Tennessee Valley Authority, Post Office Box 2000, Soddy-Daisy, Tennessee 37384-2000

April 28, 2008

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

10 CFR 72.44

Gentlemen:

In the Matter of	)	Docket Nos. 50-327
Tennessee Valley Authority (TVA)	)	50-328
		72-034

SEQUOYAH NUCLEAR PLANT (SQN) - 2007 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT (ARERR)

Enclosed is the ARERR for the period of January 1 to December 31, 2007. This report (Enclosure 1) is being submitted in accordance with SQN Technical Specification (TS) 6.9.1.8 and 10 CFR 72.44(d)(3).

The Offsite Dose Calculation Manual requires that a Radiological Impact Assessment be submitted for the same reporting period. The assessment is included as Enclosure 2. In addition, in accordance with TS 6.14.1.3, a complete copy of the Offsite Dose Calculation Manual (Enclosure 3) is submitted with marked revisions implemented during calendar year 2007.

Please direct questions concerning this issue to me at (423) 843-7170 or Russell R. Thompson at (423) 843-6672.

Sincerely,

James D. Smith
Manager, Site Licensing and
Industry Affairs

Enclosures
cc: See page 2

IE48
IE17
NRR

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ENCLOSURE 1

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

SEQUOYAH NUCLEAR PLANT

2007

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
2007

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 (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 (μCi/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 μCi/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.

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.

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.

A total of eight shallow on site wells were sampled on a regular schedule during the year to monitor for tritium in on site ground water. Six of the wells are equipped with automatic composite samplers. Detectable levels of tritium have been measured in three of these shallow wells. The highest tritium concentration was approximately 1,500 pCi/L. Two additional shallow on site wells were monitored on a regular schedule by grab sampling. The highest concentration measured in samples from these wells was 17,070 pCi/L. No other radionuclides have been detected in samples from these monitoring locations. A rigorous sampling and ground water hydrology investigation has been initiated to identify the source of the tritium. The tritium is confined to shallow on site ground water and does not represent a potential for contamination of off site ground water systems.

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V. BATCH	Value 1st Half	Value 2nd Half	Units
A. Liquid (Radwaste only)			
1. Number of releases	64	99	Each
2. Total time period of releases	14205.95	21305.00	Minutes
3. Maximum time period of release	1439.98	1850.00	Minutes
4. Average time period of releases	221.97	215.20	Minutes
5. Minimum time period for release	30.00	18.00	Minutes
6. Average dilution stream flow during release periods	18151.0	13786.5	CFS
B. Gaseous (Batches only, containment purges, containment vents, and waste decay tanks)			
1. Number of releases	81	109	Each
2. Total time period of releases	49352.0	66865.0	Minutes
3. Maximum time period for release	4200.0	5237.0	Minutes
4. Average time period for releases	609.28	613.44	Minutes
5. Minimum time period for release	150	78.0	Minutes

VI. ABNORMAL RELEASES	Value 1st Half	Value 2nd Half	Units
A. Liquid			
Number of Releases	0	4	
Total Activity Released	0.00E-01	3.80E-04	Ci
B. Gaseous			
Number of Releases	0	1	
Total Activity Released	0.00E-01	1.16E-04	Ci

The CILRT containment release is intended to be an un-monitored release with three release pathways: one each through the Aux Bldg. and the Shield Bldg. and one through an unmonitored path to the SQN environs. For conservatism, the pressurized containment volume is modeled to be released through the un-monitored pathway at the total release rate. This will provide the maximum calculated dose.
Pre -release samples were collected and analyzed with the following results:
1. Tritium 3.43E-09 µCi/ml
2. Noble Gas no observed activity
3. Particulate no observed activity
4. Iodine no observed activity

A pre-release permit was generated using the full containment volume of 1.1922E6 CF and a flow rate of 2.0E4 CFM. The pre-release permit was processed to the OPEN status and no limits were exceeded.

Post release samples were collected and analyzed with the following results:
1. Tritium 7.665E-10 µCi/ml
2. Noble Gas no observed activity
3. Particulate no observed activity
4. Iodine no observed activity

The post-release permit was generated using the larger of the pre vs post analyses to demonstrate no limits were exceeded.
Start Date/Time of Release 7/11/07 1704
One hundred and sixty-five gallons from the U1 RWST moat was spilled. The isotopic mixture and concentrations of the water contained Cobalt-58 2.93E-07 µCi/ml, Cobalt-60 2.84E-07 µCi/ml Cesium-137 6.83E-08 µCi/ml and Tritium 5.99 E-04 µCi/ml. The resulting curies released were: Cobalt-58 1.83S-07 Ci, Cobalt 60 1.78 E-07 Ci, Cesium-137 4.27E-08 Ci and Tritium 3.74E-04 Ci. The resulting total body dose was 3.64E-08 mrem. The spill was to the ground.

Start Date/Time of Release 7/28/07 0720
Five and one half gallons from the U1 RWST moat was spilled. The isotopic mixture and concentrations of the water contained Cobalt-58 1.29E-07 µCi/ml, Cobalt-60 2.09E-07 µCi/ml Cesium-137 2.75E-07 µCi/ml and Tritium 1.66 E-04 µCi/ml. The resulting curies released were: Cobalt-58 2.68S-09 Ci, Cobalt 60 4.35 E-09 Ci, Cesium-137 5.72E-09 Ci and Tritium 3.45E-06 Ci. The resulting total body dose was 1.66E-09 mrem. The spill was to the ground.

Start Date/Time of Release 9/14/07 1500
Two gallons from the U1 RWST moat was spilled. The isotopic mixture and concentrations of the water contained Cobalt-58 1.26E-07 µCi/ml and Tritium 2.69 E-05 µCi/ml. The resulting curies released were: Cobalt-58 9.57S-09 Ci, and Tritium 2.04E-06 Ci. The resulting total body dose was 7.76E-11 mrem. The spill was to the ground.

Start Date/Time of Release 10/23/07 1412
Five gallons from the U1 RWST moat was spilled. The isotopic mixture and concentrations of the water contained Cobalt-58 1.95E-07 µCi/ml, and Tritium 2.59 E-05 µCi/ml. The resulting curies released were: Cobalt-58 3.69S-09 Ci, and Tritium 4.91E-07 Ci. The resulting total body dose was 2.26E-11 mrem. The spill was to the ground.

A pre-release permit was generated using the full containment volume of 1.1922E6 CF and a flow rate of 2.0E4 CFM. The pre-release permit was processed to the OPEN status and no limits were exceeded.

Post release samples were collected and analyzed with the following results:
1. Tritium 7.665E-10 µCi/ml
2. Noble Gas no observed activity
3. Particulate no observed activity
4. Iodine no observed activity

The post-release permit was generated using the larger of the pre vs post analyses to demonstrate no limits were exceeded.
Start Date/Time of Release 7/11/07 1704
One hundred and sixty-five gallons from the U1 RWST moat was spilled. The isotopic mixture and concentrations of the water contained Cobalt-58 2.93E-07 µCi/ml, Cobalt-60 2.84E-07 µCi/ml Cesium-137 6.83E-08 µCi/ml and Tritium 5.99 E-04 µCi/ml. The resulting curies released were: Cobalt-58 1.83S-07 Ci, Cobalt 60 1.78 E-07 Ci, Cesium-137 4.27E-08 Ci and Tritium 3.74E-04 Ci. The resulting total body dose was 3.64E-08 mrem. The spill was to the ground.

Start Date/Time of Release 7/28/07 0720
Five and one half gallons from the U1 RWST moat was spilled. The isotopic mixture and concentrations of the water contained Cobalt-58 1.29E-07 µCi/ml, Cobalt-60 2.09E-07 µCi/ml Cesium-137 2.75E-07 µCi/ml and Tritium 1.66 E-04 µCi/ml. The resulting curies released were: Cobalt-58 2.68S-09 Ci, Cobalt 60 4.35 E-09 Ci, Cesium-137 5.72E-09 Ci and Tritium 3.45E-06 Ci. The resulting total body dose was 1.66E-09 mrem. The spill was to the ground.

Start Date/Time of Release 9/14/07 1500
Two gallons from the U1 RWST moat was spilled. The isotopic mixture and concentrations of the water contained Cobalt-58 1.26E-07 µCi/ml and Tritium 2.69 E-05 µCi/ml. The resulting curies released were: Cobalt-58 9.57S-09 Ci, and
Tritium 2.04E-06 Ci. The resulting total body dose was 7.76E-11 mrem. The spill was to the ground.

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Tritium 2.59 E-05 µCi/ml. The resulting curies released were: Cobalt-58 3.69S-09 Ci, and Tritium 4.91E-07 Ci. The resulting total body dose was 2.26E-11 mrem. The spill was to the ground.

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LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

	Fission and Activation Products	Unit	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	%Error
A.	1. Total Released	Curies	1.42E-02	2.86E-02	3.07E-02	4.95E-02	18%
	2. Average diluted concentration during period	µCi/ml	8.51E-09	1.63E-08	1.68E-08	2.42E-08	
	3. Percent of Applicable Limit	%	*	*	*	*	
B.	Tritium						
	1. Total Released	Curies	9.00E+01	5.85E+02	8.71E+02	3.26E+02	18%
	2. Average diluted concentration during period	µCi/ml	5.40E-04	3.34E-04	4.77E-04	1.59E-04	
	3. Percent of Applicable Limit	%	*	*	*	*	
C.	Dissolved and Entrained Gases						
	1. Total Released	Curies	7.36E-04	1.33E-02	1.20E-01	1.59E-02	39%
	2. Average diluted concentration during period	µCi/ml	4.41E-10	7.59E-09	6.58E-08	7.76E-09	
	3. Percent of Applicable Limit	%	2.21E-04	3.60E-03	3.29E-02	3.88E-03	
D.	Gross Alpha Radioactivity						
	1. Total Released	Curies	0.00E-01	0.00E-01	0.00E-01	0.00E-01	
E.	Volume of Waste Released	Liters	6.087E+07	5.436E+07	4.516E+07	2.222E+08	4%
F.	Volume of Dilution Water for Period	Liters	1.607E+09	1.698E+09	1.779E+09	1.826E+09	4%
G.	Radwaste Volume Released	Liters	7.12E+08	1.09E+09	2.09E+09	1.83E+09	

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

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LIQUID EFFLUENTS - TOTAL PLANT DISCHARGE

Nuclide Summary (Note: Refer to Table A for ODCM nuclides reported as 0.00E-01)
Required by ODCM/Others
Fission and Activation Products

Nuclide	Unit	Continuous Mode		Batch Mode	
		Quarter 1st	Quarter 2nd	Quarter 1st	Quarter 2nd
1. Silver-110M	Ci	0.00E-01	0.00E-01	1.05E-04	1.42E-05
2. Cobalt-57	Ci	0.00E-01	0.00E-01	1.11E-04	3.70E-04
3. Cobalt-58	Ci	0.00E-01	0.00E-01	7.93E-03	1.11E-02
4. Cobalt-60	Ci	0.00E-01	0.00E-01	1.70E-03	5.54E-03
5. Chromium-51	Ci	0.00E-01	0.00E-01	9.25E-05	0.00E-01
6. Cesium-134	Ci	0.00E-01	0.00E-01	1.14E-04	2.30E-03
7. Cesium-137	Ci	0.00E-01	0.00E-01	2.34E-04	4.34E-03
8. Iron-55	Ci	0.00E-01	0.00E-01	2.86E-03	3.70E-03
9. Iron-59	Ci	0.00E-01	0.00E-01	6.81E-05	0.00E-01
10. Manganese-54	Ci	0.00E-01	0.00E-01	3.99E-05	9.51E-05
11. Niobium-95	Ci	0.00E-01	0.00E-01	2.07E-05	1.09E-05
12. Antimony-124	Ci	0.00E-01	0.00E-01	9.89E-05	1.12E-05
13. Antimony-125	Ci	0.00E-01	0.00E-01	8.33E-04	9.77E-04
14. Zinc-65	Ci	0.00E-01	0.00E-01	2.14E-05	8.07E-05
Total for Period	Ci	0.00E-01	0.00E-01	1.42E-02	2.86E-02

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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

Nuclide	Unit	Continuous Mode Quarter 1st	Continuous Mode Quarter 2nd	Batch Mode Quarter 1st	Batch Mode Quarter 2nd
Tritium					
H-3	Ci	1.51E-01	1.66E-01	8.98E+01	5.85E+02
Dissolved and Entrained Noble Gases					
1. Xenon-133	Ci	0.00E-01	0.00E-01	7.36E-04	1.29E-02
2. Xenon-133M	Ci	0.00E-01	0.00E-01	0.00E-01	2.07E-04
3. Xenon-135	Ci	0.00E-01	0.00E-01	0.00E-01	1.99E-04
Total for Period	Ci	0.00E-01	0.00E-01	7.36E-04	1.33E-02

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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

Nuclide	Unit	Continuous Mode Quarter 3rd	Continuous Mode Quarter 4th	Batch Mode Quarter 3rd	Batch Mode Quarter 4th
1. Silver-110M	Ci	0.00E-01	0.00E-01	0.00E-01	4.11E-05
2. Cobalt-57	Ci	0.00E-01	0.00E-01	3.29E-04	1.94E-04
3. Cobalt-58	Ci	0.00E-01	0.00E-01	1.30E-02	1.97E-02
4. Cobalt-60	Ci	0.00E-01	0.00E-01	8.18E-03	7.64E-03
5. Chromium-51	Ci	0.00E-01	0.00E-01	1.51E-03	3.13E-03
6. Cesium-134	Ci	0.00E-01	0.00E-01	2.23E-04	2.36E-06
7. Cesium-137	Ci	0.00E-01	0.00E-01	4.80E-04	6.56E-05
8. Iron-55	Ci	0.00E-01	0.00E-01	2.57E-03	1.04E-02
9. Iron-59	Ci	0.00E-01	0.00E-01	0.00E-01	9.74E-05
10. Iodine-131	Ci	0.00E-01	0.00E-01	1.49E-04	4.25E-04
11. Iodine-132	Ci	0.00E-01	0.00E-01	0.00E-01	8.70E-05
12. Lanthanum-140	Ci	0.00E-01	0.00E-01	2.61E-05	4.37E-05
13. Manganese-54	Ci	0.00E-01	0.00E-01	4.31E-04	5.79E-04
14. Sodium-24	Ci	0.00E-01	0.00E-01	1.21E-07	0.00E-01
15. Niobium-95	Ci	0.00E-01	0.00E-01	3.62E-04	6.02E-04
16. Rubidium-88	Ci	0.00E-01	0.00E-01	9.02E-04	0.00E-01
17. Ruthenium-103	Ci	0.00E-01	0.00E-01	0.00E-01	1.88E-05
18. Antimony-124	Ci	0.00E-01	0.00E-01	5.86E-04	4.15E-04
19. Antimony-125	Ci	0.00E-1	0.00E-01	1.68E-03	4.61E-04
20. Tin-113	Ci	0.00E-01	0.00E-01	0.00E-01	2.34E-05
21. Technetium-99M	Ci	0.00E-01	0.00E-01	4.14E-05	6.26E-06
22. Tellurium-132	Ci	0.00E-01	0.00E-01	0.00E-01	2.34E-05
23. Zinc-65	Ci	0.00E-01	0.00E-01	6.78E-06	1.70E-05
24. Zirconium-95	Ci	0.00E-01	0.00E-01	1.93E-04	2.39E-04
Total for Period	Ci	0.00E-01	0.00E-01	3.07E-02	4.95E-02

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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

Nuclide	Unit	Continuous Mode		Batch Mode	
		Quarter 3rd	Quarter 4th	Quarter 3rd	Quarter 4th
H-3	Ci	1.34E-01	6.28E-01	8.71E+02	3.25E+02
Dissolved and Entrained Noble Gases					
1. Argon-41	Ci	0.00E-01	0.00E-01	3.15E-04	2.54E-04
2. Krypton-85M	Ci	0.00E-01	0.00E-01	2.32E-04	0.00E-01
3. Krypton-87	Ci	0.00E-01	0.00E-01	1.99E-05	0.00E-01
4. Krypton-88	Ci	0.00E-01	0.00E-01	1.64E-04	0.00E-01
5 Xenon-133	Ci	0.00E-01	0.00E-01	1.02E-01	1.51E-02
6. Xenon-133M	Ci	0.00E-01	0.00E-01	2.22E-03	2.33E-04
7. Xenon-135	Ci	0.00E-01	0.00E-01	1.51E-02	3.10E-04
Total for Period	Ci	0.00E-01	0.00E-01	1.20E-01	1.59E-02

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TABLE A
LIQUID "TYPICAL LLD" EVALUATION[1]

		Δt[2]		
Nuclide	ODCM LLD	1 hr	8 hr	32 hr
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)

Nuclide	ODCM LLD	Typical LLD
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 μCi/ml.
(2) Δt is the time between sample collection and counting time.
(3) T ½ too short.

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
2007

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

Summation of All Releases	Unit	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	%Error
A. Noble Gases						
1. Total Released	Ci	6.33E+00	4.42E+00	8.57E+00	1.36E+01	11%
2. Average Release Rate of Period	µCi/sec	8.14E-01	5.63E-01	1.08E+00	1.71E+00	
3. Percent of Limit	%	*	*	*	*	
Applicable Limit						
B. Iodines						
1. Total Iodine-131	Ci	0.00E-01	6.42E-06	2.90E-05	6.25E-05	13%
2. Average Release Rate for Period	µCi/sec	0.00E-01	8.16E-07	3.65E-06	7.87E-06	
3. Percent of Limit	%	*	*	*	*	
C. Particulates						
1. Particulates with half-lives >8 days	Ci	6.28E-07	2.84E-05	0.00E-01	2.79E-06	16%
2. Average Release Rate for Period	µCi/sec	8.08E-08	3.62E-06	0.00E-01	3.51E-07	
3. Percent of Limit	%	*	*	*	*	
4. Gross Alpha Radio-activity	Ci	0.00E-01	0.00E-01	0.00E-01	0.00E-01	
D. Tritium						
1. Total Release	Ci	4.41E+01	2.50E+01	3.30E+01	2.91E+01	15%
2. Average Release Rate for Period	µCi/sec	5.68E+00	3.18E+00	4.15E+00	3.66E+00	
3. Percent of Limit	%	*	*	*	*	

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

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
2007

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

1. Noble Gases

Required by ODCM/Others

	Nuclide	Unit	Continuous Mode Quarter 1st	Continuous Mode Quarter 2nd	Batch Mode Quarter 1st	Batch Mode Quarter 2nd
1.	Krypton-88	Ci	0.00E-01	0.00E-01	5.50E-04	0.00E-01
2.	Krypton-85M	Ci	0.00E-01	0.00E-01	4.06E-03	3.45E-03
3.	Xenon-133M	Ci	0.00E-01	0.00E-01	2.96E-02	2.72E-02
4.	Xenon-135	Ci	0.00E-01	0.00E-01	1.70E-01	1.13E-01
5.	Xenon-133	Ci	0.00E-01	0.00E-01	3.03E+00	2.16E+00
6.	Argon-41	Ci	0.00E-01	0.00E-01	3.09E+00	2.12E+00
	Total for Period	Ci	0.00E+00	0.00E+00	6.33E+00	4.42E+00
2.	Iodines					
	Iodine-133	Ci	0.00E-01	1.10E-06	0.00E-01	0.00E-01
	Iodine-131	Ci	0.00E-01	6.42E-06	0.00E-01	0.00E-01
	Total for Period	Ci	0.00E-01	7.52E-06	0.00E-01	0.00E-01
3.	Particulates					
1.	Niobium-95	Ci	0.00E-01	3.82E-06	0.00E-01	0.00E-01
2.	Cobalt-58	Ci	6.28E-07	9.69E-06	0.00E-01	0.00E-01
3.	Cobalt-60	Ci	0.00E-01	1.49E-05	0.00E-01	0.00E-01
4.	Bromine-82	Ci	9.39E-06	0.00E-01	0.00E-01	0.00E-01
	Total for Period	Ci	1.00E-05	2.84E-05	0.00E-01	0.00E-01
4.	Tritium	Ci	4.25E+01	2.30E+01	1.62E+00	2.01E+00
Total for Period		Ci	4.25E+01	2.30E+01	1.62E+00	2.01E+00

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

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
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GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES
(GROUND LEVEL RELEASES)

Nuclide	Unit	Continuous Mode Quarter 3rd	Continuous Mode Quarter 4th	Batch Mode Quarter 3rd	Batch Mode Quarter 4th
1. Noble Gases					
Required by ODCM/Others					
1. Xenon-133M	Ci	0.00E-01	0.00E-01	9.94E-02	0.00E-01
2. Krypton-85M	Ci	0.00E-01	0.00E-01	1.47E-02	0.00E-01
3. Xenon-135	Ci	0.00E-01	0.00E-01	5.05E-01	1.72E-01
4. Xenon-133	Ci	0.00E-01	0.00E-01	4.97E+00	7.89E+00
5. Argon-41	Ci	0.00E-01	0.00E-01	2.98E+00	5.54E+00
Total for Period	Ci	0.00E-01	0.00E-01	8.57E+00	1.36E+01
2. Iodines					
1. Iodine-131	Ci	2.90E-05	6.25E-05	0.00E-01	0.00E-01
2. Iodine-133	Ci	4.27E-04	1.03E-04	0.00E-01	0.00E-01
Total for Period	Ci	4.56E-04	1.65E-04	0.00E-01	0.00E-01
3. Particulates					
1. Cobalt-58	Ci	0.00E-01	2.79E-06	0.00E-01	0.00E-01
2 Bromine-82		1.58E-05	0.00E-01	0.00E-01	0.00E-01
Total for Period	Ci	1.58E-05	2.79E-06	0.00E-01	0.00E-01
4. Tritium	Ci	2.98E+01	2.41E+01	3.12E+00	4.94E+00
Total for Period	Ci	2.98E+01	2.41E+01	3.12E+00	4.94E+00

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

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
2007

TABLE B
GASEOUS "TYPICAL" LLD EVALUATION[1]

Noble Gas

		Δt[2]	
Nuclide	ODCM LLD	1 hr	1.5 hr
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

Particulate Sample[3]		1 hr	24 hr	7.0 da
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

(1) LLD values are in μCi/ml.
(2) Δt is the time between sample collection and counting time.
(3) LLD based on sample time + 30 min. sample to analysis.

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
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TABLE B
GASEOUS "TYPICAL" LLD EVALUATION[1]

Nuclide	ODCM LLD	Typical LLD
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

NOTE: (1) LLD values are in μCi/cc.

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
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SOLID WASTE (RADIOACTIVE SHIPMENTS)

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

1. Type of Waste	Unit	12 Month Period	Est. Tot. Error %
a. Spent Resins, Filter Sludges, Evaporator Bottoms, etc.	m^3	8.98E+00	±5.00E-02
	Ci	2.09E+02	±1.00E+00
b. Dry Active Waste, Compressible Waste Contaminated Equipment, etc.	m^3	1.45E+02	±1.00E+00
	Ci	7.55E-01	±5.00E-03
c. Irradiated Components, Control Rods, etc.	m^3	None	N/A
	Ci	None	N/A
d. Other: Mechanical Filters	m^3	None	N/A
	Ci	None	N/A

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

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

	Curies	Percent
1. Hydrogen-3	2.11E-02	0.01
2. Carbon-14	1.87E-01	0.09
3. Beryllium-7	6.61E-01	0.32
4. Chromium-51	1.34E-01	0.06
5. Manganese-54	6.99E+00	3.35
6. Iron-55	1.05E+01	5.05
7. Cobalt-57	9.65E-01	0.46
8. Cobalt-58	2.24E+01	10.72
9. Iron-59	2.68E-02	0.01
10. Nickel-59	8.07E-01	0.39
11. Cobalt-60	7.19E+01	34.41
12. Nickel-63	8.22E+01	39.36
13 Zinc-65	6.56E-01	0.31
14. Strontium-89	7.13E-03	0.00
15. Strontium-90	3.50E-02	0.02
16. Zirconium-95	1.22E-01	0.06
17 Niobium-95	1.30E-01	0.06
18. Technetium-99	6.04E-02	0.03
19. Silver-110m	1.52E-01	0.07
20. Tin-113	7.45E-03	0.00
21. Antimony-125	3.68E-01	0.18
22. Cesium-134	2.69E+00	1.29
23. Cesium-137	7.55E+00	3.62
24. Cerium-144	1.97E-01	0.09
25. Plutonium-238	2.09E-04	0.00

26.	Plutonium-239/240	1.96E-04	0.00
27.	Plutonium-241	7.04E-02	0.03
28.	Americium-241	1.90E-04	0.00
29.	Curium-242	4.91E-05	0.00
30.	Curium-243/244	6.94E-04	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)

		Curies	Percent
1.	Hydrogen-3	5.52E-03	0.73
2.	Carbon-14	1.46E-04	0.02
3.	Chromium-51	8.30E-02	10.98
4.	Manganese-54	1.50E-02	1.98
5.	Iron-55	1.12E-01	14.79
6.	Cobalt-57	1.00E-03	0.13
7.	Cobalt-58	2.70E-01	35.75
8.	Iron-59	5.92E-03	0.78
9.	Cobalt-60	1.25E-01	16.57
10.	Nickel-63	6.83E-02	9.03
11.	Zinc-65	1.32E-03	0.18
12.	Strontium-89	1.49E-03	0.20
13.	Strontium-90	3.49E-04	0.05
14.	Zirconium-95	1.65E-02	2.19
15.	Niobium-95	4.25E-02	5.62
16.	Silver-110m	7.03E-04	0.09
17.	Tin-113	3.64E-04	0.05
18.	Antimony-125	1.50E-03	0.20
19.	Cesium-134	1.46E-04	0.02
20.	Cesium-137	2.62E-03	0.35
21.	Cerium-144	1.85E-03	0.25
22.	Plutonium-238	3.42E-05	0.01
23.	Plutonium-239/240	3.64E-05	0.01
24.	Plutonium-241	3.13E-04	0.04
25.	Americium-241	4.05E-05	0.01
26.	Curium-243/244	4.66E-05	0.01

c. Irradiated Components	Curies	Percent
None	N/A	N/A

d. Other: Mechanical Filters	Curies	Percent
None	N/A	N/A

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
2007

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
1	A-LSA II	Motor Freight	Duratek Processing Facility Barnwell, SC
1	Type B	Motor Freight	Duratek Processing Facility Barnwell, SC
1	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
32*	A-LSA II	Motor Freight	Envirocare near Clive, Utah

*32 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

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

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 July13, 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-Purpose 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 2007

RADIOLOGICAL IMPACT ASSESSMENT REPORT

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 12.25 mR/quarter at onsite (at or near the site boundary) stations and approximately 11.25 mR/quarter at offsite stations, or approximately 1.0 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 67 mrem. Using this value, and subtracting an annual background value of 49 mrem/year, and multiplying by the ratio of the occupancy times, the external dose was 4.11 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
External				
Gamma Air	4.23E-03 mrad	5 mrad	<1	N/950
Beta Air	1.98E-03 mrad	10 mrad	<1	N/950
Submersion				
Total Body	2.42E-03 mrad	10 mrad	<1	N/1295
Skin	3.66E-03 mrad	10 mrad	<1	N1295
Organ Doses				
Child/Thyroid	1.92E-02mrem	7.5 mrem	<1	N/1829
Child/Total Body	1.92E-02 mrem	7.5 mrem	<1	N/1829

Population Doses

Total Body Dose 1.79E-01 man-rem

Maximum Organ Dose (organ) 1.79E-01 man-rem (Thyroid, Liver, Bone, GIT, 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/year for natural background).

Table 2
Doses from Airborne Effluents
Second Quarter

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location Sector/Distance
External				
Gamma Air	3.56E-03 mrad	5 mrad	<1	N/950
Beta Air	1.69E-03 mrad	10 mrad	<1	N/950
Submersion				
Total Body	2.13E-03 mrad	10 mrad	<1	N/1295
Skin	3.19E-03 mrad	10 mrad	<1	N/1295
Organ Doses				
Child/Thyroid	1.38E-02mrem	7.5 mrem	<1	N/1829
Child/Total Body	1.38E-02 mrem	7.5 mrem	<1	N/1829

Population Doses

Total Body Dose 1.25E-01 man-rem

Maximum Organ Dose (organ) 1.25E-01 man-rem (Thyroid, Liver, Bone, GIT, 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/year 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	5.25E-03 mrad	5 mrad	<1	N/950
Beta Air	2.95E-03 mrad	10 mrad	<1	N/950
Submersion				
Total Body	3.37E-03 mrad	10 mrad	<1	NNW/841
Skin	5.24E-03 mrad	10 mrad	<1	NNW/841
Organ Doses				
Child/Thyroid	2.29E-02mrem	7.5 mrem	<1	S/2093
Child/Total Body	2.25E-02 mrem	7.5 mrem	<1	S/2093

Population Doses

Total Body Dose 1.48E-01 man-rem

Maximum Organ Dose (organ) 1.51E-01 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/year for natural background).

Table 4
Doses from Airborne Effluents
Fourth Quarter

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location Sector/Distance
External				
Gamma Air	8.06E-03 mrad	5 mrad	<1	SSW/1840
Beta Air	4.24E-03 mrad	10 mrad	<1	SSW/1840
Submersion				
Total Body	5.95E-03 mrad	10 mrad	<1	SSW/2134
Skin	9.10E-03mrad	10 mrad	<1	SSW/2134
Organ Doses				
Child/Thyroid	1.81E-02 mrem	7.5 mrem	<1	S/2093
Child/Total Body	1.76E-02 mrem	7.5 mrem	<1	S/2093

Population Doses

Total Body Dose 1.60E-01 man-rem

Maximum Organ Dose (organ) 1.64E-01 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/year 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	8.20E-04	1.5 mrem	< 1 %
Child	Liver	9.20E-04	5 mrem	< 1 %
Child	Thyroid	7.90E-04	5 mrem	< 1 %

Average Riverflow past SQN (cubic feet per second): 24,204

Population Doses

Total Body Dose 5.00E-02 man-rem

Maximum Organ Dose (organ) 5.10E-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/year 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	1.10E-02	1.5 mrem	< 1 %
Child	Liver	1.50E-02	5 mrem	< 1 %
Child	Thyroid	1.00E-02	5 mrem	< 1 %

Average Riverflow past SQN (cubic feet per second): 12,098

Population Doses

Total Body Dose 6.80E-01 man-rem

Maximum Organ Dose (organ) 6.90E-01 man-rem (Bone, Liver)

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/year 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	1.00E-02	1.5 mrem	< 1 %
Child	Liver	1.10E-02	5 mrem	< 1 %
Child	Thyroid	1.00E-02	5 mrem	< 1 %

Average Riverflow past SQN (cubic feet per second): 17,282

Population Doses

Total Body Dose 7.10E-01 man-rem

Maximum Organ Dose (organ) 7.10E-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/year 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	6.70E-03	1.5 mrem	< 1 %
Child	GIT	7.10E-03	5 mrem	< 1 %
Child	Thyroid	6.90E-03	5 mrem	< 1 %

Average River flow past SQN (cubic feet per second): 10,291

Population Doses

Total Body Dose 4.30E-01 man-rem

Maximum Organ Dose (organ) 4.40E-01 man-rem (GIT, 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/year for natural background).

Table 9

Total Dose from Fuel Cycle

Dose	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	
Total Body or any Organ (except thyroid)					
Total body air submersion	2.42E-03	2.13E-03	3.37E-03	5.95E-03	
Critical organ dose (air)	1.92E-02	1.38E-02	2.25E-02	1.76E-02	
Total body dose (liquid)	8.20E-04	1.10E-02	1.00E-02	6.70E-03	
Maximum organ dose (liquid)	9.20E-04	1.50E-02	1.10E-02	7.10E-03	
Direct Radiation Dose	0.00E-00	0.00E-00	0.00E-00	0.00E-00	
Total	2.34E-02	4.19E-02	4.69E-02	3.74E-02	
Cumulative Total Dose (Total body or any other organ) mrem					1.50E-01
Annual Dose Limit (mrem)					25
Percent of Limit					0.60
Thyroid Dose (mrem)					
Total body air submersion	2.42E-03	2.13E-03	3.37E-03	5.95E-03	
Thyroid dose (airborne)	1.92E-02	1.38E-02	2.29E-02	1.81E-02	
Total body dose (liquid)	8.20E-04	1.10E-02	1.00E-02	6.70E-03	
Thyroid dose (liquid)	7.90E-04	1.00E-02	1.00E-02	6.90E-03	
Direct Radiation Dose	0.00E-00	0.00E-00	0.00E-00	0.00E-00	
Total	2.32E-02	3.69E-02	4.63E-02	3.77E-02	
Cumulative Total Dose (Thyroid) mrem					1.44E-01
Annual Dose Limit (mrem)					75
Percent of Limit					0.19

Attachment 1.0

Joint Frequency Distribution Tables

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

Sequoyah Nuclear Plant

JAN 1, 2007 - MAR 31, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.000	0.000	0.095	0.379	0.474	0.000	0.000	0.000	0.948
NNE	0.000	0.000	0.000	0.095	0.569	0.332	0.000	0.000	0.000	0.996
NE	0.000	0.000	0.000	0.142	0.190	0.047	0.000	0.000	0.000	0.379
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.047
SSW	0.000	0.000	0.000	0.000	0.996	0.474	0.000	0.000	0.000	1.470
SW	0.000	0.000	0.000	0.047	0.616	0.711	0.000	0.000	0.000	1.375
WSW	0.000	0.000	0.047	0.000	0.095	0.142	0.047	0.000	0.000	0.332
W	0.000	0.000	0.000	0.000	0.047	0.142	0.047	0.000	0.000	0.237
WNW	0.000	0.000	0.000	0.000	0.190	0.474	0.000	0.000	0.000	0.664
NW	0.000	0.000	0.000	0.000	0.190	0.427	0.047	0.000	0.000	0.664
NNW	0.000	0.000	0.000	0.000	0.332	0.616	0.000	0.000	0.000	0.948
SUBTOTAL	0.000	0.000	0.047	0.379	3.651	3.841	0.142	0.000	0.000	8.061

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2120
TOTAL HOURS OF STABILITY CLASS A 172
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 170
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2109
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: 2007/04/10

MEAN WIND SPEED = 7.73

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

Sequoyah Nuclear Plant

JAN 1, 2007 - MAR 31, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.000	0.000	0.095	0.095	0.095	0.000	0.000	0.000	0.284
NNE	0.000	0.000	0.000	0.095	0.237	0.379	0.000	0.000	0.000	0.711
NE	0.000	0.000	0.000	0.237	0.237	0.000	0.000	0.000	0.000	0.474
ENE	0.000	0.000	0.000	0.095	0.000	0.000	0.000	0.000	0.000	0.095
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	0.047	0.000	0.000	0.000	0.000	0.000	0.047
SSE	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.047
S	0.000	0.000	0.000	0.047	0.190	0.047	0.000	0.000	0.000	0.284
SSW	0.000	0.000	0.000	0.237	0.948	0.047	0.000	0.000	0.000	1.233
SW	0.000	0.000	0.000	0.284	0.522	0.142	0.000	0.000	0.000	0.948
WSW	0.000	0.000	0.000	0.000	0.047	0.047	0.000	0.000	0.000	0.095
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	0.284	0.000	0.000	0.000	0.284
NW	0.000	0.000	0.000	0.047	0.095	0.047	0.047	0.000	0.000	0.237
NNW	0.000	0.000	0.000	0.000	0.047	0.047	0.047	0.000	0.000	0.142
SUBTOTAL	0.000	0.000	0.000	1.185	2.466	1.138	0.095	0.000	0.000	4.884

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2120
TOTAL HOURS OF STABILITY CLASS B 103
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 103
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2109
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:
2007/04/10

MEAN WIND SPEED = 6.65

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

Sequoyah Nuclear Plant

JAN 1, 2007 - MAR 31, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.000	0.000	0.095	0.047	0.095	0.000	0.000	0.000	0.237
NNE	0.000	0.000	0.000	0.332	0.142	0.142	0.000	0.000	0.000	0.616
NE	0.000	0.000	0.190	0.284	0.142	0.142	0.000	0.000	0.000	0.759
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	0.095	0.095	0.000	0.000	0.000	0.000	0.190
SSW	0.000	0.000	0.047	0.427	0.332	0.047	0.000	0.000	0.000	0.853
SW	0.000	0.000	0.047	0.616	0.237	0.047	0.000	0.000	0.000	0.948
WSW	0.000	0.000	0.000	0.095	0.000	0.000	0.000	0.000	0.000	0.095
W	0.000	0.000	0.000	0.000	0.000	0.047	0.047	0.000	0.000	0.095
WNW	0.000	0.000	0.000	0.095	0.000	0.095	0.000	0.000	0.000	0.190
NW	0.000	0.000	0.000	0.000	0.095	0.000	0.047	0.000	0.000	0.142
NNW	0.000	0.000	0.000	0.000	0.095	0.047	0.000	0.000	0.000	0.142
SUBTOTAL	0.000	0.000	0.284	2.039	1.185	0.664	0.095	0.000	0.000	4.267

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2120
TOTAL HOURS OF STABILITY CLASS C	92
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	90
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2109
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:
2007/04/10

MEAN WIND SPEED = 5.98

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)

Sequoyah Nuclear Plant

JAN 1, 2007 - MAR 31, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.000	0.427	0.948	1.612	1.091	0.000	0.000	0.000	4.078
NNE	0.000	0.000	0.806	1.138	1.138	1.517	0.000	0.000	0.000	4.599
NE	0.000	0.047	0.711	0.522	0.332	0.095	0.047	0.000	0.000	1.754
ENE	0.000	0.047	0.284	0.095	0.000	0.000	0.000	0.000	0.000	0.427
E	0.000	0.000	0.379	0.000	0.000	0.000	0.000	0.000	0.000	0.379
ESE	0.000	0.047	0.284	0.000	0.000	0.000	0.000	0.000	0.000	0.332
SE	0.000	0.000	0.427	0.000	0.000	0.000	0.000	0.000	0.000	0.427
SSE	0.000	0.000	0.332	0.284	0.190	0.047	0.000	0.000	0.000	0.853
S	0.000	0.000	0.759	1.897	0.427	0.616	0.000	0.000	0.000	3.698
SSW	0.000	0.000	1.233	2.371	1.091	0.332	0.000	0.000	0.000	5.026
SW	0.000	0.000	1.233	1.470	0.711	0.095	0.000	0.000	0.000	3.509
WSW	0.000	0.047	0.569	0.095	0.474	0.047	0.000	0.000	0.000	1.233
W	0.000	0.000	0.095	0.237	0.332	0.095	0.095	0.000	0.000	0.853
WNW	0.000	0.000	0.142	0.190	0.237	0.474	0.000	0.000	0.000	1.043
NW	0.000	0.095	0.095	0.522	0.616	0.996	0.000	0.000	0.000	2.323
NNW	0.000	0.000	0.237	0.853	1.660	0.948	0.000	0.000	0.000	3.698
SUBTOTAL	0.000	0.284	8.013	10.621	8.819	6.354	0.142	0.000	0.000	34.234

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2120
TOTAL HOURS OF STABILITY CLASS D	727
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	722
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2109
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:
2007/04/10

MEAN WIND SPEED = 5.39

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

Sequoyah Nuclear Plant

JAN 1, 2007 - MAR 31, 2007

WIND DIRECTION		WIND SPEED(MPH)								
>=24.5	TOTAL	CALM	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	0.095	1.897	0.996	0.142	0.000	0.000	0.000	0.000
3.129										
NNE		0.000	0.237	2.134	1.138	0.332	0.000	0.000	0.000	0.000
3.841										
NE		0.000	0.237	0.474	0.142	0.000	0.000	0.000	0.000	0.000
0.853										
ENE		0.000	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.095										
E		0.000	0.095	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.142										
ESE		0.000	0.095	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.142										
SE		0.000	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.095										
SSE		0.000	0.190	0.237	0.047	0.095	0.142	0.000	0.000	0.000
0.711										
S		0.000	0.237	1.091	0.759	0.427	0.759	0.047	0.000	0.000
3.319										
SSW		0.000	0.142	2.892	1.422	0.901	0.190	0.000	0.000	0.000
5.548										
SW		0.000	0.332	3.082	1.470	0.759	0.095	0.000	0.000	0.000
5.737										
WSW		0.000	0.000	0.474	0.237	0.190	0.047	0.000	0.000	0.000
0.948										
W		0.000	0.095	0.237	0.284	0.142	0.095	0.000	0.000	0.000
0.853										
WNW		0.000	0.000	0.522	0.474	0.190	0.095	0.000	0.000	0.000
1.280										
NW		0.000	0.095	0.711	0.616	0.284	0.237	0.000	0.000	0.000
1.944										
NNW		0.000	0.190	0.522	0.522	0.474	0.047	0.000	0.000	0.000
1.754										
SUBTOTAL		0.000	2.181	14.414	8.108	3.936	1.707	0.047	0.000	0.000
30.394										

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2120
TOTAL HOURS OF STABILITY CLASS E 642
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 641
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2109
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:
2007/04/10

MEAN WIND SPEED = 3.70

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

Sequoyah Nuclear Plant

JAN 1, 2007 - MAR 31, 2007

WIND DIRECTION		WIND SPEED(MPH)							
	CALM	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 TOTAL
N	0.000	0.047	0.379	0.047	0.000	0.000	0.000	0.000	0.000 0.474
NNE	0.000	0.427	1.707	0.237	0.000	0.000	0.000	0.000	0.000 2.371
NE	0.000	0.190	0.427	0.095	0.000	0.000	0.000	0.000	0.000 0.711
ENE	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000 0.047
E	0.000	0.142	0.047	0.000	0.000	0.000	0.000	0.000	0.000 0.190
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0.000
SE	0.000	0.095	0.047	0.000	0.000	0.000	0.000	0.000	0.000 0.142
SSE	0.000	0.095	0.095	0.000	0.000	0.000	0.000	0.000	0.000 0.190
S	0.000	0.190	0.664	0.047	0.000	0.000	0.000	0.000	0.000 0.901
SSW	0.000	0.237	1.328	0.237	0.000	0.000	0.000	0.000	0.000 1.802
SW	0.000	0.190	2.418	0.190	0.000	0.000	0.000	0.000	0.000 2.798
WSW	0.000	0.142	0.284	0.095	0.000	0.000	0.000	0.000	0.000 0.522
W	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000 0.047
WNW	0.000	0.047	0.047	0.095	0.000	0.000	0.000	0.000	0.000 0.190
NW	0.000	0.047	0.095	0.000	0.000	0.000	0.000	0.000	0.000 0.142
NNW	0.000	0.000	0.047	0.095	0.000	0.000	0.000	0.000	0.000 0.142
SUBTOTAL	0.000	1.849	7.634	1.185	0.000	0.000	0.000	0.000	0.000 10.669

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2120
TOTAL HOURS OF STABILITY CLASS F	225
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	225
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2109
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: 2007/04/10

MEAN WIND SPEED = 2.32

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)

Sequoyah Nuclear Plant

JAN 1, 2007 - MAR 31, 2007

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	0.190	0.000	0.095	0.095	0.000	0.000	0.000	0.000	0.000	0.000
NNE	1.897	0.000	0.332	1.517	0.047	0.000	0.000	0.000	0.000	0.000
NE	1.612	0.000	0.284	1.280	0.047	0.000	0.000	0.000	0.000	0.000
ENE	0.284	0.000	0.190	0.095	0.000	0.000	0.000	0.000	0.000	0.000
E	0.095	0.000	0.000	0.095	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.190	0.000	0.190	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.190	0.000	0.095	0.095	0.000	0.000	0.000	0.000	0.000	0.000
SSE	0.284	0.000	0.284	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S	0.474	0.000	0.190	0.284	0.000	0.000	0.000	0.000	0.000	0.000
SSW	1.091	0.000	0.284	0.759	0.047	0.000	0.000	0.000	0.000	0.000
SW	0.996	0.000	0.142	0.806	0.047	0.000	0.000	0.000	0.000	0.000
WSW	0.142	0.000	0.000	0.142	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.047	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	7.492	0.000	2.086	5.168	0.237	0.000	0.000	0.000	0.000	0.000

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2120
TOTAL HOURS OF STABILITY CLASS G 159
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 158
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2109
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: 2007/04/10

MEAN WIND SPEED = 2.01

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)

Sequoyah Nuclear Plant

APR 1, 2007 - JUN 30, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.000	0.000	0.328	0.516	0.094	0.000	0.000	0.000	0.938
NNE	0.000	0.000	0.188	0.657	0.985	0.516	0.000	0.000	0.000	2.345
NE	0.000	0.000	0.094	0.985	0.610	0.375	0.000	0.000	0.000	2.064
ENE	0.000	0.000	0.000	0.188	0.000	0.000	0.000	0.000	0.000	0.188
E	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
ESE	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
SE	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.047
SSE	0.000	0.000	0.000	0.094	0.094	0.000	0.000	0.000	0.000	0.188
S	0.000	0.000	0.000	0.235	0.281	0.094	0.000	0.000	0.000	0.610
SSW	0.000	0.000	0.047	0.797	0.797	0.094	0.000	0.000	0.000	1.735
SW	0.000	0.000	0.047	1.220	0.516	0.000	0.000	0.000	0.000	1.782
WSW	0.000	0.000	0.000	0.094	0.281	0.188	0.000	0.000	0.000	0.563
W	0.000	0.000	0.000	0.094	0.000	0.281	0.047	0.000	0.000	0.422
WNW	0.000	0.000	0.000	0.047	0.141	0.469	0.000	0.000	0.000	0.657
NW	0.000	0.000	0.000	0.000	0.094	0.938	0.047	0.000	0.000	1.079
NNW	0.000	0.000	0.047	0.094	0.328	0.141	0.094	0.000	0.000	0.704
SUBTOTAL	0.000	0.000	0.422	4.972	4.644	3.189	0.188	0.000	0.000	13.415

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2171
TOTAL HOURS OF STABILITY CLASS A 297
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 286
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2132
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: 2007/08/16

MEAN WIND SPEED = 6.31

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

Sequoyah Nuclear Plant

APR 1, 2007 - JUN 30, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNE	0.000	0.000	0.188	0.422	0.422	0.000	0.000	0.000	0.000	1.032
NE	0.000	0.000	0.188	0.281	0.188	0.000	0.000	0.000	0.000	0.657
ENE	0.000	0.000	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.094
E	0.000	0.000	0.000	0.141	0.000	0.000	0.000	0.000	0.000	0.141
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	0.047	0.000	0.000	0.000	0.000	0.000	0.047
SSE	0.000	0.000	0.000	0.000	0.141	0.000	0.000	0.000	0.000	0.141
S	0.000	0.000	0.000	0.188	0.141	0.047	0.000	0.000	0.000	0.375
SSW	0.000	0.000	0.000	0.563	0.469	0.000	0.000	0.000	0.000	1.032
SW	0.000	0.000	0.141	0.797	0.000	0.000	0.000	0.000	0.000	0.938
WSW	0.000	0.000	0.047	0.188	0.094	0.047	0.000	0.000	0.000	0.375
W	0.000	0.000	0.000	0.047	0.094	0.000	0.000	0.000	0.000	0.141
WNW	0.000	0.000	0.000	0.000	0.141	0.047	0.000	0.000	0.000	0.188
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	0.047	0.000	0.000	0.000	0.094
SUBTOTAL	0.000	0.000	0.563	2.814	1.735	0.188	0.000	0.000	0.000	5.300

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2171
TOTAL HOURS OF STABILITY CLASS B	119
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	113
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2132
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: 2007/08/16

MEAN WIND SPEED = 4.92

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

Sequoyah Nuclear Plant

APR 1, 2007 - JUN 30, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.000	0.047	0.047	0.094	0.047	0.000	0.000	0.000	0.235
NNE	0.000	0.000	0.141	0.235	0.328	0.094	0.000	0.000	0.000	0.797
NE	0.000	0.000	0.235	0.094	0.047	0.047	0.000	0.000	0.000	0.422
ENE	0.000	0.000	0.000	0.141	0.000	0.000	0.000	0.000	0.000	0.141
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	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.094
SE	0.000	0.000	0.000	0.188	0.047	0.000	0.000	0.000	0.000	0.235
SSE	0.000	0.000	0.094	0.094	0.094	0.000	0.000	0.000	0.000	0.281
S	0.000	0.000	0.094	0.328	0.094	0.000	0.000	0.000	0.000	0.516
SSW	0.000	0.000	0.094	1.220	0.235	0.000	0.000	0.000	0.000	1.548
SW	0.000	0.000	0.375	0.891	0.094	0.000	0.000	0.000	0.000	1.360
WSW	0.000	0.000	0.094	0.094	0.047	0.047	0.000	0.000	0.000	0.281
W	0.000	0.000	0.047	0.047	0.047	0.000	0.000	0.000	0.000	0.141
WNW	0.000	0.000	0.000	0.000	0.000	0.094	0.000	0.000	0.000	0.094
NW	0.000	0.000	0.047	0.000	0.094	0.094	0.000	0.000	0.000	0.235
NNW	0.000	0.000	0.000	0.047	0.047	0.188	0.000	0.000	0.000	0.281
SUBTOTAL	0.000	0.000	1.501	3.424	1.266	0.610	0.000	0.000	0.000	6.801

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2171
TOTAL HOURS OF STABILITY CLASS C 155
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 145
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2132
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:
2007/08/16

MEAN WIND SPEED = 4.84

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)

Sequoyah Nuclear Plant

APR 1, 2007 - JUN 30, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.000	0.610	0.657	0.610	0.094	0.000	0.000	0.000	1.970
NNE	0.000	0.094	0.891	1.782	1.079	0.094	0.000	0.000	0.000	3.940
NE	0.000	0.000	0.985	0.750	0.141	0.094	0.000	0.000	0.000	1.970
ENE	0.000	0.047	0.188	0.000	0.000	0.000	0.000	0.000	0.000	0.235
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	0.094	0.047	0.000	0.000	0.000	0.000	0.000	0.141
SE	0.000	0.047	0.422	0.094	0.047	0.000	0.000	0.000	0.000	0.610
SSE	0.000	0.047	0.281	0.469	0.188	0.000	0.000	0.000	0.000	0.985
S	0.000	0.047	0.750	1.689	0.985	0.188	0.000	0.000	0.000	3.659
SSW	0.000	0.094	1.829	2.486	0.422	0.047	0.000	0.000	0.000	4.878
SW	0.000	0.000	1.454	1.032	0.141	0.000	0.000	0.000	0.000	2.627
WSW	0.000	0.047	0.328	0.141	0.094	0.047	0.000	0.000	0.000	0.657
W	0.000	0.047	0.422	0.141	0.235	0.047	0.000	0.000	0.000	0.891
WNW	0.000	0.000	0.047	0.094	0.188	0.188	0.000	0.000	0.000	0.516
NW	0.000	0.000	0.000	0.422	0.375	0.563	0.000	0.000	0.000	1.360
NNW	0.000	0.000	0.281	0.235	0.188	0.375	0.000	0.000	0.000	1.079
SUBTOTAL	0.000	0.469	8.724	10.038	4.690	1.735	0.000	0.000	0.000	25.657

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2171
TOTAL HOURS OF STABILITY CLASS D 553
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 547
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2132
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: 2007/08/16

MEAN WIND SPEED = 4.32

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

Sequoyah Nuclear Plant

APR 1, 2007 - JUN 30, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.375	3.330	1.173	0.610	0.000	0.000	0.000	0.000	5.488
NNE	0.000	0.328	2.720	1.266	0.000	0.000	0.000	0.000	0.000	4.315
NE	0.000	0.094	0.563	0.141	0.000	0.000	0.000	0.000	0.000	0.797
ENE	0.000	0.094	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.141
E	0.000	0.047	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.141
ESE	0.000	0.047	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.141
SE	0.000	0.094	0.469	0.047	0.000	0.000	0.000	0.000	0.000	0.610
SSE	0.000	0.141	0.328	0.188	0.000	0.000	0.000	0.000	0.000	0.657
S	0.000	0.235	1.220	0.657	0.094	0.000	0.000	0.000	0.000	2.205
SSW	0.000	0.235	2.767	1.266	0.094	0.047	0.000	0.000	0.000	4.409
SW	0.000	0.235	2.064	0.328	0.000	0.000	0.000	0.000	0.000	2.627
WSW	0.000	0.094	0.797	0.281	0.000	0.000	0.000	0.000	0.000	1.173
W	0.000	0.000	0.235	0.141	0.047	0.000	0.000	0.000	0.000	0.422
WNW	0.000	0.047	0.328	0.047	0.000	0.000	0.000	0.000	0.000	0.422
NW	0.000	0.141	0.516	0.235	0.235	0.000	0.000	0.000	0.000	1.126
NNW	0.000	0.188	1.454	0.657	0.141	0.141	0.000	0.000	0.000	2.580
SUBTOTAL	0.000	2.392	17.026	6.426	1.220	0.188	0.000	0.000	0.000	27.251

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2171
TOTAL HOURS OF STABILITY CLASS E	584
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	581
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2132
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: 2007/08/16

MEAN WIND SPEED = 2.90

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)

Sequoyah Nuclear Plant

APR 1, 2007 - JUN 30, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.141	1.595	0.188	0.000	0.000	0.000	0.000	0.000	1.923
NNE	0.000	0.469	4.503	0.094	0.000	0.000	0.000	0.000	0.000	5.066
NE	0.000	0.422	1.266	0.000	0.000	0.000	0.000	0.000	0.000	1.689
ENE	0.000	0.422	0.188	0.000	0.000	0.000	0.000	0.000	0.000	0.610
E	0.000	0.141	0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.281
ESE	0.000	0.188	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.281
SE	0.000	0.422	0.235	0.000	0.000	0.000	0.000	0.000	0.000	0.657
SSE	0.000	0.281	0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.422
S	0.000	0.328	0.610	0.047	0.000	0.000	0.000	0.000	0.000	0.985
SSW	0.000	0.422	1.126	0.094	0.000	0.000	0.000	0.000	0.000	1.642
SW	0.000	0.047	0.704	0.094	0.000	0.000	0.000	0.000	0.000	0.844
WSW	0.000	0.000	0.188	0.000	0.000	0.000	0.000	0.000	0.000	0.188
W	0.000	0.094	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.188
WNW	0.000	0.000	0.188	0.047	0.000	0.000	0.000	0.000	0.000	0.235
NW	0.000	0.141	0.141	0.422	0.000	0.000	0.000	0.000	0.000	0.704
NNW	0.000	0.188	0.375	0.047	0.047	0.000	0.000	0.000	0.000	0.657
SUBTOTAL	0.000	3.705	11.585	1.032	0.047	0.000	0.000	0.000	0.000	16.370

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2171
TOTAL HOURS OF STABILITY CLASS F 352
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 349
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2132
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: 2007/08/16

MEAN WIND SPEED = 2.01

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)

Sequoyah Nuclear Plant

APR 1, 2007 - JUN 30, 2007

WIND DIRECTION	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	TOTAL
N	0.001	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.095
NNE	0.014	0.141	1.360	0.000	0.000	0.000	0.000	0.000	0.000	1.515
NE	0.007	0.235	0.516	0.000	0.000	0.000	0.000	0.000	0.000	0.757
ENE	0.002	0.188	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.237
E	0.003	0.328	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.379
ESE	0.001	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.095
SE	0.002	0.235	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.237
SSE	0.003	0.235	0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.379
S	0.008	0.422	0.422	0.000	0.000	0.000	0.000	0.000	0.000	0.852
SSW	0.005	0.141	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.521
SW	0.001	0.000	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.095
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.047
SUBTOTAL	0.047	2.017	3.143	0.000	0.000	0.000	0.000	0.000	0.000	5.206

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2171
TOTAL HOURS OF STABILITY CLASS G	111
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	111
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2132
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

DATE PRINTED: 2007/08/16

MEAN WIND SPEED = 1.70

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)

Sequoyah Nuclear Plant

JUL 1, 2007 - SEP 30, 2007

WIND DIRECTION		WIND SPEED(MPH)								
>=24.5	TOTAL	CALM	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	0.548	0.000	0.000	0.046	0.274	0.183	0.046	0.000	0.000	0.000
NNE	2.832	0.000	0.000	0.091	1.325	1.370	0.046	0.000	0.000	0.000
NE	1.233	0.000	0.000	0.183	0.777	0.137	0.137	0.000	0.000	0.000
ENE	0.183	0.000	0.000	0.000	0.183	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	0.091	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000
SSE	0.137	0.000	0.000	0.000	0.000	0.091	0.046	0.000	0.000	0.000
S	0.046	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000
SSW	1.645	0.000	0.000	0.000	0.822	0.822	0.000	0.000	0.000	0.000
SW	1.508	0.000	0.000	0.000	0.640	0.868	0.000	0.000	0.000	0.000
WSW	0.411	0.000	0.000	0.000	0.137	0.274	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	0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.046	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000
NNW	0.137	0.000	0.000	0.000	0.000	0.137	0.000	0.000	0.000	0.000
SUBTOTAL	8.862	0.000	0.046	0.320	4.294	3.883	0.320	0.000	0.000	0.000

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2205
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 2189
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: 2007/11/28

MEAN WIND SPEED = 5.32

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

Sequoyah Nuclear Plant

JUL 1, 2007 - SEP 30, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.000	0.046	0.046	0.137	0.091	0.000	0.000	0.000	0.320
NNE	0.000	0.000	0.137	0.548	0.320	0.091	0.000	0.000	0.000	1.096
NE	0.000	0.000	0.365	0.228	0.091	0.046	0.000	0.000	0.000	0.731
ENE	0.000	0.000	0.137	0.046	0.000	0.000	0.000	0.000	0.000	0.183
E	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
ESE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
SE	0.000	0.000	0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.091
SSE	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.091
S	0.000	0.000	0.000	0.046	0.137	0.000	0.000	0.000	0.000	0.183
SSW	0.000	0.000	0.000	1.096	0.137	0.000	0.000	0.000	0.000	1.233
SW	0.000	0.000	0.137	0.959	0.000	0.000	0.000	0.000	0.000	1.096
WSW	0.000	0.000	0.046	0.228	0.046	0.000	0.000	0.000	0.000	0.320
W	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.046	0.091	0.046	0.000	0.000	0.000	0.183
NNW	0.000	0.000	0.046	0.046	0.091	0.000	0.000	0.000	0.000	0.183
SUBTOTAL	0.000	0.000	0.959	3.518	1.096	0.274	0.000	0.000	0.000	5.847

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2205
TOTAL HOURS OF STABILITY CLASS B 128
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 128
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2189
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: 2007/11/28

MEAN WIND SPEED = 4.68

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

Sequoyah Nuclear Plant

JUL 1, 2007 - SEP 30, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.000	0.046	0.274	0.091	0.000	0.000	0.000	0.000	0.411
NNE	0.000	0.000	0.274	0.503	0.183	0.000	0.000	0.000	0.000	0.959
NE	0.000	0.000	0.503	0.183	0.000	0.000	0.000	0.000	0.000	0.685
ENE	0.000	0.000	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.320
E	0.000	0.000	0.091	0.091	0.000	0.000	0.000	0.000	0.000	0.183
ESE	0.000	0.000	0.137	0.091	0.000	0.000	0.000	0.000	0.000	0.228
SE	0.000	0.000	0.000	0.091	0.046	0.000	0.000	0.000	0.000	0.137
SSE	0.000	0.000	0.000	0.183	0.000	0.000	0.000	0.000	0.000	0.183
S	0.000	0.000	0.000	0.731	0.000	0.046	0.000	0.000	0.000	0.777
SSW	0.000	0.000	0.365	2.101	0.046	0.000	0.000	0.000	0.000	2.513
SW	0.000	0.000	0.274	1.096	0.046	0.000	0.000	0.000	0.000	1.416
WSW	0.000	0.000	0.000	0.274	0.091	0.000	0.000	0.000	0.000	0.365
W	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
NNW	0.000	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.091
SUBTOTAL	0.000	0.000	2.010	5.710	0.594	0.046	0.000	0.000	0.000	8.360

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2205
TOTAL HOURS OF STABILITY CLASS C 183
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 183
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2189
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:
2007/11/28

MEAN WIND SPEED = 4.03

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)

Sequoyah Nuclear Plant

JUL 1, 2007 - SEP 30, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.091	1.051	0.685	0.183	0.046	0.000	0.000	0.000	2.056
NNE	0.000	0.000	1.325	1.508	0.822	0.091	0.000	0.000	0.000	3.746
NE	0.000	0.046	0.731	0.137	0.000	0.000	0.000	0.000	0.000	0.914
ENE	0.000	0.000	0.228	0.000	0.000	0.000	0.000	0.000	0.000	0.228
E	0.000	0.046	0.503	0.000	0.000	0.000	0.000	0.000	0.000	0.548
ESE	0.000	0.046	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.365
SE	0.000	0.000	0.457	0.183	0.000	0.000	0.000	0.000	0.000	0.640
SSE	0.000	0.000	0.640	0.731	0.183	0.000	0.000	0.000	0.000	1.553
S	0.000	0.000	1.873	2.558	0.365	0.000	0.000	0.000	0.000	4.797
SSW	0.000	0.000	3.609	3.106	0.320	0.000	0.000	0.000	0.000	7.035
SW	0.000	0.046	1.873	1.416	0.320	0.000	0.000	0.000	0.000	3.655
WSW	0.000	0.137	1.051	0.685	0.046	0.000	0.000	0.000	0.000	1.919
W	0.000	0.000	0.183	0.091	0.000	0.000	0.000	0.000	0.000	0.274
WNW	0.000	0.046	0.137	0.000	0.046	0.000	0.046	0.000	0.000	0.274
NW	0.000	0.000	0.274	0.320	0.000	0.000	0.000	0.000	0.000	0.594
NNW	0.000	0.137	0.503	0.091	0.046	0.000	0.000	0.000	0.000	0.777
SUBTOTAL	0.000	0.594	14.756	11.512	2.330	0.137	0.046	0.000	0.000	29.374

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2205
TOTAL HOURS OF STABILITY CLASS D	647
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	643
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
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:
2007/11/28

MEAN WIND SPEED = 3.54

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

Sequoyah Nuclear Plant

JUL 1, 2007 - SEP 30, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.868	4.249	1.279	0.137	0.000	0.000	0.000	0.000	6.533
NNE	0.000	0.731	3.106	1.142	0.228	0.000	0.000	0.000	0.000	5.208
NE	0.000	0.183	0.457	0.091	0.046	0.000	0.000	0.000	0.000	0.777
ENE	0.000	0.183	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.183
E	0.000	0.091	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.228
ESE	0.000	0.137	0.274	0.000	0.000	0.000	0.000	0.000	0.000	0.411
SE	0.000	0.091	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.411
SSE	0.000	0.365	0.822	0.228	0.046	0.000	0.000	0.000	0.000	1.462
S	0.000	0.365	1.919	0.091	0.000	0.000	0.000	0.000	0.000	2.376
SSW	0.000	0.548	2.924	0.274	0.000	0.000	0.000	0.000	0.000	3.746
SW	0.000	0.365	2.787	0.365	0.000	0.000	0.000	0.000	0.000	3.518
WSW	0.000	0.274	1.233	0.274	0.091	0.000	0.000	0.000	0.000	1.873
W	0.000	0.274	0.777	0.046	0.000	0.000	0.000	0.000	0.000	1.096
WNW	0.000	0.228	0.411	0.046	0.000	0.000	0.000	0.000	0.000	0.685
NW	0.000	0.137	0.594	0.091	0.046	0.000	0.000	0.000	0.000	0.868
NNW	0.000	0.228	1.873	0.228	0.000	0.000	0.000	0.000	0.000	2.330
SUBTOTAL	0.000	5.071	21.882	4.157	0.594	0.000	0.000	0.000	0.000	31.704

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2205
TOTAL HOURS OF STABILITY CLASS E 704
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 694
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2189
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: 2007/11/28

MEAN WIND SPEED = 2.34

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)

Sequoyah Nuclear Plant

JUL 1, 2007 - SEP 30, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.320	2.193	0.411	0.000	0.000	0.000	0.000	0.000	2.924
NNE	0.000	0.777	3.518	0.000	0.000	0.000	0.000	0.000	0.000	4.294
NE	0.000	0.914	0.548	0.091	0.000	0.000	0.000	0.000	0.000	1.553
ENE	0.000	0.274	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.365
E	0.000	0.228	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.320
ESE	0.000	0.228	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.365
SE	0.000	0.137	0.137	0.046	0.000	0.000	0.000	0.000	0.000	0.320
SSE	0.000	0.274	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.320
S	0.000	0.503	0.228	0.000	0.000	0.000	0.000	0.000	0.000	0.731
SSW	0.000	0.137	0.914	0.000	0.000	0.000	0.000	0.000	0.000	1.051
SW	0.000	0.183	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.274
WSW	0.000	0.046	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.137
W	0.000	0.137	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.183
WNW	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
NW	0.000	0.046	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.365
NNW	0.000	0.046	0.548	0.046	0.000	0.000	0.000	0.000	0.000	0.640
SUBTOTAL	0.000	4.294	8.954	0.594	0.000	0.046	0.000	0.000	0.000	13.888

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2205
TOTAL HOURS OF STABILITY CLASS F	306
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	304
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
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: 2007/11/28

MEAN WIND SPEED = 1.93

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)

Sequoyah Nuclear Plant

JUL 1, 2007 - SEP 30, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.046	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.137
NNE	0.000	0.000	0.365	0.000	0.000	0.000	0.000	0.000	0.000	0.365
NE	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.091
ENE	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
E	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.091
ESE	0.000	0.183	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.183
SE	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.091
SSE	0.000	0.274	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.320
S	0.000	0.228	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.320
SSW	0.000	0.046	0.183	0.000	0.000	0.000	0.000	0.000	0.000	0.228
SW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.091
NNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL	0.000	1.005	0.868	0.091	0.000	0.000	0.000	0.000	0.000	1.964

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2205
TOTAL HOURS OF STABILITY CLASS G 43
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 43
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2189
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: 2007/11/28

MEAN WIND SPEED = 1.77

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)

Sequoyah Nuclear Plant

OCT 1, 2007 - DEC 31, 2007

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	0.321	0.000	0.000	0.000	0.000	0.138	0.184	0.000	0.000	0.000
NNE	1.010	0.000	0.000	0.184	0.321	0.321	0.184	0.000	0.000	0.000
NE	0.689	0.000	0.000	0.092	0.321	0.275	0.000	0.000	0.000	0.000
ENE	0.230	0.000	0.000	0.138	0.046	0.046	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	0.046	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000
SSE	0.092	0.000	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000
S	0.092	0.000	0.000	0.046	0.000	0.046	0.000	0.000	0.000	0.000
SSW	0.367	0.000	0.000	0.000	0.138	0.184	0.046	0.000	0.000	0.000
SW	0.597	0.000	0.000	0.000	0.321	0.275	0.000	0.000	0.000	0.000
WSW	0.184	0.000	0.000	0.046	0.000	0.092	0.046	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	0.046	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000
NW	0.184	0.000	0.000	0.000	0.000	0.046	0.138	0.000	0.000	0.000
NNW	0.138	0.000	0.000	0.000	0.000	0.046	0.092	0.000	0.000	0.000
SUBTOTAL	3.994	0.000	0.000	0.505	1.194	1.515	0.781	0.000	0.000	0.000

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2178
TOTAL HOURS OF STABILITY CLASS A 87
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 87
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2178
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: 2008/01/29

MEAN WIND SPEED = 5.73

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

Sequoyah Nuclear Plant

OCT 1, 2007 - DEC 31, 2007

WIND DIRECTION		WIND SPEED(MPH)								
	CALM	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	TOTAL
N	0.000	0.000	0.000	0.092	0.092	0.092	0.000	0.000	0.000	0.275
NNE	0.000	0.000	0.092	0.275	0.459	0.092	0.000	0.000	0.000	0.918
NE	0.000	0.000	0.230	0.367	0.184	0.000	0.000	0.000	0.000	0.781
ENE	0.000	0.000	0.000	0.092	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	0.046	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	0.046
SSE	0.000	0.000	0.000	0.046	0.000	0.092	0.000	0.000	0.000	0.138
S	0.000	0.000	0.046	0.046	0.275	0.092	0.000	0.000	0.000	0.459
SSW	0.000	0.000	0.000	0.459	0.184	0.046	0.000	0.000	0.000	0.689
SW	0.000	0.000	0.046	0.367	0.138	0.000	0.000	0.000	0.000	0.551
WSW	0.000	0.000	0.092	0.000	0.092	0.000	0.000	0.000	0.000	0.184
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
NNW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
SUBTOTAL	0.000	0.000	0.551	1.791	1.423	0.505	0.000	0.000	0.000	4.270

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2178
TOTAL HOURS OF STABILITY CLASS B 93
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 93
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2178
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: 2008/01/29

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

Sequoyah Nuclear Plant

OCT 1, 2007 - DEC 31, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.000	0.000	0.000	0.092	0.000	0.000	0.000	0.000	0.092
NNE	0.000	0.000	0.230	0.230	0.184	0.230	0.000	0.000	0.000	0.872
NE	0.000	0.000	0.230	0.413	0.092	0.000	0.000	0.000	0.000	0.735
ENE	0.000	0.000	0.230	0.092	0.000	0.000	0.000	0.000	0.000	0.321
E	0.000	0.000	0.184	0.000	0.000	0.000	0.000	0.000	0.000	0.184
ESE	0.000	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.092
SE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.046
SSE	0.000	0.000	0.000	0.000	0.046	0.092	0.000	0.000	0.000	0.138
S	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.092
SSW	0.000	0.000	0.092	0.184	0.138	0.046	0.000	0.000	0.000	0.459
SW	0.000	0.000	0.092	0.735	0.092	0.000	0.000	0.000	0.000	0.918
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	0.046	0.046	0.046	0.000	0.000	0.000	0.000	0.138
WNW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
NW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
NNW	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.046
SUBTOTAL	0.000	0.000	1.194	1.791	0.781	0.459	0.000	0.000	0.000	4.224

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2178
TOTAL HOURS OF STABILITY CLASS C 92
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 92
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2178
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:
2008/01/29

MEAN WIND SPEED = 4.91

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)

Sequoyah Nuclear Plant

OCT 1, 2007 - DEC 31, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.000	1.010	0.643	0.918	0.505	0.000	0.000	0.000	3.076
NNE	0.000	0.046	1.561	1.515	1.423	0.459	0.000	0.000	0.000	5.005
NE	0.000	0.000	1.194	0.735	0.275	0.046	0.000	0.000	0.000	2.250
ENE	0.000	0.000	0.367	0.000	0.000	0.000	0.000	0.000	0.000	0.367
E	0.000	0.000	0.138	0.046	0.000	0.000	0.000	0.000	0.000	0.184
ESE	0.000	0.000	0.138	0.046	0.000	0.000	0.000	0.000	0.000	0.184
SE	0.000	0.046	0.321	0.092	0.000	0.000	0.000	0.000	0.000	0.459
SSE	0.000	0.092	0.367	0.643	0.505	0.184	0.046	0.000	0.000	1.837
S	0.000	0.000	1.240	1.607	0.918	0.367	0.000	0.000	0.000	4.132
SSW	0.000	0.000	1.837	2.066	1.423	0.505	0.000	0.000	0.000	5.831
SW	0.000	0.046	1.286	1.928	0.781	0.184	0.000	0.000	0.000	4.224
WSW	0.000	0.046	0.459	0.367	0.184	0.184	0.000	0.000	0.000	1.240
W	0.000	0.046	0.321	0.092	0.046	0.275	0.092	0.000	0.000	0.872
WNW	0.000	0.046	0.230	0.000	0.092	0.275	0.000	0.000	0.000	0.643
NW	0.000	0.092	0.092	0.275	0.092	0.551	0.000	0.000	0.000	1.102
NNW	0.000	0.046	0.413	0.551	0.413	0.459	0.046	0.000	0.000	1.928
SUBTOTAL	0.000	0.505	10.973	10.606	7.071	3.994	0.184	0.000	0.000	33.333

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS D	726
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	726
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2178
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: 2008/01/29

MEAN WIND SPEED = 4.76

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

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

Sequoyah Nuclear Plant

OCT 1, 2007 - DEC 31, 2007

WIND DIRECTION		WIND SPEED(MPH)								
>=24.5	TOTAL	CALM	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	5.326	0.000	0.275	3.398	1.286	0.367	0.000	0.000	0.000	0.000
NNE	6.244	0.000	0.505	4.132	1.056	0.551	0.000	0.000	0.000	0.000
NE	1.331	0.000	0.275	0.826	0.230	0.000	0.000	0.000	0.000	0.000
ENE	0.275	0.000	0.230	0.046	0.000	0.000	0.000	0.000	0.000	0.000
E	0.230	0.000	0.138	0.092	0.000	0.000	0.000	0.000	0.000	0.000
ESE	0.092	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000
SE	0.230	0.000	0.138	0.092	0.000	0.000	0.000	0.000	0.000	0.000
SSE	1.240	0.000	0.275	0.505	0.230	0.138	0.092	0.000	0.000	0.000
S	2.893	0.000	0.230	1.102	0.964	0.413	0.184	0.000	0.000	0.000
SSW	4.959	0.000	0.230	2.479	1.653	0.597	0.000	0.000	0.000	0.000
SW	4.040	0.000	0.413	2.525	1.010	0.046	0.046	0.000	0.000	0.000
WSW	1.974	0.000	0.230	1.010	0.597	0.092	0.046	0.000	0.000	0.000
W	0.826	0.000	0.413	0.230	0.092	0.046	0.046	0.000	0.000	0.000
WNW	0.505	0.000	0.138	0.230	0.046	0.092	0.000	0.000	0.000	0.000
NW	1.653	0.000	0.184	0.872	0.459	0.138	0.000	0.000	0.000	0.000
NNW	2.571	0.000	0.092	1.607	0.597	0.230	0.046	0.000	0.000	0.000
SUBTOTAL	34.389	0.000	3.811	19.192	8.219	2.709	0.459	0.000	0.000	0.000

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2178
TOTAL HOURS OF STABILITY CLASS E 749
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 749
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2178
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: 2008/01/29

MEAN WIND SPEED = 3.10

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)

Sequoyah Nuclear Plant

OCT 1, 2007 - DEC 31, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.275	2.204	0.046	0.000	0.000	0.000	0.000	0.000	2.525
NNE	0.000	1.423	5.051	0.046	0.000	0.000	0.000	0.000	0.000	6.520
NE	0.000	0.826	1.010	0.046	0.000	0.000	0.000	0.000	0.000	1.882
ENE	0.000	0.092	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.184
E	0.000	0.321	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.413
ESE	0.000	0.230	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.275
SE	0.000	0.275	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.321
SSE	0.000	0.138	0.184	0.000	0.000	0.000	0.000	0.000	0.000	0.321
S	0.000	0.230	0.643	0.000	0.000	0.000	0.000	0.000	0.000	0.872
SSW	0.000	0.138	0.826	0.000	0.000	0.000	0.000	0.000	0.000	0.964
SW	0.000	0.184	0.964	0.000	0.000	0.000	0.000	0.000	0.000	1.148
WSW	0.000	0.046	0.138	0.000	0.000	0.000	0.000	0.000	0.000	0.184
W	0.000	0.046	0.230	0.046	0.000	0.000	0.000	0.000	0.000	0.321
WNW	0.000	0.092	0.092	0.046	0.000	0.000	0.000	0.000	0.000	0.230
NW	0.000	0.138	0.413	0.046	0.000	0.000	0.000	0.000	0.000	0.597
NNW	0.000	0.275	0.321	0.138	0.000	0.000	0.000	0.000	0.000	0.735
SUBTOTAL	0.000	4.729	12.351	0.413	0.000	0.000	0.000	0.000	0.000	17.493

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2178
TOTAL HOURS OF STABILITY CLASS F	381
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	381
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2178
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:
2008/01/29

MEAN WIND SPEED = 1.87

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)

Sequoyah Nuclear Plant

OCT 1, 2007 - DEC 31, 2007

WIND DIRECTION	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	TOTAL
N	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.092
NNE	0.000	0.046	0.643	0.000	0.000	0.000	0.000	0.000	0.000	0.689
NE	0.000	0.000	0.230	0.000	0.000	0.000	0.000	0.000	0.000	0.230
ENE	0.000	0.184	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.184
E	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
ESE	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046
SE	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.092
SSE	0.000	0.184	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.184
S	0.000	0.184	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.275
SSW	0.000	0.046	0.230	0.000	0.000	0.000	0.000	0.000	0.000	0.275
SW	0.000	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.092
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.092
SUBTOTAL	0.000	0.826	1.423	0.046	0.000	0.000	0.000	0.000	0.000	2.296

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2178
TOTAL HOURS OF STABILITY CLASS G 50
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 50
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2178
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:
2008/01/29

MEAN WIND SPEED = 1.75

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Attachment 2.0

Deviations from ODCM Controls/Surveillance Requirements

Date	ODCM Requirement	Description of Deviation
Mar 13,2007	1/2 1.2 Table 1.1-2 Item 4.b,c, and d Actions 42,44, and 45.	On 3/13/07 at 0150 0-FIS-90-101, AB Sampler Flow Rate Monitor dropped below the alarm setpoint for 0-XA-55-12B Window 9 and the alarm did not sound. MCR personnel were notified that the local indication of 0-FIS-90-101 indicated 0.7 gmm. The MCR alarm setpoint is 1 gpm decreasing. SI-OPS-000-003.D states that the operability of the flow switch is the absence of the alarm, therefore the flow switch was inoperable due to the alarm not being sounded at less than the alarm setpoint.At 0748 a late entry was made for 0150 that declared 0-RM-090-101 inop due to low flow on 0-FIS-90-101.Chemistry was notified of the late entry and performed comp actions at 0750.

Attachment 3.0

Radiation Monitors Inoperable for Greater than 30 days

ERCW Radation Monitors (0-RM-90-133/140) (PER 113783) were out of service from June 24 to July 19 returning to service for approximately six days then went out again on July 27 returning to service on Aug 10 due to the following:Sample pump motor tripped its breaker and it was discovered that an incorrect curve breaker had been installed during preventive maintenance. The breaker could not be replaced until the U1C15 outage due the risk of tripping the Unit. Subsequently a TACF and associated paperwork had to be developed to supply the pump motor from a different breaker. Through all of the troubleshooting for the cause and the TACF, the monitor was out of service longer than 30 days.