.55E-06	0.00E-01	0.00E-01
<b>Total for Period</b>	<b>Ci</b>	<b>0.00E-01</b>	<b>1.35E-05</b>	<b>0.00E-01</b>	<b>0.00E-01</b>

4. Tritium	Ci	1.60E+01	2.58E+01	3.23E+00	6.52E-01
<b>Total for Period</b>	<b>Ci</b>	<b>1.60E+01</b>	<b>2.58E+01</b>	<b>3.23E+00</b>	<b>6.52E-01</b>

NOTE: Refer to Table B for ODCM nuclides reported as 0.00E-01.

**GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES**  
**(GROUND LEVEL RELEASES)**

**1. Noble Gases**

Nuclide	Unit	Continuous Mode		Batch Mode	
		Quarter 3rd	Quarter 4th	Quarter 3rd	Quarter 4th
1. Krypton-87	Ci	0.00E-01	0.00E-01	1.32E-03	0.00E-01
2. Krypton-88	Ci	0.00E-01	0.00E-01	0.00E-01	5.42E-04
3. Krypton-85M	Ci	0.00E-01	0.00E-01	0.00E-01	9.69E-04
4. Xenon-133M	Ci	0.00E-01	0.00E-01	3.18E-02	1.84E-02
5. Xenon-135	Ci	0.00E-01	0.00E-01	6.52E-02	3.50E-02
6. Xenon-131M	Ci	0.00E-01	0.00E-01	1.41E-01	1.10E-01
7. Argon-41	Ci	0.00E-01	0.00E-01	1.31E+00	3.31E-01
8. Krypton-85	Ci	0.00E-01	0.00E-01	3.69E-01	4.76E-01
9. Xenon-133	Ci	0.00E-01	7.33E+01	3.49E+00	3.37E+00
<b>Total for Period</b>	<b>Ci</b>	<b>0.00E-01</b>	<b>7.33E+01</b>	<b>5.41E+00</b>	<b>4.34E+00</b>

**2. Iodines**

1. Iodine-131	Ci	9.46E-06	0.00E-01	0.00E-01	0.00E-01
<b>Total for Period</b>	<b>Ci</b>	<b>9.46E-06</b>	<b>0.00E-01</b>	<b>0.00E-01</b>	<b>0.00E-01</b>

**3. Particulates**

<b>Total for Period</b>	<b>Ci</b>	<b>0.00E-01</b>	<b>0.00E-01</b>	<b>0.00E-01</b>	<b>0.00E-01</b>
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<b>4. <u>Tritium</u></b>	<b>Ci</b>	<b>1.07E+01</b>	<b>1.17E+01</b>	<b>8.19E-01</b>	<b>3.66E-01</b>
<b>Total for Period</b>	<b>Ci</b>	<b>1.07E+01</b>	<b>1.17E+01</b>	<b>8.19E-01</b>	<b>3.66E-01</b>

**NOTE:** Refer to Table B for ODCM nuclides reported as 0.00E-01.

**TABLE B**  
**GASEOUS "TYPICAL" LLD EVALUATION<sup>(1)</sup>**

Noble Gas

<u>Nuclide</u>	<u>ODCM LLD</u>	<u>Δt<sup>(2)</sup></u>	
		<u>1 hr</u>	<u>1.5 hr</u>
Krypton-87	1.0E-04	2.08E-06	2.73E-06
Krypton-88	1.0E-04	1.61E-06	1.81E-06
Xenon-133	1.0E-04	6.61E-07	6.63E-07
Xenon-133m	1.0E-04	2.34E-06	2.35E-06
Xenon-135	1.0E-04	3.43E-07	3.56E-07
Xenon-138	1.0E-04	1.40E-04	6.10E-04

<u>Particulate Sample<sup>(3)</sup></u>		<u>1 hr</u>	<u>24 hr</u>	<u>7.0 da</u>
Manganese-54	1.0E-10	7.47E-12	3.12E-13	4.48E-14
Cobalt-58	1.0E-10	5.62E-12	2.35E-13	3.46E-14
Iron-59	1.0E-10	1.20E-11	5.02E-13	7.49E-14
Cobalt-60	1.0E-10	1.07E-11	4.46E-13	6.38E-14
Zinc-65	1.0E-10	6.71E-12	2.80E-13	4.03E-14
Molybdenum-99	1.0E-10	3.43E-11	1.61E-12	4.70E-13
Cesium-134	1.0E-10	4.25E-12	1.77E-13	2.54E-14
Cesium-137	1.0E-10	8.48E-12	3.54E-13	5.05E-14
Cerium-141	1.0E-10	5.10E-12	2.15E-13	3.26E-14
Cerium-144	1.0E-10	2.01E-11	8.33E-13	1.20E-13
Iodine-131	1.0E-10	4.76E-12	2.07E-13	3.77E-14

Charcoal Sample

Iodine-131	1.0E-11	7.25E-12	3.15E-13	5.74E-14
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(1) LLD values are in  $\mu\text{Ci}/\text{ml}$ .

(2)  $\Delta t$  is the time between sample collection and counting time.

(3) LLD based on sample time + 30 min. sample to analysis.

**TABLE B**  
**GASEOUS "TYPICAL" LLD EVALUATION<sup>(1)</sup>**

<u>Nuclide</u>	<u>ODCM LLD</u>	<u>Typical LLD</u>
Tritium	1.0E-06	1.0E-11
Gross Alpha	1.0E-11	1.5E-14
Strontium-89	1.0E-11	1.0E-14
Strontium-90	1.0E-11	1.0E-15

NOTES: (1) LLD values are in  $\mu\text{Ci}/\text{cc}$ .

- (2)  $\Delta t$  for noble gases is the time from sampling to analysis.  
 $\Delta t$  for charcoal and particulate samples is the midpoint of sampling to analysis.

## SOLID WASTE (RADIOACTIVE SHIPMENTS)

### A. Solid Waste Shipped Offsite for Burial or Disposal (not Irradiated Fuel)

<u>1. Type of Waste</u>	<u>Unit</u>	<u>12 Month Period</u>	<u>Est. Tot. Error %</u>
a. Spent Resins, Filter Sludges, Evaporator Bottoms, etc.	m <sup>3</sup> Ci	6.81E+00 2.20E+02	<u>+1.00E-02</u> <u>+5.00E+00</u>
b. Dry Active Waste, Compressible Waste Contaminated Equipment, etc.	m <sup>3</sup> Ci	2.87E+01 1.67E+00	<u>+1.00E-01</u> <u>+5.00E-02</u>
c. Irradiated Components, Control Rods, etc.	m <sup>3</sup> Ci	None None	N/A N/A
d. Other: Mechanical Filters	m <sup>3</sup> Ci	3.41E+00 4.13E+01	<u>+1.00E-02</u> <u>+1.00E+00</u>

### 2. Estimate of Major Nuclide Composition (by type of waste)

#### a. Spent resins, filter sludges, evaporator bottoms, etc. (nuclides determined by measurement)

	<u>Curies</u>	<u>Percent</u>
1. Hydrogen-3	4.87E-02	0.02
2. Carbon-14	7.18E-01	0.33
3. Manganese-54	2.89E+00	1.32
4. Iron-55	2.47E+01	11.25
5. Cobalt-57	7.12E-01	0.32
6. Cobalt-58	3.30E+00	1.50
7. Nickel-59	1.47E+00	0.67
8. Cobalt-60	4.75E+01	21.63
9. Nickel-63	1.17E+02	53.38
10. Zinc-65	1.87E-01	0.09
11. Strontium-89	1.12E-03	0.00
12. Strontium-90	4.54E-02	0.02
13. Silver-108m	4.22E-02	0.02
14. Silver-110m	2.01E+00	0.91
15. Antimony-125	1.02E+00	0.47
16. Cesium-134	3.86E+00	1.76
17. Cesium-137	1.38E+01	6.29
18. Cerium-144	5.51E-03	0.00
19. Plutonium-238	8.53E-04	0.00
20. Plutonium-239/240	3.92E-04	0.00
21. Plutonium-241	2.59E-02	0.01
22. Americium-241	4.06E-04	0.00
23. Curium-242	1.17E-04	0.00
24. Curium-243/244	2.70E-03	0.00

## SOLID WASTE (RADIOACTIVE SHIPMENTS)

### 2. Estimate of Major Nuclide Composition (by type of waste) (Cont.)

b. Dry active waste, compressible waste, contaminated equipment, etc. (nuclides determined by estimate)

	<u>Curies</u>	<u>Percent</u>
1. Carbon-14	7.52E-04	0.05
2. Chromium-51	3.13E-02	1.87
3. Manganese-54	2.01E-02	1.20
4. Iron-55	4.29E-01	25.70
5. Cobalt-57	5.78E-04	0.04
6. Cobalt-58	1.69E-01	10.09
7. Iron-59	2.13E-03	0.13
8. Cobalt-60	8.05E-01	48.20
9. Nickel-63	7.34E-02	4.39
10. Zinc-65	3.61E-04	0.02
11. Zirconium-95	4.73E-02	2.83
12. Niobium-95	7.18E-02	4.30
13. Silver-110m	1.56E-03	0.09
14. Tin-113	1.86E-03	0.11
15. Antimony-125	4.88E-03	0.29
16. Cesium-134	3.33E-04	0.02
17. Cesium-137	7.32E-03	0.44
18. Cerium-144	7.14E-04	0.04
19. Plutonium-238	4.90E-05	0.00
20. Plutonium-239/240	6.44E-05	0.00
21. Plutonium-241	3.00E-03	0.18
22. Americium-241	6.02E-05	0.00
23. Plutonium-243/244	8.41E-05	0.01

c. Irradiated Components	<u>Curies</u>	<u>Percent</u>
None	N/A	N/A

2. Estimate of Major Nuclide Composition (by type of waste) (Cont.)

d. Other: Mechanical Filters

	<u>Curies</u>	<u>Percent</u>
1. Hydrogen-3	1.97E-02	0.05
2. Carbon-14	7.46E-01	1.81
3. Chromium-51	5.62E-06	0.00
4. Manganese-54	1.95E-01	0.47
5. Iron-55	1.97E+01	47.67
6. Cobalt-57	2.98E-02	0.07
7. Cobalt-58	5.25E-01	1.27
8. Iron-59	1.37E-03	0.00
9. Nickel-59	1.01E-02	0.02
10. Cobalt-60	2.20E+00	5.32
11. Nickel-63	1.38E+00	3.34
12. Zinc-65	2.25E-02	0.05
13. Strontium-89	1.25E-05	0.00
14. Zirconium-95	8.62E-03	0.02
15. Niobium-95	1.12E-02	0.03
16. Technetium-99	1.20E-03	0.00
17. Ruthenium-103	6.52E-07	0.00
18. Silver-110m	1.23E-01	0.30
19. Tin-113	5.66E-03	0.01
20. Iodine-131	1.50E-19	0.00
21. Antimony-124	3.64E-05	0.00
22. Antimony-125	2.49E-02	0.06
23. Cesium-134	5.11E+00	12.36
24. Cesium-136	3.56E-13	0.00
25. Cesium-137	1.12E+01	27.10
26. Barium/Lanthanum-140	1.80E-13	0.00
27. Cerium-144	8.96E-03	0.02
28. Plutonium-241	3.52E-03	0.01
29. Curium-242	9.44E-05	0.00
30. Curium-243/244	1.70E-04	0.00

## SOLID WASTE (RADIOACTIVE SHIPMENTS)

### 3. Solid Waste Disposition

- a. Spent resins, filter sludges, evaporator bottoms, etc.

Number of Shipments	Type Quantity	Mode of Transportation	Destination
2	Type B	Motor Freight	Chem-Nuclear Barnwell, SC

- b. Dry active waste, compressible waste, contaminated equipment, etc.

Number of Shipments	Type Quantity	Mode of Transportation	Destination
37*	A-LSA	Motor Freight	Envirocare near Clive, Utah
1	A-LSA	Motor Freight	Chem-Nuclear Barnwell, SC

\*37 of the shipments were shipped by a waste processor.

- c. Irradiated components, control rods, etc.

Number of Shipments	Type Quantity	Mode of Transportation	Destination
None	N/A	N/A	N/A

- d. Other: Mechanical Filters and Tank Residue

Number of Shipments	Type Quantity	Mode of Transportation	Destination
1	B-LSA II	Motor Freight	Chem-Nuclear Barnwell, SC

### 4. Irradiated Fuel Shipments (Disposition)

Number of Shipments	Type Quantity	Mode of Transportation	Destination
None	N/A	N/A	N/A

### 5. Solidification of Waste

Was solidification performed? No  
If yes, solidification media:

## **Independent Spent Storage Installation**

SQN implemented use of an independent spent storage installation (ISFSI) on July 13, 2004. The ISFSI is located on site, within the protected area and is designed to hold 90 spent fuel canisters. The ISFSI is considered part of plant operations for the purposes of the radiological environmental monitoring program.

SQN ISFSI TS 5.4a states "The HI-Storm 100 Cask system does not create any radioactive material or have any radioactive waste treatment systems. Therefore, specific operating procedures for the control of radioactive effluents are not required. Specification 3.1.1, Multi-Purpcse Canister (MPC) provides assurances that there are no radioactive effluents from spent fuel storage canister."

The EPA limits for the total dose to the public in the vicinity of a nuclear power plant, established in the Environmental Dose Standard of 40 CFR 190, are as follows:

Total Body	=25 mrem/year
Thyroid	=75 mrem/year
Any other organ	=25 mrem/year

The SQN ISFSI is considered part of the SQN site and part of plant operations and any radioactive release is included in this report as total site releases. These releases are within 40 CFR 190 limits and 10 CFR 72.104 limits.

**ENCLOSURE 2**

**RADIOLOGICAL IMPACT ASSESSMENT REPORT**

**SEQUOYAH NUCLEAR PLANT**

**JANUARY - DECEMBER 2005**

## INTRODUCTION

Potential doses to maximum individuals and the population around Sequoyah Nuclear Plant (SQN) are calculated for each quarter as required in Section 5.2 of the Offsite Dose Calculation Manual (ODCM). Measured plant releases for the reporting period are used to estimate these doses. Dispersion of radioactive effluents in the environment is estimated using meteorological data and riverflow data measured during the period. In this report, the doses resulting from releases are described and compared to limits established for SQN.

## DOSE LIMITS

The ODCM specifies limits for the release of radioactive effluents, as well as limits for doses to the general public from the release of radioactive effluents. These limits are set well below the Technical Specification limits which govern the concentrations of radioactivity and doses permissible in unrestricted areas. This ensures that radioactive effluent releases are "As Low As Reasonably Achievable."

The limits for doses in unrestricted areas from airborne noble gases releases are:

Less than or equal to 5 mrad per quarter and  
10 mrad per year (per reactor unit) for gamma radiation,  
- and -  
Less than or equal to 10 mrad per quarter and  
20 mrad per year (per reactor unit) for beta radiation.

The limit for the dose to a member of the general public in an unrestricted area from iodines and particulates released in airborne effluents is:

Less than or equal to 7.5 mrem per quarter and  
15 mrem per year (per reactor unit) to any organ.

The limit for doses to a member of the general public from radioactive material in liquid effluents released to unrestricted areas is:

Less than or equal to 1.5 mrem per quarter and  
3 mrem per year (per reactor unit) to the total body,  
- and -  
Less than or equal to 5 mrem per quarter and  
10 mrem per year (per reactor unit) to any organ

The EPA limits for total dose to the public in the vicinity of a nuclear power plant, established in the Environmental Dose Standard of 40 CFR 190 are:

Less than or equal to 25 mrem per year to the total body,  
Less than or equal to 75 mrem per year to the thyroid,  
- and -  
Less than or equal to 25 mrem per year to any other organ.

## **DOSE CALCULATIONS**

Estimated doses to the public are determined using computer models: Gaseous Effluent Licensing Code (GELC), and the Quarterly Water Dose Assessment Code (QWATA). These models are based on guidance provided by the NRC (in Regulatory Guides 1.109, 1.111 and 1.113) for determining the potential dose to individuals and populations living in the vicinity of the plant. The area around the plant is analyzed to determine the pathways through which the public may receive a dose. The doses calculated are a representation of the dose to a "maximum exposed individual." Some of the factors used in these calculations (such as ingestion rates) are maximum values. Many of these factors are obtained from NUREG/CR-1004. The values chosen will tend to overestimate the dose to this "maximum" person. The expected dose to actual individuals is lower. The calculated doses are presented in Tables 1 through 9.

## **DOSES FROM AIRBORNE EFFLUENTS**

For airborne effluents, the public can be exposed to radiation from several sources: direct radiation from the radioactivity in the air, direct radiation from radioactivity deposited on the ground, inhalation of airborne radioactivity, ingestion of vegetation which contains radioactivity deposited from the atmosphere, and ingestion of milk and beef which contains radioactivity deposited from the atmosphere onto vegetation and subsequently eaten by milk and beef animals.

### Airborne Discharge Points

Releases from SQN are considered ground-level releases. The ground-level Joint Frequency Distribution (JFD) is derived from windspeeds and directions measured 10 meters above ground and from the vertical temperature difference between 10 and 46 meters, and are presented for each quarter in Attachment 1.0.

### Meteorological Data

Meteorological variables at SQN are measured continuously. Measurements collected include wind speed, wind direction, and temperature at heights of 10, 46, and 91 meters above the ground. Quarterly joint frequency distributions (JFDs) are calculated for each release point using the appropriate levels of meteorological data. A JFD gives the percentage of the time in a quarter that the wind is blowing out of a particular upwind compass sector in a particular range of wind speeds for a given stability Class A through G. The wind speeds are divided into nine wind speed ranges. Calms are distributed by direction in proportion to the distribution of noncalm wind directions less than 0.7 m/s (1.5 mph). Stability classes are determined from the vertical temperature difference between two measurement levels.

### External Exposure Dose

Dose estimates for maximum external air dose (gamma-air and beta-air doses) are made for points at and beyond the unrestricted area boundary as described in the SQN ODCM. The highest of these doses is then selected.

### Submersion Dose

External doses to the skin and total body, due to submersion in a cloud of noble gases, are estimated for the nearest residence in each sector. The residence with the highest dose is then selected from all sectors.

### Organ Dose

Doses to organs due to releases of airborne effluents are estimated for the inhalation, ground contamination, and ingestion pathways. The ingestion pathway is further divided into four possible contributing pathways: ingestion of cow/goat milk, ingestion of beef, and ingestion of vegetables. Doses from applicable pathways are calculated for each real receptor location identified in the most recent land use survey. To determine the maximum organ dose, the doses from the pathways are summed for each receptor. For the ingestion dose, however, only those pathways that exist for each receptor are considered in the sum, i.e., milk ingestion doses are included only for locations where milk is consumed without commercial preparation and vegetable ingestion is included only for those locations where a garden is identified. To conservatively account for beef ingestion, a beef ingestion dose equal to that for the highest unrestricted area boundary location is added to each identified receptor. For ground contamination, the dose added to the organ dose being calculated is the total body dose calculated for that location, i.e., it is assumed that the dose to an individual organ is equal to the total body dose.

Doses from airborne effluents are presented in Tables 1 through 4.

## **DOSES FROM LIQUID EFFLUENTS**

For liquid effluents, the public can be exposed to radiation from three sources: the ingestion of water from the Tennessee River, the ingestion of fish caught in the Tennessee River, and direct exposure from radioactive material deposited on the river shoreline sediment (recreation).

The concentrations of radioactivity in the Tennessee River are estimated by a computer model which uses measured hydraulic data downstream of SQN. Parameters used to determine the doses are based on guidance given by the NRC (in Regulatory Guides 1.109) for maximum ingestion rates, exposure times, etc. Wherever possible, parameters used in the dose calculation are site specific use factors determined by TVA. The models that are used to estimate doses, as well as the parameters input to the models, are described in detail in the SQN ODCM.

### Liquid Release Points and River Data

Radioactivity concentrations in the Tennessee River are calculated assuming that releases in liquid effluents are continuous. Routine liquid releases from SQN, located at Tennessee River Mile 484, are made through diffusers which extend into the Tennessee River. It is assumed that releases to the river through these diffusers will initially be entrained in one-fifth of the water which flows past the plant. The QWATA code makes the assumption that this mixing condition holds true until the water is completely mixed at the first downstream dam, at Tennessee River Mile 471.0.

Doses are calculated for locations within a 50-mile radius downstream of the plant site. The maximum potential recreation dose is calculated for a location immediately downstream from the plant outfall. The maximum individual dose from ingestion of fish is assumed to be that calculated for the consumption of fish caught anywhere between the plant and the first downstream dam (Chickamauga Dam). The maximum individual dose from drinking water is assumed to be that calculated at the nearest downstream public water supply (East Side Utilities). This could be interpreted as indicating that the maximum individual, as assumed for liquid releases from Sequoyah, is an individual who obtains all of his drinking water at East Side Utilities, consumes fish caught from the Tennessee River between SQN and Chickamauga Dam, and spends 500 hours per year on the shoreline just below the outfall from Sequoyah. Dose estimates for the maximum individual due to liquid effluents for each quarter in the period are presented in Tables 5 through 8, along with the average river flows past the plant site for the periods.

Population doses are calculated assuming that each individual consumes milk, vegetables, and meat produced within the sector annulus in which he resides. Doses from external pathways and inhalation are based on the 50-mile human population distribution.

## **POPULATION DOSES**

Population doses for highest exposed organ due to airborne effluents are calculated for an estimated 1,060,000 persons living within a 50-mile radius of the plant site. Doses from external pathways and inhalation are based on the 50-mile human population distribution.

Ingestion population doses for total body and the maximum exposed organ due to liquid effluents are calculated for the entire downstream Tennessee River population. Water ingestion population doses are calculated using actual population figures for downstream public water supplies. Fish ingestion population doses are calculated assuming that all sport fish caught in the Tennessee River are consumed by the Tennessee River population. Recreation population doses are calculated using actual recreational data on the number of shoreline visits at downstream locations.

Population dose estimates for airborne and liquid effluents are presented in Tables 1 through 8.

## **DIRECT RADIATION**

External gamma radiation levels were measured by thermoluminescent dosimeters (TLDs) deployed around SQN as part of the offsite Environmental Radiological Monitoring Program. The quarterly gamma radiation levels determined from these TLDs during this reporting period averaged approximately 15.25 mR/quarter at onsite (at or near the site boundary) stations and approximately 14.00 mR/quarter at offsite stations, or approximately 1.25 mR/quarter higher onsite than at offsite stations. This difference is consistent with levels measured for preoperation and construction phases of the TVA nuclear plant site where the average radiation levels onsite were generally 2-6 mR/quarter higher than the levels offsite. This may be attributable to natural variations in environmental radiation levels, earth moving activities onsite, the mass of concrete employed in the construction of the plants, or other

undetermined influences. Fluctuations in natural background dose rates and in TLD readings tend to mask any small increments which may be due to plant operations. Thus, there was no identifiable increase in dose rate levels attributable to direct radiation from plant equipment and/or gaseous effluents.

#### **DOSE TO A MEMBER OF THE PUBLIC INSIDE THE UNRESTRICTED AREA BOUNDARY**

As stated in the SQN Offsite Dose Calculation Manual, an evaluation of the dose to a member of the public inside the unrestricted area boundary is performed for a hypothetical TVA employee who works just outside the restricted area fence for an entire work year (2000/8760 hours). Results from onsite TLD measurements for the calendar year in question indicate that the highest onsite TLD reading was 250 mrem. Using this value, and subtracting an annual background value of 62 mrem/year, and multiplying by the ratio of the occupancy times, the external dose was 42.92 mrem. The doses due to radioactive effluents released to the atmosphere calculated in this report would not add a significant amount to this measured dose. This dose is well below the 10 CFR 20 annual limit of 100 mrem.

#### **TOTAL DOSE**

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

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

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

Cumulative annual total doses are presented in Table 9.

**Table 1**  
**Doses from Airborne Effluents**  
**First Quarter**

**Individual Doses**

Pathway	Dose	Quarterly Limit	Percent of Limit	Location Sector/Distance
<b>External</b>				
Gamma Air	5.38E-03 mrad	5 mrad	<1	N/950
Beta Air	2.63E-03 mrad	10 mrad	<1	N/950
<b>Submersion</b>				
Total Body	3.23E-03 mrad	10 mrad	<1	SSW/2134
Skin	4.93E-03 mrad	10 mrad	<1	SSW/2134
<b>Organ Doses</b>				
Child/Thyroid	9.75E-03 mrem	7.5 mrem	<1	N/1829
Child/Total Body	9.36E-03 mrem	7.5 mrem	<1	N/1829

**Population Doses**

Total Body Dose                    2.67E-02 man-rem

Maximum Organ Dose (organ)    2.79E-02 man-rem (thyroid)

*Population doses can be compared to the natural background dose for the entire 50-mile population of about 95,400 man-rem/year (based on 90 mrem/yr for natural background).*

**Table 2**  
**Doses from Airborne Effluents**  
**Second Quarter**

**Individual Doses**

Pathway	Dose	Quarterly Limit	Percent of Limit	Location Sector/Distance
<b>External</b>				
Gamma Air	4.30E-03 mrad	5 mrad	<1	NW/660
Beta Air	2.80E-03 mrad	10 mrad	<1	NW/660
<b>Submersion</b>				
Total Body	2.70E-03 mrad	10 mrad	<1	NNW/841
Skin	4.25E-03 mrad	10 mrad	<1	NNW/841
<b>Organ Doses</b>				
Child/Thyroid	1.61E-02 mrem	7.5 mrem	<1	S/2093
Child/Total Body	1.55E-02 mrem	7.5 mrem	<1	S/2093

**Population Doses**

Total Body Dose                    4.26E-02 man-rem

Maximum Organ Dose (organ)    4.41E-02 man-rem (thyroid)

*Population doses can be compared to the natural background dose for the entire 50-mile population of about 95,400 man-rem/year (based on 90 mrem/yr for natural background).*

**Table 3**  
**Doses from Airborne Effluents**  
**Third Quarter**

**Individual Doses**

Pathway	Dose	Quarterly Limit	Percent of Limit	Location Sector/Distance
External				
Gamma Air	2.18E-03 mrad	5 mrad	<1	S/1570
Beta Air	1.57E-03 mrad	10 mrad	<1	S/1570
Submersion				
Total Body	1.65E-03 mrad	10 mrad	<1	S/1786
Skin	2.68E-03 mrad	10 mrad	<1	S/1786
Organ Doses				
Child/Thyroid	1.08E-02 mrem	7.5 mrem	<1	S/2093
Child/Total Body	1.06E-02 mrem	7.5 mrem	<1	S/2093

**Population Doses**

Total Body Dose            1.53E-02 man-rem

Maximum Organ Dose (organ)    1.55E-02 man-rem (thyroid)

*Population doses can be compared to the natural background dose for the entire 50-mile population of about 95,400 man-rem/year (based on 90 mrem/yr for natural background).*

**Table 4**  
**Doses from Airborne Effluents**  
**Fourth Quarter**

**Individual Doses**

Pathway	Dose	Quarterly Limit	Percent of Limit	Location Sector/Distance
<b>External</b>				
Gamma Air	4.91E-03 mrad	5 mrad	<1	SSW/1840
Beta Air	1.36E-02 mrad	10 mrad	<1	SSW/1840
<b>Submersion</b>				
Total Body	3.34E-03 mrad	10 mrad	<1	SSW/2134
Skin	7.74E-03 mrad	10 mrad	<1	SSW/2134
<b>Organ Doses</b>				
Child/Thyroid	1.01E-02 mrem	7.5 mrem	<1	S/2093
Child/Total Body	1.01E-02 mrem	7.5 mrem	<1	S/2093

**Population Doses**

Total Body Dose                    2.01E-02 man-rem

Maximum Organ Dose (organ)      2.01E-02 man-rem (thyroid, liver, bone, GI, lung, kidney)

*Population doses can be compared to the natural background dose for the entire 50-mile population of about 95,400 man-rem/year (based on 90 mrem/yr for natural background).*

**Table 5**  
**Doses from Liquid Effluents**  
**First Quarter**

**Individual Doses (mrem)**

Age Group	Organ	Dose	Quarterly Limit	Percent of Limit
Child	Total Body	1.50E-03	1.5 mrem	< 1 %
Child	Liver	1.70E-03	5 mrem	< 1 %
Child	Thyroid	1.60E-03	5 mrem	< 1 %

Average Riverflow past SQN (cubic feet per second): 40,477

**Population Doses**

Total Body Dose                    1.20E-01 man-rem

Maximum Organ Dose (organ)      1.20E-01 man-rem (Bone, GIT, Thyroid,  
    Liver, Kidney, Lung))

*Population doses can be compared to the natural background dose for the entire 50-mile population of about 95,400 man-rem/year (based on 90 mrem/yr for natural background).*

**Table 6**  
**Doses from Liquid Effluents**  
**Second Quarter**

**Individual Doses (mrem)**

Age Group	Organ	Dose	Quarterly Limit	Percent of Limit
Child	Total Body	4.20E-03	1.5 mrem	< 1 %
Adult	GIT	5.5E-03	5 mrem	< 1 %
Child	Thyroid	4.20E-03	5 mrem	< 1 %

Average Riverflow past SQN (cubic feet per second): 25,212

**Population Doses**

Total Body Dose                    3.50E-01 man-rem

Maximum Organ Dose (organ)      3.60E-01 man-rem (GIT)

*Population doses can be compared to the natural background dose for the entire 50-mile population of about 95,400 man-rem/year (based on 90 mrem/yr for natural background).*

**Table 7**  
**Doses from Liquid Effluents**  
**Third Quarter**

**Individual Doses (mrem)**

Age Group	Organ	Dose	Quarterly Limit	Percent of Limit
Child	Total Body	2.10E-04	1.5 mrem	< 1 %
Adult	GIT	2.30E-04	5 mrem	< 1 %
Child	Thyroid	2.10E-04	5 mrem	< 1 %

Average Riverflow past SQN (cubic feet per second): 32,643

**Population Doses**

Total Body Dose                    1.90E-02 man-rem

Maximum Organ Dose (organ)      2.00E-02 man-rem (GIT)

*Population doses can be compared to the natural background dose for the entire 50-mile population of about 95,400 man-rem/year (based on 90 mrem/yr for natural background).*

**Table 8**  
**Doses from Liquid Effluents**  
**Fourth Quarter**

**Individual Doses (mrem)**

Age Group	Organ	Dose	Quarterly Limit	Percent of Limit
Child	Total Body	1.40E-03	1.5 mrem	< 1 %
Child	Liver	1.50E-03	5 mrem	< 1 %
Child	Thyroid	1.30E-03	5 mrem	< 1 %

Average River flow past SQN (cubic feet per second): 25,310

**Population Doses**

Total Body Dose            1.10E-01 man-rem

Maximum Organ Dose (organ)    1.10E-01 man-rem (GIT)

*Population doses can be compared to the natural background dose for the entire 50-mile population of about 95,400 man-rem/year (based on 90 mrem/yr for natural background).*

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A (DELTA T&lt;=-1.9 C/100 M)

Sequoynah Nuclear Plant

JAN 1, 2005 - MAR 31, 2005

WIND DIRECTION TOTAL	CALM	WIND SPEED(MPH)							
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.000	0.000	0.000	0.141	0.188	0.000	0.000	0.000
0.329									
NNE	0.000	0.000	0.000	0.141	0.564	0.752	0.000	0.000	0.000
1.457									
NE	0.000	0.000	0.000	0.094	0.188	0.141	0.000	0.000	0.000
0.423									
ENE	0.000	0.000	0.000	0.188	0.047	0.000	0.000	0.000	0.000
0.235									
E	0.000	0.000	0.000	0.047	0.047	0.000	0.000	0.000	0.000
0.094									
ESE	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000
0.047									
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
S	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000
0.047									
SSW	0.000	0.000	0.000	0.000	0.376	0.329	0.000	0.000	0.000
0.705									
SW	0.000	0.000	0.000	0.000	0.047	0.282	0.000	0.000	0.000
0.329									
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
W	0.000	0.000	0.000	0.000	0.000	0.188	0.000	0.000	0.000
0.188									
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000
0.047									
NW	0.000	0.000	0.000	0.000	0.141	0.376	0.094	0.000	0.000
0.611									
NNW	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000
0.047									
SUBTOTAL	0.000	0.000	0.000	0.517	1.594	2.303	0.141	0.000	0.000
4.554									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2128

TOTAL HOURS OF STABILITY CLASS A 97

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 97

TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2128

TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/06/02

MEAN WIND SPEED = 7.78

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 &lt; DELTA T &lt;=-1.7 C/100 M)

## Sequoia Nuclear Plant

JAN 1, 2005 - MAR 31, 2005

WIND DIRECTION TOTAL	CALM	WIND SPEED(MPH)								>=24.5
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4		
N	0.000	0.000	0.047	0.047	0.141	0.000	0.000	0.000	0.000	0.000
0.235										
NNE	0.000	0.000	0.000	0.235	0.423	0.329	0.000	0.000	0.000	0.000
0.987										
NE	0.000	0.000	0.000	0.094	0.047	0.047	0.000	0.000	0.000	0.000
0.183										
ENE	0.000	0.000	0.094	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.141										
E	0.000	0.000	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000
0.094										
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
SSW	0.000	0.000	0.000	0.047	0.611	0.094	0.000	0.000	0.000	0.000
0.752										
SW	0.000	0.000	0.000	0.047	0.235	0.094	0.000	0.000	0.000	0.000
0.376										
WSW	0.000	0.000	0.000	0.000	0.047	0.094	0.000	0.000	0.000	0.000
0.141										
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
WNW	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000
0.047										
NW	0.000	0.000	0.000	0.000	0.094	0.376	0.047	0.000	0.000	0.000
0.517										
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
SUBTOTAL	0.000	0.000	0.141	0.611	1.593	1.041	0.047	0.000	0.000	0.000
3.477										

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2124  
 TOTAL HOURS OF STABILITY CLASS B 74  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 74  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2124  
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Sequoia Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/06/02

MEAN WIND SPEED = 6.77

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 &lt; DELTA T &lt;=-1.5 C/100 M)

Sequoah Nuclear Plant

JAN 1, 2005 - MAR 31, 2005

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)								>=24.5
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4		
N	0.000	0.000	0.000	0.094	0.094	0.047	0.000	0.000	0.000	0.000
0.235										
NNE	0.000	0.000	0.047	0.189	0.094	0.376	0.000	0.000	0.000	0.000
0.705										
NE	0.000	0.000	0.047	0.329	0.047	0.000	0.000	0.000	0.000	0.000
0.423										
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
ESE	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.047										
SE	0.000	0.000	0.047	0.141	0.000	0.000	0.000	0.000	0.000	0.000
0.188										
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
S	0.000	0.000	0.000	0.094	0.141	0.000	0.000	0.000	0.000	0.000
0.235										
SSW	0.000	0.000	0.000	0.094	0.094	0.000	0.000	0.000	0.000	0.000
0.188										
SW	0.000	0.000	0.000	0.141	0.235	0.000	0.000	0.000	0.000	0.000
0.376										
WSW	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000
0.047										
W	0.000	0.000	0.000	0.000	0.000	0.034	0.000	0.000	0.000	0.000
0.094										
WNW	0.000	0.000	0.000	0.000	0.047	0.141	0.141	0.000	0.000	0.000
0.329										
NW	0.000	0.000	0.047	0.000	0.000	0.141	0.000	0.000	0.000	0.000
0.188										
NNW	0.000	0.000	0.000	0.047	0.047	0.047	0.000	0.000	0.000	0.000
0.141										
SUBTOTAL	0.000	0.000	0.148	1.175	0.846	0.846	0.141	0.000	0.000	
3.195										

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2128
TOTAL HOURS OF STABILITY CLASS C	68
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	68
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2128
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

2005/06/02

MEAN WIND SPEED = 6.60

DATE PRINTED:

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR  
STABILITY CLASS D      (-1.5 < DELTA T <= -0.5 C/100 M)

Sequoah Nuclear Plant

JAN 1, 2005 - MAR 31, 2005

WIND DIRECTION TOTAL	CALM	WIND SPEED(MPH)								
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	
N	0.000	0.094	0.987	1.175	1.457	1.222	0.000	0.000	0.000	0.000
4.934										
NNE	0.000	0.000	1.457	2.256	2.679	2.867	0.000	0.000	0.000	0.000
9.258										
NE	0.000	0.047	1.034	0.329	0.282	0.047	0.000	0.000	0.000	0.000
1.739										
ENE	0.000	0.047	0.329	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.423										
E	0.000	0.047	0.282	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.329										
ESE	0.000	0.047	0.188	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.235										
SE	0.000	0.047	0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.183										
SSE	0.000	0.000	0.141	0.141	0.000	0.000	0.047	0.000	0.000	0.000
0.329										
S	0.000	0.000	0.611	0.705	0.188	0.423	0.000	0.000	0.000	0.000
1.927										
SSW	0.000	0.047	1.551	2.773	0.937	0.329	0.000	0.000	0.000	0.000
5.696										
SW	0.000	0.047	0.799	2.444	0.752	0.470	0.000	0.000	0.000	0.000
4.511										
WSW	0.000	0.000	0.329	0.752	0.282	0.282	0.000	0.000	0.000	0.000
1.645										
W	0.000	0.047	0.188	0.235	0.235	0.242	0.000	0.000	0.000	0.000
0.947										
WNW	0.000	0.141	0.000	0.141	0.376	0.393	0.047	0.000	0.000	0.000
1.645										
NW	0.000	0.094	0.188	0.470	0.752	0.940	0.094	0.000	0.000	0.000
2.534										
NNW	0.000	0.141	0.470	0.094	0.470	1.222	0.094	0.000	0.000	0.000
2.491										
SUBTOTAL	0.000	0.846	8.694	11.607	8.459	8.976	0.242	0.000	0.000	
38.863										

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2124
TOTAL HOURS OF STABILITY CLASS D	827
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	827
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2124
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/06/02

MEAN WIND SPEED = 5.54

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 &lt; DELTA T &lt;= 1.5 C/100 M)

Sequoah Nuclear Plant

JAN 1, 2005 - MAR 31, 2005

WIND DIRECTION TOTAL	CALM	0.6-1.4	1.5-3.4	WIND SPEED (MPH)					>=24.5
				3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	
N	0.000	0.188	1.739	1.081	0.282	0.000	0.000	0.000	0.000
3.289									
NNN	0.000	0.282	2.726	2.256	0.188	0.000	0.000	0.000	0.000
5.451									
NE	0.000	0.188	0.658	0.141	0.047	0.000	0.000	0.000	0.000
1.034									
ENE	0.000	0.141	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.188									
E	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.094									
ESE	0.000	0.141	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.188									
SE	0.000	0.094	0.188	0.000	0.000	0.000	0.000	0.000	0.000
0.282									
SSE	0.000	0.141	0.423	0.047	0.047	0.047	0.000	0.000	0.000
0.705									
S	0.000	0.376	1.363	0.705	0.329	0.235	0.000	0.000	0.000
3.008									
SSW	0.000	0.376	2.679	1.974	0.705	0.242	0.000	0.000	0.000
6.015									
SW	0.000	0.188	2.534	2.256	0.470	0.188	0.000	0.000	0.000
5.639									
WSW	0.000	0.188	0.329	0.329	0.047	0.000	0.000	0.000	0.000
0.893									
W	0.000	0.000	0.235	0.047	0.047	0.047	0.000	0.000	0.000
0.376									
NNW	0.000	0.141	0.376	0.188	0.047	0.000	0.000	0.000	0.000
0.752									
NW	0.000	0.141	0.423	0.470	0.047	0.000	0.000	0.000	0.010
1.081									
NNW	0.000	0.094	0.705	0.376	0.188	0.047	0.000	0.000	0.010
1.410									
SUBTOTAL	0.000	2.773	14.474	9.868	2.444	0.846	0.000	0.000	0.000
30.404									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2129
TOTAL HOURS OF STABILITY CLASS E	647
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	647
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2129
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/06/02

MEAN WIND SPEED = 3.40

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 &lt; DELTA T &lt;= 4.0 C/100 M)

## Sequoia Nuclear Plant

JAN 1, 2005 - MAR 31, 2005

WIND DIRECTION TOTAL	CALM	0.6-1.4	1.5-3.4	WIND SPEED (MPH)					>=24.5
				3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	
N	0.000	0.047	0.423	0.047	0.000	0.000	0.000	0.000	0.000
0.517									
NNW	0.000	0.141	2.773	0.423	0.000	0.000	0.000	0.000	0.000
3.336									
NE	0.000	0.282	0.997	0.141	0.000	0.000	0.000	0.000	0.000
1.410									
ENH	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.094									
E	0.000	0.047	0.141	0.000	0.000	0.000	0.000	0.000	0.000
0.188									
ESH	0.000	0.141	0.047	0.047	0.000	0.000	0.000	0.000	0.000
0.235									
SE	0.000	0.235	0.235	0.000	0.000	0.000	0.000	0.000	0.000
0.470									
SSE	0.000	0.141	0.094	0.047	0.047	0.000	0.000	0.000	0.000
0.329									
S	0.000	0.235	0.799	0.094	0.000	0.000	0.000	0.000	0.000
1.128									
SSW	0.000	0.094	1.645	0.188	0.000	0.000	0.000	0.000	0.000
1.927									
SW	0.000	0.188	1.410	0.376	0.094	0.000	0.000	0.000	0.000
2.068									
WSW	0.000	0.141	0.376	0.000	0.047	0.000	0.000	0.000	0.000
0.564									
W	0.000	0.047	0.188	0.000	0.000	0.000	0.000	0.000	0.000
0.235									
WNW	0.000	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000
0.047									
NW	0.000	0.047	0.000	0.047	0.000	0.000	0.000	0.000	0.000
0.094									
NNW	0.000	0.047	0.094	0.000	0.000	0.000	0.000	0.000	0.000
0.141									
SUBTOTAL	0.000	1.927	9.211	1.410	0.235	0.000	0.000	0.000	0.000
12.782									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2128
TOTAL HOURS OF STABILITY CLASS F	272
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	272
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2128
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoia Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/06/02

MEAN WIND SPEED = 2.41

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T &gt; 4.0 C/100 M)

Sequoia Nuclear Plant

JAN 1, 2005 - MAR 31, 2005

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)								>=24.5
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4		
N	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.047										
NNNE	0.009	0.094	1.128	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.231										
NE	0.012	0.329	1.316	0.047	0.000	0.000	0.000	0.000	0.000	0.000
1.704										
ENE	0.004	0.517	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.615										
E	0.001	0.047	0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.189										
ESE	0.001	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.095										
SE	0.001	0.094	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.142										
SSE	0.001	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.095										
S	0.002	0.235	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.244										
SSW	0.008	0.235	0.846	0.047	0.000	0.000	0.000	0.000	0.000	0.000
1.136										
SW	0.006	0.094	0.752	0.141	0.000	0.000	0.000	0.000	0.000	0.000
0.993										
WSW	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.047										
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
NW	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.047										
NNW	0.000	0.047	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.094										
SUBTOTAL	0.047	1.880	4.511	0.282	0.000	0.000	0.000	0.000	0.000	0.000
6.720										

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2128  
 TOTAL HOURS OF STABILITY CLASS G 143  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 143  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2128  
 TOTAL HOURS CALM 1

METEOROLOGICAL FACILITY: Sequoia Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/06/02

MEAN WIND SPEED = 1.91

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A (DELTA T&lt;--1.9 C/100 M)

Sequoah Nuclear Plant

APR 1, 2005 - JUN 30, 2005

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)								>=21.5
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4		
N	0.000	0.000	0.000	0.094	0.047	0.281	0.000	0.000	0.000	0.000
0.422	0.000	0.000	0.187	1.124	0.562	0.094	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.422	0.796	0.562	0.187	0.000	0.000	0.000	0.000
1.967	0.000	0.000	0.281	0.094	0.047	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.047	0.141	0.000	0.000	0.000	0.000	0.000	0.000
1.967	0.000	0.000	0.047	0.000	0.047	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.047	0.094	0.000	0.000	0.000	0.000	0.000	0.000
0.422	0.000	0.000	0.187	0.984	0.234	0.094	0.000	0.000	0.000	0.000
E	0.000	0.000	0.047	0.187	0.187	0.000	0.000	0.000	0.000	0.000
0.187	0.000	0.000	0.047	0.000	0.047	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.047	0.000	0.047	0.000	0.000	0.000	0.000	0.000
0.094	0.000	0.000	0.047	0.094	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.047	0.187	0.187	0.000	0.000	0.000	0.000	0.000
0.141	0.000	0.000	0.047	0.094	0.000	0.047	0.000	0.000	0.000	0.000
SSE	0.000	0.000	0.047	0.094	0.000	0.047	0.000	0.000	0.000	0.000
0.187	0.000	0.000	0.047	0.000	0.047	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.094	0.187	0.187	0.000	0.000	0.000	0.000	0.000
0.468	0.000	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.187	0.984	0.234	0.094	0.000	0.000	0.000	0.000
1.499	0.000	0.000	0.187	0.703	0.328	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.187	0.703	0.328	0.000	0.000	0.000	0.000	0.000
1.218	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.094	0.000	0.000	0.000	0.000
0.094	0.000	0.000	0.000	0.000	0.000	0.094	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.147	0.000	0.000	0.000	0.000
0.187	0.000	0.000	0.000	0.000	0.000	0.141	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.141	0.000	0.000	0.000	0.000
0.141	0.000	0.000	0.000	0.000	0.000	0.141	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.147	0.000	0.000	0.000	0.000
0.047	0.000	0.000	0.000	0.000	0.000	0.147	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	1.546	4.356	2.014	1.171	0.000	0.000	0.000	0.000
9.047										

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS A	194
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	194
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2135
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/08/26

MEAN WIND SPEED = 5.20

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 &lt; DELTA T &lt;=-1.7 C/100 M)

Sequoyah Nuclear Plant

APR 1, 2005 - JUN 30, 2005

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)							
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.000	0.000	0.094	0.094	0.000	0.000	0.000	0.000
0.187									
NNE	0.000	0.000	0.047	0.141	0.000	0.047	0.000	0.000	0.000
0.234									
NE	0.000	0.000	0.187	0.234	0.047	0.000	0.000	0.000	0.000
0.468									
ENE	0.000	0.000	0.047	0.141	0.000	0.000	0.000	0.000	0.000
0.187									
E	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.047									
ESE	0.000	0.000	0.094	0.047	0.000	0.000	0.000	0.000	0.000
0.141									
SE	0.000	0.047	0.094	0.047	0.000	0.000	0.000	0.000	0.000
0.187									
SSE	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000
0.047									
S	0.000	0.000	0.187	0.094	0.000	0.047	0.000	0.000	0.000
0.328									
SSW	0.000	0.000	0.281	0.422	0.234	0.000	0.000	0.000	0.000
0.937									
SW	0.000	0.000	0.375	0.703	0.000	0.000	0.000	0.000	0.000
1.077									
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
W	0.000	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000
0.047									
WNW	0.000	0.000	0.000	0.000	0.000	0.094	0.047	0.000	0.000
0.141									
NW	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000
0.047									
NNW	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000
0.047									
SUBTOTAL	0.000	0.047	1.358	2.014	0.422	0.234	0.047	0.000	0.000
4.122									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS B	89
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	84
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2135
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

2005/08/26  
 MEAN WIND SPEED = 4.44

DATE PRINTED:

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 &lt; DELTA T &lt;= -1.5 C/100 M)

Sequoah Nuclear Plant

APR 1, 2005 - JUN 30, 2005

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)							
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.000	0.047	0.094	0.141	0.047	0.000	0.000	0.000
0.328									
NNE	0.000	0.047	0.141	0.141	0.187	0.000	0.000	0.000	0.000
0.515									
NE	0.000	0.000	0.187	0.328	0.094	0.000	0.000	0.000	0.000
0.609									
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
E	0.000	0.000	0.141	0.000	0.000	0.000	0.000	0.000	0.000
0.141									
ESE	0.000	0.000	0.047	0.094	0.000	0.000	0.000	0.000	0.000
0.141									
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SSE	0.000	0.000	0.094	0.047	0.000	0.047	0.000	0.000	0.000
0.187									
S	0.000	0.000	0.094	0.281	0.000	0.141	0.000	0.000	0.000
0.515									
SSW	0.000	0.000	0.094	0.562	0.187	0.000	0.000	0.000	0.000
0.843									
SW	0.000	0.000	0.328	0.749	0.187	0.000	0.000	0.000	0.000
1.265									
WSW	0.000	0.000	0.000	0.047	0.094	0.000	0.000	0.000	0.000
0.141									
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
NNW	0.000	0.000	0.000	0.094	0.234	0.047	0.000	0.000	0.000
0.375									
NW	0.000	0.000	0.000	0.047	0.187	0.141	0.000	0.000	0.000
0.375									
NNW	0.000	0.000	0.000	0.000	0.094	0.047	0.000	0.000	0.000
0.141									
SUBTOTAL	0.000	0.047	1.171	2.492	1.405	0.468	0.000	0.000	0.000
5.574									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS C	119
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	119
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2135
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/08/26

MEAN WIND SPEED = 4.82

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 &lt; DELTA T &lt;=-0.5 C/100 M)

Sequoah Nuclear Plant

APR 1, 2005 - JUN 30, 2005

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)						>=24.5
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	
N 1.780	0.000	0.094	0.890	0.375	0.328	0.094	0.000	0.000
NNNE 4.215	0.000	0.094	1.499	1.874	0.562	0.187	0.000	0.000
NE 1.218	0.000	0.000	0.796	0.328	0.094	0.000	0.000	0.000
ENE 0.422	0.000	0.000	0.281	0.141	0.000	0.000	0.000	0.000
E 0.422	0.000	0.000	0.234	0.141	0.047	0.000	0.000	0.000
ENE 0.281	0.000	0.000	0.281	0.000	0.000	0.000	0.000	0.000
SE 0.468	0.000	0.047	0.281	0.094	0.047	0.000	0.000	0.000
SSSE 1.405	0.000	0.047	0.562	0.375	0.000	0.422	0.000	0.000
S 3.326	0.000	0.000	1.686	1.358	0.141	0.141	0.000	0.000
SSW 4.871	0.000	0.187	2.576	1.920	0.187	0.000	0.000	0.000
SW 5.012	0.000	0.047	2.529	2.061	0.375	0.000	0.000	0.000
WSW 1.546	0.000	0.000	0.749	0.515	0.234	0.047	0.000	0.000
W 1.030	0.000	0.000	0.234	0.241	0.187	0.324	0.000	0.000
WNW 1.499	0.000	0.047	0.281	0.281	0.375	0.515	0.000	0.000
NW 1.686	0.000	0.000	0.234	0.328	0.796	0.324	0.000	0.000
NNW 1.499	0.000	0.187	0.281	0.515	0.464	0.047	0.000	0.000
SUBTOTAL 30.679	0.000	0.749	13.396	10.585	3.841	2.104	0.000	0.000

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS D	664
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	655
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2135
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/08/26

MEAN WIND SPEED = 4.07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 &lt; DELTA T &lt;= 1.5 C/100 M)

Sequoah Nuclear Plant

APR 1, 2005 - JUN 30, 2005

WIND DIRECTION TOTAL	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)					>=24.5
				3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	
N	0.000	0.468	3.513	1.311	0.094	0.000	0.000	0.000	0.000
5.386									
NNE	0.000	0.468	2.342	0.703	0.047	0.000	0.000	0.000	0.000
3.560									
NE	0.000	0.328	0.422	0.234	0.000	0.000	0.000	0.000	0.000
0.984									
ENE	0.000	0.094	0.281	0.000	0.000	0.000	0.000	0.000	0.000
0.375									
E	0.000	0.234	0.234	0.000	0.000	0.000	0.000	0.000	0.000
0.468									
ESE	0.000	0.094	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.141									
SE	0.000	0.422	0.515	0.000	0.000	0.000	0.000	0.000	0.000
0.937									
SSE	0.000	0.609	0.562	0.000	0.047	0.094	0.000	0.000	0.000
1.311									
S	0.000	0.281	0.937	0.234	0.515	0.234	0.000	0.000	0.000
2.201									
SSW	0.000	0.328	2.993	0.703	0.141	0.000	0.000	0.000	0.000
4.169									
SW	0.000	0.468	2.482	0.796	0.000	0.000	0.000	0.000	0.000
3.747									
WSW	0.000	0.141	1.077	0.187	0.047	0.047	0.000	0.000	0.000
1.499									
W	0.000	0.187	1.033	0.324	0.047	0.000	0.000	0.000	0.000
1.593									
WNW	0.000	0.328	0.703	0.375	0.047	0.000	0.000	0.000	0.000
1.452									
NW	0.000	0.234	0.375	0.422	0.187	0.047	0.000	0.000	0.000
1.265									
NNW	0.000	0.328	0.890	0.324	0.094	0.000	0.000	0.000	0.000
1.639									
SUBTOTAL	0.000	5.012	18.407	5.621	1.265	0.422	0.000	0.000	0.000
30.726									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS E	663
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	656
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2135
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/08/26

MEAN WIND SPEED = 2.70

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5 &lt; DELTA T &lt;= 4.0 C/100 M)

Sequoah Nuclear Plant

APR 1, 2005 - JUN 30, 2005

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)								>=24.5
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4		
N	0.000	0.468	1.920	0.047	0.000	0.000	0.000	0.000	0.000	0.000
2.436										
NNE	0.000	0.515	2.998	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3.513										
NE	0.000	0.562	0.749	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.311										
ENE	0.000	0.328	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.422										
E	0.000	0.422	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.515										
ESE	0.000	0.468	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.562										
SE	0.000	0.703	0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.843										
SSE	0.000	0.468	0.187	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.656										
S	0.000	0.375	0.703	0.234	0.000	0.000	0.000	0.000	0.000	0.000
1.311										
SSW	0.000	0.234	1.171	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.405										
SW	0.000	0.234	0.703	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.937										
WSW	0.000	0.094	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.464										
W	0.000	0.047	0.094	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.147										
WNW	0.000	0.094	0.094	0.000	0.047	0.000	0.000	0.000	0.000	0.000
0.234										
NW	0.000	0.047	0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.147										
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
SUBTOTAL	0.000	5.059	9.555	0.328	0.047	0.000	0.000	0.000	0.000	0.000
14.948										

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2155  
 TOTAL HOURS OF STABILITY CLASS F 323  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 320  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2135  
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/08/26

MEAN WIND SPEED = 1.89

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR  
STABILITY CLASS G      (DELTA T > 4.0 C/100 M)

Sequoah Nuclear Plant

APR 1, 2005 - JUN 30, 2005

WIND DIRECTION TOTAL	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)						>=21.5
				3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4		
N	0.001	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.095										
NNE	0.005	0.094	0.422	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.520										
NE	0.006	0.187	0.422	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.615										
ENE	0.002	0.094	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.189										
E	0.003	0.234	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.284										
ESE	0.004	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.378										
SE	0.005	0.515	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.520										
SSE	0.005	0.422	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.520										
S	0.007	0.375	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.757										
SSW	0.007	0.094	0.609	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.709										
SW	0.001	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.095										
WSW	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.047										
W	0.001	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.095										
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
SUBTOTAL	0.047	2.529	2.248	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4.824										

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2155
TOTAL HOURS OF STABILITY CLASS G	103
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	103
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2135
TOTAL HOURS CALM	1

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

2005/08/26  
MEAN WIND SPEED = 1.52

DATE PRINTED:

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A (DELTA T&lt;--1.9 C/100 M)

Sequoah Nuclear Plant

JUL 1, 2005 - SEP 30, 2005

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)								>=24.5
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4		
N	0.000	0.000	0.000	0.183	0.275	0.000	0.000	0.000	0.000	0.000
0.458										
NNE	0.000	0.000	0.550	1.558	1.100	0.000	0.000	0.000	0.000	0.000
3.208										
NE	0.000	0.000	0.687	0.733	0.137	0.000	0.000	0.000	0.000	0.000
1.558										
ENE	0.000	0.000	0.183	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.229										
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
SSE	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000
0.046										
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
SSW	0.000	0.000	0.000	0.504	0.000	0.000	0.000	0.000	0.000	0.000
0.504										
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
W	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.046										
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
SUBTOTAL	0.000	0.000	1.467	3.025	1.558	0.000	0.000	0.000	0.000	0.000
6.049										

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2183
TOTAL HOURS OF STABILITY CLASS A	132
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	132
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2142
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/12/05

MEAN WIND SPEED = 4.53

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 &lt; DELTA T &lt;=-1.7 C/100 M)

Sequoah Nuclear Plant

JUL 1, 2005 - SEP 30, 2005

WIND DIRECTION TOTAL	CALM	WIND SPEED(MPH)								>=24.5
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4		
N	0.000	0.000	0.137	0.229	0.000	0.000	0.000	0.000	0.000	0.000
0.367										
NNE	0.000	0.000	0.458	0.779	0.137	0.000	0.000	0.000	0.000	0.000
1.375										
NE	0.000	0.000	1.008	0.183	0.046	0.000	0.000	0.000	0.000	0.000
1.237										
ENS	0.000	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.092										
E	0.000	0.000	0.092	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.137										
ESN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
SE	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.046										
SSN	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.046										
S	0.000	0.000	0.000	0.275	0.046	0.000	0.000	0.000	0.000	0.000
0.321										
SSW	0.000	0.000	0.046	0.143	0.046	0.000	0.000	0.000	0.000	0.000
0.275										
SW	0.000	0.000	0.046	0.092	0.000	0.000	0.000	0.000	0.000	0.000
0.137										
WSW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.046										
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
SUBTOTAL	0.000	0.000	1.925	1.879	0.275	0.000	0.000	0.000	0.000	0.000
4.079										

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2183
TOTAL HOURS OF STABILITY CLASS B	90
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	89
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2182
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/12/05

MEAN WIND SPEED = 3.76

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 &lt; DELTA T &lt;= -1.5 C/100 M)

Sequoyah Nuclear Plant

JUL 1, 2005 - SEP 30, 2005

WIND DIRECTION TOTAL	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)						>=21.5
				3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4		
N	0.000	0.000	0.229	0.367	0.092	0.000	0.000	0.000	0.000	0.000
0.687										
NNE	0.000	0.000	0.825	0.779	0.275	0.000	0.000	0.000	0.000	0.000
1.879										
NE	0.000	0.000	0.504	0.092	0.000	0.000	0.000	0.000	0.000	0.000
0.596										
ENE	0.000	0.000	0.183	0.092	0.000	0.000	0.000	0.000	0.000	0.000
0.275										
E	0.000	0.000	0.229	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.275										
ESE	0.000	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.092										
SE	0.000	0.000	0.092	0.137	0.000	0.000	0.000	0.000	0.000	0.000
0.229										
SSE	0.000	0.000	0.046	0.046	0.046	0.137	0.046	0.000	0.000	0.000
0.321										
S	0.000	0.000	0.000	0.412	0.000	0.000	0.000	0.000	0.000	0.000
0.412										
SSW	0.000	0.000	0.046	1.329	0.092	0.000	0.000	0.000	0.000	0.000
1.467										
SW	0.000	0.000	0.183	0.229	0.000	0.000	0.000	0.000	0.000	0.000
0.412										
WSW	0.000	0.000	0.046	0.137	0.000	0.000	0.000	0.000	0.000	0.000
0.143										
W	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.046										
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
NNW	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000
0.092										
SUBTOTAL	0.000	0.000	2.475	3.754	0.550	0.137	0.046	0.000	0.000	
6.966										

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2143
TOTAL HOURS OF STABILITY CLASS C	152
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	152
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2142
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/12/05

MEAN WIND SPEED = 4.07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 &lt; DELTA T &lt;= -0.5 C/100 M)

Sequoayah Nuclear Plant

JUL 1, 2005 - SEP 30, 2005

WIND DIRECTION TOTAL	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)					>=24.5
				3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	
N	0.000	0.000	2.200	1.558	0.183	0.046	0.000	0.000	0.000
3.987									
NNE	0.000	0.046	1.512	1.558	0.733	0.229	0.000	0.000	0.000
4.079									
NE	0.000	0.046	0.642	0.367	0.137	0.092	0.000	0.000	0.000
1.283									
ENE	0.000	0.046	0.642	0.092	0.000	0.000	0.000	0.000	0.000
0.779									
E	0.000	0.000	0.412	0.000	0.046	0.000	0.000	0.000	0.000
0.458									
ESE	0.000	0.000	0.458	0.046	0.000	0.000	0.000	0.000	0.000
0.504									
SE	0.000	0.092	0.687	0.183	0.046	0.046	0.000	0.000	0.000
1.054									
SSW	0.000	0.000	0.917	0.367	0.367	0.596	0.275	0.000	0.000
2.521									
S	0.000	0.000	2.521	2.612	0.092	0.321	0.046	0.000	0.000
5.591									
SSW	0.000	0.046	3.437	3.950	0.092	0.000	0.000	0.000	0.000
7.424									
SW	0.000	0.000	1.237	1.237	0.000	0.229	0.000	0.000	0.000
2.704									
WSW	0.000	0.092	0.504	0.229	0.137	0.000	0.000	0.000	0.000
0.962									
W	0.000	0.000	0.092	0.183	0.000	0.000	0.000	0.000	0.000
0.275									
WNW	0.000	0.046	0.183	0.092	0.000	0.046	0.000	0.000	0.000
0.367									
NW	0.000	0.000	0.229	0.000	0.046	0.000	0.000	0.000	0.000
0.275									
NNW	0.000	0.000	0.779	0.596	0.137	0.046	0.000	0.000	0.000
1.558									
SUBTOTAL	0.000	0.412	16.453	12.970	2.016	1.650	0.321	0.000	0.000
33.822									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2143
TOTAL HOURS OF STABILITY CLASS D	734
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	734
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2142
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/12/05

MEAN WIND SPEED = 3.85

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 &lt; DELTA T &lt;= 1.5 C/100 M)

Sequoah Nuclear Plant

JUL 1, 2005 - SEP 30, 2005

WIND DIRECTION TOTAL	CALM	0.6-1.4	1.5-3.4	WIND SPEED (MPH)						>=24.5
				3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	
N	0.000	0.779	6.416	0.733	0.046	0.000	0.000	0.000	0.000	0.000
7.974										
NNE	0.000	0.642	3.666	0.550	0.137	0.000	0.000	0.000	0.000	0.000
4.995										
NE	0.000	0.367	0.550	0.183	0.092	0.000	0.000	0.000	0.000	0.000
1.192										
ENE	0.000	0.183	0.229	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.458										
E	0.000	0.000	0.367	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.412										
ESE	0.000	0.458	0.367	0.000	0.046	0.000	0.000	0.000	0.000	0.000
0.871										
SE	0.000	0.183	0.458	0.046	0.000	0.046	0.000	0.000	0.000	0.000
0.733										
SSE	0.000	0.229	0.596	0.092	0.046	0.000	0.046	0.000	0.000	0.000
1.008										
S	0.000	0.596	2.475	0.458	0.137	0.183	0.000	0.000	0.000	0.000
3.850										
SSW	0.000	0.642	2.108	0.275	0.000	0.000	0.000	0.000	0.000	0.000
3.025										
SW	0.000	0.412	1.421	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.833										
WSW	0.000	0.596	1.146	0.275	0.000	0.000	0.000	0.000	0.000	0.000
2.016										
W	0.000	0.229	0.642	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.917										
WNW	0.000	0.275	0.504	0.046	0.046	0.000	0.000	0.000	0.000	0.000
0.871										
NW	0.000	0.412	0.596	0.137	0.000	0.046	0.000	0.000	0.000	0.000
1.192										
NNW	0.000	0.825	2.016	0.143	0.000	0.000	0.000	0.000	0.000	0.000
3.025										
SUBTOTAL	0.000	6.829	23.556	3.116	0.550	0.275	0.046	0.000	0.000	
34.372										

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2183
TOTAL HOURS OF STABILITY CLASS E	750
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	750
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2182
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/12/05  
 MEAN WIND SPEED = 2.31

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F ( 1.5 &lt; DELTA T &lt;= 4.0 C/100 M)

Sequoah Nuclear Plant

JUL 1, 2005 - SEP 30, 2005

WIND DIRECTION TOTAL	CALM	WIND SPEED(MPH)								>=24.5
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4		
N	0.000	0.229	4.170	0.137	0.000	0.000	0.000	0.000	0.000	0.000
4.537										
NNE	0.000	1.146	4.995	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6.141										
NE	0.000	0.504	0.367	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.871										
ENE	0.000	0.183	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.183										
E	0.000	0.137	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.229										
ESE	0.000	0.092	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.137										
SE	0.000	0.137	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.183										
SSE	0.000	0.046	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.183										
S	0.000	0.092	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.183										
SSW	0.000	0.046	0.412	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.458										
SW	0.000	0.092	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.183										
WSW	0.000	0.046	0.229	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.275										
W	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.092										
WNW	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.092										
NW	0.000	0.000	0.183	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.183										
NNW	0.000	0.092	0.550	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.642										
SUBTOTAL	0.000	2.933	11.503	0.137	0.000	0.000	0.000	0.000	0.000	0.000
14.574										

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2183  
 TOTAL HOURS OF STABILITY CLASS F 318  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 318  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2182  
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/12/05

MEAN WIND SPEED = 1.92

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T &gt; 4.0 C/100 M)

Sequoia Nuclear Plant

JUL 1, 2005 - SEP 30, 2005

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)								
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	0.000	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.137										

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2143
TOTAL HOURS OF STABILITY CLASS G	3
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	3
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2142
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2005/12/05

MEAN WIND SPEED = 2.00

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR  
STABILITY CLASS A      (DELTA T<=-1.9 C/100 M)

Sequoah Nuclear Plant

OCT 1, 2005 - DEC 31, 2005

WIND DIRECTION TOTAL	CALM	0.6-1.4	1.5-3.4	WIND SPEED (MPH)					>=24.5
				3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	
N	0.000	0.000	0.000	0.046	0.000	0.046	0.000	0.000	0.000
0.092									
NNE	0.000	0.000	0.000	0.782	1.057	0.230	0.000	0.000	0.000
2.069									
NE	0.000	0.000	0.046	0.322	0.322	0.000	0.000	0.000	0.000
0.690									
ENE	0.000	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.000
0.092									
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
S	0.000	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.000
0.092									
SSW	0.000	0.000	0.000	0.138	0.184	0.092	0.000	0.000	0.000
0.414									
SW	0.000	0.000	0.000	0.184	0.184	0.276	0.000	0.000	0.000
0.644									
WSW	0.000	0.000	0.000	0.046	0.000	0.092	0.000	0.000	0.000
0.134									
W	0.000	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000
0.092									
WNW	0.000	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000
0.092									
NW	0.000	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.000
0.092									
NNW	0.000	0.000	0.000	0.046	0.046	0.092	0.000	0.000	0.000
0.184									
SUBTOTAL	0.000	0.000	0.134	1.563	2.069	0.920	0.000	0.000	0.000
4.690									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS A	102
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	102
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2175
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/02/13

MEAN WIND SPEED = 6.12

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9 &lt; DELTA T &lt;=-1.7 C/100 M)

Sequoah Nuclear Plant

OCT 1, 2005 - DEC 31, 2005

WIND DIRECTION TOTAL	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)					>-24.5
				3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	
N	0.000	0.000	0.000	0.230	0.184	0.046	0.000	0.000	0.000
0.460									
NNN	0.000	0.000	0.092	0.414	0.230	0.230	0.000	0.000	0.000
0.966									
NE	0.000	0.000	0.414	0.322	0.046	0.000	0.000	0.000	0.000
0.782									
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
S	0.000	0.000	0.000	0.138	0.000	0.000	0.000	0.000	0.000
0.138									
SSW	0.000	0.000	0.000	0.230	0.230	0.046	0.000	0.000	0.000
0.506									
SW	0.000	0.000	0.000	0.414	0.092	0.046	0.000	0.000	0.000
0.552									
WSW	0.000	0.000	0.000	0.000	0.000	0.092	0.000	0.000	0.000
0.092									
W	0.000	0.000	0.000	0.000	0.092	0.046	0.000	0.000	0.000
0.138									
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
NW	0.000	0.000	0.000	0.000	0.046	0.032	0.000	0.000	0.000
0.138									
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SUBTOTAL	0.000	0.000	0.506	1.747	0.920	0.594	0.000	0.000	0.000
3.770									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS B	82
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	82
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2175
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/02/13

MEAN WIND SPEED = 5.38

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7 &lt; DELTA T &lt;= -1.5 C/100 M)

Sequoxyah Nuclear Plant

OCT 1, 2005 - DEC 31, 2005

WIND DIRECTION TOTAL	CALM	WIND SPEED(MPH)								>-24.5
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4		
N	0.000	0.000	0.046	0.322	0.138	0.138	0.000	0.000	0.000	0.000
0.644										
NNN	0.000	0.000	0.092	0.184	0.598	0.184	0.000	0.000	0.000	0.000
1.057										
NE	0.000	0.000	0.184	0.322	0.184	0.000	0.000	0.000	0.000	0.000
0.690										
ENE	0.000	0.000	0.046	0.092	0.000	0.000	0.000	0.000	0.000	0.000
0.138										
E	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.092										
ESW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.046										
SE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.046										
SSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000										
S	0.000	0.000	0.000	0.138	0.092	0.000	0.000	0.000	0.000	0.000
0.230										
SSW	0.000	0.000	0.092	0.552	0.046	0.092	0.000	0.000	0.000	0.000
0.782										
SW	0.000	0.000	0.092	0.368	0.092	0.046	0.000	0.000	0.000	0.000
0.594										
WSW	0.000	0.000	0.092	0.092	0.000	0.046	0.000	0.000	0.000	0.000
0.230										
W	0.000	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.000	0.000
0.092										
NNW	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000
0.046										
NW	0.000	0.000	0.046	0.046	0.000	0.046	0.000	0.000	0.000	0.000
0.138										
NNW	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000
0.046										
SUBTOTAL	0.000	0.000	0.782	2.207	1.333	0.552	0.000	0.000	0.000	0.000
4.874										

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2174
TOTAL HOURS OF STABILITY CLASS C	104
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	106
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2175
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/02/13

MEAN WIND SPEED = 5.08

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 &lt; DELTA T &lt;= -0.5 C/100 M)

Sequoah Nuclear Plant

OCT 1, 2005 - DEC 31, 2005

WIND DIRECTION TOTAL	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)					>=24.5
				3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	
N	0.000	0.000	0.828	1.241	1.931	0.414	0.000	0.000	0.000
4.414									
NNE	0.000	0.046	1.103	2.069	2.621	0.736	0.000	0.000	0.000
6.575									
NE	0.000	0.000	0.552	0.368	0.644	0.138	0.000	0.000	0.000
1.701									
ENE	0.000	0.000	0.138	0.046	0.000	0.000	0.000	0.000	0.000
0.184									
E	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.092									
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SE	0.000	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.000
0.092									
SSE	0.000	0.000	0.092	0.092	0.000	0.000	0.000	0.000	0.000
0.184									
S	0.000	0.000	0.414	0.460	0.506	0.460	0.276	0.000	0.000
2.115									
SSW	0.000	0.092	0.966	2.115	0.644	0.092	0.000	0.000	0.000
3.908									
SW	0.000	0.000	1.057	0.874	0.276	0.138	0.000	0.000	0.000
2.345									
WSW	0.000	0.000	0.552	0.184	0.138	0.092	0.000	0.000	0.000
0.966									
W	0.000	0.134	0.322	0.092	0.184	0.276	0.000	0.000	0.000
1.011									
NNW	0.000	0.000	0.368	0.368	0.460	0.138	0.000	0.000	0.000
1.333									
NW	0.000	0.046	0.368	0.874	0.460	0.594	0.000	0.000	0.000
2.345									
NNW	0.000	0.000	0.322	0.690	0.874	0.230	0.000	0.000	0.000
2.115									
SUBTOTAL	0.000	0.368	7.214	9.471	8.736	3.310	0.276	0.000	0.000
29.379									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS D	639
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	639
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2175
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/02/13

MEAN WIND SPEED = 5.04

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

## JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 &lt; DELTA T &lt;= 1.5 C/100 M)

Sequoah Nuclear Plant

OCT 1, 2005 - DEC 31, 2005

WIND DIRECTION TOTAL	CALM	0.6-1.4	1.5-3.4	WIND SPEED (MPH)					>=21.5
				3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	
N 6.943	0.000	0.414	3.908	1.793	0.782	0.046	0.000	0.000	0.000
NNE 7.356	0.000	0.230	4.414	2.345	0.368	0.000	0.000	0.000	0.000
NE 1.057	0.000	0.138	0.690	0.184	0.046	0.000	0.000	0.000	0.000
ENE 0.276	0.000	0.138	0.138	0.000	0.000	0.000	0.000	0.000	0.000
E 0.138	0.000	0.046	0.092	0.000	0.000	0.000	0.000	0.000	0.000
ESE 0.230	0.000	0.046	0.184	0.000	0.000	0.000	0.000	0.000	0.000
SE 0.184	0.000	0.046	0.138	0.000	0.000	0.000	0.000	0.000	0.000
SSE 0.690	0.000	0.184	0.276	0.184	0.046	0.000	0.000	0.000	0.000
S 3.310	0.000	0.230	1.655	0.644	0.552	0.184	0.046	0.000	0.000
SSW 4.276	0.000	0.184	2.621	1.103	0.368	0.000	0.000	0.000	0.000
SW 4.594	0.000	0.138	2.529	1.195	0.594	0.138	0.000	0.000	0.000
WSW 1.563	0.000	0.046	0.874	0.414	0.184	0.046	0.000	0.000	0.000
W 1.011	0.000	0.184	0.364	0.322	0.092	0.046	0.000	0.000	0.000
WNW 0.874	0.000	0.046	0.230	0.506	0.046	0.046	0.000	0.000	0.000
NW 1.379	0.000	0.046	0.552	0.414	0.276	0.092	0.000	0.000	0.000
NNW 3.448	0.000	0.230	1.379	1.103	0.644	0.092	0.000	0.000	0.000
SUBTOTAL 37.333	0.000	2.345	20.046	10.207	4.000	0.690	0.046	0.000	0.000

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS E	813
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	812
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2175
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/02/13  
 MEAN WIND SPEED = 3.39

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR  
STABILITY CLASS F      ( 1.5 < DELTA T <= 4.0 C/100 M )

Sequoia Nuclear Plant

OCT 1, 2005 - DEC 31, 2005

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)							
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.184	3.356	0.414	0.046	0.000	0.000	0.000	0.000
4.000									
NNE	0.000	0.414	5.609	0.092	0.000	0.000	0.000	0.000	0.000
6.115									
NE	0.000	0.736	0.598	0.000	0.000	0.000	0.000	0.000	0.000
1.333									
ENE	0.000	0.414	0.092	0.000	0.000	0.000	0.000	0.000	0.000
0.506									
E	0.000	0.138	0.092	0.000	0.000	0.000	0.000	0.000	0.000
0.230									
ESE	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.092									
SE	0.000	0.230	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.230									
SSE	0.000	0.184	0.092	0.000	0.000	0.000	0.000	0.000	0.000
0.276									
S	0.000	0.092	0.460	0.000	0.000	0.000	0.000	0.000	0.000
0.552									
SSW	0.000	0.046	1.103	0.000	0.000	0.000	0.000	0.000	0.000
1.149									
SW	0.000	0.092	0.782	0.000	0.000	0.000	0.000	0.000	0.000
0.874									
WSW	0.000	0.046	0.364	0.000	0.000	0.000	0.000	0.000	0.000
0.414									
W	0.000	0.092	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.134									
WNW	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.092									
NW	0.000	0.000	0.092	0.032	0.046	0.000	0.000	0.000	0.000
0.230									
NNW	0.000	0.092	0.598	0.138	0.000	0.046	0.000	0.000	0.000
0.874									
SUBTOTAL	0.000	2.897	13.333	0.736	0.092	0.046	0.000	0.000	0.000
17.103									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS F	372
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	372
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2175
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoia Nuclear Plant  
STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/02/13

MEAN WIND SPEED = 2.18

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR  
STABILITY CLASS G      (DELTA T > 4.0 C/100 M)

Sequoia Nuclear Plant

OCT 1, 2005 - DEC 31, 2005

WIND DIRECTION TOTAL	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)					>=24.5
				3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	
N	0.000	0.000	0.092	0.046	0.000	0.000	0.000	0.000	0.000
0.138									
NNE	0.000	0.092	0.506	0.000	0.000	0.000	0.000	0.000	0.000
0.598									
NE	0.000	0.184	0.092	0.000	0.000	0.000	0.000	0.000	0.000
0.276									
ENE	0.000	0.138	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.138									
E	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.046									
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SE	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.046									
SSE	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.046									
S	0.000	0.092	0.230	0.000	0.000	0.000	0.000	0.000	0.000
0.322									
SSW	0.000	0.046	0.552	0.000	0.000	0.000	0.000	0.000	0.000
0.598									
SW	0.000	0.046	0.276	0.134	0.000	0.000	0.000	0.000	0.000
0.460									
WSW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.046									
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
NW	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.046									
NNW	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.000	0.000
0.092									
SUBTOTAL	0.000	0.690	1.845	0.276	0.000	0.000	0.000	0.000	0.000
2.851									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2174
TOTAL HOURS OF STABILITY CLASS G	62
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	62
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2175
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoia Nuclear Plant  
STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/02/13  
MEAN WIND SPEED = 2.16

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Attachment 2.0

Deviations from ODCM Controls/Surveillance Requirements

Date	ODCM Requirements	Description of Deviation
June 29, 2005	1/2 1.1.1 Table 1.1-1 Item 3.d Action 33.	Engineering notified Operations that with water flowing over Gate Structure #1 weir the required 15,000gpm dilution flow may not be available even though plant compliance instrument 0-LS-27-225 indicates >15,000 gpm. PM 058610000 for cleaning the blowdown strainer was revised and placed on 48 week frequency. EWR 06-BOP-027-012 was issued.
Dec. 20, 2005	1.1.2 Table 1.1-2 Item 4.b and c. Action 44	Radiation Monitor 0-RM-90-101 (Auxiliary Building Stack) was removed from service to perform an IFT. Chemistry did not install back-up sampler within the required 4 hour time. PER 94285.

Attachment 3.0

Radiation Monitors Inoperable for Greater than 30 days

None

Compliance Instruments Inoperable for grater than 30 days

0-LS-27-225 (Cooling Tower Blowdown Effluent Line) PER 85280.

**ENCLOSURE 3**

**OFFSITE DOSE CALCULATION MANUAL  
REVISION 48**

**SEQUOYAH NUCLEAR PLANT**