



ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

**DUKE ENERGY CORPORATION
OCONEE NUCLEAR STATION
Units 1, 2, and 3**

2014



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LIST OF ACRONYMS USED IN THIS TEXT *(in alphabetical order)*

BW	BiWeekly
C	Control
EPA	Environmental Protection Agency
ERA	Environmental Resource Associates
GI-LLI	Gastrointestinal – Lower Large Intestine
GPS	Global Positioning System
ISFSI	Independent Spent Fuel Storage Installation
LLD	Lower Limit of Detection
M	Monthly
MDA	Minimum Detectable Activity
MOA	Memorandum of Agreement
mrem	Millirem
NIST	National Institute of Standards and Technology
NRC	Nuclear Regulatory Commission
ODCM	Offsite Dose Calculation Manual
ONS	Oconee Nuclear Station
pCi/kg	picocurie per kilogram
pCi/l	picocurie per liter
pCi/m ³	picocurie per cubic meter
PIP	Problem Investigation Program
Q	Quarterly
REMP	Radiological Environmental Monitoring Program
SA	Semiannually
SLCs	Selected Licensee Commitments
SM	Semimonthly
TECH SPECS	Technical Specifications
TLD	Thermoluminescent Dosimeter
μCi/ml	microcurie per milliliter
UFSAR	Updated Final Safety Analysis Report
W	Weekly

1.0 EXECUTIVE SUMMARY

This Annual Radiological Environmental Operating Report describes the Oconee Nuclear Station Radiological Environmental Monitoring Program (REMP), and the program results for the calendar year 2014.

Included are the identification of sampling locations, descriptions of environmental sampling and analysis procedures, comparisons of present environmental radioactivity levels and pre-operational environmental data, comparisons of doses calculated from environmental measurements and effluent data, analysis of trends in environmental radiological data as potentially affected by station operations, and a summary of environmental radiological sampling results. Quality assurance practices and program changes are also discussed.

Sampling activities were conducted as prescribed by Selected Licensee Commitments (SLC's). Required analyses were performed and detection capabilities were met for all collected samples as required by SLC's. Nine-hundred ninety-two samples were analyzed comprising 1,057 test results in order to compile data for the 2014 report. Based on the annual land use census, the current number of sampling sites for Oconee Nuclear Station is sufficient.

Concentrations observed in the environment in 2014 for station related radionuclides were within the ranges of concentrations observed in the past. Inspection of data showed that radioactivity concentrations in drinking water, surface water, fish, and shoreline sediment are higher than the activities reported for samples collected at control locations. All positively identified measurements attributable to station operation were within limits as specified in SLC's.

Additionally, environmental radiological monitoring data is consistent with effluents introduced into the environment by plant operations. The total body dose estimated to the maximum exposed member of the public as calculated by environmental sampling data, excluding TLD results, was 3.71E-02 mrem for 2014. Background radiation dose in the United States is approximately 620 mrem per year (approximately half from naturally occurring sources such as radon and half from man-made sources such as medical processes).¹ It is therefore concluded that station operations has had no significant radiological impact on the health and safety of the public or the environment.

¹NCRP (2009). National Council on Radiation Protection and Measurements. *Ionizing Radiation Exposure of the Population of the United States*, NCRP Report No. 160 (National Council on Radiation Protection and Measurements, Bethesda, Maryland).

2.0 INTRODUCTION

2.1 SITE DESCRIPTION AND SAMPLE LOCATIONS

Oconee Nuclear Station (ONS) is located in Oconee County, South Carolina, approximately 8 miles northeast of Seneca, South Carolina, on the shore of Lake Keowee. This lake was formed by damming the Keowee and Little Rivers in that location. Immediately to the south is the U.S. Government Hartwell Project. The Keowee Hydroelectric Plant near the station joins Lake Keowee and the upper reaches of Lake Hartwell. To the north, the Jocassee Hydroelectric Plant joins Lake Jocassee and Lake Keowee. Jocassee is a pumped storage plant.

ONS consists of three pressurized water reactors. Each unit has an output of 846 megawatts net. Unit 1 license for operation was issued 2/6/1973. Unit 2 license for operation was issued 10/6/1973. Unit 3 license for operation was issued 7/19/1974. An independent spent fuel storage installation is also located at the site.

Figures 2.1-1 and 2.1-2 are maps depicting the Thermoluminescent Dosimeter (TLD) monitoring locations and the sampling locations. The location numbers shown on these maps correspond to those listed in Tables 2.1-A and 2.1-B. Figure 2.1-1 comprises all sample locations within a one mile radius of ONS. Figure 2.1-2 comprises all sample locations within a ten mile radius of ONS.

2.2 SCOPE AND REQUIREMENTS OF THE REMP

An environmental monitoring program has been in effect at Oconee Nuclear Station since 1969, four years prior to operation of Unit 1 in 1973. The preoperational program provides data on the existing environmental radioactivity levels for the site and vicinity which may be used to determine whether increases in environmental levels are attributable to the station. The operational program provides surveillance and backup support of detailed effluent monitoring which is necessary to evaluate the significance, if any, of the contributions to the existing environmental radioactivity levels that result from station operation.

This monitoring program is based on NRC guidance as reflected in the Selected Licensee Commitments Manual, with regard to sample media, sampling locations, sampling frequency, and analytical sensitivity requirements. Indicator and control locations were established for comparison purposes to distinguish radioactivity of station origin from natural or other “man-made” environmental radioactivity. The environmental monitoring program also verifies projected and anticipated radionuclide concentrations in the environment and related exposures from releases of radionuclides from Oconee Nuclear Station. This program satisfies the requirements of Section IV.B.2 of Appendix I to 10CFR50 and 10CFR72.44(d)(2) and provides surveillance of all appropriate critical exposure pathways to man and protects vital interests of the company, public, and state and federal agencies concerned with the environment. Reporting levels for radioactivity found in environmental samples are listed in Table 2.2-A. Table 2.2-B lists the REMP analysis and frequency schedule.

The Annual Land Use Census, required by Selected Licensee Commitments, is performed to ensure that changes in the use of areas at or beyond the site boundary are identified and that modifications to the Radiological Environmental Monitoring Program are made if required by changes in land use. This census satisfies the requirements of Section IV.B.3 of Appendix I to 10CFR50. Results are shown in Table 3.9.

Participation in an interlaboratory comparison program as required by Selected Licensee Commitments provides for independent checks on the precision and accuracy of measurements of radioactive material in REMP sample matrices. Such checks are performed as part of the quality assurance program for environmental monitoring in order to demonstrate that the results are valid for the purposes of Section IV.B.2 of Appendix I to 10CFR50. A summary of the results obtained as part of this comparison program are in Section 5 of this annual report.

2.3 STATISTICAL AND CALCULATIONAL METHODOLOGY

2.3.1 ESTIMATION OF THE MEAN VALUE

There was one (1) basic statistical calculation performed on the raw data resulting from the environmental sample analysis program. The calculation involved the determination of the mean value for the indicator and the control samples for each sample medium. The mean is a widely used statistic. This value was used in the reduction of the data generated by the sampling and analysis of the various media in the Radiological Environmental Monitoring Program. "Net activity (or concentration)" is the activity (or concentration) determined to be present in the sample. No "Minimum Detectable Activity", "Lower Limit of Detection", "Less Than Level", or negative activities or concentrations are included in the calculation of the mean. The following equation was used to estimate the mean:

$$\overline{x} = \frac{\sum_{i=1}^N x_i}{N}$$

Where:

$\overline{x}$ = estimate of the mean,

i = individual sample,

N = total number of samples with a net activity (or concentration),

x_i = net activity (or concentration) for sample i.

2.3.2 LOWER LEVEL OF DETECTION AND MINIMUM DETECTABLE ACTIVITY

The Lower Level of Detection (LLD) and Minimum Detectable Activity (MDA) are used throughout the Environmental Monitoring Program.

LLD - The LLD, as defined in the Selected Licensee Commitments Manual is the smallest concentration of radioactive material in a sample that will yield a net count, above the system background, that will be detected with 95% probability with only 5% probability of falsely concluding that a blank observation represents a "real" signal. The LLD is an *a priori* lower limit of detection. The actual LLD is dependent upon the standard deviation of the background counting rate, the counting efficiency, the sample size (mass or volume), the radiochemical yield, and the radioactive decay of the sample between sample collection and counting. The "required" LLD's for each sample medium and selected radionuclides are given in the Selected Licensee Commitments and are listed in Table 2.2-C.

MDA - The MDA is the net counting rate (sample after subtraction of background) that must be surpassed before a sample is considered to contain a scientifically measurable amount of a radioactive material exceeding background amounts. The MDA is calculated using a sample background and may be thought of as an "actual" LLD for a particular sample measurement. Certain gross counting measurements display a calculated negative value, indicating background is greater than sample activity.

2.3.3 TREND IDENTIFICATION

One of the purposes of an environmental monitoring program is to determine if there is a buildup of radionuclides in the environment due to the operation of the nuclear station. Visual inspection of tabular or graphical presentations of data (including preoperational) is used to determine if a trend exists. A decrease in a particular radionuclide's concentration in an environmental medium does not indicate that reactor operations are removing radioactivity from the environment but that reactor operations are not adding that radionuclide to the environment in quantities exceeding the preoperational level and that the normal removal processes (radioactive decay, deposition, resuspension, etc.) are influencing the concentration.

Substantial increases or decreases in the amount of a particular radionuclide's release from the nuclear plant will greatly affect the resulting environmental levels; therefore, a knowledge of the release of a radionuclide from the nuclear plant is necessary to completely interpret the trends, or lack of trends, determined from the environmental data. Some factors that may affect environmental levels of radionuclides include prevailing weather conditions (periods of drought, solar cycles or heavier than normal precipitation), construction in or around either the nuclear plant or the sampling location, and addition or deletion of other sources of radioactive materials (such as the Chernobyl accident or the Fukushima accident). Some of these factors may be obvious while others are sometimes unknown. Therefore, how trends are identified will include some judgment by plant personnel.

Figure 2.1-1

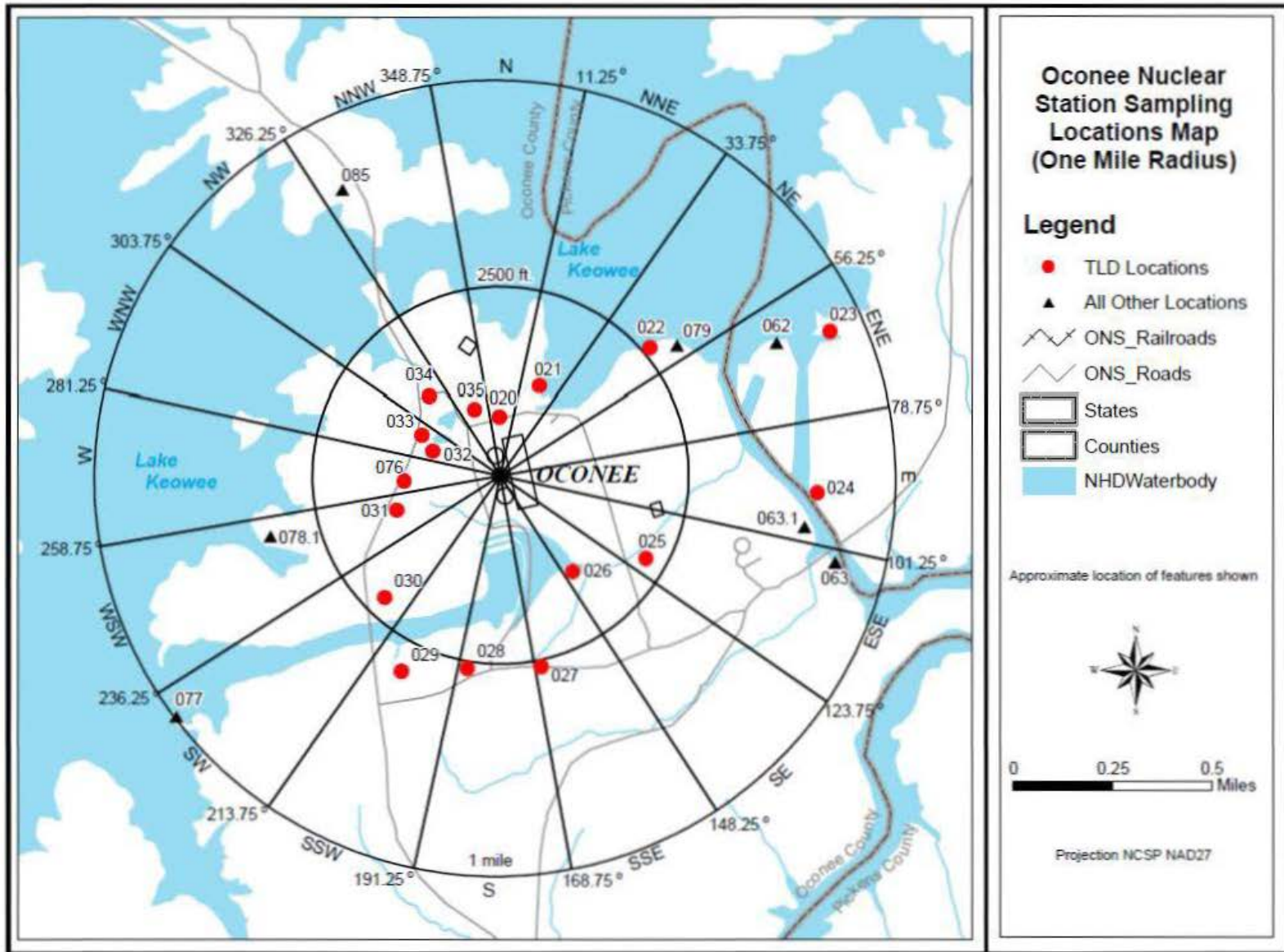


Figure 2.1-2

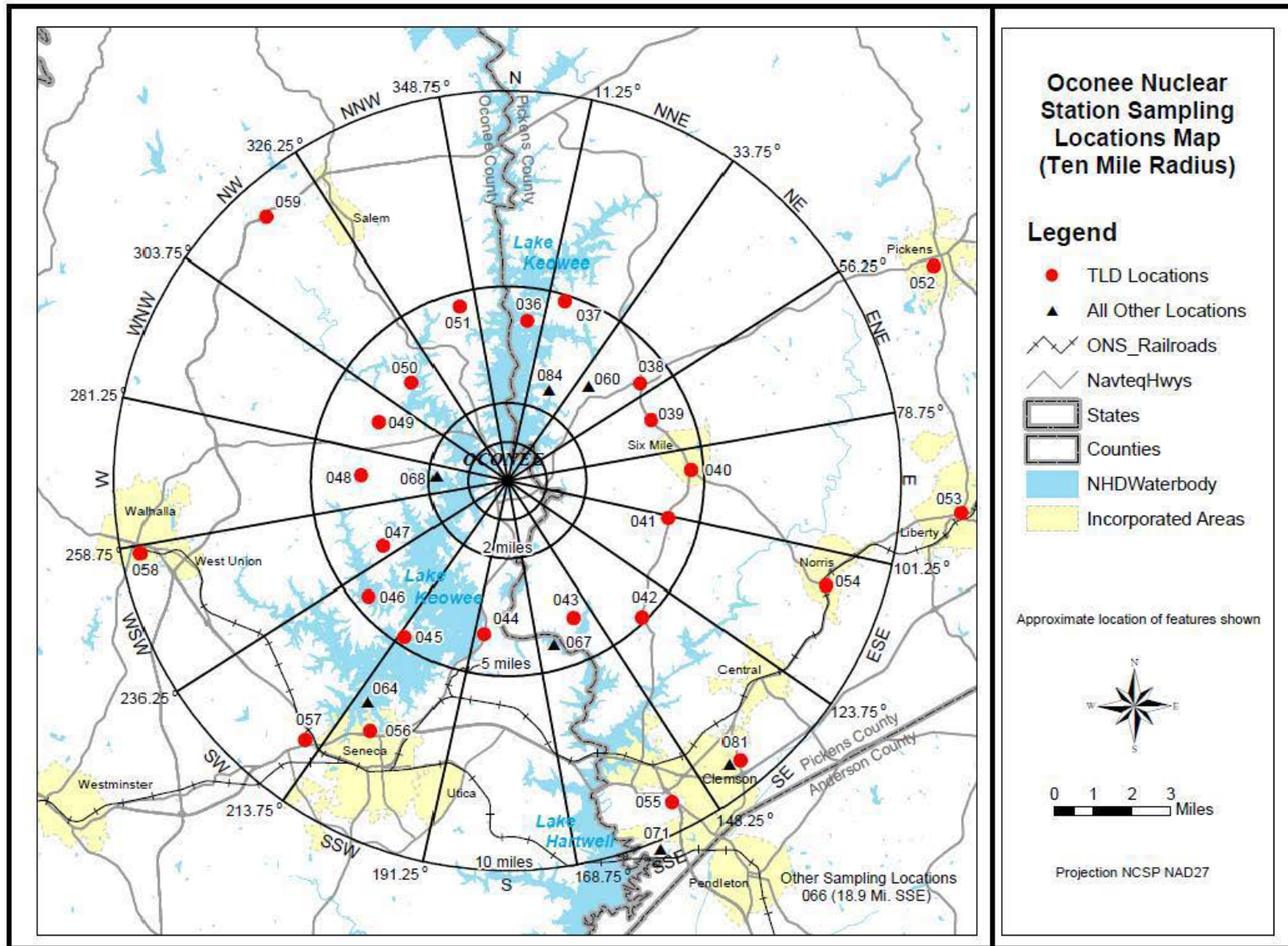


TABLE 2.1-A

**OCONEE RADIOLOGICAL MONITORING PROGRAM
SAMPLING LOCATIONS**

Table 2.1-A Codes			
W	Weekly	SM	Semimonthly
BW	BiWeekly	Q	Quarterly
M	Monthly	SA	Semiannually
C	Control	I	Indicator

Site #	Measure Type	Location Description*	Air Rad. & Particulate	Surface Water	Drinking Water	Shoreline Sediment	Fish	Milk	Broadleaf Vegetation
060	I	Greenville Water Intake Road (3.23 NE)			M				
060	C**	Greenville Water Intake Road (2.28 NE)					SA		
062	C	Lake Keowee Hydro Intake (0.85 mi ENE)		M					
063	I	Lake Hartwell Hwy 183 Bridge (0.80 mi ESE) [000.7]				SA	SA		
063.1	I	Lake Hartwell Hwy 183 (0.79 mi E)		M					
064	C	Seneca Municipal Water Supply(6.67 mi SSW) [004.1]			M				
066	I	Anderson Municipal Water Supply (18.9 mi SSE) [012]			M				
067	I	Lawrence Ramsey Bridge Hwy 27 (4.34 mi SSE) [005.2]				SA	SA		
068	C	High Falls County Park (1.82 mi W)				SA			
071	C	Clemson Dairy (10.2 mi SSE) [006.3]						SM	
077	I	Skimmer Wall (1.00 mi SW)	W						M
078.1	I	Recreation Site (0.53 mi WSW)	W						
079	I	Keowee Dam (0.56 mi NE)	W						M
081	C	Clemson Operations Center (9.33 mi SE)	W						M
084	I	Sue Craig Road (2.58 mi NNE)	W						M
085	I	Lake Services / Building B9125 (0.88 mi NNW)	W						

* GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

** Control for Fish Only

[] Location Numbers prior to 1984

TABLE 2.1-B

**OCONEE RADIOLOGICAL MONITORING PROGRAM
SAMPLING LOCATIONS (TLD SITES)**

Table 2.1-B Codes			
IR	Inner Ring	OR	Outer Ring
C	Control	SI	Special Interest

Site #	Measure Type	Location*	Distance (miles)	Sector	Site #	Measure Type	Location*	Distance (miles)	Sector
020	IR	SITE BOUNDARY	0.16	N	040	OR	MICROWAVE TOWER, SIX MILE	4.74	E
021	IR	SITE BOUNDARY	0.25	NNE	041	OR	JCT HWY 101 & 133	4.25	ESE
022	IR	SITE BOUNDARY	0.53	NE	042	OR	LAWRENCE CHAPEL CHURCH, HWY 133	4.93	SE
023	IR	SITE BOUNDARY	0.93	ENE	043	OR	HWY 291 AT ISSAQUEENA PARK	4.09	SSE
024	IR	SITE BOUNDARY	0.79	E	044	OR	HWY 130 AT LITTLE RIVER DAM	3.96	S
025	IR	SITE BOUNDARY	0.42	ESE	045	OR	TERMINUS OF HWY 588 AT CROOKED CREEK	4.78	SSW
026	IR	SITE BOUNDARY	0.34	SE	046	OR	HWY 188 AT CROOKED CREEK	4.61	SW
027	IR	SITE BOUNDARY	0.49	SSE	047	OR	NEW HOPE CHURCH, HWY 188	3.58	WSW
028	IR	SITE BOUNDARY	0.46	S	048	OR	JCT HWY 175 & 188	3.64	W
029	IR	SITE BOUNDARY	0.56	SSW	049	OR	JCT HWY 201 & 92	3.60	WNW
030	IR	SITE BOUNDARY	0.42	SW	050	OR	STAMP CREEK LANDING, END OF HWY 92	3.53	NW
031	IR	SITE BOUNDARY	0.27	WSW	051	OR	HWY 128, 1 MILE N OF HWY 130	4.64	NNW
076	IR	SITE BOUNDARY	0.19	W	052	SI	DPC BRANCH OFFICE SITE - PICKENS	12.4	ENE
032	IR	SITE BOUNDARY	0.19	WNW	053	SI	DPC BRANCH OFFICE SITE - LIBERTY	11.7	E
033	IR	SITE BOUNDARY	0.21	WNW	054	SI	POST OFFICE - HWY 93 NORRIS	8.60	ESE
034	IR	SITE BOUNDARY	0.22	NW	055	SI	CLEMSON METEOROLOGY PLOT	9.27	SSE
035	IR	SITE BOUNDARY	0.17	NNW	056	SI	WATER TOWER - SENECA	7.30	SSW
036	OR	MILE CREEK LANDING	4.18	N	057	SI	OCONEE MEMORIAL HOSPITAL	8.42	SW
037	OR	KEOWEE CHURCH, HWY 327	4.85	NNE	058	C	BRANCH RD SUBSTATION, WALHALLA	9.39	WSW
038	OR	CONVENIENCE MART, JCT HWY 183 & 133	4.24	NE	059	SI	TAMASSEE DAR SCHOOL	9.20	NW
039	OR	HWY 133, 1 MILE EAST OF JCT HWY 183 & 133	4.02	ENE	081	C	CLEMSON OPERATIONS CENTER	9.33	SE

* GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

TABLE 2.2-A

**REPORTING LEVELS FOR RADIOACTIVITY
CONCENTRATIONS IN ENVIRONMENTAL SAMPLES**

Analysis	Water (pCi/liter)	Air Particulates or Gases (pCi/m ³)	Fish (pCi/kg-wet)	Milk (pCi/liter)	Broadleaf Vegetation (pCi/kg-wet)
H-3	20,000 ^(a)	---	---	---	---
Mn-54	1,000	---	30,000	---	---
Fe-59	400	---	10,000	---	---
Co-58	1,000	---	30,000	---	---
Co-60	300	---	10,000	---	---
Zn-65	300	---	20,000	---	---
Zr-Nb-95	400	---	---	---	---
I-131	2 ^(b)	0.9	---	3	100
Cs-134	30	10	1,000	60	1,000
Cs-137	50	20	2,000	70	2,000
Ba-La-140	200	---	---	300	---

(a) For drinking water samples only. This is 40CFR Part 141 value.

(b) If low-level I-131 analyses are performed.

TABLE 2.2-B

REMP ANALYSIS FREQUENCY

Sample Medium	Analysis Schedule	Gamma Isotopic	Tritium	Low Level I-131	Gross Beta	TLD
Air Radioiodine	Weekly	X	---	---	---	---
AirParticulate	Weekly	---	---	---	X	---
	Quarterly Composite	X	---	---	---	---
Direct Radiation	Quarterly	---	---	---	---	X
Surface Water	Monthly	X	---	---	---	---
	Quarterly Composite	---	X	---	---	---
Drinking Water	Monthly	X	---	(a)	X	---
	Quarterly Composite	---	X	---	---	---
Shoreline Sediment	Semiannually	X	---	---	---	---
Milk	Semimonthly	X	---	X	---	---
Fish	Semiannually	X	---	---	---	---
Broadleaf Vegetation	Monthly	X	---	---	---	---

(a) Low level I-131 analysis will be performed if abnormal releases occur which could reasonably result in > 1 pCi/liter of I-131 in drinking water. An LLD of 1 pCi/liter will be required for this analysis.

TABLE 2.2-C**MAXIMUM VALUES FOR THE LOWER LIMITS OF DETECTION**

Analysis	Water (pCi/liter)	Air Particulates or Gases (pCi/m ³)	Fish (pCi/kg-wet)	Milk (pCi/liter)	Broadleaf Vegetation (pCi/kg-wet)	Sediment (pCi/kg-dry)
Gross Beta	4	0.01	---	---	---	---
H-3	2000	---	---	---	---	---
Mn-54	15	---	130	---	---	---
Fe-59	30	---	260	---	---	---
Co-58, 60	15	---	130	---	---	---
Zn-65	30	---	260	---	---	---
Zr-95	15	---	---	---	---	---
Nb-95	15	---	---	---	---	---
I-131	15 ^(a)	0.07	---	1	60	---
Cs-134	15	0.05	130	15	60	150
Cs-137	18	0.06	150	18	80	180
Ba-La-140	15	---	---	15	---	---

(a) LLD for low-level I-131 analyses is 1 pCi/liter if performed

3.0 INTERPRETATION OF RESULTS

Review of 2014 REMP analysis results was performed to identify changes in environmental levels as a result of station operations. The review is summarized in this section. Data from 2014 was compared to preoperational and historical data. Sample data for some media is not directly comparable to preoperational and earlier operational sample results because of either significant changes in the analysis methods or changes in the reporting of the results. Summary tables containing 2014 information required by Technical Specification Administrative Control 5.6.2 are located in Appendix B. REMP results for 2014 are located in Appendix E.

Evaluation for significant trends was performed for the radionuclides that have required LLDs listed in Selected Licensee Commitment 16.11.6. These radionuclides are collectively referred to as "Selected Licensee Commitments radionuclides" and include H-3, Mn-54, Fe-59, Co-58, Co-60, Zn-65, Zr-95, Nb-95, I-131, Cs-134, Cs-137, Ba-140, and La-140. Drinking water gross beta results are routinely trended. Trending of air particulate gross beta results was initiated in 1996 when the analysis was resumed. Trending is also performed for other radionuclides that are detected and could have been the result of station effluents. Only Selected Licensee Commitment radionuclides were detected in 2014.

Trending was performed by comparing annual mean concentrations of any effluent related detected radionuclide to historical results. Factors evaluated include the frequency of detection and the concentration in terms of the percent of the radionuclide's SLC reporting level (Table 2.2-A). All maximum percent of reporting level values were well below the 100% action level. The highest value reached during 2014 due to ONS operation was 1.46% for H-3 in a drinking water sample collected at location 066.

Changes in sample location, analytical technique, and presentation of results must be considered when reviewing for trends. Calculation of the annual mean concentrations has been performed differently over the history of the REMP. During 1979-1986, all net results (sample minus background), positive and negative, were included in the calculation of the mean. Only positive net activity results were used to calculate the mean for the other years. A change in gamma spectroscopy analysis systems in 1987 ended a period when many measurements yielded detectable low-level activity for both indicator and control location samples. It is thought that the method the previous system used to estimate net activity may have been vulnerable to false-positive results.

Data presented in Sections 3.1 - 3.8 support the conclusion that there were no significant increases in radionuclides in the environment around ONS due to station operations in 2014.

3.1 AIRBORNE RADIOIODINE AND PARTICULATES

In 2014, 312 radioiodine and particulate samples were analyzed, 260 from five indicator locations and 52 from the control location. Particulate samples were analyzed weekly for gross beta. A quarterly gamma analysis was performed on the quarterly filter composite (by location). Radioiodine samples received a weekly gamma analysis.

There was no detectable I-131 in air samples in 2014. Table 3.1-A gives the highest indicator location annual mean and control location annual mean for I-131 since the preoperational period. The table shows similar historical concentrations for both the indicator and control locations and the activities decreasing from early in the operational history of the plant. No I-131 activity due to ONS plant operations has been detected since 1994.

There were no detectable gamma emitting radionuclides detected in air particulate samples in 2014 due to ONS plant operations. No gamma emitting particulates due to ONS plant operations have been detected in indicator location samples since the change in gamma spectroscopy analysis systems in 1987.

Beta analysis of particulate filters was initiated in March of 1996 and became required by Selected Licensee Commitments in 1998. Gross beta analysis was performed on particulate filters during the preoperational and early operational history of the plant but had not been required since 1984. Figure 3.1 summarizes gross beta results for the indicator location with the highest annual mean and the control location samples. Both the indicator and control location results are similar in concentration and are near the lower range of preoperational gross beta results which ranged from 0.04 to 1.46 pCi/m³.

K-40 and Be-7 observed in air samples are naturally occurring radionuclides.

Table 3.1-A Mean Concentration of Air Radioiodine (I-131)

Year	Indicator Location (pCi/m ³)	Control Location (pCi/m ³)
Preoperational 1969-1972	0.00E0	0.00E0
Feb. 1973 - June 1973	0.00E0	0.00E0
July 1973 - Dec. 1973	0.00E0	0.00E0
Jan. 1974 - June 1974	0.00E0	0.00E0
July 1974 - Dec. 1974	2.60E-2	8.00E-3
Jan. 1975 - June 1975	8.65E-2	3.12E-2
July 1975 - Dec. 1975	1.13E-2	9.52E-3
1976	2.76E-2	2.18E-2
1977	3.60E-2	3.60E-2
1978	2.19E-1	1.15E-1
1979	7.54E-3	4.75E-4
1980	3.07E-3	9.67E-4
1981	6.31E-3	5.39E-4
1982	2.87E-3	8.10E-4
1983	1.48E-3	3.05E-4
1984	8.11E-4	-2.30E-5
1985	7.71E-4	4.54E-4
1986	5.02E-3	7.86E-3
1987 ⁽¹⁾	4.29E-3	5.19E-3
1988	0.00E0	0.00E0
1989	4.99E-4	0.00E0
1990	0.00E0	0.00E0
1991	0.00E0	0.00E0
1992	0.00E0	0.00E0
1993	0.00E0	0.00E0
1994	1.03E-2	0.00E0
1995	0.00E0	0.00E0
1996	0.00E0	0.00E0
1997	0.00E0	0.00E0
1998	0.00E0	0.00E0
1999	0.00E0	0.00E0
2000	0.00E0	0.00E0
2001	0.00E0	0.00E0
2002	0.00E0	0.00E0
2003	0.00E0	0.00E0
2004	0.00E0	0.00E0
2005	0.00E0	0.00E0
2006	0.00E0	0.00E0
2007	0.00E0	0.00E0
2008	0.00E0	0.00E0
2009	0.00E0	0.00E0
2010	0.00E0	0.00E0
2011	5.05E-2	4.13E-2
2012	0.00E0	0.00E0
2013	0.00E0	0.00E0
2014 ⁽²⁾	0.00E0	0.00E0

0.00E0 indicates no detectable measurements

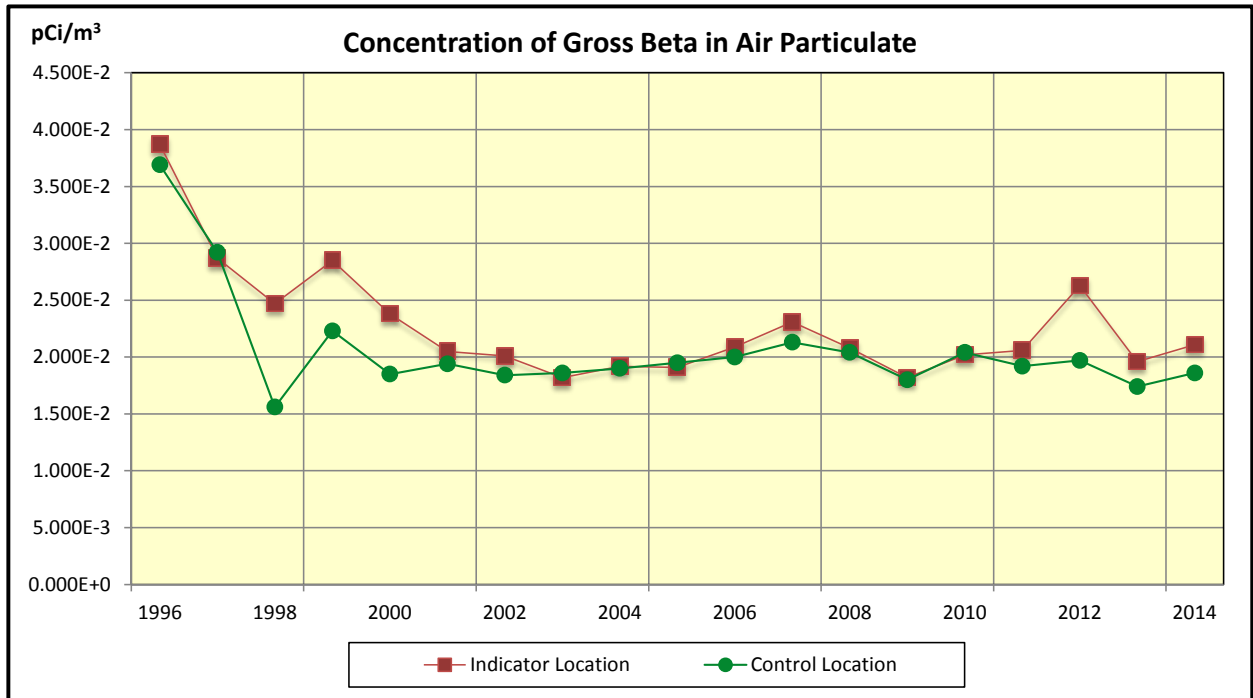
1979 - 1986 mean based on all net activity

2011 concentration affected by Fukushima Daiichi

(1) 1987 – Gamma spectroscopy system change

(2) 2014 – Gamma spectroscopy system change

Figure 3.1



There is no reporting level for gross beta in air particulate

Table 3.1-B Mean Concentration of Gross Beta in Air Particulate

Monitoring Period	Indicator Location (pCi/m ³)	Control Location (pCi/m ³)
1996	3.87E-2	3.69E-2
1997	2.87E-2	2.92E-2
1998	2.47E-2	1.56E-2
1999	2.85E-2	2.23E-2
2000	2.38E-2	1.85E-2
2001	2.05E-2	1.94E-2
2002	2.01E-2	1.84E-2
2003	1.86E-2	1.82E-2
2004	1.92E-2	1.90E-2
2005	1.95E-2	1.91E-2
2006	2.09E-2	2.00E-2
2007	2.31E-2	2.13E-2
2008	2.08E-2	2.04E-2
2009	1.82E-2	1.80E-2
2010	2.02E-2	2.04E-2
2011	2.06E-2	1.92E-2
2012	2.63E-2	1.97E-2
2013	1.96E-2	1.74E-2
Average (2004 - 2013)	2.08E-2	1.95E-2
2014	2.11E-2	1.86E-2

3.2 DRINKING WATER

Gross beta analysis and gamma spectroscopy were performed on 39 monthly drinking water samples. These samples were composited to form 12 quarterly period samples for Tritium analysis. Two indicator locations and a control location were sampled; however, only one of the indicator locations is downstream of the effluent release point.

Table 3.2 lists the highest indicator location annual mean and control location annual mean for gross beta results since the preoperational period. The indicator location had an average concentration of 1.43 pCi/liter in 2014, and the control location had a concentration of 1.12 pCi/liter. For comparison purposes, the 2013 indicator mean was 1.57 pCi/liter. The table shows that 2014 gross beta levels in drinking water are lower than preoperational concentrations. The dose for consumption of water was less than one mrem per year, historically and for 2014; therefore low-level iodine analysis is not required.

Tritium was detected in two of the twelve composite samples during 2014. The 2014 mean indicator location 066 concentration was 292 pCi/liter, which is 1.46% of the 20,000 pCi/l Tritium reporting level. Table 3.2 and Figure 3.2 show the highest indicator and control location annual means for Tritium since analysis was initiated early in the operational period. Tritium concentrations have decreased at both the indicator and control locations. The closure of the Clemson water plant in 1989 is one reason for the decrease shown in the table and graph. The Clemson site was typically the high mean location when the plant was in operation.

There were no gamma emitting radionuclides attributable to plant operations identified in drinking water samples in 2014. Gamma spectroscopy analysis has not detected any gamma activity in the water supplies since 1988. K-40 observed in drinking water samples is a naturally occurring radionuclide.

Figure 3.2 *Current reporting level implemented 1984*

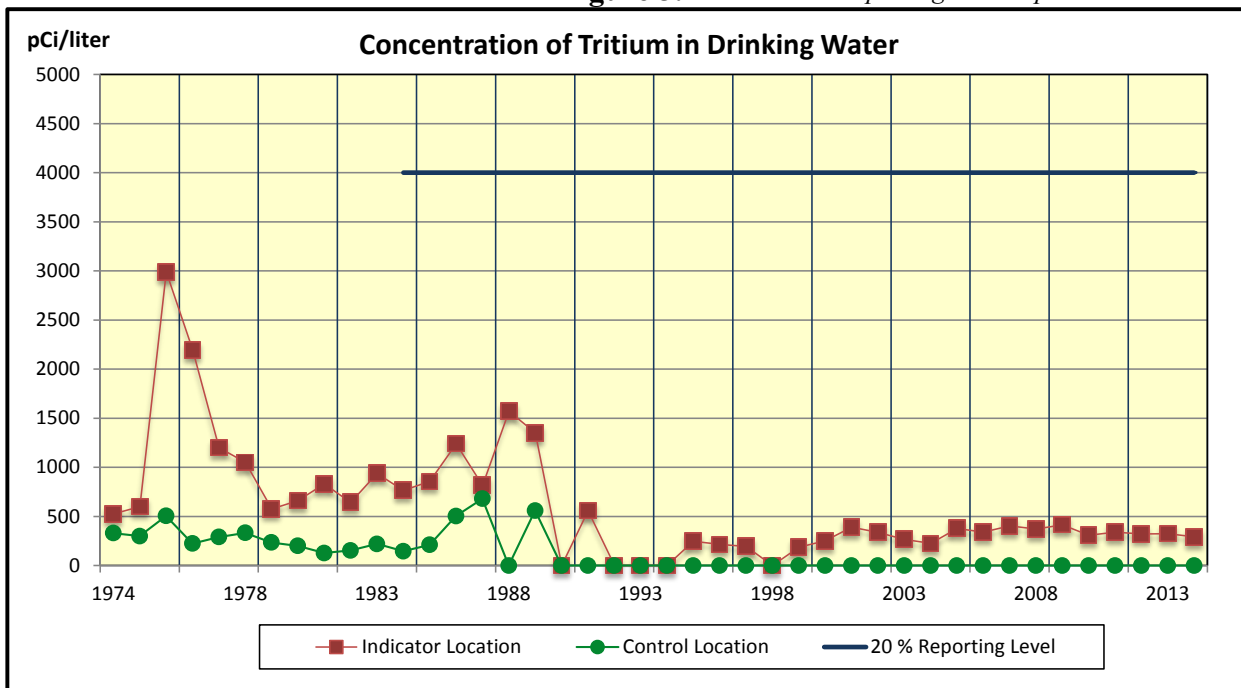


Table 3.2 Mean Concentrations of Radionuclides in Drinking Water

Year	Gross Beta (pCi/l)		Tritium (pCi/l)	
	Indicator Location	Control Location	Indicator Location	Control Location
Preoperational ending Jan. 1971	3.03	5.90	Analysis not required	
Preoperational ending Jan. 1973	3.58	4.94	Analysis not required	
Feb. 1973 - June 1973	Qualitative results reported		Analysis not required	
June 1973 - Dec. 1973	7.15	21.78	Analysis not required	
Jan. 1974 - June 1974	3.13	6.98	Analysis not required	
July 1974 - Dec. 1974	2.24	2.02	525	330
Jan. 1975 - June 1975	1.98	1.59	600	300
July 1975 - Dec. 1975	2.01	1.22	2990	505
1976	2.38	2.00	2196	224
1977	2.70	2.30	1200	290
1978	2.56	2.17	1050	333
1979	1.83	1.36	576	235
1980	1.86	1.63	660	200
1981	1.98	1.88	830	127
1982	2.04	1.45	643	153
1983	1.85	1.54	937	220
1984	1.87	1.08	765	145
1985	2.14	1.16	856	210
1986	1.91	1.04	1240	503
1987	2.00	1.20	815	680
1988	2.00	1.40	1570	0.00
1989	2.30	1.80	1350	559
1990	3.00	2.70	0.00	0.00
1991	1.80	1.40	558	0.00
1992	3.20	1.60	0.00	0.00
1993	2.10	1.90	0.00	0.00
1994	1.90	2.10	0.00	0.00
1995	5.10	2.90	248	0.00
1996	2.07	1.77	214	0.00
1997	2.52	2.23	194	0.00
1998	2.48	1.70	0.00	0.00
1999	1.73	1.49	185	0.00
2000	2.07	1.68	251	0.00
2001	1.75	1.29	390	0.00
2002	1.61	1.21	338	0.00
2003	1.51	1.05	266	0.00
2004	1.58	1.25	225	0.00
2005	1.28	1.37	377	0.00
2006	1.54	1.75	340	0.00
2007	1.58	1.08	402	0.00
2008	1.82	1.25	372	0.00
2009	1.37	1.19	415	0.00
2010	1.10	0.97	308	0.00
2011	1.18	1.00	339	0.00
2012	1.40	0.92	322	0.00
2013	1.57	1.11	325	0.00
2014	1.43	1.12	292	0.00

0.00 indicates no detectable measurements

1989 - Clemson water plant closes; nearest downstream plant is Anderson.

1979 - 1986 mean based on all net activity results

3.3 SURFACE WATER

Gamma spectroscopy was performed on 26 monthly surface water samples. These samples were composited to form eight quarterly samples for Tritium analysis. One indicator and one control location were sampled. The indicator location is near the liquid effluent release point.

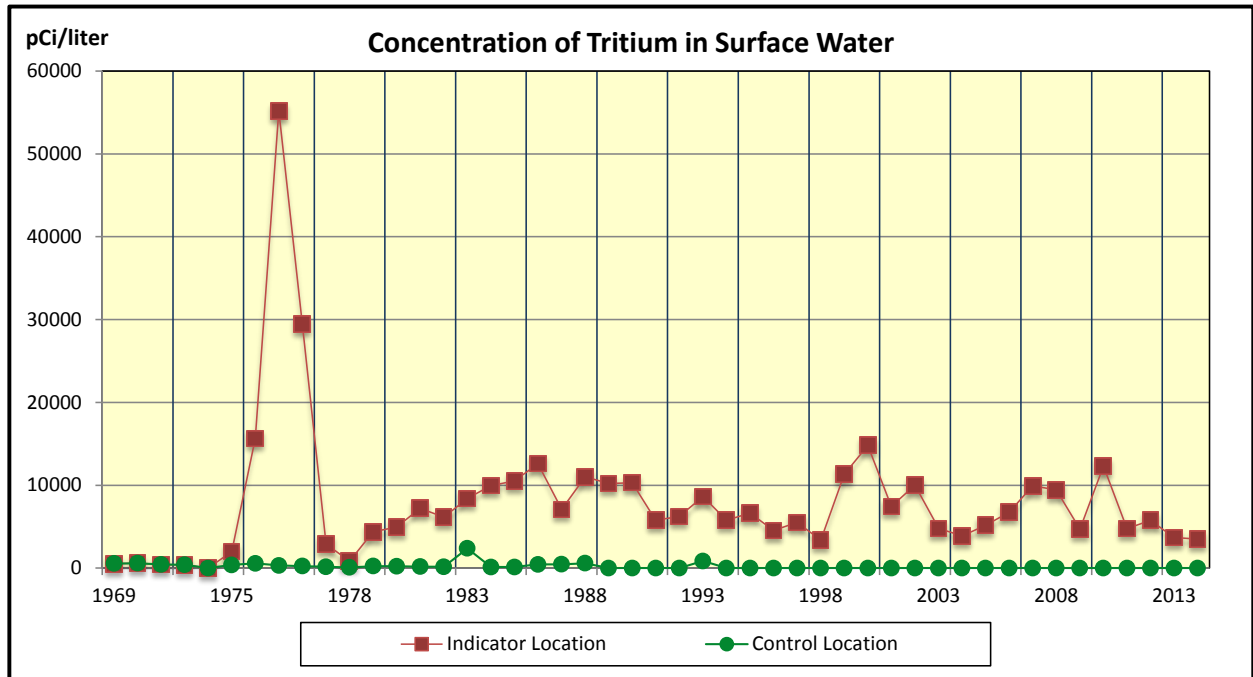
Tritium was detected in the four indicator location samples. The 2014 average concentration was 3,493 pCi/liter. The individual samples ranged from 1,420 to 6,960 pCi/liter. For comparison purposes, the 2013 mean concentration was 3,683 pCi/liter. Tritium was not detected in any control surface water samples.

Figure 3.3 shows the indicator and control annual means for Tritium since the preoperational period. Table 3.3 lists the indicator annual means.

Gamma spectroscopy analysis did not detect any station related gamma activity during 2014. No gamma emitting radionuclides attributable to station operation have been detected in surface water samples since 1999. Table 3.3 summarizes the indicator annual means of radionuclides detected since the change in the gamma spectroscopy analysis system in 1987. Visual inspection of the gamma spectroscopy tabular data covering the early operational period through 2014 did not reveal any increasing trends.

K-40 and Be-7 observed in surface water samples are naturally occurring radionuclides.

Figure 3.3



There is no reporting level for Tritium in surface water

Table 3.3 Mean Concentrations of Radionuclides in Surface Water

Year	Co-58 (pCi/l)	Co-60 (pCi/l)	Nb-95 (pCi/l)	Cs-137 (pCi/l)	H-3 pCi/l)
Preoperational 1969		Qualitative results reported			4.86E2
Preoperational 1970		Qualitative results reported			5.94E2
Preoperational 1971		Qualitative results reported			4.01E2
Preoperational 1972		Qualitative results reported			3.62E2
1973		Qualitative results reported			0.00E0
1974	0.00E0	1.32E1	0.00E0	1.60E1	1.99E3
Jan. 1975 – June 1975	0.00E0	0.00E0	0.00E0	0.00E0	1.56E4
July 1975 – Dec. 1975	0.00E0	1.34E1	0.00E0	0.00E0	5.52E4
1976	1.08E2	3.30E1	0.00E0	3.50E1	2.95E4
1977	2.60E1	1.80E1	0.00E0	3.10E1	2.90E3
1978	2.96E2	0.00E0	0.00E0	2.22E1	8.00E2
1979	1.33E0	2.60E0	1.78E0	2.82E0	4.37E3
1980	1.56E0	2.30E0	1.22E0	5.40E0	4.93E3
1981	1.10E0	6.10E-1	1.70E0	3.90E0	7.21E3
1982	6.14E-1	1.99E0	2.29E0	4.85E0	6.13E3
1983	6.99E-1	3.02E0	3.91E-1	6.83E-1	8.40E3
1984	9.40E-1	6.30E-1	7.90E-1	4.83E-1	9.90E3
1985	2.15E-1	6.27E-1	4.95E-1	9.90E-1	1.05E4
1986	3.28E0	1.23E0	1.14E0	3.07E-1	1.26E4
1987 ⁽¹⁾	5.10E1	3.40E0	4.00E0	0.00E0	7.08E3
1988	6.20E0	5.00E0	2.50E0	3.50E0	1.10E4
1989	5.30E0	3.00E0	0.00E0	3.40E0	1.02E4
1990	1.70E0	1.60E0	0.00E0	0.00E0	1.03E4
1991	5.40E0	0.00E0	0.00E0	0.00E0	5.76E3
1992	2.50E0	0.00E0	0.00E0	0.00E0	6.22E3
1993	0.00E0	0.00E0	0.00E0	0.00E0	8.62E3
1994	0.00E0	0.00E0	0.00E0	0.00E0	5.75E3
1995	0.00E0	0.00E0	0.00E0	0.00E0	6.65E3
1996	0.00E0	0.00E0	0.00E0	0.00E0	4.54E3
1997	0.00E0	0.00E0	0.00E0	0.00E0	5.50E3
1998	0.00E0	0.00E0	0.00E0	0.00E0	3.35E3
1999	2.73E1	0.00E0	0.00E0	0.00E0	1.13E4
2000	0.00E0	0.00E0	0.00E0	0.00E0	1.48E4
2001	0.00E0	0.00E0	0.00E0	0.00E0	7.43E3
2002	0.00E0	0.00E0	0.00E0	0.00E0	1.00E4
2003	0.00E0	0.00E0	0.00E0	0.00E0	4.77E3
2004	0.00E0	0.00E0	0.00E0	0.00E0	3.86E3
2005	0.00E0	0.00E0	0.00E0	0.00E0	5.15E3
2006	0.00E0	0.00E0	0.00E0	0.00E0	6.72E3
2007	0.00E0	0.00E0	0.00E0	0.00E0	9.91E3
2008	0.00E0	0.00E0	0.00E0	0.00E0	9.43E3
2009	0.00E0	0.00E0	0.00E0	0.00E0	4.68E3
2010	0.00E0	0.00E0	0.00E0	0.00E0	1.23E4
2011	0.00E0	0.00E0	0.00E0	0.00E0	4.75E3
2012	0.00E0	0.00E0	0.00E0	0.00E0	5.76E3
2013	0.00E0	0.00E0	0.00E0	0.00E0	3.68E3
2014 ⁽²⁾	0.00E0	0.00E0	0.00E0	0.00E0	3.49E3

0.00E0 indicates no detectable measurements

1979-1986 mean based on all net activity results

(1) 1987 – Gamma spectroscopy system change

(2) 2014 – Gamma spectroscopy system change

3.4 MILK

Gamma spectroscopy and low level iodine analysis was performed on 26 milk samples collected from the control location in 2014. No indicator dairies were sampled during 2014 and none were identified by the 2014 land use census.

There were no gamma emitting radionuclides due to ONS plant operations identified in milk samples in 2014. Cs-137 is the only radionuclide, other than naturally occurring, reported in milk samples since 1988 (excluding Fukushima Daiichi). Cs-137 in milk is not unusual. It is a constituent of nuclear weapons test fallout and nuclear plant accidents and has been observed periodically in samples from indicator and control locations since the preoperational period.

Table 3.4 lists the highest indicator location annual mean and control location annual mean for Cs-137 since the preoperational period. The table shows similar concentrations for both indicator and control locations.

K-40 observed in milk samples is a naturally occurring radionuclide.

Table 3.4 Mean Concentration of Radionuclides in Milk

Year	Cs-137 Indicator (pCi/l)	Cs-137 Control (pCi/l)
Preoperational	1.57E1	1.46E1
Feb. 1973 – June 1973	Qualitative results reported	Qualitative results reported
July 1973 – Dec. 1973	5.80E0	Qualitative results reported
Jan. 1974 – June 1974	5.30E0	0.00E0
July 1974 – Dec. 1974	1.11E1	0.00E0
Jan. 1975 – June 1975	1.51E1	9.45E0
July 1975 – Dec. 1975	0.00E0	0.00E0
1976	1.80E1	7.47E0
1977	0.00E0	0.00E0
1978	1.33E1	1.33E1
1979	7.25E0	2.52E0
1980	3.58E0	2.63E0
1981	5.52E0	5.51E0
1982	2.71E0	3.25E0
1983	5.04E0	-4.27E-1
1984	2.30E0	2.58E0
1985	2.38E0	1.31E0
1986	2.92E0	2.97E0
1987 ⁽¹⁾	4.90E0	4.90E0
1988	3.90E0	3.20E0
1989	4.70E0	2.90E0
1990	6.40E0	0.00E0
1991	5.00E0	0.00E0
1992	6.60E0	0.00E0
1993	0.00E0	0.00E0
1994	0.00E0	1.80E0
1995	2.30E0	2.00E0
1996	0.00E0	4.10E0
1997	0.00E0	0.00E0
1998	0.00E0	0.00E0
1999	0.00E0	0.00E0
2000	0.00E0	0.00E0
2001	0.00E0	0.00E0
2002	0.00E0	0.00E0
2003	0.00E0	0.00E0
2004	0.00E0	0.00E0
2005	0.00E0	0.00E0
2006	No Indicator Location	0.00E0
2007	No Indicator Location	0.00E0
2008	No Indicator Location	0.00E0
2009	No Indicator Location	0.00E0
2010	No Indicator Location	0.00E0
2011	No Indicator Location	0.00E0
2012	No Indicator Location	0.00E0
2013	No Indicator Location	0.00E0
2014 ⁽²⁾	No Indicator Location	0.00E0

0.00E0 indicates no detectable measurements

1979 - 1986 mean based on all net activity results

(1) 1987 – Gamma spectroscopy system change

(2) 2014 – Gamma spectroscopy system change

The Oconee milk program was updated to align with NUREG-1301 during 2005 and documented in PIP O-04-01179. Location 071 was designated as the new control site effective with the 7/12/2005 sampling. No indicator dairies were identified by the 2014 land use census.

3.5 BROADLEAF VEGETATION

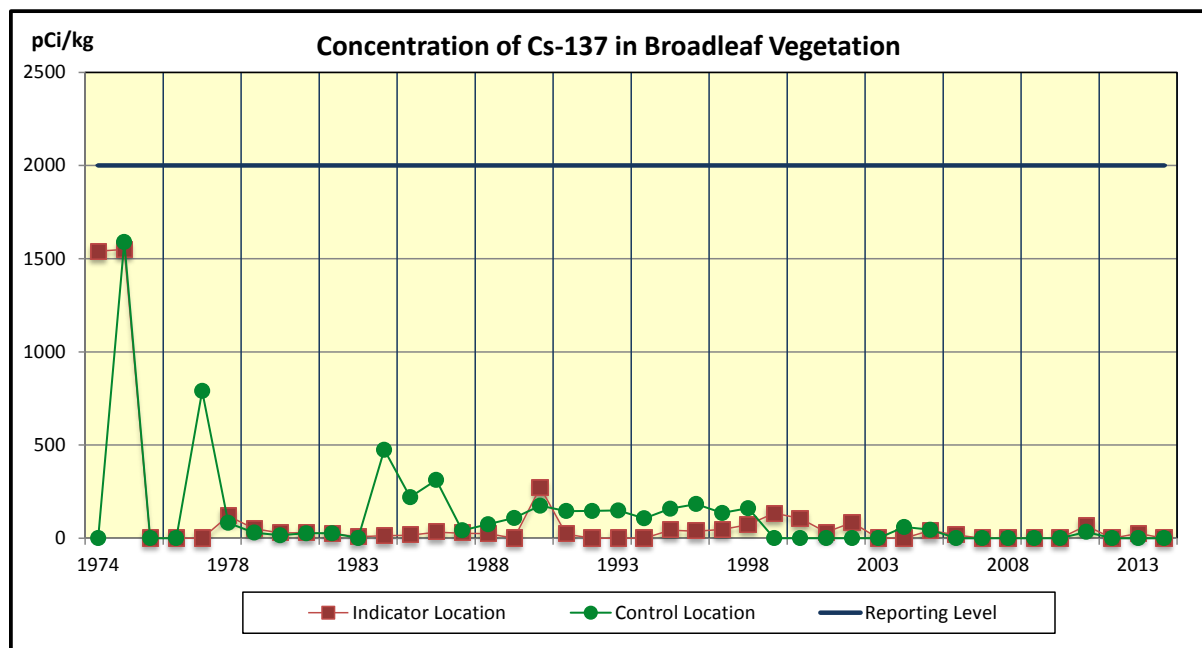
Gamma spectroscopy was performed on 48 broadleaf vegetation samples during 2014. Three indicator locations and one control location were sampled. There were no gamma emitting radionuclides attributable to ONS station operation identified in vegetation samples in 2014.

Cs-137 is the only radionuclide, other than naturally occurring, reported in vegetation samples since the change in gamma spectroscopy analysis systems in 1987. Figure 3.5 shows the indicator and control annual means for Cs-137 since the early operational period of the plant. Table 3.5 shows historical concentrations of Cs-137.

It is not unusual for Cs-137 to be present in vegetation. It is a constituent of nuclear weapons test fallout and nuclear plant accidents and has been observed in samples from indicator and control locations since the preoperational period. Table 3.5 lists the highest indicator location annual mean and control location annual mean for Cs-137 since early in the station's operational history. Visual inspection of the tabular data did not reveal any increasing trends.

K-40 and Be-7 observed in broadleaf vegetation samples are naturally occurring radionuclides.

Figure 3.5



2011 concentration affected by Fukushima Daiichi

Table 3.5 Mean Concentration of Radionuclides in Vegetation

Year	Cs-137 Indicator (pCi/kg)	Cs-137 Control (pCi/kg)
July 1974 - Dec. 1974	1.54E3	0.00E0
Jan. 1975 - June 1975	1.55E3	1.59E3
July 1975 - Dec. 1975	0.00E0	0.00E0
1976	0.00E0	0.00E0
1977	0.00E0	7.90E2
1978	1.19E2	8.19E1
1979	5.04E1	2.96E1
1980	2.80E1	1.55E1
1981	2.99E1	2.60E1
1982	2.42E1	2.62E1
1983	7.44E0	5.35E-1
1984	1.37E1	4.74E2 [†]
1985	1.62E1	2.20E2
1986	3.28E1	3.12E2
1987 ⁽¹⁾	2.70E1	4.20E1
1988	2.40E1	7.50E1
1989	0.00E0	1.08E2
1990	2.73E2	1.74E2
1991	2.20E1	1.45E2
1992	0.00E0	1.46E2
1993	0.00E0	1.49E2
1994	0.00E0	1.06E2
1995	4.30E1	1.58E2
1996	3.79E1	1.83E2
1997	4.73E1	1.35E2
1998	7.28E1	1.61E2 ^{††}
1999	1.34E2	0.00E0 ^{†††}
2000	1.06E2	0.00E0
2001	3.19E1	0.00E0
2002	8.44E1	0.00E0
2003	0.00E0	0.00E0
2004	0.00E0	5.96E1
2005	4.51E1	4.11E1
2006	1.77E1	0.00E0
2007	0.00E0	0.00E0
2008	0.00E0	0.00E0
2009	0.00E0	0.00E0
2010	0.00E0	0.00E0
2011	6.68E1 ^{††††}	3.35E1 ^{††††}
2012	0.00E0	0.00E0
2013	2.57E1	0.00E0
2014 ⁽²⁾	0.00E0	0.00E0

0.00E0 indicates no detectable measurements

Qualitative results reported prior to 1974

1979 - 1986 mean based on all net activity

(1) 1987 – Gamma spectroscopy system change

(2) 2014 – Gamma spectroscopy system change

† Control location changed to 073 in 1984

†† Control location 081 added in 1998

††† Control location 073 removed in 1999

†††† 2011 concentration affected by Fukushima Daiichi

3.6 FISH

In 2014, gamma spectroscopy was performed on 12 fish samples. Two downstream indicator and one control location were sampled. Cs-137 was identified in two of the eight indicator location samples. Cs-137 was detected in two of the four control location samples at a mean concentration of 8.82 pCi/kg. The highest average indicator concentration for Cs-137 was 14.0 pCi/kg (0.7% of reporting level).

Figures 3.6-1 and 3.6-2 are graphs displaying the annual means for Cs-137 and Cs-134. Historically, both are contributors to the calculated dose from liquid effluents from ingestion of fish. Radioactivity concentrations in downstream fish samples are higher than those reported in preoperational fish samples, however, concentrations in fish have decreased over time with decreases in radioactive material releases from the plant.

One factor affecting the trend analysis is a change in sampling locations. In 1984, a second downstream fish location was added. Location 063 is closer to the liquid effluent discharge point and has been the highest mean indicator since it was added.

Table 3.6 lists the highest indicator location annual means since the preoperational period for radionuclides detected in 2014. Also included in the table are radionuclides that have been identified in this media since the change in analysis systems in 1987. Comparison of data to previous years does not indicate any increases in concentrations.

K-40 observed in fish samples is a naturally occurring radionuclide.

Figure 3.6-1

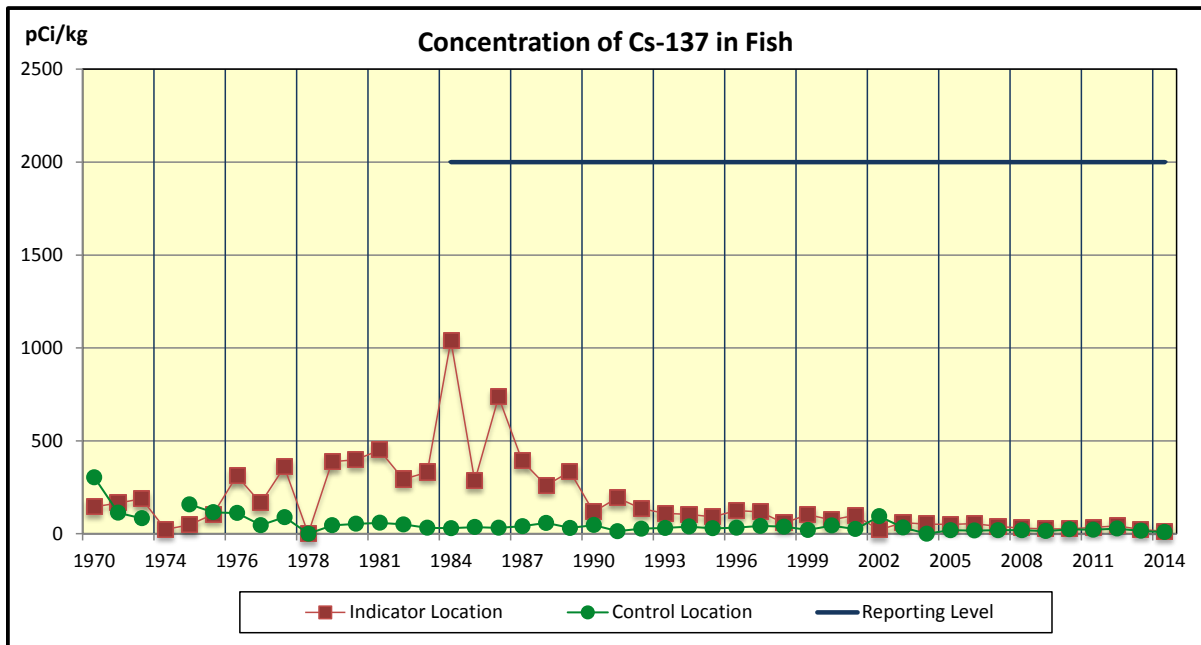
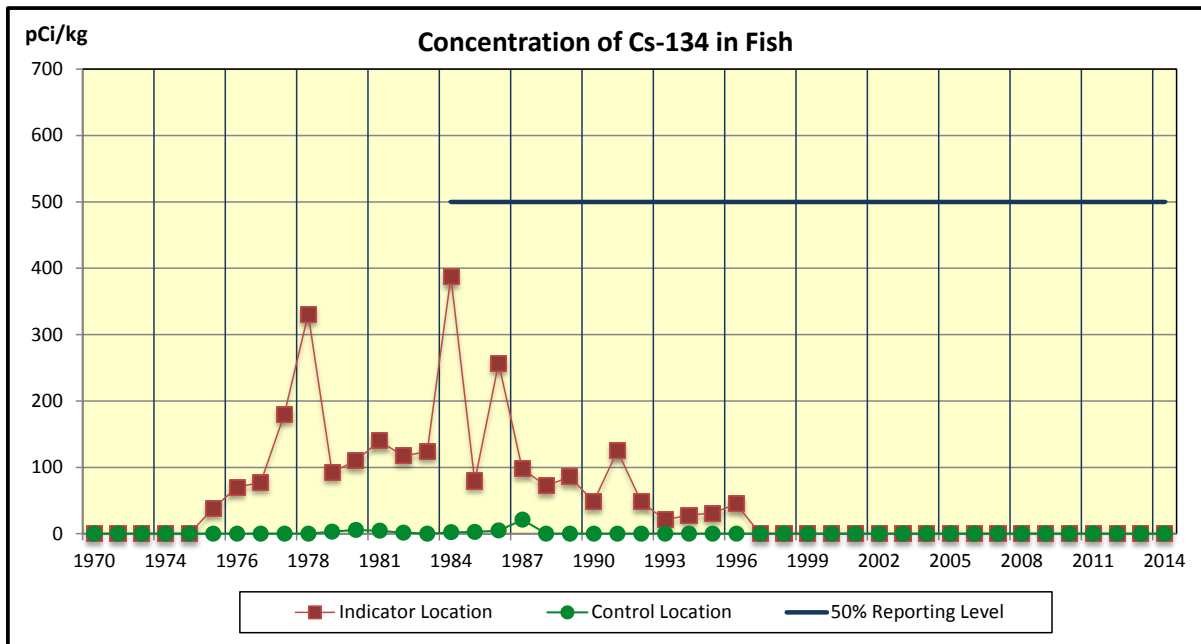


Figure 3.6-2



Current reporting levels implemented 1984

Table 3.6 Mean Concentrations of Radionuclides in Fish

Year	Co-58 (pCi/kg)	Co-60 (pCi/kg)	Cs-134 (pCi/kg)	Cs-137 (pCi/kg)
Preop ending Jan.1971	0.00E0	0.00E0	0.00E0	1.46E2
Preop ending Jan.1973	0.00E0	0.00E0	0.00E0	1.66E2
Feb. 1973 - June 1973	Qualitative results reported-no significant measurements above background			
July 1973 - Dec. 1973	0.00E0	0.00E0	0.00E0	1.89E2
Jan. 1974 - June 1974	0.00E0	0.00E0	0.00E0	2.47E1
July 1974 - Dec. 1974	0.00E0	0.00E0	0.00E0	4.85E1
Jan. 1975 - June 1975	0.00E0	0.00E0	3.81E1	1.05E2
July 1975 - Dec. 1975	8.50E1	0.00E0	7.00E1	3.13E2
1976	5.70E1	1.14E2	7.73E1	1.66E2
1977	0.00E0	0.00E0	1.80E2	3.60E2
1978	3.27E2	0.00E0	3.31E2	0.00E0
1979	1.91E0	1.56E1	9.26E1	3.88E2
1980	1.45E1	1.90E1	1.10E2	3.99E2
1981	2.25E1	1.49E1	1.40E2	4.51E2
1982	9.83E-1	8.03E0	1.17E2	2.94E2
1983	3.35E1	4.53E0	1.24E2	3.32E2
1984	1.21E2	6.23E1	3.87E2	1.04E3
1985	1.62E1	1.10E1	7.93E1	2.85E2
1986	9.56E1	2.59E1	2.57E2	7.36E2
1987 ⁽¹⁾	1.63E2	6.30E1	9.80E1	3.93E2
1988	9.60E1	0.00E0	7.20E1	2.60E2
1989	4.30E1	1.50E1	8.60E1	3.36E2
1990	1.50E1	0.00E0	4.80E1	1.19E2
1991	4.59E1	0.00E0	1.25E2	1.94E2
1992	6.10E1	0.00E0	4.80E1	1.36E2
1993	0.00E0	0.00E0	2.10E1	1.10E2
1994	0.00E0	0.00E0	2.80E1	1.05E2
1995	0.00E0	0.00E0	3.10E1	9.20E1
1996	0.00E0	0.00E0	4.49E1	1.25E2
1997	0.00E0	0.00E0	0.00E0	1.18E2
1998	0.00E0	0.00E0	0.00E0	5.79E1
1999	0.00E0	0.00E0	0.00E0	1.04E2
2000	0.00E0	0.00E0	0.00E0	7.54E1
2001	1.72E1	0.00E0	0.00E0	9.92E1
2002	0.00E0	0.00E0	0.00E0	9.37E1
2003	5.02E1	0.00E0	0.00E0	6.04E1
2004	0.00E0	0.00E0	0.00E0	5.29E1
2005	0.00E0	0.00E0	0.00E0	5.14E1
2006	0.00E0	0.00E0	0.00E0	5.58E1
2007	0.00E0	0.00E0	0.00E0	4.10E1
2008	0.00E0	0.00E0	0.00E0	3.13E1
2009	9.01E0	0.00E0	0.00E0	2.68E1
2010	0.00E0	0.00E0	0.00E0	2.69E1
2011	0.00E0	0.00E0	0.00E0	3.53E1
2012	1.23E2	3.61E1	0.00E0	4.32E1
2013	0.00E0	0.00E0	0.00E0	2.44E1
2014 ⁽²⁾	0.00E0	0.00E0	0.00E0	1.40E1

0.00E0 indicates no detectable measurements

1979 - 1986 mean based on all net activity

(1) 1987 – Gamma spectroscopy system change

(2) 2014 – Gamma spectroscopy system change

3.7 SHORELINE SEDIMENT

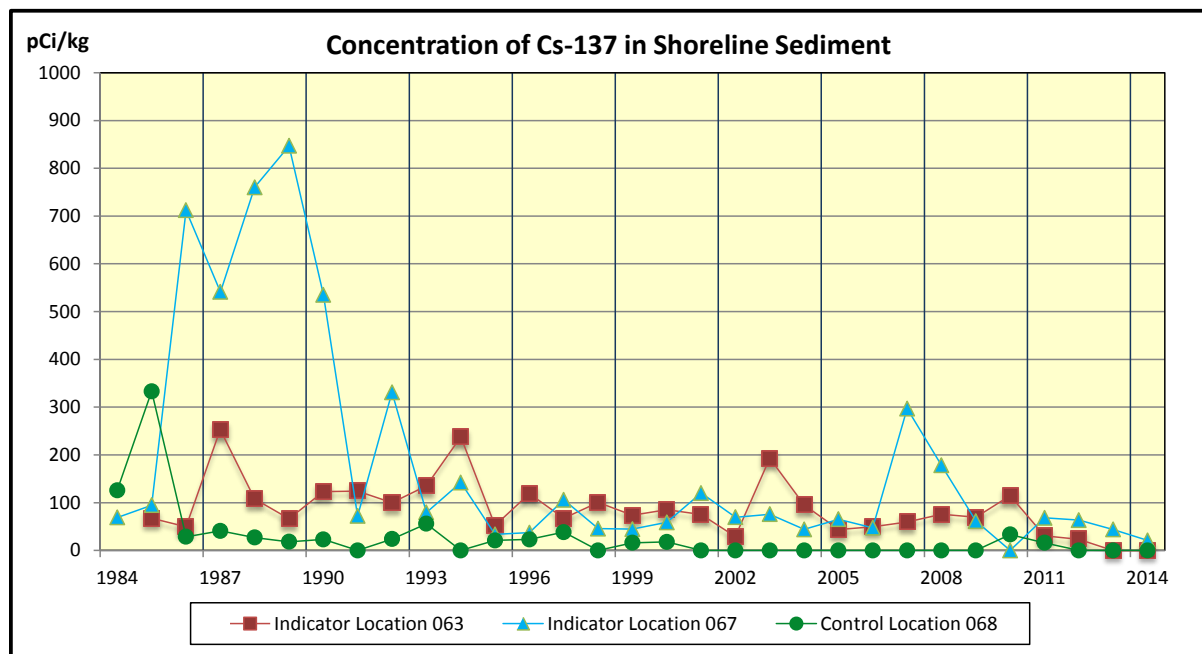
Gamma spectroscopy was performed on six sediment samples. Two downstream indicator locations and one control location were sampled. Four samples were taken from indicator locations and two from the control location.

Cs-137 was identified in one of the four indicator location samples. Cs-137 was not identified in the control location samples. The highest 2014 individual sample Cs-137 concentration was 21.1 pCi/kg. For comparison, the highest 2013 individual sample Cs-137 concentration was 43.7 pCi/kg. Table 3.7 lists the highest indicator location annual means since shoreline sediment was initiated in 1984. Included in the table are radionuclides that have been identified in this media since the change in analysis systems in 1987.

Visual inspection of the tabular data did not reveal any trends. Figure 3.7 is a graph of the Cs-137 annual means. Historically, Cs-137 is a contributor to the calculated dose from liquid effluents from shoreline sediment. No trends are apparent.

K-40 and Be-7 observed in shoreline samples are naturally occurring radionuclides.

Figure 3.7



There are no reporting levels for shoreline sediment

Table 3.7 Mean Concentrations of Radionuclides in Shoreline Sediment (pCi/kg)

Year	Mn-54	Co-58	Co-60	Zn-65	Cs-134	Cs-137	Ag-110m	Sb-125
1984	1.10E1	1.09E1	1.19E1	0.00E0	7.77E1	5.16E1	0.00E0	0.00E0
1985	9.39E0	1.27E0	4.79E0	0.00E0	7.63E1	9.47E1	0.00E0	0.00E0
1986	2.24E1	1.62E1	2.50E1	0.00E0	1.41E2	7.12E2	0.00E0	0.00E0
1987 ⁽¹⁾	5.40E1	4.70E2	5.07E2	0.00E0	1.01E2	6.22E2	3.46E2	0.00E0
1988	3.30E1	1.20E2	1.87E2	6.70E1	6.60E1	7.59E2	1.62E2	3.67E2
1989	2.30E1	1.24E2	1.96E2	0.00E0	5.40E1	8.48E2	5.50E1	1.86E2
1990	3.40E1	8.00E1	2.59E2	0.00E0	4.50E1	5.36E2	1.71E2	9.00E1
1991	3.26E1	5.60E1	8.57E1	0.00E0	6.91E1	1.24E2	1.10E2	1.78E2
1992	8.79E1	1.79E2	1.12E2	0.00E0	5.60E1	3.31E2	1.69E2	2.08E2
1993	8.20E1	8.20E1	6.50E1	0.00E0	3.20E1	1.36E2	5.63E1	1.11E2
1994	5.30E1	7.00E1	1.49E2	0.00E0	6.70E1	2.38E2	1.04E2	1.29E2
1995	1.43E2	3.90E1	2.40E1	0.00E0	1.10E1	5.20E1	0.00E0	0.00E0
1996	0.00E0	5.10E1	0.00E0	0.00E0	1.98E1	1.19E2	0.00E0	0.00E0
1997	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.06E2	0.00E0	0.00E0
1998	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.01E2	0.00E0	0.00E0
1999	6.96E1	0.00E0	0.00E0	0.00E0	0.00E0	7.38E1	0.00E0	0.00E0
2000	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	8.54E1	0.00E0	0.00E0
2001	0.00E0	2.10E1	0.00E0	0.00E0	0.00E0	1.20E2	0.00E0	0.00E0
2002	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	6.96E1	0.00E0	0.00E0
2003	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.93E2	0.00E0	0.00E0
2004	8.54E1	0.00E0	0.00E0	0.00E0	0.00E0	9.56E1	0.00E0	0.00E0
2005	2.00E2	0.00E0	0.00E0	0.00E0	0.00E0	6.53E1	0.00E0	0.00E0
2006	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	5.01E1	0.00E0	0.00E0
2007	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	2.97E2	0.00E0	0.00E0
2008	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.78E2	0.00E0	0.00E0
2009	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	6.97E1	0.00E0	0.00E0
2010	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	1.15E2	0.00E0	0.00E0
2011	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	6.83E1	0.00E0	0.00E0
2012	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	6.35E1	0.00E0	0.00E0
2013	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	4.37E1	0.00E0	0.00E0
2014 ⁽²⁾	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	2.11E1	0.00E0	0.00E0

0.00E0 indicates no detectable measurements

1984 - 1986 mean based on all net activity

(1) 1987 – Gamma spectroscopy system change

(2) 2014 – Gamma spectroscopy system change

3.8 DIRECT GAMMA RADIATION

3.8.1 ENVIRONMENTAL TLD

Oconee is licensed with an exclusion area boundary defined by UFSAR Section 2.1.1.2 as a 1 mile radius from station center. This is the same boundary established for determining radioactive effluent release limits. No permanent public access is permitted within the exclusion area. TLD locations designated as "inner ring" were placed within exclusion area upon inception of the REMP and all are used as indicators. Due to close proximity with Oconee, inner ring TLD locations are not good indicators of radiation exposure to a member of the public, but are good at determining nearby environmental effects due to plant operation. Based on their placement, inner ring TLD locations are expected to occasionally be influenced by normal plant operation. TLD locations designated as "outer ring" are outside the 1 mile exclusion area but within a 5 mile radius of station center. All outer ring TLD locations are used as indicators. A subset of TLD locations within a 7 to 13 mile radius from station center are designated as "special interest". The two "control" locations are greater than 9 miles from station center. These locations were chosen to reduce the probability of influence from Oconee operation on data. The control locations are not used as background subtraction in the TLD analysis. Their purpose is to provide a comparison to indicator locations.

In 2014, 167 total TLDs were analyzed, 159 at indicator locations and 8 at control locations. TLDs are collected and analyzed quarterly. Transit and laboratory background dose is determined and subtracted from gross field readings as required by ANSI N545-1975. The highest annual total dose was 104 mrem at indicator location 048, 3.64 miles W of station center. Figure 3.8 and Table 3.8 show TLD inner ring, outer ring, and control location annual averages in mrem per year. Data is provided from 1984 when TLD locations were added and arranged in an inner ring and outer ring configuration. Preoperational data is also provided in the table. As shown in the graph, historical inner and outer ring averages compare similarly, while control data is somewhat higher. This is most likely an artifact of the underlying geologic structures at the control locations. Comparing data from the 2014 Oconee Annual Radiological Effluent Release Report (ARERR), dose to a member of the public resulting from gaseous effluent releases at Oconee is a small fraction of measured TLD dose. Therefore, it can be concluded that gaseous effluents from Oconee had negligible impact on measured TLD values.

Starting in 2014, enhanced analytical methods were implemented. Quarterly and annual baseline dose was determined using appropriate statistical methods considering data from 2000 through 2012. Quarterly and annual dose for 2014 was compared to baseline values to determine if an Investigation Level had been exceeded for evaluation of potential dose to a member of the public. No TLD location exceeded the Quarterly or Annual Investigation Level in 2014, therefore no evaluation of dose to a member of the public from direct or scattered radiation was performed. Table 3.8-B summarizes the data.

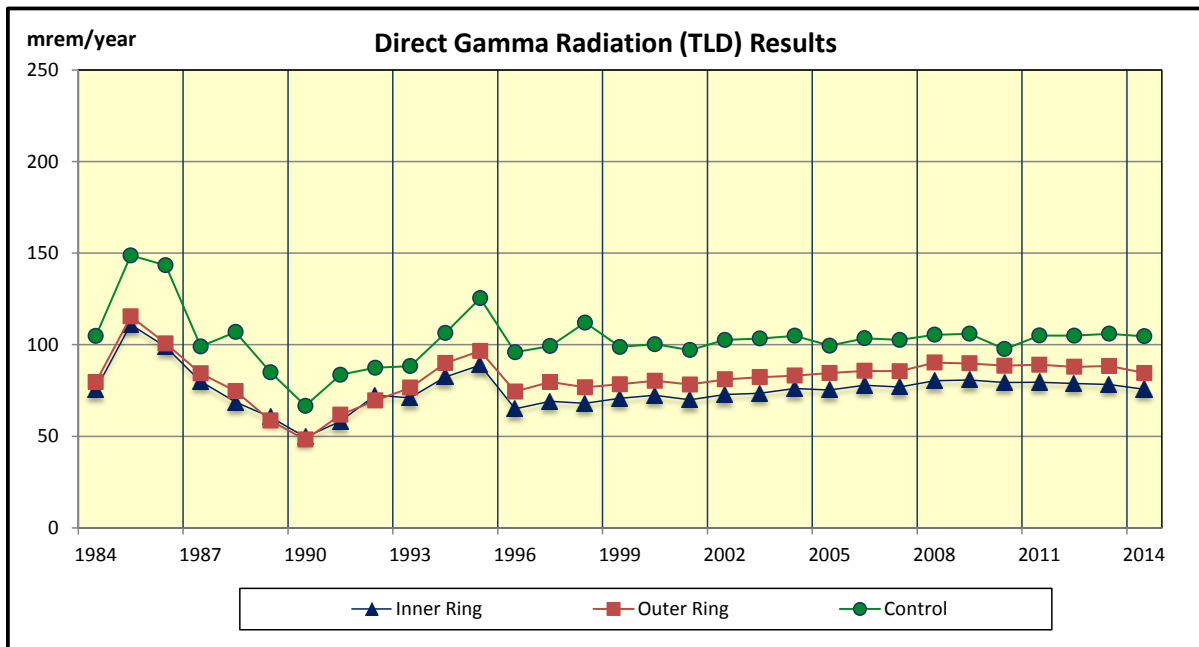
A TLD intercomparison program is conducted as part of the quality assurance program. Results of this program are included in section 5.9.

3.8.2 ISFSI

The Oconee ISFSI began operation in 1990. It is located 0.25 miles southwest of station center in a secured area specifically constructed to provide dry storage for spent nuclear fuel. The ISFSI employs the NUHOMS® horizontal storage module design. Irradiated fuel assemblies are confined, protected, and shielded by a reinforced concrete module. The system is completely passive and designed to provide shielding and safe confinement of spent fuel for a range of postulated accident conditions and natural phenomena. Decay heat is removed from the module by a passive ventilation system. No radiological liquid or gaseous effluents are expected from the passive storage provided by the ISFSI. Therefore any dose to offsite locations would be from direct and scattered gamma radiation.

The Oconee REMP serves as the operational program for the ISFSI. Several environmental TLD locations are presently located at the Oconee site boundary fence near the ISFSI. The closest of these is 0.3 miles from the ISFSI, well within the 1 mile exclusion boundary. In addition, dose rates at the ISFSI restricted area fence are monitored with TLDs as part of the routine REMP. These are used, in part, to control occupational exposure and augment the REMP according to the Oconee ISFSI UFSAR. The maximum TLD dose at the ISFSI fence, which is not accessible to the public, was 578 mrem per standard quarter. This is consistent with previous measurements.

Figure 3.8



There is no reporting level for Direct Radiation (TLD)

*AREOR 2014, results converted from mR/yr to mrem/yr ($n * 0.95$)*

Table 3.8-A Direct Gamma Radiation (TLD) Results⁽¹⁾

Year	Inner Ring Average (mrem/yr)	Outer Ring Average (mrem/yr)	Control Average (mrem/yr)
Preoperational	1.07E2	1.18E2	1.42E2
1984	7.54E1	7.96E1	1.05E2
1985	1.11E2	1.15E2	1.49E2
1986	9.90E1	1.01E2	1.43E2
1987	8.01E1	8.44E1	9.91E1
1988	6.87E1	7.47E1	1.07E2
1989	6.05E1	5.86E1	8.49E1
1990	4.96E1	4.82E1	6.66E1
1991	5.81E1	6.18E1	8.36E1
1992	7.24E1	6.95E1	8.74E1
1993	7.11E1	7.66E1	8.84E1
1994	8.25E1	9.00E1	1.06E2
1995	8.89E1	9.66E1	1.25E2
1996	6.51E1	7.44E1	9.60E1
1997	6.92E1	7.96E1	9.93E1
1998	6.81E1	7.68E1	1.12E2
1999	7.08E1	7.84E1	9.88E1
2000	7.24E1	8.03E1	1.00E2
2001	6.99E1	7.83E1	9.71E1
2002	7.28E1	8.11E1	1.03E2
2003	7.36E1	8.23E1	1.03E2
2004	7.61E1	8.31E1	1.05E2
2005	7.54E1	8.46E1	9.95E1
2006	7.79E1	8.57E1	1.04E2
2007	7.70E1	8.55E1	1.03E2
2008	8.04E1	9.03E1	1.05E2
2009	8.08E1	8.98E1	1.06E2
2010	7.94E1	8.85E1	9.77E1
2011	7.96E1	8.91E1	1.05E2
2012	7.89E1	8.79E1	1.05E2
2013	7.83E1	8.84E1	1.06E2
2014	7.58E1	8.46E1	1.05E2

(1) 2014 AREOR, tabular results converted from mR/yr to mrem/yr (n * 0.95)

Table 3.8-B Direct Gamma Radiation (TLD) Oconee 2014 Investigation LevelOconee 2014 MDD_Q: 7Oconee 2014 MDD_A: 11

Location	Quarterly (mrem)									Annual(mrem)		
	B _Q	M _Q Q1	M _Q Q2	M _Q Q3	M _Q Q4	L _Q Q1	L _Q Q2	L _Q Q3	L _Q Q4	B _A	M _A [*]	L _A
20	18.9	21.1	16.8	17.8	19.1	ND	ND	ND	ND	75.7	74.8	ND
21	14.0	17.5	12.0	13.0	13.6	ND	ND	ND	ND	56.9	56.1	ND
22-P	21.8	24.8	20.0	20.2	23.2	ND	ND	ND	ND	89.7	88.3	ND
22-S	19.8	22.1	18.9	20.1	21.9	ND	ND	ND	ND	83.5	83.0	ND
23-P	21.9	23.5	20.3	20.3	22.6	ND	ND	ND	ND	87.8	86.7	ND
23-S	24.4	26.1	22.5	22.3	24.2	ND	ND	ND	ND	97.4	95.2	ND
24-P	22.8	26.1	21.8	21.9	25.1	ND	ND	ND	ND	98.6	94.8	ND
24-S	24.4	27.0	20.8	22.2	25.1	ND	ND	ND	ND	98.4	95.1	ND
25	17.1	21.5	16.2	17.9	19.2	ND	ND	ND	ND	72.9	74.7	ND
26	16.5	18.6	15.0	15.6	15.4	ND	ND	ND	ND	67.2	64.6	ND
27-P	19.2	21.3	16.8	17.1	18.1	ND	ND	ND	ND	78.1	73.2	ND
27-S	19.6	24.7	20.2	20.0	21.0	ND	ND	ND	ND	80.1	86.0	ND
28	17.0	17.6	14.4	15.6	17.9	ND	ND	ND	ND	68.3	65.5	ND
29	15.7	16.2	14.3	13.7	15.7	ND	ND	ND	ND	63.3	59.9	ND
30	17.0	18.1	14.5	15.8	18.5	ND	ND	ND	ND	70.6	67.0	ND
31	16.4	18.1	14.1	16.7	16.9	ND	ND	ND	ND	65.7	65.7	ND
32	22.9	19.5	16.3	15.6	19.1	ND	ND	ND	ND	94.5	70.5	ND
33	19.5	21.2	16.8	17.0	20.7	ND	ND	ND	ND	77.9	75.7	ND
34	21.5	23.9	20.1	19.9	22.4	ND	ND	ND	ND	86.0	86.4	ND
35	22.9	26.6	21.3	22.1	25.7	ND	ND	ND	ND	93.3	95.7	ND
36-P	26.5	26.6	---	21.6	25.5	ND	ND	ND	ND	105.1	98.2	ND
36-S	23.0	23.4	19.9	19.2	22.7	ND	ND	ND	ND	92.2	85.1	ND
37-P	20.4	22.4	16.5	17.0	17.7	ND	ND	ND	ND	82.0	73.6	ND
37-S	17.9	19.4	18.2	19.2	21.0	ND	ND	ND	ND	71.6	77.8	ND
38-P	21.9	24.2	19.3	18.4	22.7	ND	ND	ND	ND	87.5	84.6	ND
38-S	25.6	25.7	20.0	20.6	24.8	ND	ND	ND	ND	102.4	91.2	ND
39-P	24.2	25.4	21.9	22.3	24.1	ND	ND	ND	ND	96.2	93.8	ND
39-S	23.2	24.7	20.6	20.9	22.0	ND	ND	ND	ND	92.7	88.3	ND
40	23.7	28.1	23.0	23.3	26.9	ND	ND	ND	ND	101.1	101.3	ND
41-P	17.3	18.6	14.5	14.6	17.4	ND	ND	ND	ND	69.1	65.2	ND
41-S	16.9	19.5	15.4	14.9	17.7	ND	ND	ND	ND	68.3	67.5	ND
42-P	25.0	27.7	23.3	24.3	26.2	ND	ND	ND	ND	102.2	101.6	ND
42-S	24.8	26.6	22.9	23.2	24.9	ND	ND	ND	ND	102.0	97.6	ND
43	23.8	---	20.9	21.4	23.9	ND	ND	ND	ND	95.3	88.3	ND
44-P	18.3	20.7	16.9	17.5	18.1	ND	ND	ND	ND	80.0	73.2	ND
44-S	18.7	18.6	15.1	15.6	17.7	ND	ND	ND	ND	74.8	67.0	ND
45-P	17.0	17.6	14.4	14.8	19.2	ND	ND	ND	ND	67.9	66.0	ND
45-S	18.5	20.0	16.9	17.5	19.3	ND	ND	ND	ND	79.4	73.6	ND
46-P	21.5	23.9	20.1	21.6	22.4	ND	ND	ND	ND	91.8	88.1	ND
46-S	20.7	21.1	19.2	19.1	22.0	ND	ND	ND	ND	83.3	81.4	ND
47	22.4	25.3	20.7	20.1	22.6	ND	ND	ND	ND	91.1	88.7	ND
48-P	25.3	26.9	23.2	24.7	26.6	ND	ND	ND	ND	101.3	101.4	ND
48-S	25.4	28.4	22.9	23.2	25.3	ND	ND	ND	ND	103.7	99.8	ND
49-P	20.7	24.1	20.2	21.5	22.7	ND	ND	ND	ND	82.6	88.5	ND
49-S	19.2	22.0	18.1	19.4	20.3	ND	ND	ND	ND	78.6	79.9	ND
50-P	17.7	19.2	15.4	18.1	18.4	ND	ND	ND	ND	70.9	71.1	ND
50-S	16.6	18.6	14.3	15.4	16.9	ND	ND	ND	ND	66.4	65.2	ND
51-P	19.0	20.0	17.6	17.5	18.6	ND	ND	ND	ND	76.2	73.6	ND
51-S	18.1	21.6	16.2	16.4	19.3	ND	ND	ND	ND	72.6	73.5	ND

* M_A determined by normalizing available quarterly data to 4 full quarters*Table 3.8-B continued on the next page*

Table 3.8-B continued from preceding page

Oconee 2014 MDD _Q : 7	Oconee 2014 MDD _A : 11
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Quarterly (mrem)										Annual(mrem)		
Location	B _Q	M _Q Q1	M _Q Q2	M _Q Q3	M _Q Q4	L _Q Q1	L _Q Q2	L _Q Q3	L _Q Q4	B _A	M _A [*]	L _A
52-P	22.9	25.7	21.6	21.3	23.3	ND	ND	ND	ND	94.8	91.8	ND
52-S	28.9	31.8	28.6	27.1	29.7	ND	ND	ND	ND	117.0	117.2	ND
53-P	25.1	27.8	22.4	20.6	26.0	ND	ND	ND	ND	102.3	96.9	ND
53-S	24.9	30.2	22.0	22.5	25.0	ND	ND	ND	ND	103.6	99.8	ND
54-P	18.5	23.0	16.2	16.5	20.4	ND	ND	ND	ND	76.5	76.2	ND
54-S	20.6	24.7	20.1	19.7	21.9	ND	ND	ND	ND	85.7	86.4	ND
55-P	15.5	18.5	13.4	14.0	16.2	ND	ND	ND	ND	65.1	62.0	ND
55-S	15.2	17.4	14.7	14.7	15.9	ND	ND	ND	ND	65.0	62.7	ND
56-P	22.8	24.7	21.5	21.1	22.5	ND	ND	ND	ND	91.8	89.8	ND
56-S	16.3	19.3	14.4	15.1	15.6	ND	ND	ND	ND	65.4	64.4	ND
57-P	22.4	26.8	20.8	20.1	23.4	ND	ND	ND	ND	93.6	91.1	ND
57-S	19.7	22.2	18.3	19.3	19.4	ND	ND	ND	ND	76.7	79.2	ND
58	29.3	33.2	30.0	28.6	31.1	ND	ND	ND	ND	119.7	122.8	ND
59	24.1	25.7	22.9	24.1	24.1	ND	ND	ND	ND	98.5	96.9	ND
76	20.8	25.7	20.6	20.0	20.4	ND	ND	ND	ND	89.0	86.7	ND
81	21.9	24.2	21.2	20.5	23.5	ND	ND	ND	ND	91.1	89.4	ND

* Ma determined by normalizing available quarterly data to 4 full quarters

Table 3.8-B definition of terms

- MDD_Q = minimum differential dose, quarterly, 3 times 90th percentile s_Q determined from analysis in mrem
- MDD_A = minimum differential dose, annual, 3 times 90th percentile s_A determined from analysis in mrem
- B_Q = Quarterly baseline (mrem)
- M_Q = location's 91 day standard quarter normalized dose (mrem per standard quarter)
- L_Q = quarterly investigation level dose (mrem)
- B_A = baseline background dose (mrem) (annual)
- M_A = annual monitoring data - Ma determined by normalizing available quarterly data to 4 full quarters
- L_A = annual investigation level dose (mrem)
- ND = not detected

3.9 LAND USE CENSUS

The Land Use Census was conducted during the growing season (5/12 – 5/13/2014) as required by SLC 16.11.6. Table 3.9 summarizes census results. A map indicating identified locations is shown in Figure 3.9. The nearest residence is located in the NNW sector at 1.03 miles. No program changes were required based on the results of the census.

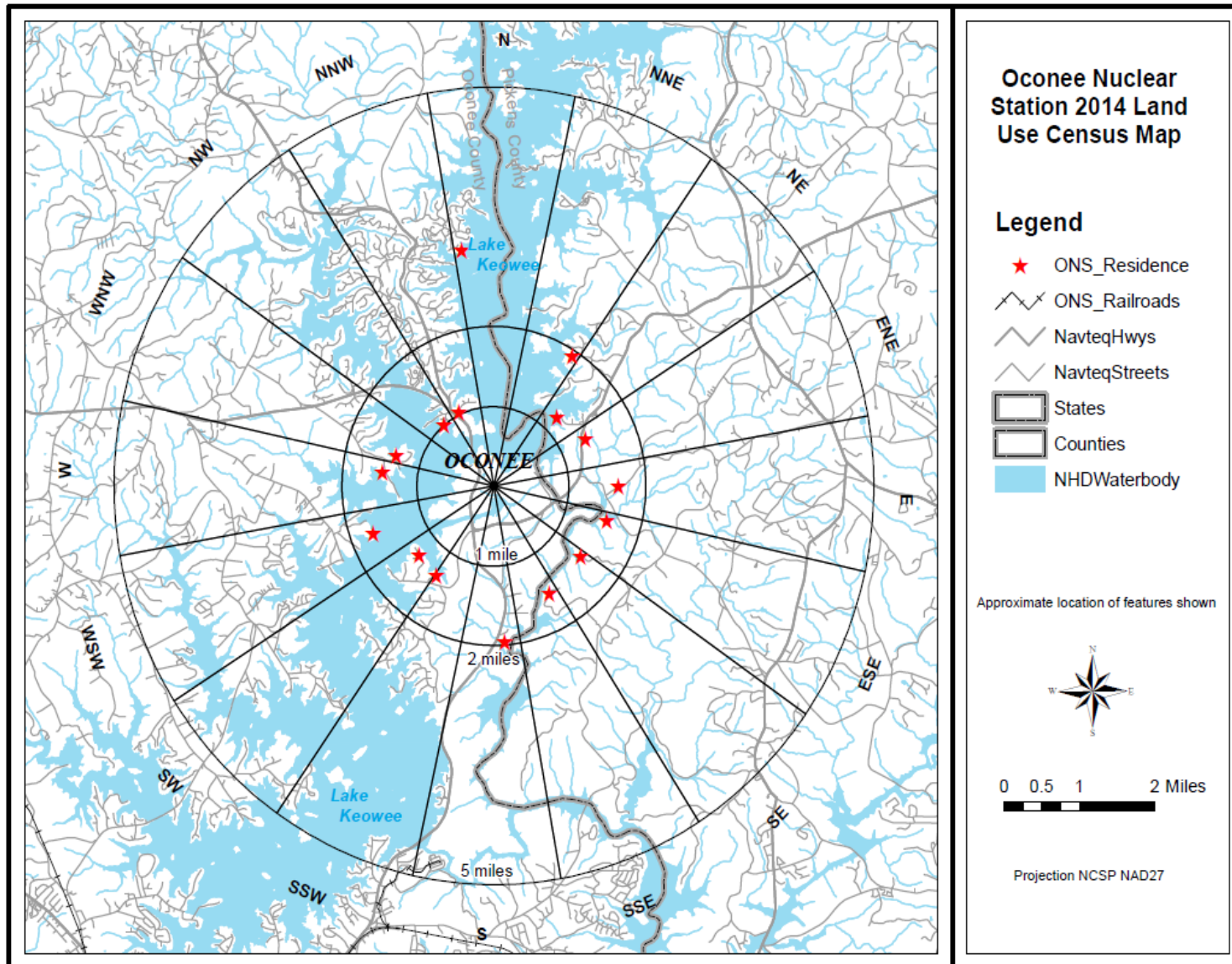
Table 3.9 Oconee 2014 Land Use Census Results

Sector		Distance (Miles)	Sector		Distance (Miles)
N	Nearest Residence	2.98	S	Nearest Residence	1.96
	Nearest Milk Animal	-		Nearest Milk Animal	-
NNE	Nearest Residence	1.84	SSW	Nearest Residence	1.36
	Nearest Milk Animal	-		Nearest Milk Animal	-
NE	Nearest Residence	1.20	SW	Nearest Residence	1.31
	Nearest Milk Animal	-		Nearest Milk Animal	-
ENE	Nearest Residence	1.34	WSW	Nearest Residence	1.76
	Nearest Milk Animal	-		Nearest Milk Animal	-
E	Nearest Residence	1.64	W	Nearest Residence	1.58
	Nearest Milk Animal	-		Nearest Milk Animal	-
ESE	Nearest Residence	1.57	WNW	Nearest Residence	1.35
	Nearest Milk Animal	-		Nearest Milk Animal	-
SE	Nearest Residence	1.46	NW	Nearest Residence	1.04
	Nearest Milk Animal	-		Nearest Milk Animal	-
SSE	Nearest Residence	1.54	NNW	Nearest Residence	1.03
	Nearest Milk Animal	-		Nearest Milk Animal	-

“-“ indicates no occurrences within the 5 mile radius

* GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

Figure 3.9



4.0 EVALUATION OF DOSE

4.1 DOSE FROM ENVIRONMENTAL MEASUREMENTS

Annual doses to maximum exposed individuals were estimated based on measured concentrations of radionuclides in 2014 ONS REMP samples. The primary purpose of estimating doses based on sample results is to allow comparison to effluent program dose estimates. Doses based on sample results were conservatively calculated in a manner as equivalent as possible to effluent-based dose estimates.

Doses based on REMP sample results were calculated using the methodology and data presented in NRC Regulatory Guide 1.109. Measured radionuclide concentrations, averaged over the entire year for a specific radionuclide, indicator location, and sample type, were used to calculate REMP-based doses, after subtracting the applicable average background concentration (as measured at the corresponding control location). Regulatory Guide 1.109 consumption rates for the maximum exposed individual were used in the calculations. A dose factor of zero was assumed when the guide listed “NO DATA” as the dose factor for a given radionuclide and organ.

Maximum dose estimates calculated using drinking water, fish, and shoreline sediment results are reported in Table 4.1-A. The individual critical population and pathway dose calculations are contained in Table 4.1-B.

No radionuclides attributable to ONS operations were detected in milk, airborne radioiodine or airborne particulate samples. Naturally occurring K-40 and Be-7 were detected in some samples but were not included in any REMP-based dose estimates. Dose estimates were not calculated for surface water samples because surface water is not considered a potable drinking water source although surface water tritium concentrations are used in calculating doses from fish. REMP TLD exposure results are discussed in Section 3.8.

The maximum environmental organ dose estimate for any single sample type (excluding TLD results) collected during 2014 was 4.58E-2 mrem to the child liver from the consumption of drinking water.

4.2 ESTIMATED DOSE FROM RELEASES

Throughout the year, dose estimates were calculated based on actual 2014 liquid and gaseous effluent release data. Effluent-based dose estimates were calculated using the RETDAS computer program which employs methodology and data presented in NRC Regulatory Guide 1.109. These doses are shown in Table 4.1-A along with the corresponding REMP-based dose estimates. Summaries of RETDAS dose calculations are reported in the Annual Radioactive Effluent Release Report.

The effluent-based liquid release doses are summations of the dose contributions of the drinking water, fish and shoreline pathways. For iodine, particulate, and tritium exposure the effluent-based gaseous release doses are summations of the dose contributors from ground/plane, milk, inhalation and vegetation pathways.

4.3 COMPARISON OF DOSES

The liquid environmental and release data doses given in Table 4.1-A agree reasonably well. The similarity of the doses indicate that the radioactivity levels in the environment do not differ significantly from those expected based on effluent measurements and modeling of the environmental exposure pathways.

There are some differences in how effluent and environmental doses are calculated that affect the comparison. Doses calculated from environmental data are conservative because they are based on a mean that includes only samples with a net positive activity versus a mean that includes all sample results (i.e. zero results are not included in the mean). Also, airborne tritium is not measured in environmental samples but is used to calculate effluent doses.

Additionally, in 2010 Oconee began reporting estimated dose from effluent Carbon 14 (C-14). This change came about with the issuing of Regulatory Guide 1.21, Revision 2, Measuring, Evaluating and Reporting Radioactive Material in Liquid and Gaseous Effluents and Solid Waste. A description of this change is found in the 2010 Annual Radiological Effluent Release Report. C-14 is not easily measured in the environment and therefore, environmental and effluent doses from C-14 cannot be compared directly.

In calculations based on liquid release effluent pathways, fish and drinking water were the predominant dose pathways based on environmental and effluent samples. The maximum total organ dose based on 2014 environmental sample results was 4.58E-2 mrem to the child liver. The maximum total organ dose of 1.62E-1 mrem for liquid effluent-based estimates was to the child liver.

In calculations based on gaseous release pathways, vegetation was the predominant dose pathway for effluent samples. The gaseous effluent dose is due to C-14 and tritium in broadleaf vegetation. The maximum total organ dose for gaseous effluent estimates was 3.39E-1 mrem to the child bone. No radioactivity was detected from gaseous pathways in environmental samples; therefore, there is no calculated dose.

The doses calculated do not exceed 40CFR190 or 10CFR50 dose commitment limits for members of the public. Doses to members of the public attributable to the operation of ONS are being maintained well within regulatory limits.

TABLE 4.1-A

**OCONEE NUCLEAR STATION
2014 ENVIRONMENTAL AND EFFLUENT DOSE COMPARISON**

LIQUID RELEASE PATHWAY

Organ	Environmental or Effluent Data	Critical Age ⁽¹⁾	Critical Pathway ⁽²⁾	Location	Maximum Dose ⁽³⁾ (mrem)
Skin	Environmental	Teen	Shoreline Sediment	067 (4.34 mi SSE)	5.54E-05
Skin	Effluent	Teen	Shoreline Sediment	Discharge Pt.	8.51E-04
Bone	Environmental	Child	Fresh Water Fish	063 (0.80 mi ESE)	1.17E-02
Bone	Effluent	Child	Fresh Water Fish	Discharge Pt.	6.20E-02
Liver	Environmental	Child	Drinking Water	066 (18.9 mi SSE)	4.58E-02
Liver	Effluent	Child	Drinking Water	18.9 mi SSE	1.62E-01
T. Body	Environmental	Adult	Drinking Water	066 (18.9 mi SSE)	3.71E-02
T. Body	Effluent	Adult	Fresh Water Fish	Discharge Pt.	1.46E-01
Thyroid	Environmental	Child	Drinking Water	066 (18.9 mi SSE)	3.46E-02
Thyroid	Effluent	Child	Drinking Water	18.9 mi SSE	1.22E-01
Kidney	Environmental	Child	Drinking Water	066 (18.9 mi SSE)	3.83E-02
Kidney	Effluent	Child	Drinking Water	18.9 mi SSE	1.34E-01
Lung	Environmental	Child	Drinking Water	066 (18.9 mi SSE)	3.59E-02
Lung	Effluent	Child	Drinking Water	18.9 mi SSE	1.26E-01
GI-LLI	Environmental	Child	Drinking Water	066 (18.9 mi SSE)	3.47E-02
GI-LLI	Effluent	Adult	Drinking Water	18.9 mi SSE	1.31E-01

(1) Critical Age is the highest total dose (all pathways) to an age group.

(2) Critical Pathway is the highest individual dose within the identified Critical Age group.

(3) Maximum dose is a summation of the fish, drinking water and shoreline sediment pathways.

GASEOUS RELEASE PATHWAY

IODINE, PARTICULATE, and TRITIUM

Organ	Environmental or Effluent Data	Critical Age ⁽¹⁾	Critical Pathway ⁽²⁾	Location	Maximum Dose ⁽³⁾ (mrem)
Skin	Environmental	-	-	-	0.00E+00
Skin	Effluent	All	Ground Plane	1.0 mi. SW	6.24E-06
Bone	Environmental	-	-	-	0.00E+00
Bone	Effluent	Child	Vegetation	1.0 mi. SW	3.39E-01
Liver	Environmental	-	-	-	0.00E+00
Liver	Effluent	Child	Vegetation	1.0 mi. SW	1.25E-01
T. Body	Environmental	-	-	-	0.00E+00
T. Body	Effluent	Child	Vegetation	1.0 mi. SW	1.25E-01
Thyroid	Environmental	-	-	-	0.00E+00
Thyroid	Effluent	Child	Vegetation	1.0 mi. SW	1.25E-01
Kidney	Environmental	-	-	-	0.00E+00
Kidney	Effluent	Child	Vegetation	1.0 mi. SW	1.25E-01
Lung	Environmental	-	-	-	0.00E+00
Lung	Effluent	Child	Vegetation	1.0 mi. SW	1.25E-01
GI-LLI	Environmental	-	-	-	0.00E+00
GI-LLI	Effluent	Child	Vegetation	1.0 mi. SW	1.25E-01

(1) Critical Age is the highest total dose (all pathways) to an age group.

(2) Critical Pathway is the highest individual dose within the identified Critical Age group.

(3) Maximum dose is a summation of the ground/plane, inhalation, milk and vegetation pathways.

TABLE 4.1-B*Maximum Individual Dose for 2014 based on Environmental Measurements (mrem) for Oconee Nuclear Station*

Age	Sample Medium	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Skin
Infant	Airborne	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Drinking Water	0.00E+00	2.97E-02	2.97E-02	2.97E-02	2.97E-02	2.97E-02	2.97E-02	0.00E+00
	Milk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	TOTAL	0.00E+00	2.97E-02	2.97E-02	2.97E-02	2.97E-02	2.97E-02	2.97E-02	0.00E+00
Child	Airborne	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Drinking Water	0.00E+00	3.02E-02	3.02E-02	3.02E-02	3.02E-02	3.02E-02	3.02E-02	0.00E+00
	Milk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Broadleaf Vegetation	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Fish	1.17E-02	1.56E-02	6.06E-03	4.40E-03	8.05E-03	5.72E-03	4.47E-03	0.00E+00
	Shoreline Sediment	0.00E+00	0.00E+00	9.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
	TOTAL	1.17E-02	4.58E-02	3.63E-02	3.46E-02	3.83E-02	3.59E-02	3.47E-02	1.16E-05
Teen	Airborne	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Drinking Water	0.00E+00	1.58E-02	1.58E-02	1.58E-02	1.58E-02	1.58E-02	1.58E-02	0.00E+00
	Milk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Broadleaf Vegetation	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Fish	9.28E-03	1.77E-02	9.63E-03	5.33E-03	9.53E-03	6.96E-03	5.51E-03	0.00E+00
	Shoreline Sediment	0.00E+00	0.00E+00	4.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05
	TOTAL	9.28E-03	3.35E-02	2.55E-02	2.11E-02	2.53E-02	2.28E-02	2.13E-02	5.54E-05
Adult	Airborne	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Drinking Water	0.00E+00	2.24E-02	2.24E-02	2.24E-02	2.24E-02	2.24E-02	2.24E-02	0.00E+00
	Milk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Broadleaf Vegetation	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Fish	8.67E-03	1.88E-02	1.47E-02	6.93E-03	1.10E-02	8.27E-03	7.16E-03	0.00E+00
	Shoreline Sediment	0.00E+00	0.00E+00	8.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-06
	TOTAL	8.67E-03	4.12E-02	3.71E-02	2.93E-02	3.34E-02	3.07E-02	2.96E-02	9.93E-06

Note: Dose tables are provided for sample media displaying positive nuclide occurrence.

Oconee Nuclear Station
Dose from Drinking Water Pathway for 2014 Data
Maximum Exposed Infant

Infant Dose from Drinking Water Pathway (mrem) = Usage (l) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/l)

Usage (intake in one year) = 330 l

Radionuclide	<u>Ingestion Dose Factor</u>							Highest Annual Net Mean <u>Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Water (pCi/l)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	1.99E-05	4.51E-06	NO DATA	4.41E-06	NO DATA	7.31E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	3.60E-06	8.98E-06	NO DATA	NO DATA	NO DATA	8.97E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	3.08E-05	5.38E-05	2.12E-05	NO DATA	NO DATA	1.59E-05	2.57E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	NO DATA	1.08E-05	2.55E-05	NO DATA	NO DATA	NO DATA	2.57E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	1.84E-05	6.31E-05	2.91E-05	NO DATA	3.06E-05	NO DATA	5.33E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	4.20E-08	1.73E-08	1.00E-08	NO DATA	1.24E-08	NO DATA	1.46E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	2.06E-07	5.02E-08	3.56E-08	NO DATA	5.41E-08	NO DATA	2.50E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	3.59E-05	4.23E-05	1.86E-05	1.39E-02	4.94E-05	NO DATA	1.51E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	3.77E-04	7.03E-04	7.10E-05	NO DATA	1.81E-04	7.42E-05	1.91E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	5.22E-04	6.11E-04	4.33E-05	NO DATA	1.64E-04	6.64E-05	1.91E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BaLa-140	1.71E-04	1.71E-07	8.81E-06	NO DATA	4.06E-08	1.05E-07	4.20E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	NO DATA	3.08E-07	3.08E-07	3.08E-07	3.08E-07	3.08E-07	3.08E-07	066	292	0.00E+00	2.97E-02	2.97E-02	2.97E-02	2.97E-02	2.97E-02	2.97E-02
Dose Commitment (mrem) =										0.00E+00	2.97E-02	2.97E-02	2.97E-02	2.97E-02	2.97E-02	2.97E-02

Oconee Nuclear Station
Dose from Drinking Water Pathway for 2014 Data
Maximum Exposed Child

Child Dose from Drinking Water Pathway (mrem) = Usage (l) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/l)

Usage (intake in one year)= 510 l

Radionuclide	<u>Ingestion Dose Factor</u>							<u>Highest Annual Net Mean Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Water (pCi/l)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	1.07E-05	2.85E-06	NO DATA	3.00E-06	NO DATA	8.98E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	1.80E-06	5.51E-06	NO DATA	NO DATA	NO DATA	1.05E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	1.65E-05	2.67E-05	1.33E-05	NO DATA	NO DATA	7.74E-06	2.78E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
C0-60	NO DATA	5.29E-06	1.56E-05	NO DATA	NO DATA	NO DATA	2.93E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	1.37E-05	3.65E-05	2.27E-05	NO DATA	2.30E-05	NO DATA	6.41E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	2.25E-08	8.76E-09	6.26E-09	NO DATA	8.23E-09	NO DATA	1.62E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	1.16E-07	2.55E-08	2.27E-08	NO DATA	3.65E-08	NO DATA	2.66E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	1.72E-05	1.73E-05	9.83E-06	5.72E-03	2.84E-05	NO DATA	1.54E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	2.34E-04	3.84E-04	8.10E-05	NO DATA	1.19E-04	4.27E-05	2.07E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	3.27E-04	3.13E-04	4.62E-05	NO DATA	1.02E-04	3.67E-05	1.96E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BaLa-140	8.31E-05	7.28E-08	4.85E-06	NO DATA	2.37E-08	4.34E-08	4.21E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	NO DATA	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	066	292	0.00E+00	3.02E-02	3.02E-02	3.02E-02	3.02E-02	3.02E-02	3.02E-02
Dose Commitment (mrem) =										0.00E+00	3.02E-02	3.02E-02	3.02E-02	3.02E-02	3.02E-02	3.02E-02

Oconee Nuclear Station
Dose from Fish Pathway for 2014 Data
Maximum Exposed Child

Child Dose from Fish Pathway (mrem) = Usage (kg) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/kg)

H-3 Concentration in Fish = Surface Water pCi/l x Bioaccumulation Factor 0.9 pCi/kg per pCi/l = 3493 pCi/l x 0.9 = 3144 pCi/kg

Usage (intake in one year) = 6.9 kg

Radionuclide	<u>Ingestion Dose Factor</u>							<u>Highest Annual Net Mean Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Fish (pCi/kg)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	1.07E-05	2.85E-06	NO DATA	3.00E-06	NO DATA	8.98E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	1.80E-06	5.51E-06	NO DATA	NO DATA	NO DATA	1.05E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	1.65E-05	2.67E-05	1.33E-05	NO DATA	NO DATA	7.74E-06	2.78E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
C0-60	NO DATA	5.29E-06	1.56E-05	NO DATA	NO DATA	NO DATA	2.93E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	1.37E-05	3.65E-05	2.27E-05	NO DATA	2.30E-05	NO DATA	6.41E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	2.34E-04	3.84E-04	8.10E-05	NO DATA	1.19E-04	4.27E-05	2.07E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	3.27E-04	3.13E-04	4.62E-05	NO DATA	1.02E-04	3.67E-05	1.96E-06	063	5.18	1.17E-02	1.12E-02	1.65E-03	0.00E+00	3.65E-03	1.31E-03	7.01E-05
H-3	NO DATA	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	063	3144	0.00E+00	4.40E-03	4.40E-03	4.40E-03	4.40E-03	4.40E-03	4.40E-03
Dose Commitment (mrem) =										1.17E-02	1.56E-02	6.06E-03	4.40E-03	8.05E-03	5.72E-03	4.47E-03

Oconee Nuclear Station
Dose from Shoreline Sediment Pathway for 2014 Data
Maximum Exposed Child

Shoreline Recreation = 14 hr (in one year)
 Shore Width Factor = 0.2
 Sediment Surface Mass = 40 kg/m²

Child Dose from Shoreline Sediment Pathway (mrem) = Shoreline Recreation (hr) x External
 Dose Factor (mrem/hr per pCi/m²) x Shore Width Factor x Sediment Surface Mass (kg/m²) x
 Sediment Concentration (pCi/kg)

External Dose Factor Standing on Contaminated Ground			Highest Annual Net Mean Concentration		Dose	
Radionuclide	(mrem/hr per pCi/m ²)		Indicator Location	Sediment (pCi/kg)	(mrem)	
	T. Body	Skin			T. Body	Skin
Cs-134	1.20E-08	1.40E-08	ALL	0.00	0.00E+00	0.00E+00
Cs-137	4.20E-09	4.90E-09	067	21.1	9.93E-06	1.16E-05
Dose Commitment (mrem) =					9.93E-06	1.16E-05

Oconee Nuclear Station
Dose from Drinking Water Pathway for 2014 Data
Maximum Exposed Teen

Teen Dose from Drinking Water Pathway (mrem) = Usage (l) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/l)

Usage (intake in one year)= 510 l

Radionuclide	<u>Ingestion Dose Factor</u>							<u>Highest Annual Net Mean Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Water (pCi/l)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	5.90E-06	1.17E-06	NO DATA	1.76E-06	NO DATA	1.21E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	9.72E-07	2.24E-06	NO DATA	NO DATA	NO DATA	1.34E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	5.87E-06	1.37E-05	5.29E-06	NO DATA	NO DATA	4.32E-06	3.24E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	NO DATA	2.81E-06	6.33E-06	NO DATA	NO DATA	NO DATA	3.66E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	5.76E-06	2.00E-05	9.33E-06	NO DATA	1.28E-05	NO DATA	8.47E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	8.22E-09	4.56E-09	2.51E-09	NO DATA	4.42E-09	NO DATA	1.95E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	4.12E-08	1.30E-08	8.94E-09	NO DATA	1.91E-08	NO DATA	3.00E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	5.85E-06	8.19E-06	4.40E-06	2.39E-03	1.41E-05	NO DATA	1.62E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	8.37E-05	1.97E-04	9.14E-05	NO DATA	6.26E-05	2.39E-05	2.45E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	1.12E-04	1.49E-04	5.19E-05	NO DATA	5.07E-05	1.97E-05	2.12E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BaLa-140	2.84E-05	3.48E-08	1.83E-06	NO DATA	1.18E-08	2.34E-08	4.38E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	NO DATA	1.06E-07	1.06E-07	1.06E-07	1.06E-07	1.06E-07	1.06E-07	066	292	0.00E+00	1.58E-02	1.58E-02	1.58E-02	1.58E-02	1.58E-02	1.58E-02
Dose Commitment (mrem)=										0.00E+00	1.58E-02	1.58E-02	1.58E-02	1.58E-02	1.58E-02	1.58E-02

Oconee Nuclear Station
Dose from Fish Pathway for 2014 Data
Maximum Exposed Teen

Teen Dose from Fish Pathway (mrem) = Usage (kg) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/kg)

H-3 Concentration in Fish = Surface Water pCi/l x Bioaccumulation Factor 0.9 pCi/kg per pCi/l = 3493 pCi/l x 0.9 = 3144 pCi/kg

Usage (intake in one year) = 16 kg

Radionuclide	<u>Ingestion Dose Factor</u>							<u>Highest Annual Net Mean Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Location	(pCi/kg)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	5.90E-06	1.17E-06	NO DATA	1.76E-06	NO DATA	1.21E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	9.72E-07	2.24E-06	NO DATA	NO DATA	NO DATA	1.34E-05	ALL	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	5.87E-06	1.37E-05	5.29E-06	NO DATA	NO DATA	4.32E-06	3.24E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	NO DATA	2.81E-06	6.33E-06	NO DATA	NO DATA	NO DATA	3.66E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	5.76E-06	2.00E-05	9.33E-06	NO DATA	1.28E-05	NO DATA	8.47E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	8.37E-05	1.97E-04	9.14E-05	NO DATA	6.26E-05	2.39E-05	2.45E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	1.12E-04	1.49E-04	5.19E-05	NO DATA	5.07E-05	1.97E-05	2.12E-06	063	5.18	9.28E-03	1.23E-02	4.30E-03	0.00E+00	4.20E-03	1.63E-03	1.76E-04
H-3	NO DATA	1.06E-07	1.06E-07	1.06E-07	1.06E-07	1.06E-07	1.06E-07	063	3144	0.00E+00	5.33E-03	5.33E-03	5.33E-03	5.33E-03	5.33E-03	5.33E-03
Dose Commitment (mrem) =										9.28E-03	1.77E-02	9.63E-03	5.33E-03	9.53E-03	6.96E-03	5.51E-03

Oconee Nuclear Station
Dose from Shoreline Sediment Pathway for 2014 Data
Maximum Exposed Teen

Shoreline Recreation = 67 hr (in one year)
 Shore Width Factor = 0.2
 Sediment Surface Mass = 40 kg/m²

Teen Dose from Shoreline Sediment Pathway (mrem) = Shoreline Recreation (hr) x External
 Dose Factor (mrem/hr per pCi/m²) x Shore Width Factor x Sediment Surface Mass (kg/m²) x
 Sediment Concentration (pCi/kg)

External Dose Factor Standing on Contaminated Ground			Highest Annual Net Mean Concentration		Dose	
Radionuclide	(mrem/hr per pCi/m ²)		Indicator Location	Sediment (pCi/kg)	(mrem)	
	T. Body	Skin			T. Body	Skin
Cs-134	1.20E-08	1.40E-08	ALL	0.00	0.00E+00	0.00E+00
Cs-137	4.20E-09	4.90E-09	067	21.1	4.75E-05	5.54E-05
Dose Commitment (mrem) =					4.75E-05	5.54E-05

Oconee Nuclear Station
Dose from Drinking Water Pathway for 2014 Data
Maximum Exposed Adult

Adult Dose from Drinking Water Pathway (mrem) = Usage (l) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/l)

Usage (intake in one year) = 730 l

Radionuclide	<u>Ingestion Dose Factor</u>							<u>Highest Annual Net Mean Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Indicator Location	Water (pCi/l)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	4.57E-06	8.72E-07	NO DATA	1.36E-06	NO DATA	1.40E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	7.45E-07	1.67E-06	NO DATA	NO DATA	NO DATA	1.51E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	4.34E-06	1.02E-05	3.91E-06	NO DATA	NO DATA	2.85E-06	3.40E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	NO DATA	2.14E-06	4.72E-06	NO DATA	NO DATA	NO DATA	4.02E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	4.84E-06	1.54E-05	6.96E-06	NO DATA	1.03E-05	NO DATA	9.70E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	6.22E-09	3.46E-09	1.86E-09	NO DATA	3.42E-09	NO DATA	2.10E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	3.04E-08	9.75E-09	6.60E-09	NO DATA	1.53E-08	NO DATA	3.09E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	4.16E-06	5.95E-06	3.41E-06	1.95E-03	1.02E-05	NO DATA	1.57E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	6.22E-05	1.48E-04	1.21E-04	NO DATA	4.79E-05	1.59E-05	2.59E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	7.97E-05	1.09E-04	7.14E-05	NO DATA	3.70E-05	1.23E-05	2.11E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BaLa-140	2.03E-05	2.55E-08	1.33E-06	NO DATA	8.67E-09	1.46E-08	4.18E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	NO DATA	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	066	292	0.00E+00	2.24E-02	2.24E-02	2.24E-02	2.24E-02	2.24E-02	2.24E-02
Dose Commitment (mrem) =										0.00E+00	2.24E-02	2.24E-02	2.24E-02	2.24E-02	2.24E-02	2.24E-02

Oconee Nuclear Station
Dose from Fish Pathway for 2014 Data
Maximum Exposed Adult

Adult Dose from Fish Pathway (mrem) = Usage (kg) x Dose Factor (mrem/pCi ingested) x Concentration (pCi/kg)

H-3 Concentration in Fish = Surface Water pCi/l x Bioaccumulation Factor 0.9 pCi/kg per pCi/l = 3493 pCi/l x 0.9 = 3144 pCi/kg

Usage (intake in one year) = 21 kg

Radionuclide	<u>Ingestion Dose Factor</u>							<u>Highest Annual Net Mean Concentration</u>		<u>Dose (mrem)</u>						
	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI	Location	(pCi/kg)	Bone	Liver	T. Body	Thyroid	Kidney	Lung	GI-LLI
Mn-54	NO DATA	4.57E-06	8.72E-07	NO DATA	1.36E-06	NO DATA	1.40E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	NO DATA	7.45E-07	1.67E-06	NO DATA	NO DATA	NO DATA	1.51E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	4.34E-06	1.02E-05	3.91E-06	NO DATA	NO DATA	2.85E-06	3.40E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	NO DATA	2.14E-06	4.72E-06	NO DATA	NO DATA	NO DATA	4.02E-05	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	4.84E-06	1.54E-05	6.96E-06	NO DATA	1.03E-05	NO DATA	9.70E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	6.22E-05	1.48E-04	1.21E-04	NO DATA	4.79E-05	1.59E-05	2.59E-06	ALL	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	7.97E-05	1.09E-04	7.14E-05	NO DATA	3.70E-05	1.23E-05	2.11E-06	063	5.18	8.67E-03	1.19E-02	7.77E-03	0.00E+00	4.02E-03	1.34E-03	2.30E-04
H-3	NO DATA	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	063	3144	0.00E+00	6.93E-03	6.93E-03	6.93E-03	6.93E-03	6.93E-03	6.93E-03
Dose Commitment (mrem) =										8.67E-03	1.88E-02	1.47E-02	6.93E-03	1.10E-02	8.27E-03	7.16E-03

Oconee Nuclear Station
Dose from Shoreline Sediment Pathway for 2014 Data
Maximum Exposed Adult

Shoreline Recreation = 12 hr (in one year)
 Shore Width Factor = 0.2
 Sediment Surface Mass = 40 kg/m²

Adult Dose from Shoreline Sediment Pathway (mrem) = Shoreline Recreation (hr) x External
 Dose Factor (mrem/hr per pCi/m²) x Shore Width Factor x Sediment Surface Mass (kg/m²) x
 Sediment Concentration (pCi/kg)

External Dose Factor Standing on Contaminated Ground			Highest Annual Net Mean Concentration		<u>Dose</u>	
(mrem/hr per pCi/m ²)					(mrem)	
Radionuclide	T. Body	Skin	Indicator Location	Sediment (pCi/kg)	T. Body	Skin
Cs-134	1.20E-08	1.40E-08	ALL	0.00	0.00E+00	0.00E+00
Cs-137	4.20E-09	4.90E-09	067	21.1	8.51E-06	9.93E-06
Dose Commitment (mrem) =					8.51E-06	9.93E-06

5.0 QUALITY ASSURANCE

5.1 SAMPLE COLLECTION

EnRad Laboratories, Fisheries, and Aquatic Ecology performed the environmental sample collections as specified by approved sample collection procedures.

5.2 SAMPLE ANALYSIS

EnRad Laboratories performed the environmental sample analyses as specified by approved analysis procedures. EnRad Laboratories is located in Huntersville, North Carolina, at Duke Energy's Environmental Center.

5.3 DOSIMETRY ANALYSIS

The Radiation Dosimetry and Records group performed environmental dosimetry measurements as specified by approved dosimetry analysis procedures.

5.4 LABORATORY EQUIPMENT QUALITY ASSURANCE

5.4.1 DAILY QUALITY CONTROL

EnRad Laboratories has an internal quality assurance program which monitors each type of instrumentation for reliability and accuracy. Daily quality control checks ensure that instruments are in proper working order and these checks are used to monitor instrument performance.

5.4.2 CALIBRATION VERIFICATION

National Institute of Standards and Technology (NIST) standards that represent counting geometries are analyzed as unknowns at various frequencies ranging from weekly to annually to verify that efficiency calibrations are valid. The frequency is dependent upon instrument use and performance. Investigations are performed and documented should calibration verification data fall outside of the acceptable limits.

5.4.3 BATCH PROCESSING

Method quality control samples are analyzed with sample analyses that are processed in batches. These include gross beta in drinking water and tritium analyses.

5.5 DUKE ENERGY INTERLABORATORY COMPARISON PROGRAM

In 2014 Duke Energy Environmental Laboratory (EnRad) participated in interlaboratory programs to satisfy Radiological Environmental Monitoring Program requirements in

Duke Energy nuclear plant Offsite Dose Calculation Manuals and Selected Licensee Commitments Manuals, as applicable. In addition, EnRad Laboratory participated in the Environmental Resource Associates (ERA) RadCheMTM Proficiency Testing program to satisfy the North Carolina state drinking water radiochemistry certification requirements.

EnRad Laboratory participated in three interlaboratory programs: Eckert & Ziegler Analytics (EZA), ERA, and Fleet Scientific Services (FSS). EZA results were evaluated against IP 84750 acceptance criteria. ERA reported results were evaluated based on National Environmental Laboratory Accreditation Conference (NELAC) Field of Proficiency Testing criteria. FSS results were evaluated as prescribed in the Duke Energy Nuclear Generation Procedure SRPMP 9-2.

A low-level Iodine-131 in water cross check was not performed during 2014, but was performed during 2013. A low-level Iodine-131 in milk cross check was performed during 2014. The preparation and analysis of both media (milk and water) for the low-level Iodine-131 analysis is accomplished using the EnRad procedure 54, Preparation of Samples for low-level I-131 Analysis. Low-level Iodine-131 sample preparation and testing for both media is a similar process. A low-level Iodine-131 cross check in water is scheduled for the second quarter 2015 cross check program. Low-level Iodine-131 analysis of water was not required during 2014 since the dose calculated for the consumption of the water was not greater than 1 mrem per year in any supported program (PIP G-15-00781 or CR # 744148).

5.5.1 DUKE ENERGY INTERCOMPARISON PROGRAM

EnRad Laboratories participated in the Duke Energy Fleet Scientific Services (FSS) Intercomparison Program during 2014. Interlaboratory cross-check samples, including gamma in water (Marinelli beakers), low-level I-131 in milk, and tritium in water samples were analyzed during 2014. A summary of the EnRad Laboratory program results for 2014 is documented in Table 5.0-A.

5.5.2 ECKERT & ZIEGLER ANALYTICS CROSS CHECK PROGRAM

EnRad Laboratories participated in the Eckert & Ziegler Analytics Cross Check Program during 2014. Cross-check samples including air filters, air cartridges, gross beta in water, various gamma samples in Marinelli beakers (soil, vegetation, and milk), and Iodine in milk samples were analyzed at various times of the year. A summary of the EnRad Laboratory program results for 2014 is documented in Table 5.0-B.

5.5.3 ERA PROFICIENCY TESTING

EnRad Laboratories performed method proficiency testing through a program administered by Environmental Resource Associates (ERA) of Arvada, CO. ERA supplied requested method proficiency samples for analysis and nuclide concentration determination. ERA reported proficiency test results to the North

Carolina Department of Health and Human Services, North Carolina Public Health Drinking Water Laboratory Certification Program. A summary of these proficiency test data for 2014 is documented in Table 5.0-C.

5.6 DUKE ENERGY AUDITS

The Oconee Nuclear Station Radiological Environmental Monitoring Program was audited by the Quality Assurance Group in 2014. No environmental monitoring issues were identified.

5.7 U.S. NUCLEAR REGULATORY COMMISSION INSPECTIONS

The Oconee Nuclear Station Radiological Environmental Monitoring Program was audited by the NRC in 2014. No findings were noted in the 2014 report.

5.8 INTERCOMPARISON PROGRAM

Oconee Nuclear Station routinely participates in an environmental sample intercomparison program. Program elements include sampling frequency and analysis parameters for drinking water, surface water, milk, fish, broadleaf vegetation, and shoreline sediment samples that have been collected. Samples are routinely split with a vendor laboratory for intercomparison analysis.

5.9 TLD INTERCOMPARISON PROGRAM

5.9.1 NUCLEAR TECHNOLOGY SERVICES INTERCOMPARISON PROGRAM

Radiation Dosimetry and Records participates in a quarterly TLD intercomparison program administered by Nuclear Technology Services, Inc. of Roswell, GA. Nuclear Technology Services irradiates environmental dosimeters quarterly and sends them to the Radiation Dosimetry and Records group for analysis of the unknown estimated delivered exposure. A summary of the 2014 Nuclear Technology Services Intercomparison Report is documented in Table 5.0-D. The individual measurements were evaluated and results falling outside the acceptable ratio criteria had an evaluation performed to identify any recommended remedial actions and to reduce anomalous errors. Complete documentation of any evaluation will be available and provided to the NRC upon request.

5.9.2 INTERNAL CROSSCHECK (DUKE ENERGY)

Radiation Dosimetry and Records participates in a quarterly TLD intracomparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimeters quarterly and submits them for analysis of the unknown estimated delivered exposure. A summary of the 2014 Internal Cross Check (Duke Energy) Result is documented in Table 5.0-D.

TABLE 5.0-A

DUKE ENERGY

INTERLABORATORY COMPARISON PROGRAM

2014 EnRad Fleet Scientific Services Cross Check Performance Summary

Cross check samples were distributed by Fleet Scientific Services (FSS) in accordance with Duke Energy Nuclear Generation Procedure SRPMP 9-2. Seven water samples were analyzed for tritium and gamma emitters, while three milk samples were analyzed for low-level I-131. The below table lists results for specific analyses. Fifty- eight results were evaluated as prescribed in procedure SRPMP 9-2. The acceptance criteria for the program was based on the NRC Inspection Manual Procedure 84750 (IP 84750). These results passed the acceptance criteria for the program.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	FSS Value	EnRad/FSS Ratio	Evaluation
Milk LLI-131	Q143LIM1	I-131	3	pCi/L	3.04E+03	2.96E+03	1.03	Agreement
			3	pCi/L	3.06E+03	2.96E+03	1.03	Agreement
			3	pCi/L	3.07E+03	2.96E+03	1.04	Agreement
	Q143LIM2	I-131	3	pCi/L	1.25E+03	1.27E+03	0.98	Agreement
			3	pCi/L	1.25E+03	1.27E+03	0.98	Agreement
			3	pCi/L	1.24E+03	1.27E+03	0.97	Agreement
	Q143LIM3	I-131	3	pCi/L	4.64E+02	4.58E+02	1.01	Agreement
			3	pCi/L	4.70E+02	4.58E+02	1.03	Agreement
Tritium in Water	Q143TWR1	H-3	3	pCi/L	1.77E+03	1.85E+03	0.96	Agreement
			3	pCi/L	1.79E+03	1.85E+03	0.97	Agreement
			3	pCi/L	1.78E+03	1.85E+03	0.96	Agreement
	Q143TWR2	H-3	3	pCi/L	1.76E+05	1.81E+05	0.97	Agreement
			3	pCi/L	1.75E+05	1.81E+05	0.96	Agreement
Tritium in Water	Q141TWR1	H-3	1	pCi/L	1.10E+03	1.05E+03	1.05	Agreement
					1.14E+03	1.05E+03	1.09	Agreement
					1.11E+03	1.05E+03	1.06	Agreement
	Q141TWR2	H-3	1	pCi/L	7.04E+03	7.46E+03	0.94	Agreement
					7.03E+03	7.46E+03	0.94	Agreement
					7.16E+03	7.46E+03	0.96	Agreement
	Q141TWR3	H-3	1	pCi/L	3.13E+03	3.21E+03	0.98	Agreement
					3.11E+03	3.21E+03	0.97	Agreement
					3.13E+03	3.21E+03	0.98	Agreement

TABLE 5.0-A (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	FSS Value	EnRad/FSS Ratio	Evaluation
Gamma in Water	Q143GWSL-1.0 L	Cr-51	3	pCi/L	1.71E+05	1.80E+05	0.95	Agreement
			3	pCi/L	1.70E+05	1.80E+05	0.95	Agreement
		Mn-54	3	pCi/L	6.34E+04	5.99E+04	1.06	Agreement
			3	pCi/L	6.35E+04	5.99E+04	1.06	Agreement
		Co-58	3	pCi/L	6.80E+04	6.89E+04	0.99	Agreement
			3	pCi/L	6.81E+04	6.89E+04	0.99	Agreement
		Fe-59	3	pCi/L	8.72E+04	8.38E+04	1.04	Agreement
			3	pCi/L	8.75E+04	8.38E+04	1.04	Agreement
		Co-60	3	pCi/L	1.27E+05	1.22E+05	1.04	Agreement
			3	pCi/L	1.26E+05	1.22E+05	1.03	Agreement
		Zn-65	3	pCi/L	3.52E+04	3.12E+04	1.13	Agreement
			3	pCi/L	3.53E+04	3.12E+04	1.13	Agreement
		Cs-134	3	pCi/L	5.97E+04	6.35E+04	0.91	Agreement
			3	pCi/L	5.95E+04	6.53E+04	0.91	Agreement
		Cs-137	3	pCi/L	8.01E+04	7.87E+04	1.02	Agreement
			3	pCi/L	7.98E+04	7.87E+04	1.01	Agreement
		Ce-141	3	pCi/L	7.13E+04	7.65E+04	0.93	Agreement
			3	pCi/L	7.24E+04	7.65E+04	0.95	Agreement
	Q143GWSL-3.5 L	Cr-51	3	pCi/L	1.76E+05	1.80E+05	0.98	Agreement
			3	pCi/L	1.73E+05	1.80E+05	0.96	Agreement
		Mn-54	3	pCi/L	6.32E+04	5.99E+04	1.06	Agreement
			3	pCi/L	6.31E+04	5.99E+04	1.05	Agreement
		Co-58	3	pCi/L	6.89E+04	6.89E+04	1.00	Agreement
			3	pCi/L	6.84E+04	6.89E+04	0.99	Agreement
		Fe-59	3	pCi/L	8.54E+04	8.38E+04	1.02	Agreement
			3	pCi/L	8.69E+04	8.38E+04	1.04	Agreement
		Co-60	3	pCi/L	1.28E+05	1.22E+05	1.05	Agreement
			3	pCi/L	1.27E+05	1.22E+05	1.04	Agreement
		Zn-65	3	pCi/L	3.42E+04	3.12E+04	1.10	Agreement
			3	pCi/L	3.45E+04	3.12E+04	1.11	Agreement
		Cs-134	3	pCi/L	6.39E+04	6.53E+04	0.98	Agreement
			3	pCi/L	6.17E+04	6.53E+04	0.95	Agreement
		Cs-137	3	pCi/L	8.11E+04	7.87E+04	1.03	Agreement
			3	pCi/L	8.08E+04	7.87E+04	1.03	Agreement
		Ce-141	3	pCi/L	7.39E+04	7.65E+04	0.97	Agreement
			3	pCi/L	7.36E+04	7.65E+04	0.96	Agreement

TABLE 5.0-B

ECKERT & ZIEGLER ANALYTICS

CROSS CHECK PROGRAM

2014 Cross Check Results for EnRad Laboratories

Cross check samples are received, prepared, and analyzed in all four quarters of 2014. Results are reported directly to Eckert & Ziegler Analytics. Environmental cross check samples were analyzed in replicate, and the result closest to the mean is reported to Eckert & Ziegler Analytics. The acceptance criteria for the program was based on the NRC Inspection Manual Procedure 84750 (IP 84750). Fifty environmental results were reported, of which 49 (98%) met the acceptance criteria based on IP 84750.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Beta Filter in Planchet	E10901	Gross Beta	2	pCi	201	199	1.01	Agreement
Gamma in Soil	E10904	Ce-141	2	pCi/g	0.23	0.24	0.96	Agreement
		Cr-51	2	pCi/g	0.48	0.49	0.98	Agreement
		Cs-134	2	pCi/g	0.24	0.32	0.76	Non-Agreement*
		Cs-137	2	pCi/g	0.27	0.31	0.86	Agreement
		Co-58	2	pCi/g	0.18	0.22	0.83	Agreement
		Mn-54	2	pCi/g	0.29	0.3	0.96	Agreement
		Fe-59	2	pCi/g	0.2	0.2	1.01	Agreement
		Zn-65	2	pCi/g	0.49	0.49	1.00	Agreement
		Co-60	2	pCi/g	0.41	0.44	0.94	Agreement
I-131 in Milk	E10801	I-131	1	pCi/L	93.8	99.8	0.94	Agreement
Gross Beta in Water	E10905	Gross Beta	2	pCi/L	265	249	1.06	Agreement
I-131 Charcoal Cartridge	E10802	I-131	1	pCi	76.1	75.1	1.01	Agreement
Gamma in Vegetation (Coffee Grounds)	E10902	Ce-141	2	pCi/g	0.22	0.24	0.91	Agreement
		Cr-51	2	pCi/g	0.42	0.5	0.85	Agreement
		Cs-134	2	pCi/g	0.28	0.32	0.88	Agreement
		Cs-137	2	pCi/g	0.22	0.24	0.94	Agreement
		Co-58	2	pCi/g	0.21	0.22	0.96	Agreement
		Mn-54	2	pCi/g	0.28	0.3	0.92	Agreement
		Fe-59	2	pCi/g	0.19	0.2	0.95	Agreement
		Zn-65	2	pCi/g	0.44	0.49	0.89	Agreement
		Co-60	2	pCi/g	0.38	0.44	0.87	Agreement

* See PIP G-14-01710

TABLE 5.0-B (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Gamma in Composite Filter	E10987	Ce-141	3	pCi	64.1	62.6	1.02	Agreement
		Cr-51	3	pCi	135	143	0.94	Agreement
		Cs-134	3	pCi	74.6	78.3	0.95	Agreement
		Cs-137	3	pCi	97.8	95.9	1.02	Agreement
		Co-58	3	pCi	71.7	71	1.01	Agreement
		Mn-54	3	pCi	69.5	70.4	0.99	Agreement
		Fe-59	3	pCi	86.8	78.4	1.11	Agreement
		Zn-65	3	pCi	37	36.2	1.02	Agreement
		Co-60	3	pCi	161	148	1.09	Agreement
Gamma in Milk	E10800	I-131	1	pCi/L	97.3	98.5	0.99	Agreement
		Ce-141	1	pCi/L	120	119	1.01	Agreement
		Cr-51	1	pCi/L	505	491	1.03	Agreement
		Cs-134	1	pCi/L	192	210	0.92	Agreement
		Cs-137	1	pCi/L	255	253	1.01	Agreement
		Co-58	1	pCi/L	274	268	1.02	Agreement
		Mn-54	1	pCi/L	314	297	1.06	Agreement
		Fe-59	1	pCi/L	232	219	1.06	Agreement
		Zn-65	1	pCi/L	318	323	0.99	Agreement
		Co-60	1	pCi/L	335	337	0.99	Agreement
Gamma in Soil	E11051	Ce-141	4	pCi/g	0.31	0.35	0.89	Agreement
		Cr-51	4	pCi/g	0.61	0.648	0.94	Agreement
		Cs-134	4	pCi/g	0.25	0.263	0.95	Agreement
		Cs-137	4	pCi/g	0.36	0.396	0.91	Agreement
		Co-58	4	pCi/g	0.19	0.208	0.91	Agreement
		Mn-54	4	pCi/g	0.35	0.36	0.97	Agreement
		Fe-59	4	pCi/g	0.27	0.279	0.97	Agreement
		Zn-65	4	pCi/g	0.46	0.474	0.97	Agreement
		Co-60	4	pCi/g	0.34	0.375	0.91	Agreement

TABLE 5.0-C

ENVIRONMENTAL RESOURCE ASSOCIATES (ERA) PROFICIENCY TESTING

2014 Proficiency Test Results for EnRad Laboratories

North Carolina Department of Health and Human Services Laboratory Certification
EnRad Laboratories

Proficiency test samples are received, prepared, and analyzed in second and fourth quarters of 2014. Results are reported directly to Environmental Resource Associates as described in the instruction package within the study period. Proficiency test data are reported to ERA for evaluation. The acceptance criteria for the program was based on the National Environmental Laboratory Accreditation Conference (NELAC) Field of Proficiency Testing criteria. Fourteen results were reported of which 14 (100 %) met the acceptance criteria. ERA reports proficiency test results to the North Carolina Department of Health and Human Services, North Carolina Public Drinking Water Laboratory Certification Program. This testing is to satisfy the North Carolina state drinking water radiochemistry certification requirements.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	ERA Value	Acceptance Limits	Evaluation
Gamma Emitters in Water	RAD-97	Ba-133	2	pCi/L	87.51	87.9	74.0 - 96.7	Agreement
		Cs-134	2	pCi/L	41.01	44.3	35.5 - 48.7	Agreement
		Cs-137	2	pCi/L	85.47	89.1	80.2 - 101	Agreement
		Co-60	2	pCi/L	62.75	64.2	57.8 - 73.1	Agreement
		Zn-65	2	pCi/L	249.8	235	212 - 275	Agreement
Gamma Emitters in Water	RAD-99	Ba-133	4	pCi/L	46.9	49.1	40.3 - 54.5	Agreement
		Cs-134	4	pCi/L	81.7	89.8	73.7 - 98.8	Agreement
		Cs-137	4	pCi/L	96.9	98.8	88.9 - 111	Agreement
		Co-60	4	pCi/L	91	92.1	82.9 - 104	Agreement
		Zn-65	4	pCi/L	335	310	279 - 362	Agreement
Tritium in Water	RAD-97	H-3	2	pCi/L	8680	8770	7610 - 9650	Agreement
	RAD-99	H-3	4	pCi/L	6290	6880	5940 - 7570	Agreement
Iodine-131 in Water	RAD-97	I-131	2	pCi/L	25.9	25.7	21.3 - 30.3	Agreement
	RAD-99	I-131	4	pCi/L	20.4	20.3	16.8 - 24.4	Agreement

TABLE 5.0-D

2014 ENVIRONMENTAL DOSIMETER CROSS-CHECK RESULTS

Nuclear Technology Services

Radiation Dosimetry and Records participates in a quarterly TLD intercomparison program administered by Nuclear Technology Services, Inc. of Roswell, GA. Nuclear Technology Services irradiates environmental dosimeters quarterly and sends them to the Radiation Dosimetry and Records group for analysis of the unknown estimated delivered exposure. The individual measurements were evaluated and results falling outside the acceptable ratio criteria had an evaluation performed to identify any recommended remedial actions and to reduce anomalous errors. Complete documentation of any evaluation will be available and provided to the NRC upon request.

1st Quarter 2014						2nd Quarter 2014					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
102403	93.2	90.40	3.12	<+/-15%	Pass	102196	18.07	18.66	-3.16	<+/-15%	Pass
103045	99.3	90.40	9.87	<+/-15%	Pass	102193	19.44	18.66	4.18	<+/-15%	Pass
103009	101.0	90.40	11.76	<+/-15%	Pass	102192	17.28	18.66	-7.40	<+/-15%	Pass
102243	90.3	90.40	-0.09	<+/-15%	Pass	102176	17.70	18.66	-5.14	<+/-15%	Pass
102858	97.9	90.40	8.33	<+/-15%	Pass	102175	18.66	18.66	0.00	<+/-15%	Pass
Average Bias (B)			6.60			Average Bias (B)			-2.30		
Standard Deviation (S)			4.93			Standard Deviation (S)			4.53		
Measure Performance B +S			11.53	<15%	Pass	Measure Performance B +S			6.83	<15%	Pass
3rd Quarter 2014						4th Quarter 2014					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
103705	70.04	69.7	0.49	<+/-15%	Pass	101241	84.63	77.7	8.92	<+/-15%	Pass
103704	69.36	69.7	-0.49	<+/-15%	Pass	103494	87.46	77.7	12.56	<+/-15%	Pass
103686	71.90	69.7	3.16	<+/-15%	Pass	103229	88.45	77.7	13.84	<+/-15%	Pass
103685	72.82	69.7	4.48	<+/-15%	Pass	103493	89.19	77.7	14.79	<+/-15%	Pass
103517	73.71	69.7	5.75	<+/-15%	Pass	103044	91.02	77.7	17.14	<+/-15%	**Fail
Average Bias (B)			2.68			Average Bias (B)			13.45		
Standard Deviation (S)			2.63			Standard Deviation (S)			3.04		
Measure Performance B +S			5.31	<15%	Pass	Measure Performance B +S			16.49	<15%	**Fail

**Refer to PIP G-15-00554

TABLE 5.0-D (Cont.)

Internal Crosscheck (Duke Energy)

Radiation Dosimetry and Records participates in a quarterly TLD intracomparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimeters quarterly and submits them for analysis of the unknown estimated delivered exposure.

1st Quarter 2014						2nd Quarter 2014					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
101221	30.14	32.7	-7.83	<+/-15%	Pass	103635	22.36	21.8	2.57	<+/-15%	Pass
102801	32.82	32.7	0.37	<+/-15%	Pass	102777	22.93	21.8	5.18	<+/-15%	Pass
100019	30.32	32.7	-7.28	<+/-15%	Pass	103181	22.78	21.8	4.50	<+/-15%	Pass
103173	32.14	32.7	-1.71	<+/-15%	Pass	103218	22.82	21.8	4.68	<+/-15%	Pass
100085	30.90	32.7	-5.50	<+/-15%	Pass	103657	22.29	21.8	2.25	<+/-15%	Pass
101024	30.92	32.7	-5.44	<+/-15%	Pass	102927	21.90	21.8	0.46	<+/-15%	Pass
100350	30.73	32.7	-6.02	<+/-15%	Pass	103396	21.54	21.8	-1.19	<+/-15%	Pass
102359	30.71	32.7	-6.09	<+/-15%	Pass	102723	22.84	21.8	4.77	<+/-15%	Pass
103174	30.26	32.7	-7.46	<+/-15%	Pass	103394	22.47	21.8	3.07	<+/-15%	Pass
101376	31.49	32.7	-3.70	<+/-15%	Pass	103058	22.36	21.8	2.57	<+/-15%	Pass
Average Bias (B)			-5.07			Average Bias (B)			2.89		
Standard Deviation (S)			2.65			Standard Deviation (S)			2.05		
Measure Performance B +S			7.72	<15%	Pass	Measure Performance B +S			4.93	<15%	Pass
3rd Quarter 2014						4th Quarter 2014					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
102737	47.05	43.6	7.91	<+/-15%	Pass	102768	57.48	54.5	5.47	<+/-15%	Pass
102750	46.06	43.6	5.64	<+/-15%	Pass	103263	55.38	54.5	1.61	<+/-15%	Pass
102773	48.32	43.6	10.83	<+/-15%	Pass	103453	56.30	54.5	3.30	<+/-15%	Pass
102824	45.81	43.6	5.07	<+/-15%	Pass	102746	54.25	54.5	-0.46	<+/-15%	Pass
102397	44.38	43.6	1.79	<+/-15%	Pass	103656	56.09	54.5	2.92	<+/-15%	Pass
102832	46.37	43.6	6.35	<+/-15%	Pass	102482	53.50	54.5	-1.83	<+/-15%	Pass
102725	47.00	43.6	7.80	<+/-15%	Pass	103446	54.71	54.5	0.39	<+/-15%	Pass
102481	45.21	43.6	3.69	<+/-15%	Pass	103339	53.55	54.5	-1.74	<+/-15%	Pass
102758	45.97	43.6	5.44	<+/-15%	Pass	103582	53.97	54.5	-0.97	<+/-15%	Pass
103120	46.87	43.6	7.50	<+/-15%	Pass	103288	55.43	54.5	1.71	<+/-15%	Pass
Average Bias (B)			6.20			Average Bias (B)			1.04		
Standard Deviation (S)			2.51			Standard Deviation (S)			2.40		
Measure Performance B +S			8.71	<15%	Pass	Measure Performance B +S			3.44	<15%	Pass

APPENDIX A

**ENVIRONMENTAL SAMPLING
&
ANALYSIS PROCEDURES**

APPENDIX A

ENVIRONMENTAL SAMPLING AND ANALYSIS PROCEDURES

Adherence to established procedures for sampling and analysis of all environmental media at Oconee Nuclear Station is required to ensure compliance with Station Selected Licensee Commitments. Analytical procedures were employed to ensure that Selected Licensee Commitments detection capabilities were achieved.

Environmental sampling and analyses were performed by EnRad Laboratories, Dosimetry and Records, and Fisheries and Aquatic Ecology.

Section IV of this appendix describes the environmental sampling frequencies and analysis procedures by media type.

I. CHANGE OF SAMPLING PROCEDURES

No changes were made to the sampling procedures during 2014.

II. DESCRIPTION OF ANALYSIS PROCEDURES

Gamma spectroscopy analyses are performed using high purity germanium gamma detectors and Canberra analytical software. Designated sample volumes are transferred to appropriate counting geometries and analyzed by gamma spectroscopy. Perishable samples such as fish and broadleaf vegetation are ground to achieve a homogeneous mixture. Soils and sediments are dried, sifted to remove foreign objects (rocks, clams, glass, etc.) then transferred to appropriate counting geometry.

Low-level iodine analyses are performed by passing a designated sample aliquot through a pre-weighed amount of ion exchange resin to remove and concentrate any iodine in the aqueous sample (milk). The resin is then dried, mixed thoroughly, and a net resin weight determined before being transferred to appropriate counting geometry and analyzed by gamma spectroscopy.

Tritium analyses are performed quarterly by using low-level environmental liquid scintillation analysis technique on a Packard 2550 liquid scintillation system or Perkin-Elmer 2900TR liquid scintillation system. Tritium samples are distilled and batch processed with a laboratory fortified blank, matrix spike, matrix spike duplicate, and blank to verify instrument performance and sample preparation technique are acceptable.

Gross beta analysis is performed by concentrating a designated aliquot of sample precipitate and analyzing by Tennelec XLB Series 5 gas-flow proportional counters.

Samples are batch processed with a blank to ensure sample contamination has not occurred.

III. CHANGE OF ANALYSIS PROCEDURES

REMP analytical results reporting with 2 Sigma error was initiated during 2014, replacing the 1 Sigma error reporting (PIP G-14-01981).

Low-level Iodine-131 (LLI-131) test components were modified to include only the LLI-131 component; all other components such as Beryllium-7 and Potassium-40 were removed (PIP G-14-02526).

Gamma spectroscopy milk Iodine-131 MDA requirement was removed from the “GAMMAMILK” analysis as the required low-level Iodine-131 (LLI-131) requirement is satisfied by the “GAMMALLI” LLI-131 preparation and testing procedure and gamma spectroscopy analysis (PIP G-14-02692).

The gamma spectroscopy system was replaced during 2014 (10JUL2014). Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (PIP G-15-000625).

IV. SAMPLING AND ANALYSIS PROCEDURES

A.1 AIRBORNE PARTICULATE AND RADIOIODINE

Airborne particulate and radioiodine samples at each of six locations were composited continuously by means of continuous air samplers. Air particulates were collected on a particulate filter and radioiodines were collected in a charcoal cartridge positioned behind the filter in the sampler. The samplers are designed to operate at a constant flow rate (in order to compensate for any filter loading) and are set to sample approximately 2 cubic feet per minute. Filters and cartridges were collected weekly. A separate weekly gamma analysis was performed on each charcoal cartridge. A weekly gross beta analysis was performed on each filter. A quarterly gamma analysis was performed on the quarterly filter composite (by location). The continuous composite samples were collected from the locations listed below.

Location 077 = Skimmer Wall (1.00 mi. SW)
Location 078.1 = Recreation Site (0.53 mi. WSW)
Location 079 = Keowee Dam (0.56 mi. NE)
Location 081 = Clemson Operations Center (9.33 mi. SE)(Control)
Location 084 = Sue Craig Road (2.58 mi. NNE)
Location 085 = Lake Services / Building B9125 (0.88 mi. NNW)

A.2 DRINKING WATER

Monthly composite samplers were operated to collect an aliquot at least every two hours. Gross beta and gamma analysis was performed on the monthly composites. Tritium analysis was performed on the quarterly composites. The composites were collected monthly from the locations listed below.

Location 060 = Greenville Water Intake Rd. (3.23 mi. NE)
Location 064 = Seneca (6.67 mi. SSW)(Control)
Location 066 = Anderson (18.9 mi SSE)

A.3 SURFACE WATER

Monthly composite samplers were operated to collect an aliquot at least every two hours. Gamma analysis was performed on the monthly composites. Tritium analysis was performed on the quarterly composites sample. The composites were collected monthly from the locations listed below.

Location 062 = Lake Keowee Hydro Intake (0.85 mi. ENE)(Control)
Location 063.1 = Lake Hartwell Hwy 183 Bridge (0.79 mi. E)

A.4 MILK

Biweekly grab samples were collected at one location although the Oconee ODCM requires semimonthly samples. Biweekly grab samples are taken to meet the required sample frequency for scheduling purposes. A gamma and low-level Iodine-131 analysis was performed on each sample. The biweekly grab samples were collected from the location listed below.

Location 071 = Clemson Dairy (10.2 mi. SSE)(Control)

A.5 BROADLEAF VEGETATION

Monthly samples were collected and a gamma analysis was performed on each sample. The samples were collected from the locations listed below.

Location 077 = Skimmer Wall (1.00 mi. SW)
Location 079 = Keowee Dam (0.56 mi. NE)
Location 081 = Clemson Operations Center (9.33 mi. SE)(Control)
Location 084 = Sue Craig Road (2.58 mi. NNE)

A.6 FISH

Semiannual samples were collected and a gamma analysis was performed on the edible portions of each sample. The samples were collected from the locations listed below.

Location 060 = Greenville Water Intake Rd. (2.28 mi. NE)(Control)

Location 063 = Lake Hartwell Hwy 183 Bridge (0.80 mi. ESE)
Location 067 = Lawrence Ramsey Bridge Hwy 27 (4.34 mi. SSE)

A.7 SHORELINE SEDIMENT

Semiannual samples were collected and a gamma analysis was performed on each sample following the drying and removal of rocks and clams. The samples were collected from the locations listed below.

Location 063 = Lake Hartwell Hwy 183 Bridge (0.80 mi. ESE)
Location 067 = Lawrence Ramsey Bridge Hwy 27 (4.34 mi. SSE)
Location 068 = High Falls County Park (1.82 mi. W)(Control)

A.8 DIRECT GAMMA RADIATION (TLD)

Thermoluminescent dosimeters (TLD) were collected quarterly at forty-two locations. A gamma exposure rate was determined for each TLD. The TLDs were placed as indicated below.

- * An inner ring of 17 TLDs, one in each meteorological sector in the general area of the site boundary.
- * An outer ring of 16 TLDs, one in each meteorological sector in the 6 to 8 kilometer range.
- * The remaining TLDs were placed in special interest areas such as population centers, residential areas, schools, and control locations.

TLD Locations are listed in Table 2.1-B.

A.9 ANNUAL LAND USE CENSUS

An annual Land Use Census was conducted to identify within a distance of 8 kilometers (5.0 miles) from the station, the following locations in each of the sixteen meteorological sectors:

- * The Nearest Residence
- * The Nearest Milk-giving Animal (cow, goat, etc.) where milk is used for human consumption

The census was conducted during the growing season 5/12 – 5/13/2014. Results are shown in Table 3.9. No changes were made to the sampling procedures during 2014 as a result of the 2014 census.

V. GLOBAL POSITIONING SYSTEM (GPS) ANALYSIS

The Oconee site centerline used for GPS measurements was referenced from the Oconee Nuclear Station Updated Final Safety Analysis Report (UFSAR), section 2.1.1.1, Specification of Location. Waypoint coordinates used for ONS GPS measurements were latitude 34°-47'-38.2"N and longitude 82°-53'-55.4"W. Maps and tables were generated using North American Datum (NAD) 27. Data normally reflect accuracy to within 2 to 5 meters from point of measurement. GPS field measurements were taken as close as possible to the item of interest. Distances for the locations are displayed using three significant figures.

APPENDIX B

**RADIOLOGICAL
ENVIRONMENTAL MONITORING
PROGRAM**

SUMMARY OF RESULTS

2014

**OCONEE NUCLEAR STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY**

Oconee Nuclear Station
Oconee County, South Carolina

Docket Numbers 50-269, 270, 287
Calendar Year 2014

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations ^{(2) (3)} Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range ^{(2) (3)}	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean Range ^{(2) (3)}		
Air Particulate (pCi/m ³)	Gross Beta 312 ⁽⁴⁾	See Table 2.2-C	2.01E-2 (260/260) 9.82E-3 – 3.55E-2	084 (2.58 mi NNE)	2.11E-2 (52/52) 1.32E-2 – 3.28E-2	081 (9.33 mi SE) 1.86E-2 (52/52) 9.53E-3 – 2.93E-2	0
	Gamma 24	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Air Radioiodine (pCi/m ³)	Gamma 312 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Drinking Water (pCi/l)	Gross Beta 39	4	1.33 (20/26) 0.72 – 2.34	066 (18.9 mi SSE)	1.43 (13/13) 0.82 – 2.34	064 (6.67 mi SSW) 1.12 (10/13) 0.76 – 1.74	0
	Gamma 39	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Tritium 12	2000	292 (2/8) 223 - 361	066 (18.9 mi SSE)	292 (2/4) 223 - 361	All less than LLD	0
Surface Water (pCi/l)	Gamma 26	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Tritium 8	2000	3493 (4/4) 1420 - 6960	063.1 (0.79 mi E)	3493 (4/4) 1420 - 6960	All less than LLD	0
Milk (pCi/l)	Gamma 26	See Table 2.2-C	No Indicator Location	-----	-----	All less than LLD	0
	I-131 26	See Table 2.2-C	No Indicator Location	-----	-----	All less than LLD	0

**OCONEE NUCLEAR STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY**

Oconee Nuclear Station
Oconee County, South Carolina

Docket Numbers 50-269, 270, 287
Calendar Year 2014

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations ^{(2) (3)} Mean Range	Location w/Highest Annual Mean		Control Locations Mean Range ^{(2) (3)}	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean Range ^{(2) (3)}		
Broadleaf Vegetation (pCi/kg, wet)	Gamma 48	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Fish (pCi/kg, wet)	Gamma 12	See Table 2.2-C	13.4 (2/8)	063	14.0 (2/4)	060 (2.28 mi NE)	0
	Cs-137	150	10.2 – 17.7	(0.80 mi ESE)	10.2 – 17.7	8.82 (2/4) 7.44 – 10.2	
Sediments--Shoreline (pCi/kg, dry)	Gamma 6	See Table 2.2-C	21.1 (1/4)	067	21.1 (1/2)	All less than LLD	0
	Cs-137	180	21.1 – 21.1	(4.34 mi SSE)	21.1 – 21.1		
TLD (mR per quarter) ⁽⁵⁾	TLD Readout 167 ⁽⁴⁾	-----	21.4 (159/159)	048	27.2 (4/4)	058 (9.39 mi WSW)	0
			12.5 – 29.6	(3.64 mi W)	24.2 – 29.2	081 (9.33 mi SE) 27.5 (8/8) 22.2 – 34.9	

Footnotes to Appendix B

1. The Lower Limit of Detection (LLD) is the smallest concentration of radioactive material in a sample that will yield a net count above system background which will be detected with 95 percent probability and with only 5 percent probability of falsely concluding that a blank observation represents a "real" signal. Due to counting statistics and varying volumes, occasionally lower LLDs are achieved. Refer to Section 2.3.2 for an explanation of how LLD values were derived.
2. Mean and range are based on detectable measurements only.
3. The fractions of all samples with detectable activities at specific locations are indicated in parentheses.
4. Missing samples or surveillances are discussed in Appendix C or Appendix D.
5. TLD exposure is reported in milliroentgen (mR) per standard quarter (91 days).

APPENDIX C

**SAMPLING DEVIATIONS
&
UNAVAILABLE ANALYSES**

APPENDIX C

OCONEE NUCLEAR STATION SAMPLING DEVIATIONS & UNAVAILABLE ANALYSES

DEVIATION & UNAVAILABLE REASON CODES			
BF	Blown Fuse	PO	Power Outage
FZ	Sample Frozen	PS	Pump out of service / Undergoing Repair
IW	Inclement Weather	SL	Sample Loss/Lost due to Lab Accident
LC	Line Clog to Sampler	SM	Motor / Rotor Seized
OT	Other	TF	Torn Filter
PI	Power Interrupt	VN	Vandalism
PM	Preventive Maintenance	CN	Construction

C.1 SAMPLING DEVIATIONS

Air Particulate and Air Radioiodines

Location	Scheduled Collection Dates	Actual Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action Identity
085	1/6 – 1/13/2014	1/6 – 1/13/2014	PI	Power to sampling equipment interrupted for about 14.22 hours due to undetermined reason. Power was restored and no work request was necessary as a result of this event.	G-14-00078

C.2 UNAVAILABLE ANALYSES

TLD

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action Identity
043	12/17/2013 – 3/18/2014	VN	TLD missing. 2nd quarter TLD placed.	G-14-00645

APPENDIX D

ANALYTICAL DEVIATIONS

No Analytical deviations were incurred for the
2014 Radiological Environmental Monitoring Program

APPENDIX E

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM RESULTS

2014

This appendix includes sample analysis report summaries and supportive data generated from each sample medium for 2014.

OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	280641	Sample Dates:	12/30/2013 - 1/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.00E-02	1.46E-03	3.19E-03
Sample ID:	280814	Sample Dates:	1/6/2014 - 1/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.48E-02	1.42E-03	3.53E-03
Sample ID:	281173	Sample Dates:	1/13/2014 - 1/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.60E-02	1.40E-03	3.27E-03
Sample ID:	281494	Sample Dates:	1/20/2014 - 1/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.79E-02	1.43E-03	3.23E-03
Sample ID:	282117	Sample Dates:	1/27/2014 - 2/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.14E-02	1.51E-03	3.25E-03
Sample ID:	282929	Sample Dates:	2/3/2014 - 2/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.73E-02	1.42E-03	3.22E-03
Sample ID:	283376	Sample Dates:	2/10/2014 - 2/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.40E-02	1.54E-03	3.08E-03
Sample ID:	284543	Sample Dates:	2/17/2014 - 2/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.00E-02	1.46E-03	3.16E-03
Sample ID:	285104	Sample Dates:	2/24/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.41E-02	1.55E-03	3.18E-03
Sample ID:	285709	Sample Dates:	3/3/2014 - 3/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.87E-02	1.43E-03	3.08E-03
Sample ID:	286213	Sample Dates:	3/10/2014 - 3/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.07E-02	1.40E-03	2.68E-03
Sample ID:	287098	Sample Dates:	3/17/2014 - 3/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.41E-02	1.31E-03	3.09E-03
Sample ID:	288349	Sample Dates:	3/24/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.11E-02	1.40E-03	2.71E-03
Sample ID:	289037	Sample Dates:	12/30/2013 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<2.73E-04	0.00E+00	2.73E-04
				Cs-137	<3.35E-04	0.00E+00	3.35E-04
				Be-7	1.28E-01	5.95E-03	5.07E-03
				K-40	9.33E-03	1.76E-03	3.04E-03
Sample ID:	289073	Sample Dates:	3/31/2014 - 4/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.69E-02	1.43E-03	3.28E-03
Sample ID:	289459	Sample Dates:	4/7/2014 - 4/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.89E-02	1.34E-03	2.57E-03
Sample ID:	289869	Sample Dates:	4/14/2014 - 4/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.81E-02	1.44E-03	3.25E-03
Sample ID:	291474	Sample Dates:	4/21/2014 - 4/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.25E-02	1.48E-03	2.92E-03
Sample ID:	292768	Sample Dates:	4/28/2014 - 5/5/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.88E-02	1.42E-03	2.98E-03
Sample ID:	293030	Sample Dates:	5/5/2014 - 5/12/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	3.02E-02	1.62E-03	2.81E-03
Sample ID:	294661	Sample Dates:	5/12/2014 - 5/19/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.89E-02	1.43E-03	3.06E-03
Sample ID:	295170	Sample Dates:	5/19/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.25E-02	1.35E-03	2.53E-03
Sample ID:	295431	Sample Dates:	5/27/2014 - 6/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.15E-02	1.66E-03	3.54E-03
Sample ID:	295946	Sample Dates:	6/2/2014 - 6/9/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.60E-02	1.36E-03	3.10E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	296191	Sample Dates:	6/9/2014 - 6/16/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.37E-02	1.29E-03	3.05E-03
Sample ID:	296712	Sample Dates:	6/16/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.51E-02	1.53E-03	2.93E-03
Sample ID:	296939	Sample Dates:	6/23/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.74E-02	1.40E-03	3.05E-03
Sample ID:	297301	Sample Dates:	3/31/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<1.63E-03	0.00E+00	1.63E-03
				Cs-137	<2.34E-03	0.00E+00	2.34E-03
				Be-7	1.53E-01	4.62E-02	3.80E-02
				K-40	<5.37E-02	0.00E+00	5.37E-02
Sample ID:	297336	Sample Dates:	6/30/2014 - 7/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.96E-02	2.78E-03	2.92E-03
Sample ID:	297624	Sample Dates:	7/7/2014 - 7/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.05E-02	2.94E-03	3.24E-03
Sample ID:	298160	Sample Dates:	7/14/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.08E-02	2.82E-03	2.96E-03
Sample ID:	350188	Sample Dates:	7/21/2014 - 7/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.92E-02	2.77E-03	2.91E-03
Sample ID:	350929	Sample Dates:	7/28/2014 - 8/4/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.92E-02	2.79E-03	3.05E-03
Sample ID:	351175	Sample Dates:	8/4/2014 - 8/11/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	3.55E-02	3.43E-03	2.89E-03
Sample ID:	351614	Sample Dates:	8/11/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.23E-02	2.89E-03	2.97E-03
Sample ID:	353425	Sample Dates:	8/18/2014 - 8/25/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.66E-02	2.83E-03	3.38E-03
Sample ID:	354055	Sample Dates:	8/25/2014 - 9/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.46E-02	2.70E-03	2.42E-03
Sample ID:	354444	Sample Dates:	9/2/2014 - 9/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.65E-02	2.93E-03	3.43E-03
Sample ID:	354760	Sample Dates:	9/8/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.25E-02	2.48E-03	3.11E-03
Sample ID:	355159	Sample Dates:	9/15/2014 - 9/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.92E-02	3.35E-03	3.39E-03
Sample ID:	355632	Sample Dates:	9/22/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.35E-02	2.54E-03	3.08E-03
Sample ID:	355638	Sample Dates:	6/30/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<1.02E-03	0.00E+00	1.02E-03
				Cs-137	<8.90E-04	0.00E+00	8.90E-04
				Be-7	9.57E-02	2.27E-02	2.21E-02
				K-40	1.46E-02	7.44E-03	2.48E-03
Sample ID:	356495	Sample Dates:	9/29/2014 - 10/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.34E-02	3.03E-03	3.21E-03
Sample ID:	357047	Sample Dates:	10/6/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.31E-02	2.82E-03	2.66E-03
Sample ID:	358046	Sample Dates:	10/13/2014 - 10/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.42E-02	2.54E-03	2.97E-03
Sample ID:	358654	Sample Dates:	10/20/2014 - 10/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.33E-02	2.82E-03	2.61E-03
Sample ID:	359288	Sample Dates:	10/27/2014 - 11/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.64E-02	3.21E-03	3.34E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	360028	Sample Dates:	11/3/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.42E-02	2.93E-03	2.85E-03
Sample ID:	360710	Sample Dates:	11/10/2014 - 11/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.97E-02	3.26E-03	3.06E-03
Sample ID:	361572	Sample Dates:	11/17/2014 - 11/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.78E-02	3.18E-03	3.07E-03
Sample ID:	361951	Sample Dates:	11/24/2014 - 12/1/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.89E-02	2.81E-03	3.13E-03
Sample ID:	362781	Sample Dates:	12/1/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.10E-02	2.92E-03	3.21E-03
Sample ID:	363521	Sample Dates:	12/8/2014 - 12/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.41E-02	2.95E-03	2.79E-03
Sample ID:	363968	Sample Dates:	12/15/2014 - 12/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.77E-02	3.17E-03	3.09E-03
Sample ID:	364504	Sample Dates:	12/22/2014 - 12/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.44E-02	2.51E-03	2.90E-03
Sample ID:	364510	Sample Dates:	9/29/2014 - 12/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<7.23E-04	0.00E+00	7.23E-04
				Cs-137	<7.00E-04	0.00E+00	7.00E-04
				Be-7	1.16E-01	2.27E-02	1.68E-02
				K-40	<1.73E-02	0.00E+00	1.73E-02

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID:	280642	Sample Dates:	12/30/2013 - 1/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.73E-02	1.40E-03	3.18E-03
Sample ID:	280815	Sample Dates:	1/6/2014 - 1/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.48E-02	1.42E-03	3.52E-03
Sample ID:	281174	Sample Dates:	1/13/2014 - 1/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.47E-02	1.37E-03	3.27E-03
Sample ID:	281495	Sample Dates:	1/20/2014 - 1/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.96E-02	1.47E-03	3.23E-03
Sample ID:	282118	Sample Dates:	1/27/2014 - 2/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.94E-02	1.46E-03	3.25E-03
Sample ID:	282930	Sample Dates:	2/3/2014 - 2/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.69E-02	1.41E-03	3.23E-03
Sample ID:	283377	Sample Dates:	2/10/2014 - 2/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.00E-02	1.45E-03	3.08E-03
Sample ID:	284544	Sample Dates:	2/17/2014 - 2/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.05E-02	1.47E-03	3.15E-03
Sample ID:	285105	Sample Dates:	2/24/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.42E-02	1.56E-03	3.19E-03
Sample ID:	285710	Sample Dates:	3/3/2014 - 3/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.87E-02	1.43E-03	3.08E-03
Sample ID:	286214	Sample Dates:	3/10/2014 - 3/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.74E-02	1.32E-03	2.68E-03
Sample ID:	287099	Sample Dates:	3/17/2014 - 3/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.22E-02	1.26E-03	3.09E-03
Sample ID:	288350	Sample Dates:	3/24/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.17E-02	1.42E-03	2.72E-03
Sample ID:	289038	Sample Dates:	12/30/2013 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<3.61E-04	0.00E+00	3.61E-04
				Cs-137	<3.32E-04	0.00E+00	3.32E-04

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID:	289038	Sample Dates:	12/30/2013 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Be-7	1.41E-01	6.14E-03	5.38E-03
				K-40	9.65E-03	2.21E-03	3.46E-03
Sample ID:	289074	Sample Dates:	3/31/2014 - 4/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.66E-02	1.42E-03	3.27E-03
Sample ID:	289460	Sample Dates:	4/7/2014 - 4/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.76E-02	1.31E-03	2.58E-03
Sample ID:	289870	Sample Dates:	4/14/2014 - 4/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.72E-02	1.42E-03	3.25E-03
Sample ID:	291475	Sample Dates:	4/21/2014 - 4/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.49E-02	1.53E-03	2.94E-03
Sample ID:	292769	Sample Dates:	4/28/2014 - 5/5/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.02E-02	1.45E-03	2.98E-03
Sample ID:	293031	Sample Dates:	5/5/2014 - 5/12/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	3.04E-02	1.63E-03	2.82E-03
Sample ID:	294662	Sample Dates:	5/12/2014 - 5/19/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.84E-02	1.42E-03	3.06E-03
Sample ID:	295171	Sample Dates:	5/19/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.16E-02	1.33E-03	2.53E-03
Sample ID:	295432	Sample Dates:	5/27/2014 - 6/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.91E-02	1.59E-03	3.54E-03
Sample ID:	295947	Sample Dates:	6/2/2014 - 6/9/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.36E-02	1.30E-03	3.09E-03
Sample ID:	296192	Sample Dates:	6/9/2014 - 6/16/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.19E-02	1.25E-03	3.05E-03
Sample ID:	296713	Sample Dates:	6/16/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.86E-02	1.39E-03	2.93E-03
Sample ID:	296940	Sample Dates:	6/23/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.46E-02	1.32E-03	3.05E-03
Sample ID:	297302	Sample Dates:	3/31/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<7.99E-04	0.00E+00	7.99E-04
				Cs-137	<8.95E-04	0.00E+00	8.95E-04
				Be-7	1.33E-01	2.84E-02	2.54E-02
				K-40	7.54E-03	7.32E-03	1.08E-02
Sample ID:	297337	Sample Dates:	6/30/2014 - 7/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.87E-02	2.73E-03	2.92E-03
Sample ID:	297625	Sample Dates:	7/7/2014 - 7/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.72E-02	2.79E-03	3.24E-03
Sample ID:	298161	Sample Dates:	7/14/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.39E-02	2.50E-03	2.96E-03
Sample ID:	350189	Sample Dates:	7/21/2014 - 7/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.62E-02	2.61E-03	2.91E-03
Sample ID:	350930	Sample Dates:	7/28/2014 - 8/4/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.61E-02	2.65E-03	3.06E-03
Sample ID:	351176	Sample Dates:	8/4/2014 - 8/11/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.81E-02	3.15E-03	2.89E-03
Sample ID:	351615	Sample Dates:	8/11/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.02E-02	2.80E-03	2.97E-03
Sample ID:	353426	Sample Dates:	8/18/2014 - 8/25/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.87E-02	2.92E-03	3.37E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID:	354057	Sample Dates:	8/25/2014 - 9/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.09E-02	2.54E-03	2.42E-03
Sample ID:	354445	Sample Dates:	9/2/2014 - 9/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.12E-02	2.66E-03	3.42E-03
Sample ID:	354761	Sample Dates:	9/8/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.16E-02	2.44E-03	3.11E-03
Sample ID:	355162	Sample Dates:	9/15/2014 - 9/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.75E-02	3.28E-03	3.39E-03
Sample ID:	355633	Sample Dates:	9/22/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.30E-02	2.51E-03	3.08E-03
Sample ID:	355639	Sample Dates:	6/30/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<7.95E-04	0.00E+00	7.95E-04
				Cs-137	<6.83E-04	0.00E+00	6.83E-04
				Be-7	1.24E-01	2.45E-02	1.90E-02
				K-40	<1.77E-02	0.00E+00	1.77E-02
Sample ID:	356497	Sample Dates:	9/29/2014 - 10/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.26E-02	3.00E-03	3.21E-03
Sample ID:	357048	Sample Dates:	10/6/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.40E-02	2.87E-03	2.67E-03
Sample ID:	358047	Sample Dates:	10/13/2014 - 10/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.21E-02	2.42E-03	2.96E-03
Sample ID:	358655	Sample Dates:	10/20/2014 - 10/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.26E-02	2.79E-03	2.61E-03
Sample ID:	359290	Sample Dates:	10/27/2014 - 11/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.15E-02	3.01E-03	3.34E-03
Sample ID:	360029	Sample Dates:	11/3/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.58E-02	3.01E-03	2.85E-03
Sample ID:	360711	Sample Dates:	11/10/2014 - 11/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	3.17E-02	3.34E-03	3.06E-03
Sample ID:	361573	Sample Dates:	11/17/2014 - 11/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.50E-02	3.06E-03	3.07E-03
Sample ID:	361952	Sample Dates:	11/24/2014 - 12/1/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.84E-02	2.79E-03	3.13E-03
Sample ID:	362782	Sample Dates:	12/1/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.05E-02	2.90E-03	3.21E-03
Sample ID:	363522	Sample Dates:	12/8/2014 - 12/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.33E-02	2.91E-03	2.79E-03
Sample ID:	363969	Sample Dates:	12/15/2014 - 12/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	3.04E-02	3.28E-03	3.10E-03
Sample ID:	364505	Sample Dates:	12/22/2014 - 12/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.62E-02	2.60E-03	2.90E-03
Sample ID:	364511	Sample Dates:	9/29/2014 - 12/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<6.10E-04	0.00E+00	6.10E-04
				Cs-137	<7.83E-04	0.00E+00	7.83E-04
				Be-7	1.13E-01	2.26E-02	1.87E-02
				K-40	<1.28E-02	0.00E+00	1.28E-02

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	280643	Sample Dates:	12/30/2013 - 1/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.61E-02	1.37E-03	3.17E-03
Sample ID:	280816	Sample Dates:	1/6/2014 - 1/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.49E-02	1.42E-03	3.53E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	281175	Sample Dates:	1/13/2014 - 1/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.25E-02	1.31E-03	3.28E-03
Sample ID:	281496	Sample Dates:	1/20/2014 - 1/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.59E-02	1.39E-03	3.23E-03
Sample ID:	282119	Sample Dates:	1/27/2014 - 2/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.73E-02	1.42E-03	3.24E-03
Sample ID:	282931	Sample Dates:	2/3/2014 - 2/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.72E-02	1.42E-03	3.23E-03
Sample ID:	283378	Sample Dates:	2/10/2014 - 2/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.05E-02	1.46E-03	3.08E-03
Sample ID:	284545	Sample Dates:	2/17/2014 - 2/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.74E-02	1.39E-03	3.14E-03
Sample ID:	285106	Sample Dates:	2/24/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.30E-02	1.53E-03	3.19E-03
Sample ID:	285711	Sample Dates:	3/3/2014 - 3/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.28E-02	1.29E-03	3.10E-03
Sample ID:	286215	Sample Dates:	3/10/2014 - 3/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.81E-02	1.34E-03	2.68E-03
Sample ID:	287100	Sample Dates:	3/17/2014 - 3/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.45E-02	1.32E-03	3.09E-03
Sample ID:	288351	Sample Dates:	3/24/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.73E-02	1.32E-03	2.77E-03
Sample ID:	289039	Sample Dates:	12/30/2013 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<2.67E-04	0.00E+00	2.67E-04
				Cs-137	<3.78E-04	0.00E+00	3.78E-04
				Be-7	1.26E-01	5.94E-03	4.34E-03
				K-40	9.01E-03	1.74E-03	3.52E-03
Sample ID:	289075	Sample Dates:	3/31/2014 - 4/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.81E-02	1.44E-03	3.21E-03
Sample ID:	289461	Sample Dates:	4/7/2014 - 4/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.82E-02	1.32E-03	2.58E-03
Sample ID:	289871	Sample Dates:	4/14/2014 - 4/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.75E-02	1.43E-03	3.25E-03
Sample ID:	291476	Sample Dates:	4/21/2014 - 4/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.81E-02	1.37E-03	2.92E-03
Sample ID:	292770	Sample Dates:	4/28/2014 - 5/5/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.68E-02	1.36E-03	2.98E-03
Sample ID:	293032	Sample Dates:	5/5/2014 - 5/12/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.13E-02	1.43E-03	2.80E-03
Sample ID:	294663	Sample Dates:	5/12/2014 - 5/19/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.85E-02	1.42E-03	3.08E-03
Sample ID:	295172	Sample Dates:	5/19/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.46E-02	1.39E-03	2.53E-03
Sample ID:	295433	Sample Dates:	5/27/2014 - 6/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.01E-02	1.62E-03	3.56E-03
Sample ID:	295948	Sample Dates:	6/2/2014 - 6/9/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.25E-02	1.27E-03	3.10E-03
Sample ID:	296193	Sample Dates:	6/9/2014 - 6/16/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.39E-02	1.30E-03	3.05E-03
Sample ID:	296714	Sample Dates:	6/16/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.05E-02	1.42E-03	2.92E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	296941	Sample Dates:	6/23/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.55E-02	1.35E-03	3.06E-03
Sample ID:	297303	Sample Dates:	3/31/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<7.39E-04	0.00E+00	7.39E-04
				Cs-137	<1.01E-03	0.00E+00	1.01E-03
				Be-7	1.30E-01	3.43E-02	3.08E-02
				K-40	1.65E-02	1.19E-02	1.35E-02
Sample ID:	297338	Sample Dates:	6/30/2014 - 7/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.24E-02	2.90E-03	2.93E-03
Sample ID:	297626	Sample Dates:	7/7/2014 - 7/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.92E-02	2.88E-03	3.25E-03
Sample ID:	298162	Sample Dates:	7/14/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.53E-02	2.56E-03	2.96E-03
Sample ID:	350190	Sample Dates:	7/21/2014 - 7/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.59E-02	2.61E-03	2.91E-03
Sample ID:	350931	Sample Dates:	7/28/2014 - 8/4/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.41E-02	2.56E-03	3.06E-03
Sample ID:	351177	Sample Dates:	8/4/2014 - 8/11/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.65E-02	3.08E-03	2.90E-03
Sample ID:	351616	Sample Dates:	8/11/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.99E-02	2.76E-03	2.94E-03
Sample ID:	353427	Sample Dates:	8/18/2014 - 8/25/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.68E-02	2.85E-03	3.41E-03
Sample ID:	354059	Sample Dates:	8/25/2014 - 9/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.74E-02	2.38E-03	2.42E-03
Sample ID:	354446	Sample Dates:	9/2/2014 - 9/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.23E-02	2.71E-03	3.42E-03
Sample ID:	354762	Sample Dates:	9/8/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	9.82E-03	2.34E-03	3.10E-03
Sample ID:	355165	Sample Dates:	9/15/2014 - 9/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.81E-02	3.33E-03	3.41E-03
Sample ID:	355634	Sample Dates:	9/22/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.20E-02	2.46E-03	3.08E-03
Sample ID:	355640	Sample Dates:	6/30/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<8.87E-04	0.00E+00	8.87E-04
				Cs-137	<7.53E-04	0.00E+00	7.53E-04
				Be-7	1.05E-01	2.20E-02	1.63E-02
				K-40	<1.72E-02	0.00E+00	1.72E-02
Sample ID:	356499	Sample Dates:	9/29/2014 - 10/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.28E-02	3.01E-03	3.21E-03
Sample ID:	357049	Sample Dates:	10/6/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.10E-02	2.72E-03	2.64E-03
Sample ID:	358048	Sample Dates:	10/13/2014 - 10/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.35E-02	2.53E-03	3.00E-03
Sample ID:	358656	Sample Dates:	10/20/2014 - 10/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.90E-02	2.64E-03	2.62E-03
Sample ID:	359292	Sample Dates:	10/27/2014 - 11/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.43E-02	3.14E-03	3.35E-03
Sample ID:	360030	Sample Dates:	11/3/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.36E-02	2.91E-03	2.85E-03
Sample ID:	360712	Sample Dates:	11/10/2014 - 11/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.58E-02	3.10E-03	3.06E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	361574	Sample Dates:	11/17/2014 - 11/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.74E-02	2.73E-03	3.08E-03
Sample ID:	361953	Sample Dates:	11/24/2014 - 12/1/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.86E-02	2.79E-03	3.13E-03
Sample ID:	362783	Sample Dates:	12/1/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.89E-02	2.82E-03	3.20E-03
Sample ID:	363523	Sample Dates:	12/8/2014 - 12/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.58E-02	3.03E-03	2.80E-03
Sample ID:	363970	Sample Dates:	12/15/2014 - 12/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	3.21E-02	3.34E-03	3.10E-03
Sample ID:	364506	Sample Dates:	12/22/2014 - 12/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.40E-02	2.49E-03	2.90E-03
Sample ID:	364512	Sample Dates:	9/29/2014 - 12/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<9.48E-04	0.00E+00	9.48E-04
				Cs-137	<3.93E-04	0.00E+00	3.93E-04
				Be-7	1.00E-01	2.09E-02	1.65E-02
				K-40	1.47E-02	9.12E-03	1.11E-02

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID:	280644	Sample Dates:	12/30/2013 - 1/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.74E-02	1.40E-03	3.19E-03
Sample ID:	280817	Sample Dates:	1/6/2014 - 1/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.04E-02	1.31E-03	3.51E-03
Sample ID:	281176	Sample Dates:	1/13/2014 - 1/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.12E-02	1.28E-03	3.26E-03
Sample ID:	281497	Sample Dates:	1/20/2014 - 1/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.77E-02	1.43E-03	3.23E-03
Sample ID:	282120	Sample Dates:	1/27/2014 - 2/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.64E-02	1.40E-03	3.26E-03
Sample ID:	282932	Sample Dates:	2/3/2014 - 2/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.50E-02	1.36E-03	3.22E-03
Sample ID:	283379	Sample Dates:	2/10/2014 - 2/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.77E-02	1.41E-03	3.11E-03
Sample ID:	284546	Sample Dates:	2/17/2014 - 2/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.96E-02	1.44E-03	3.14E-03
Sample ID:	285107	Sample Dates:	2/24/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.30E-02	1.54E-03	3.20E-03
Sample ID:	285712	Sample Dates:	3/3/2014 - 3/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.69E-02	1.38E-03	3.07E-03
Sample ID:	286216	Sample Dates:	3/10/2014 - 3/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.94E-02	1.37E-03	2.69E-03
Sample ID:	287101	Sample Dates:	3/17/2014 - 3/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.26E-02	1.27E-03	3.09E-03
Sample ID:	288352	Sample Dates:	3/24/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.02E-02	1.42E-03	2.84E-03
Sample ID:	289040	Sample Dates:	12/30/2013 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<3.17E-04	0.00E+00	3.17E-04
				Cs-137	<3.14E-04	0.00E+00	3.14E-04
				Be-7	1.43E-01	5.21E-03	3.74E-03
				K-40	1.33E-02	1.97E-03	2.42E-03
Sample ID:	289076	Sample Dates:	3/31/2014 - 4/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.32E-02	1.31E-03	3.19E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID:	289462	Sample Dates:	4/7/2014 - 4/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.54E-02	1.25E-03	2.59E-03
Sample ID:	289872	Sample Dates:	4/14/2014 - 4/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.08E-02	1.51E-03	3.24E-03
Sample ID:	291477	Sample Dates:	4/21/2014 - 4/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.80E-02	1.37E-03	2.91E-03
Sample ID:	292771	Sample Dates:	4/28/2014 - 5/5/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.07E-02	1.46E-03	2.97E-03
Sample ID:	293033	Sample Dates:	5/5/2014 - 5/12/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.93E-02	1.61E-03	2.83E-03
Sample ID:	294664	Sample Dates:	5/12/2014 - 5/19/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.00E-02	1.45E-03	3.06E-03
Sample ID:	295173	Sample Dates:	5/19/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.40E-02	1.38E-03	2.54E-03
Sample ID:	295434	Sample Dates:	5/27/2014 - 6/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.83E-02	1.57E-03	3.52E-03
Sample ID:	295949	Sample Dates:	6/2/2014 - 6/9/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.37E-02	1.30E-03	3.09E-03
Sample ID:	296194	Sample Dates:	6/9/2014 - 6/16/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	9.53E-03	1.18E-03	3.04E-03
Sample ID:	296715	Sample Dates:	6/16/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.18E-02	1.46E-03	2.94E-03
Sample ID:	296942	Sample Dates:	6/23/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.73E-02	1.39E-03	3.05E-03
Sample ID:	297304	Sample Dates:	3/31/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<6.28E-04	0.00E+00	6.28E-04
				Cs-137	<6.27E-04	0.00E+00	6.27E-04
				Be-7	1.32E-01	2.70E-02	2.16E-02
				K-40	7.94E-03	6.29E-03	7.74E-03
Sample ID:	297339	Sample Dates:	6/30/2014 - 7/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.20E-02	2.88E-03	2.92E-03
Sample ID:	297627	Sample Dates:	7/7/2014 - 7/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.02E-02	2.93E-03	3.24E-03
Sample ID:	298163	Sample Dates:	7/14/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.23E-02	2.90E-03	2.98E-03
Sample ID:	350191	Sample Dates:	7/21/2014 - 7/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.80E-02	2.71E-03	2.91E-03
Sample ID:	350932	Sample Dates:	7/28/2014 - 8/4/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.69E-02	2.69E-03	3.06E-03
Sample ID:	351178	Sample Dates:	8/4/2014 - 8/11/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.64E-02	3.07E-03	2.89E-03
Sample ID:	351617	Sample Dates:	8/11/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.68E-02	2.64E-03	2.98E-03
Sample ID:	353428	Sample Dates:	8/18/2014 - 8/25/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.77E-02	2.87E-03	3.38E-03
Sample ID:	354061	Sample Dates:	8/25/2014 - 9/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.21E-02	2.59E-03	2.42E-03
Sample ID:	354447	Sample Dates:	9/2/2014 - 9/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.17E-02	2.67E-03	3.42E-03
Sample ID:	354763	Sample Dates:	9/8/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.19E-02	2.46E-03	3.12E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID:	355168	Sample Dates:	9/15/2014 - 9/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.46E-02	3.17E-03	3.39E-03
Sample ID:	355635	Sample Dates:	9/22/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.18E-02	2.45E-03	3.08E-03
Sample ID:	355641	Sample Dates:	6/30/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<7.12E-04	0.00E+00	7.12E-04
				Cs-137	<8.69E-04	0.00E+00	8.69E-04
				Be-7	1.17E-01	2.25E-02	1.32E-02
				K-40	9.91E-03	8.26E-03	1.17E-02
Sample ID:	356501	Sample Dates:	9/29/2014 - 10/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.29E-02	3.03E-03	3.24E-03
Sample ID:	357050	Sample Dates:	10/6/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.43E-02	2.89E-03	2.68E-03
Sample ID:	358049	Sample Dates:	10/13/2014 - 10/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.59E-02	2.60E-03	2.93E-03
Sample ID:	358657	Sample Dates:	10/20/2014 - 10/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.24E-02	2.78E-03	2.61E-03
Sample ID:	359295	Sample Dates:	10/27/2014 - 11/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.21E-02	3.03E-03	3.34E-03
Sample ID:	360031	Sample Dates:	11/3/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.22E-02	2.85E-03	2.86E-03
Sample ID:	360713	Sample Dates:	11/10/2014 - 11/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.60E-02	3.11E-03	3.06E-03
Sample ID:	361575	Sample Dates:	11/17/2014 - 11/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.72E-02	2.71E-03	3.05E-03
Sample ID:	361954	Sample Dates:	11/24/2014 - 12/1/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.50E-02	2.63E-03	3.14E-03
Sample ID:	362784	Sample Dates:	12/1/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.21E-02	2.97E-03	3.21E-03
Sample ID:	363524	Sample Dates:	12/8/2014 - 12/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.83E-02	2.67E-03	2.78E-03
Sample ID:	363971	Sample Dates:	12/15/2014 - 12/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.33E-02	2.99E-03	3.10E-03
Sample ID:	364507	Sample Dates:	12/22/2014 - 12/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.39E-02	2.49E-03	2.91E-03
Sample ID:	364513	Sample Dates:	9/29/2014 - 12/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<4.84E-04	0.00E+00	4.84E-04
				Cs-137	<8.69E-04	0.00E+00	8.69E-04
				Be-7	9.66E-02	1.97E-02	1.36E-02
				K-40	<1.77E-02	0.00E+00	1.77E-02

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID:	280645	Sample Dates:	12/30/2013 - 1/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.88E-02	1.43E-03	3.18E-03
Sample ID:	280818	Sample Dates:	1/6/2014 - 1/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.43E-02	1.41E-03	3.53E-03
Sample ID:	281177	Sample Dates:	1/13/2014 - 1/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.35E-02	1.33E-03	3.26E-03
Sample ID:	281498	Sample Dates:	1/20/2014 - 1/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.98E-02	1.47E-03	3.23E-03
Sample ID:	282121	Sample Dates:	1/27/2014 - 2/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.99E-02	1.47E-03	3.25E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID:	282933	Sample Dates:	2/3/2014 - 2/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.83E-02	1.45E-03	3.22E-03
Sample ID:	283380	Sample Dates:	2/10/2014 - 2/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.20E-02	1.49E-03	3.08E-03
Sample ID:	284547	Sample Dates:	2/17/2014 - 2/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.03E-02	1.47E-03	3.16E-03
Sample ID:	285108	Sample Dates:	2/24/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.68E-02	1.61E-03	3.18E-03
Sample ID:	285713	Sample Dates:	3/3/2014 - 3/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.54E-02	1.35E-03	3.08E-03
Sample ID:	286217	Sample Dates:	3/10/2014 - 3/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.86E-02	1.35E-03	2.68E-03
Sample ID:	287102	Sample Dates:	3/17/2014 - 3/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.38E-02	1.30E-03	3.09E-03
Sample ID:	288353	Sample Dates:	3/24/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.79E-02	1.34E-03	2.76E-03
Sample ID:	289041	Sample Dates:	12/30/2013 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<2.71E-04	0.00E+00	2.71E-04
				Cs-137	<3.60E-04	0.00E+00	3.60E-04
				Be-7	1.16E-01	5.70E-03	4.81E-03
				K-40	1.09E-02	2.14E-03	3.04E-03
Sample ID:	289077	Sample Dates:	3/31/2014 - 4/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.73E-02	1.43E-03	3.23E-03
Sample ID:	289463	Sample Dates:	4/7/2014 - 4/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.82E-02	1.33E-03	2.59E-03
Sample ID:	289873	Sample Dates:	4/14/2014 - 4/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.05E-02	1.50E-03	3.24E-03
Sample ID:	291478	Sample Dates:	4/21/2014 - 4/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.47E-02	1.52E-03	2.91E-03
Sample ID:	292772	Sample Dates:	4/28/2014 - 5/5/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.92E-02	1.43E-03	2.98E-03
Sample ID:	293034	Sample Dates:	5/5/2014 - 5/12/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.68E-02	1.55E-03	2.82E-03
Sample ID:	294665	Sample Dates:	5/12/2014 - 5/19/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.37E-02	1.53E-03	3.06E-03
Sample ID:	295174	Sample Dates:	5/19/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.71E-02	1.44E-03	2.54E-03
Sample ID:	295435	Sample Dates:	5/27/2014 - 6/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.65E-02	1.77E-03	3.53E-03
Sample ID:	295950	Sample Dates:	6/2/2014 - 6/9/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.55E-02	1.34E-03	3.09E-03
Sample ID:	296195	Sample Dates:	6/9/2014 - 6/16/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.38E-02	1.30E-03	3.05E-03
Sample ID:	296716	Sample Dates:	6/16/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.48E-02	1.52E-03	2.93E-03
Sample ID:	296943	Sample Dates:	6/23/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.09E-02	1.48E-03	3.06E-03
Sample ID:	297305	Sample Dates:	3/31/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<6.09E-04	0.00E+00	6.09E-04
				Cs-137	<8.76E-04	0.00E+00	8.76E-04
				Be-7	1.38E-01	2.86E-02	1.77E-02
				K-40	8.64E-03	6.57E-03	3.34E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID:	297340	Sample Dates:	6/30/2014 - 7/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.50E-02	3.01E-03	2.92E-03
Sample ID:	297628	Sample Dates:	7/7/2014 - 7/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.23E-02	3.02E-03	3.25E-03
Sample ID:	298164	Sample Dates:	7/14/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.98E-02	2.77E-03	2.97E-03
Sample ID:	350192	Sample Dates:	7/21/2014 - 7/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.93E-02	2.77E-03	2.92E-03
Sample ID:	350933	Sample Dates:	7/28/2014 - 8/4/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.92E-02	2.79E-03	3.06E-03
Sample ID:	351179	Sample Dates:	8/4/2014 - 8/11/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	3.27E-02	3.33E-03	2.90E-03
Sample ID:	351618	Sample Dates:	8/11/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.46E-02	2.99E-03	2.98E-03
Sample ID:	353429	Sample Dates:	8/18/2014 - 8/25/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.76E-02	2.88E-03	3.39E-03
Sample ID:	354063	Sample Dates:	8/25/2014 - 9/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.28E-02	2.62E-03	2.42E-03
Sample ID:	354448	Sample Dates:	9/2/2014 - 9/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.57E-02	2.89E-03	3.42E-03
Sample ID:	354764	Sample Dates:	9/8/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.41E-02	2.56E-03	3.11E-03
Sample ID:	355171	Sample Dates:	9/15/2014 - 9/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	3.10E-02	3.41E-03	3.39E-03
Sample ID:	355636	Sample Dates:	9/22/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.32E-02	2.52E-03	3.08E-03
Sample ID:	355642	Sample Dates:	6/30/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<8.87E-04	0.00E+00	8.87E-04
				Cs-137	<8.90E-04	0.00E+00	8.90E-04
				Be-7	1.08E-01	2.28E-02	1.80E-02
				K-40	<2.11E-02	0.00E+00	2.11E-02
Sample ID:	356503	Sample Dates:	9/29/2014 - 10/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.42E-02	3.09E-03	3.24E-03
Sample ID:	357051	Sample Dates:	10/6/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.30E-02	2.80E-03	2.63E-03
Sample ID:	358050	Sample Dates:	10/13/2014 - 10/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.59E-02	2.64E-03	2.98E-03
Sample ID:	358658	Sample Dates:	10/20/2014 - 10/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.20E-02	2.76E-03	2.60E-03
Sample ID:	359297	Sample Dates:	10/27/2014 - 11/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.47E-02	3.14E-03	3.34E-03
Sample ID:	360032	Sample Dates:	11/3/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.85E-02	3.12E-03	2.86E-03
Sample ID:	360714	Sample Dates:	11/10/2014 - 11/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	3.28E-02	3.37E-03	3.05E-03
Sample ID:	361576	Sample Dates:	11/17/2014 - 11/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.63E-02	3.11E-03	3.06E-03
Sample ID:	361955	Sample Dates:	11/24/2014 - 12/1/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.04E-02	2.88E-03	3.14E-03
Sample ID:	362785	Sample Dates:	12/1/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.53E-02	3.10E-03	3.21E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID:	363525	Sample Dates:	12/8/2014 - 12/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.15E-02	2.83E-03	2.79E-03
Sample ID:	363972	Sample Dates:	12/15/2014 - 12/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.31E-02	2.98E-03	3.09E-03
Sample ID:	364508	Sample Dates:	12/22/2014 - 12/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.42E-02	2.51E-03	2.92E-03
Sample ID:	364514	Sample Dates:	9/29/2014 - 12/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<9.27E-04	0.00E+00	9.27E-04
				Cs-137	<6.84E-04	0.00E+00	6.84E-04
				Be-7	1.23E-01	2.23E-02	1.32E-02
				K-40	<1.36E-02	0.00E+00	1.36E-02

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID:	280647	Sample Dates:	12/30/2013 - 1/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.05E-02	1.48E-03	3.19E-03
Sample ID:	280820	Sample Dates:	1/6/2014 - 1/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.55E-02	1.53E-03	3.85E-03
Sample ID:	281179	Sample Dates:	1/13/2014 - 1/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.47E-02	1.36E-03	3.27E-03
Sample ID:	281500	Sample Dates:	1/20/2014 - 1/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.64E-02	1.40E-03	3.23E-03
Sample ID:	282123	Sample Dates:	1/27/2014 - 2/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.02E-02	1.48E-03	3.25E-03
Sample ID:	282935	Sample Dates:	2/3/2014 - 2/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.52E-02	1.37E-03	3.22E-03
Sample ID:	283382	Sample Dates:	2/10/2014 - 2/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.32E-02	1.52E-03	3.08E-03
Sample ID:	284549	Sample Dates:	2/17/2014 - 2/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.26E-02	1.51E-03	3.13E-03
Sample ID:	285110	Sample Dates:	2/24/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.39E-02	1.56E-03	3.20E-03
Sample ID:	285715	Sample Dates:	3/3/2014 - 3/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.79E-02	1.41E-03	3.08E-03
Sample ID:	286219	Sample Dates:	3/10/2014 - 3/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.95E-02	1.37E-03	2.68E-03
Sample ID:	287104	Sample Dates:	3/17/2014 - 3/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.52E-02	1.34E-03	3.09E-03
Sample ID:	288355	Sample Dates:	3/24/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.98E-02	1.37E-03	2.73E-03
Sample ID:	289042	Sample Dates:	12/30/2013 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<4.79E-04	0.00E+00	4.79E-04
				Cs-137	<4.44E-04	0.00E+00	4.44E-04
				Be-7	1.31E-01	6.21E-03	5.93E-03
				K-40	1.58E-02	2.44E-03	5.29E-03
Sample ID:	289079	Sample Dates:	3/31/2014 - 4/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.71E-02	1.44E-03	3.28E-03
Sample ID:	289465	Sample Dates:	4/7/2014 - 4/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.74E-02	1.30E-03	2.58E-03
Sample ID:	289875	Sample Dates:	4/14/2014 - 4/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.15E-02	1.52E-03	3.25E-03
Sample ID:	291480	Sample Dates:	4/21/2014 - 4/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.45E-02	1.53E-03	2.93E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID:	292774	Sample Dates:	4/28/2014 - 5/5/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.07E-02	1.46E-03	2.98E-03
Sample ID:	293036	Sample Dates:	5/5/2014 - 5/12/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.79E-02	1.58E-03	2.83E-03
Sample ID:	294667	Sample Dates:	5/12/2014 - 5/19/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.27E-02	1.52E-03	3.07E-03
Sample ID:	295176	Sample Dates:	5/19/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	3.00E-02	1.50E-03	2.54E-03
Sample ID:	295437	Sample Dates:	5/27/2014 - 6/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.47E-02	1.73E-03	3.55E-03
Sample ID:	295952	Sample Dates:	6/2/2014 - 6/9/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.32E-02	1.29E-03	3.10E-03
Sample ID:	296197	Sample Dates:	6/9/2014 - 6/16/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.64E-02	1.36E-03	3.05E-03
Sample ID:	296718	Sample Dates:	6/16/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.75E-02	1.58E-03	2.94E-03
Sample ID:	296945	Sample Dates:	6/23/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.33E-02	1.54E-03	3.07E-03
Sample ID:	297306	Sample Dates:	3/31/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<4.19E-04	0.00E+00	4.19E-04
				Cs-137	<5.36E-04	0.00E+00	5.36E-04
				Be-7	1.61E-01	2.98E-02	2.61E-02
				K-40	<1.25E-02	0.00E+00	1.25E-02
Sample ID:	297342	Sample Dates:	6/30/2014 - 7/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.47E-02	3.01E-03	2.93E-03
Sample ID:	297630	Sample Dates:	7/7/2014 - 7/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.49E-02	3.13E-03	3.25E-03
Sample ID:	298166	Sample Dates:	7/14/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.19E-02	2.89E-03	2.99E-03
Sample ID:	350193	Sample Dates:	7/21/2014 - 7/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.86E-02	2.74E-03	2.91E-03
Sample ID:	350934	Sample Dates:	7/28/2014 - 8/4/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.99E-02	2.84E-03	3.08E-03
Sample ID:	351180	Sample Dates:	8/4/2014 - 8/11/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	3.29E-02	3.35E-03	2.90E-03
Sample ID:	351619	Sample Dates:	8/11/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.55E-02	3.03E-03	2.98E-03
Sample ID:	353430	Sample Dates:	8/18/2014 - 8/25/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.05E-02	3.00E-03	3.38E-03
Sample ID:	354065	Sample Dates:	8/25/2014 - 9/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.26E-02	2.63E-03	2.44E-03
Sample ID:	354449	Sample Dates:	9/2/2014 - 9/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.46E-02	2.84E-03	3.43E-03
Sample ID:	354765	Sample Dates:	9/8/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.21E-02	2.47E-03	3.12E-03
Sample ID:	355173	Sample Dates:	9/15/2014 - 9/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	3.01E-02	3.38E-03	3.39E-03
Sample ID:	355637	Sample Dates:	9/22/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.18E-02	2.46E-03	3.09E-03
Sample ID:	355643	Sample Dates:	6/30/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<9.94E-04	0.00E+00	9.94E-04
				Cs-137	<6.26E-04	0.00E+00	6.26E-04

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID:	355643	Sample Dates:	6/30/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Be-7	1.29E-01	2.50E-02	1.91E-02
				K-40	9.35E-03	7.45E-03	9.98E-03
Sample ID:	356506	Sample Dates:	9/29/2014 - 10/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.26E-02	3.01E-03	3.22E-03
Sample ID:	357052	Sample Dates:	10/6/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.03E-02	2.70E-03	2.68E-03
Sample ID:	358051	Sample Dates:	10/13/2014 - 10/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.43E-02	2.53E-03	2.95E-03
Sample ID:	358659	Sample Dates:	10/20/2014 - 10/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.87E-02	2.62E-03	2.61E-03
Sample ID:	359299	Sample Dates:	10/27/2014 - 11/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.00E-02	2.95E-03	3.34E-03
Sample ID:	360033	Sample Dates:	11/3/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.30E-02	2.88E-03	2.86E-03
Sample ID:	360715	Sample Dates:	11/10/2014 - 11/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.33E-02	2.99E-03	3.05E-03
Sample ID:	361577	Sample Dates:	11/17/2014 - 11/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.19E-02	2.93E-03	3.07E-03
Sample ID:	361956	Sample Dates:	11/24/2014 - 12/1/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.04E-02	2.87E-03	3.13E-03
Sample ID:	362786	Sample Dates:	12/1/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.97E-02	2.87E-03	3.21E-03
Sample ID:	363526	Sample Dates:	12/8/2014 - 12/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.52E-02	2.99E-03	2.79E-03
Sample ID:	363973	Sample Dates:	12/15/2014 - 12/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	2.87E-02	3.21E-03	3.10E-03
Sample ID:	364509	Sample Dates:	12/22/2014 - 12/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.44E-02	2.51E-03	2.90E-03
Sample ID:	364515	Sample Dates:	9/29/2014 - 12/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Cs-134	<7.07E-04	0.00E+00	7.07E-04
				Cs-137	<6.26E-04	0.00E+00	6.26E-04
				Be-7	1.04E-01	2.05E-02	1.38E-02
				K-40	<2.04E-02	0.00E+00	2.04E-02

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	280636	Sample Dates:	12/30/2013 - 1/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.77E-02	0.00E+00	2.77E-02
				Cs-134	<1.86E-02	0.00E+00	1.86E-02
				Cs-137	<1.87E-02	0.00E+00	1.87E-02
				Be-7	<1.72E-01	0.00E+00	1.72E-01
				K-40	4.24E-01	1.09E-01	7.64E-02
Sample ID:	280809	Sample Dates:	1/6/2014 - 1/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.74E-02	0.00E+00	2.74E-02
				Cs-134	<1.88E-02	0.00E+00	1.88E-02
				Cs-137	<1.72E-02	0.00E+00	1.72E-02
				Be-7	<1.63E-01	0.00E+00	1.63E-01
				K-40	<5.99E-01	0.00E+00	5.99E-01
Sample ID:	281168	Sample Dates:	1/13/2014 - 1/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.37E-02	0.00E+00	1.37E-02
				Cs-134	<1.37E-02	0.00E+00	1.37E-02
				Cs-137	<9.40E-03	0.00E+00	9.40E-03
				Be-7	<7.18E-02	0.00E+00	7.18E-02
				K-40	4.99E-01	1.04E-01	1.56E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID: 281489	Sample Dates: 1/20/2014 - 1/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.30E-02	0.00E+00	1.30E-02
		Cs-134	<9.69E-03	0.00E+00	9.69E-03
		Cs-137	<8.40E-03	0.00E+00	8.40E-03
		Be-7	<7.24E-02	0.00E+00	7.24E-02
		K-40	5.25E-01	7.91E-02	1.54E-01
Sample ID: 282112	Sample Dates: 1/27/2014 - 2/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<1.43E-02	0.00E+00	1.43E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	5.26E-01	1.43E-01	2.57E-01
Sample ID: 282924	Sample Dates: 2/3/2014 - 2/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<1.62E-02	0.00E+00	1.62E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	4.65E-01	1.16E-01	2.18E-01
Sample ID: 283371	Sample Dates: 2/10/2014 - 2/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.68E-02	0.00E+00	1.68E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	2.80E-01	8.09E-02	1.77E-01
Sample ID: 284538	Sample Dates: 2/17/2014 - 2/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.92E-02	0.00E+00	1.92E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	<4.54E-01	0.00E+00	4.54E-01
Sample ID: 285099	Sample Dates: 2/24/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<1.86E-02	0.00E+00	1.86E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	<3.67E-01	0.00E+00	3.67E-01
Sample ID: 285704	Sample Dates: 3/3/2014 - 3/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.08E-02	0.00E+00	1.08E-02
		Cs-134	<9.27E-03	0.00E+00	9.27E-03
		Cs-137	<9.50E-03	0.00E+00	9.50E-03
		Be-7	<6.89E-02	0.00E+00	6.89E-02
		K-40	4.88E-01	8.25E-02	1.01E-01
Sample ID: 286208	Sample Dates: 3/10/2014 - 3/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<2.15E-02	0.00E+00	2.15E-02
		Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	3.74E-01	1.04E-01	2.06E-01
Sample ID: 287093	Sample Dates: 3/17/2014 - 3/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.44E-02	0.00E+00	1.44E-02
		Cs-134	<1.06E-02	0.00E+00	1.06E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<7.50E-02	0.00E+00	7.50E-02
		K-40	3.59E-01	1.04E-01	5.83E-02
Sample ID: 288344	Sample Dates: 3/24/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.71E-02	0.00E+00	1.71E-02
		Cs-134	<6.88E-03	0.00E+00	6.88E-03
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<9.05E-02	0.00E+00	9.05E-02
		K-40	3.33E-01	1.13E-01	2.45E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID: 289068	Sample Dates: 3/31/2014 - 4/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.76E-02	0.00E+00	2.76E-02
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<2.90E-02	0.00E+00	2.90E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
		K-40	6.22E-01	1.36E-01	8.01E-02
Sample ID: 289454	Sample Dates: 4/7/2014 - 4/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
		K-40	<6.47E-01	0.00E+00	6.47E-01
Sample ID: 289864	Sample Dates: 4/14/2014 - 4/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<1.85E-02	0.00E+00	1.85E-02
		Cs-137	<1.59E-02	0.00E+00	1.59E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
		K-40	<5.01E-01	0.00E+00	5.01E-01
Sample ID: 291469	Sample Dates: 4/21/2014 - 4/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<1.58E-02	0.00E+00	1.58E-02
		Cs-137	<2.15E-02	0.00E+00	2.15E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
		K-40	4.79E-01	1.16E-01	7.62E-02
Sample ID: 292763	Sample Dates: 4/28/2014 - 5/5/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.22E-02	0.00E+00	1.22E-02
		Cs-134	<1.12E-02	0.00E+00	1.12E-02
		Cs-137	<1.14E-02	0.00E+00	1.14E-02
		Be-7	<1.07E-01	0.00E+00	1.07E-01
		K-40	2.90E-01	1.03E-01	1.72E-01
Sample ID: 293025	Sample Dates: 5/5/2014 - 5/12/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.47E-02	0.00E+00	1.47E-02
		Cs-134	<7.49E-03	0.00E+00	7.49E-03
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<7.87E-02	0.00E+00	7.87E-02
		K-40	<3.82E-01	0.00E+00	3.82E-01
Sample ID: 294656	Sample Dates: 5/12/2014 - 5/19/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.28E-02	0.00E+00	1.28E-02
		Cs-134	<1.27E-02	0.00E+00	1.27E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<9.46E-02	0.00E+00	9.46E-02
		K-40	5.69E-01	1.12E-01	5.91E-02
Sample ID: 295165	Sample Dates: 5/19/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<3.33E-02	0.00E+00	3.33E-02
		Cs-134	<1.86E-02	0.00E+00	1.86E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	3.68E-01	9.51E-02	1.77E-01
Sample ID: 295426	Sample Dates: 5/27/2014 - 6/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.63E-02	0.00E+00	2.63E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<2.44E-02	0.00E+00	2.44E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	5.82E-01	1.41E-01	9.26E-02
Sample ID: 295941	Sample Dates: 6/2/2014 - 6/9/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.05E-02	0.00E+00	2.05E-02
		Cs-134	<2.60E-02	0.00E+00	2.60E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	3.97E-01	1.06E-01	7.66E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID: 296186	Sample Dates: 6/9/2014 - 6/16/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.36E-02	0.00E+00	1.36E-02
		Cs-134	<9.19E-03	0.00E+00	9.19E-03
		Cs-137	<1.21E-02	0.00E+00	1.21E-02
		Be-7	<7.31E-02	0.00E+00	7.31E-02
		K-40	6.03E-01	8.52E-02	1.13E-01
Sample ID: 296707	Sample Dates: 6/16/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.51E-02	0.00E+00	1.51E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	5.87E-01	1.28E-01	2.02E-01
Sample ID: 296934	Sample Dates: 6/23/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.13E-02	0.00E+00	1.13E-02
		Cs-134	<6.95E-03	0.00E+00	6.95E-03
		Cs-137	<1.04E-02	0.00E+00	1.04E-02
		Be-7	<7.60E-02	0.00E+00	7.60E-02
		K-40	6.69E-01	1.06E-01	1.42E-01
Sample ID: 297331	Sample Dates: 6/30/2014 - 7/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<1.26E-02	0.00E+00	1.26E-02
		Cs-137	<3.61E-03	0.00E+00	3.61E-03
		Be-7	<9.12E-02	0.00E+00	9.12E-02
		K-40	4.44E-01	1.02E-01	1.76E-01
Sample ID: 297619	Sample Dates: 7/7/2014 - 7/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.72E-02	0.00E+00	2.72E-02
		Cs-134	<1.17E-02	0.00E+00	1.17E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	4.62E-01	1.94E-01	1.98E-01
Sample ID: 298155	Sample Dates: 7/14/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<3.71E-02	0.00E+00	3.71E-02
		Cs-134	<1.49E-02	0.00E+00	1.49E-02
		Cs-137	<1.27E-02	0.00E+00	1.27E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	3.34E-01	2.46E-01	3.17E-01
Sample ID: 350194	Sample Dates: 7/21/2014 - 7/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.71E-02	0.00E+00	2.71E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	5.85E-01	3.02E-01	3.02E-01
Sample ID: 350935	Sample Dates: 7/28/2014 - 8/4/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.02E-02	0.00E+00	2.02E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<1.29E-02	0.00E+00	1.29E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	<5.35E-01	0.00E+00	5.35E-01
Sample ID: 351181	Sample Dates: 8/4/2014 - 8/11/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.31E-02	0.00E+00	1.31E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	<5.68E-01	0.00E+00	5.68E-01
Sample ID: 351620	Sample Dates: 8/11/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<2.70E-02	0.00E+00	2.70E-02
		Cs-137	<1.85E-02	0.00E+00	1.85E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	<6.02E-01	0.00E+00	6.02E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID: 353431	Sample Dates: 8/18/2014 - 8/25/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<1.59E-02	0.00E+00	1.59E-02
		Cs-137	<2.86E-02	0.00E+00	2.86E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	7.30E-01	3.05E-01	8.25E-02
Sample ID: 354068	Sample Dates: 8/25/2014 - 9/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.02E-02	0.00E+00	2.02E-02
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<7.15E-02	0.00E+00	7.15E-02
		K-40	4.74E-01	2.50E-01	2.50E-01
Sample ID: 354450	Sample Dates: 9/2/2014 - 9/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.93E-02	0.00E+00	2.93E-02
		Cs-134	<2.67E-02	0.00E+00	2.67E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
		K-40	<7.66E-01	0.00E+00	7.66E-01
Sample ID: 354766	Sample Dates: 9/8/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.50E-02	0.00E+00	1.50E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<1.26E-02	0.00E+00	1.26E-02
		Be-7	<6.16E-02	0.00E+00	6.16E-02
		K-40	2.86E-01	2.13E-01	2.81E-01
Sample ID: 355175	Sample Dates: 9/15/2014 - 9/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.86E-02	0.00E+00	1.86E-02
		Cs-134	<1.33E-02	0.00E+00	1.33E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<8.25E-02	0.00E+00	8.25E-02
		K-40	5.32E-01	2.81E-01	2.69E-01
Sample ID: 355644	Sample Dates: 9/22/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.98E-02	0.00E+00	1.98E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<2.30E-02	0.00E+00	2.30E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
		K-40	3.25E-01	2.57E-01	3.50E-01
Sample ID: 356508	Sample Dates: 9/29/2014 - 10/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<1.84E-02	0.00E+00	1.84E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.86E-01	0.00E+00	1.86E-01
		K-40	<5.57E-01	0.00E+00	5.57E-01
Sample ID: 357053	Sample Dates: 10/6/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<1.83E-02	0.00E+00	1.83E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<8.12E-02	0.00E+00	8.12E-02
		K-40	<6.25E-01	0.00E+00	6.25E-01
Sample ID: 358052	Sample Dates: 10/13/2014 - 10/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.55E-02	0.00E+00	1.55E-02
		Cs-134	<1.34E-02	0.00E+00	1.34E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	<5.73E-01	0.00E+00	5.73E-01
Sample ID: 358660	Sample Dates: 10/20/2014 - 10/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	1.52E-01	1.96E-01	3.14E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID: 359302	Sample Dates: 10/27/2014 - 11/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.12E-02	0.00E+00	1.12E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<4.80E-03	0.00E+00	4.80E-03
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	5.36E-01	3.11E-01	3.69E-01
Sample ID: 360034	Sample Dates: 11/3/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<1.17E-02	0.00E+00	1.17E-02
		Cs-137	<9.99E-03	0.00E+00	9.99E-03
		Be-7	<1.43E-01	0.00E+00	1.43E-01
		K-40	3.65E-01	2.15E-01	2.34E-01
Sample ID: 360716	Sample Dates: 11/10/2014 - 11/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.79E-02	0.00E+00	1.79E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	3.83E-01	2.41E-01	2.56E-01
Sample ID: 361578	Sample Dates: 11/17/2014 - 11/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
		K-40	<6.56E-01	0.00E+00	6.56E-01
Sample ID: 361957	Sample Dates: 11/24/2014 - 12/1/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.23E-02	0.00E+00	1.23E-02
		Cs-134	<9.52E-03	0.00E+00	9.52E-03
		Cs-137	<9.33E-03	0.00E+00	9.33E-03
		Be-7	<3.38E-02	0.00E+00	3.38E-02
		K-40	5.26E-01	1.82E-01	1.49E-01
Sample ID: 362787	Sample Dates: 12/1/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.73E-02	0.00E+00	2.73E-02
		Cs-134	<1.32E-02	0.00E+00	1.32E-02
		Cs-137	<4.14E-03	0.00E+00	4.14E-03
		Be-7	<1.06E-01	0.00E+00	1.06E-01
		K-40	7.02E-01	4.63E-01	6.80E-01
Sample ID: 363527	Sample Dates: 12/8/2014 - 12/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.25E-02	0.00E+00	1.25E-02
		Cs-134	<1.11E-02	0.00E+00	1.11E-02
		Cs-137	<1.39E-02	0.00E+00	1.39E-02
		Be-7	<6.69E-02	0.00E+00	6.69E-02
		K-40	4.35E-01	1.63E-01	3.93E-02
Sample ID: 363974	Sample Dates: 12/15/2014 - 12/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.53E-02	0.00E+00	1.53E-02
		Cs-134	<1.06E-02	0.00E+00	1.06E-02
		Cs-137	<1.17E-02	0.00E+00	1.17E-02
		Be-7	<1.00E-01	0.00E+00	1.00E-01
		K-40	4.04E-01	1.72E-01	4.76E-02
Sample ID: 364516	Sample Dates: 12/22/2014 - 12/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.08E-02	0.00E+00	1.08E-02
		Cs-134	<1.09E-02	0.00E+00	1.09E-02
		Cs-137	<1.21E-02	0.00E+00	1.21E-02
		Be-7	<8.21E-02	0.00E+00	8.21E-02
		K-40	4.41E-01	1.63E-01	3.86E-02
Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]					
Sample ID: 280640	Sample Dates: 12/30/2013 - 1/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<1.80E-02	0.00E+00	1.80E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID:	280640	Sample Dates:	12/30/2013 - 1/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				K-40	4.63E-01	1.38E-01	7.62E-02
Sample ID:	280813	Sample Dates:	1/6/2014 - 1/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.18E-02	0.00E+00	2.18E-02
				Cs-134	<1.45E-02	0.00E+00	1.45E-02
				Cs-137	<2.53E-02	0.00E+00	2.53E-02
				Be-7	<1.32E-01	0.00E+00	1.32E-01
				K-40	6.30E-01	1.56E-01	7.82E-02
Sample ID:	281172	Sample Dates:	1/13/2014 - 1/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.26E-02	0.00E+00	1.26E-02
				Cs-134	<1.16E-02	0.00E+00	1.16E-02
				Cs-137	<1.11E-02	0.00E+00	1.11E-02
				Be-7	<8.19E-02	0.00E+00	8.19E-02
				K-40	3.13E-01	7.83E-02	5.29E-02
Sample ID:	281493	Sample Dates:	1/20/2014 - 1/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.47E-02	0.00E+00	1.47E-02
				Cs-134	<1.24E-02	0.00E+00	1.24E-02
				Cs-137	<1.33E-02	0.00E+00	1.33E-02
				Be-7	<5.44E-02	0.00E+00	5.44E-02
				K-40	3.32E-01	1.05E-01	2.09E-01
Sample ID:	282116	Sample Dates:	1/27/2014 - 2/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.97E-02	0.00E+00	1.97E-02
				Cs-134	<1.83E-02	0.00E+00	1.83E-02
				Cs-137	<1.14E-02	0.00E+00	1.14E-02
				Be-7	<1.47E-01	0.00E+00	1.47E-01
				K-40	6.17E-01	1.32E-01	2.57E-01
Sample ID:	282928	Sample Dates:	2/3/2014 - 2/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.41E-02	0.00E+00	1.41E-02
				Cs-134	<8.47E-03	0.00E+00	8.47E-03
				Cs-137	<9.07E-03	0.00E+00	9.07E-03
				Be-7	<6.38E-02	0.00E+00	6.38E-02
				K-40	4.94E-01	1.01E-01	1.47E-01
Sample ID:	283375	Sample Dates:	2/10/2014 - 2/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.39E-02	0.00E+00	1.39E-02
				Cs-134	<9.44E-03	0.00E+00	9.44E-03
				Cs-137	<8.49E-03	0.00E+00	8.49E-03
				Be-7	<7.53E-02	0.00E+00	7.53E-02
				K-40	6.75E-01	8.94E-02	3.20E-02
Sample ID:	284542	Sample Dates:	2/17/2014 - 2/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.45E-02	0.00E+00	1.45E-02
				Cs-134	<9.56E-03	0.00E+00	9.56E-03
				Cs-137	<1.12E-02	0.00E+00	1.12E-02
				Be-7	<1.08E-01	0.00E+00	1.08E-01
				K-40	<3.93E-01	0.00E+00	3.93E-01
Sample ID:	285103	Sample Dates:	2/24/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.85E-02	0.00E+00	1.85E-02
				Cs-134	<1.24E-02	0.00E+00	1.24E-02
				Cs-137	<1.14E-02	0.00E+00	1.14E-02
				Be-7	<1.41E-01	0.00E+00	1.41E-01
				K-40	3.82E-01	1.33E-01	2.70E-01
Sample ID:	285708	Sample Dates:	3/3/2014 - 3/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.00E-02	0.00E+00	1.00E-02
				Cs-134	<6.32E-03	0.00E+00	6.32E-03
				Cs-137	<9.77E-03	0.00E+00	9.77E-03
				Be-7	<6.91E-02	0.00E+00	6.91E-02
				K-40	2.79E-01	6.71E-02	8.77E-02
Sample ID:	286212	Sample Dates:	3/10/2014 - 3/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.53E-02	0.00E+00	2.53E-02
				Cs-134	<2.26E-02	0.00E+00	2.26E-02
				Cs-137	<1.37E-02	0.00E+00	1.37E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID:	286212	Sample Dates:	3/10/2014 - 3/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Be-7	<1.57E-01	0.00E+00	1.57E-01
				K-40	<6.23E-01	0.00E+00	6.23E-01
Sample ID:	287097	Sample Dates:	3/17/2014 - 3/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.28E-02	0.00E+00	1.28E-02
				Cs-134	<1.21E-02	0.00E+00	1.21E-02
				Cs-137	<1.05E-02	0.00E+00	1.05E-02
				Be-7	<8.88E-02	0.00E+00	8.88E-02
				K-40	3.49E-01	8.23E-02	1.87E-01
Sample ID:	288348	Sample Dates:	3/24/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.27E-02	0.00E+00	1.27E-02
				Cs-134	<1.12E-02	0.00E+00	1.12E-02
				Cs-137	<1.21E-02	0.00E+00	1.21E-02
				Be-7	<1.03E-01	0.00E+00	1.03E-01
				K-40	4.57E-01	1.02E-01	2.07E-01
Sample ID:	289072	Sample Dates:	3/31/2014 - 4/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.06E-02	0.00E+00	2.06E-02
				Cs-134	<1.30E-02	0.00E+00	1.30E-02
				Cs-137	<1.98E-02	0.00E+00	1.98E-02
				Be-7	<1.29E-01	0.00E+00	1.29E-01
				K-40	6.48E-01	1.38E-01	2.22E-01
Sample ID:	289458	Sample Dates:	4/7/2014 - 4/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.20E-02	0.00E+00	2.20E-02
				Cs-134	<2.31E-02	0.00E+00	2.31E-02
				Cs-137	<2.18E-02	0.00E+00	2.18E-02
				Be-7	<1.95E-01	0.00E+00	1.95E-01
				K-40	2.46E-01	1.03E-01	2.99E-01
Sample ID:	289868	Sample Dates:	4/14/2014 - 4/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.36E-02	0.00E+00	1.36E-02
				Cs-134	<1.29E-02	0.00E+00	1.29E-02
				Cs-137	<1.42E-02	0.00E+00	1.42E-02
				Be-7	<7.23E-02	0.00E+00	7.23E-02
				K-40	4.75E-01	9.87E-02	1.30E-01
Sample ID:	291473	Sample Dates:	4/21/2014 - 4/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.52E-02	0.00E+00	2.52E-02
				Cs-134	<1.76E-02	0.00E+00	1.76E-02
				Cs-137	<1.77E-02	0.00E+00	1.77E-02
				Be-7	<1.10E-01	0.00E+00	1.10E-01
				K-40	5.64E-01	1.26E-01	3.47E-01
Sample ID:	292767	Sample Dates:	4/28/2014 - 5/5/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.06E-02	0.00E+00	2.06E-02
				Cs-134	<1.46E-02	0.00E+00	1.46E-02
				Cs-137	<2.22E-02	0.00E+00	2.22E-02
				Be-7	<1.62E-01	0.00E+00	1.62E-01
				K-40	4.07E-01	1.09E-01	2.63E-01
Sample ID:	293029	Sample Dates:	5/5/2014 - 5/12/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.34E-02	0.00E+00	1.34E-02
				Cs-134	<1.39E-02	0.00E+00	1.39E-02
				Cs-137	<1.59E-02	0.00E+00	1.59E-02
				Be-7	<8.65E-02	0.00E+00	8.65E-02
				K-40	1.46E-01	7.70E-02	6.26E-02
Sample ID:	294660	Sample Dates:	5/12/2014 - 5/19/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.40E-02	0.00E+00	1.40E-02
				Cs-134	<1.22E-02	0.00E+00	1.22E-02
				Cs-137	<1.44E-02	0.00E+00	1.44E-02
				Be-7	<9.92E-02	0.00E+00	9.92E-02
				K-40	3.06E-01	9.71E-02	1.72E-01
Sample ID:	295169	Sample Dates:	5/19/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<4.34E-02	0.00E+00	4.34E-02
				Cs-134	<1.08E-02	0.00E+00	1.08E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID: 295169	Sample Dates: 5/19/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	2.95E-01	8.50E-02	2.22E-01
Sample ID: 295430	Sample Dates: 5/27/2014 - 6/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.63E-02	0.00E+00	2.63E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<2.22E-01	0.00E+00	2.22E-01
Sample ID: 295945	Sample Dates: 6/2/2014 - 6/9/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<1.26E-02	0.00E+00	1.26E-02
		Cs-137	<2.61E-02	0.00E+00	2.61E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
Sample ID: 296190	Sample Dates: 6/9/2014 - 6/16/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
Sample ID: 296711	Sample Dates: 6/16/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<2.83E-02	0.00E+00	2.83E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
Sample ID: 296938	Sample Dates: 6/23/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<1.82E-02	0.00E+00	1.82E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
Sample ID: 297335	Sample Dates: 6/30/2014 - 7/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<2.48E-02	0.00E+00	2.48E-02
		Cs-137	<2.48E-02	0.00E+00	2.48E-02
		Be-7	<1.78E-01	0.00E+00	1.78E-01
Sample ID: 297623	Sample Dates: 7/7/2014 - 7/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.82E-02	0.00E+00	2.82E-02
		Cs-134	<1.01E-02	0.00E+00	1.01E-02
		Cs-137	<1.26E-02	0.00E+00	1.26E-02
		Be-7	<9.69E-02	0.00E+00	9.69E-02
Sample ID: 298159	Sample Dates: 7/14/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<4.76E-02	0.00E+00	4.76E-02
		Cs-134	<1.02E-02	0.00E+00	1.02E-02
		Cs-137	<1.26E-02	0.00E+00	1.26E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
Sample ID: 350195	Sample Dates: 7/21/2014 - 7/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.71E-02	0.00E+00	2.71E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<2.16E-02	0.00E+00	2.16E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
Sample ID: 350936	Sample Dates: 7/28/2014 - 8/4/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.66E-02	0.00E+00	1.66E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID: 350936	Sample Dates: 7/28/2014 - 8/4/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Cs-134	<1.30E-02	0.00E+00	1.30E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	<5.75E-01	0.00E+00	5.75E-01
Sample ID: 351182	Sample Dates: 8/4/2014 - 8/11/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.04E-02	0.00E+00	2.04E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
Sample ID: 351621	Sample Dates: 8/11/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.61E-02	0.00E+00	1.61E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.00E-01	0.00E+00	1.00E-01
Sample ID: 353432	Sample Dates: 8/18/2014 - 8/25/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<3.43E-02	0.00E+00	3.43E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.50E-01	0.00E+00	1.50E-01
Sample ID: 354069	Sample Dates: 8/25/2014 - 9/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.73E-02	0.00E+00	1.73E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<1.13E-02	0.00E+00	1.13E-02
		Be-7	<9.03E-02	0.00E+00	9.03E-02
Sample ID: 354451	Sample Dates: 9/2/2014 - 9/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.72E-02	0.00E+00	1.72E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
Sample ID: 354767	Sample Dates: 9/8/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<8.54E-03	0.00E+00	8.54E-03
		Cs-134	<9.38E-03	0.00E+00	9.38E-03
		Cs-137	<9.23E-03	0.00E+00	9.23E-03
		Be-7	<5.94E-02	0.00E+00	5.94E-02
Sample ID: 355176	Sample Dates: 9/15/2014 - 9/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.86E-02	0.00E+00	1.86E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
Sample ID: 355645	Sample Dates: 9/22/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.11E-02	0.00E+00	1.11E-02
		Cs-134	<8.53E-03	0.00E+00	8.53E-03
		Cs-137	<1.06E-02	0.00E+00	1.06E-02
		Be-7	<5.41E-02	0.00E+00	5.41E-02
Sample ID: 356509	Sample Dates: 9/29/2014 - 10/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.82E-02	0.00E+00	1.82E-02
		Cs-134	<1.30E-02	0.00E+00	1.30E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
Sample ID: 356509	Sample Dates: 9/29/2014 - 10/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
		K-40	<5.36E-01	0.00E+00	5.36E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID: 357054	Sample Dates: 10/6/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.22E-02	0.00E+00	1.22E-02
		Cs-134	<1.30E-02	0.00E+00	1.30E-02
		Cs-137	<1.28E-02	0.00E+00	1.28E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	6.47E-01	2.81E-01	7.97E-02
Sample ID: 358053	Sample Dates: 10/13/2014 - 10/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<1.34E-02	0.00E+00	1.34E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
		K-40	3.34E-01	2.03E-01	8.22E-02
Sample ID: 358661	Sample Dates: 10/20/2014 - 10/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.62E-02	0.00E+00	1.62E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<2.10E-02	0.00E+00	2.10E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	4.45E-01	3.05E-01	4.05E-01
Sample ID: 359304	Sample Dates: 10/27/2014 - 11/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	5.11E-01	2.89E-01	3.18E-01
Sample ID: 360035	Sample Dates: 11/3/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.76E-02	0.00E+00	1.76E-02
		Cs-134	<1.30E-02	0.00E+00	1.30E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<9.22E-02	0.00E+00	9.22E-02
		K-40	<5.61E-01	0.00E+00	5.61E-01
Sample ID: 360717	Sample Dates: 11/10/2014 - 11/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.50E-02	0.00E+00	2.50E-02
		Cs-134	<1.33E-02	0.00E+00	1.33E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	<5.66E-01	0.00E+00	5.66E-01
Sample ID: 361579	Sample Dates: 11/17/2014 - 11/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	5.68E-01	2.65E-01	8.11E-02
Sample ID: 361958	Sample Dates: 11/24/2014 - 12/1/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.74E-02	0.00E+00	2.74E-02
		Cs-134	<1.19E-02	0.00E+00	1.19E-02
		Cs-137	<1.49E-02	0.00E+00	1.49E-02
		Be-7	<8.64E-02	0.00E+00	8.64E-02
		K-40	3.71E-01	2.53E-01	3.37E-01
Sample ID: 362788	Sample Dates: 12/1/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.52E-02	0.00E+00	1.52E-02
		Cs-134	<1.47E-02	0.00E+00	1.47E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<9.11E-02	0.00E+00	9.11E-02
		K-40	6.00E-01	2.74E-01	2.30E-01
Sample ID: 363528	Sample Dates: 12/8/2014 - 12/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.18E-02	0.00E+00	1.18E-02
		Cs-134	<1.11E-02	0.00E+00	1.11E-02
		Cs-137	<1.31E-02	0.00E+00	1.31E-02
		Be-7	<8.84E-02	0.00E+00	8.84E-02
		K-40	3.26E-01	1.65E-01	1.82E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 078.1 [INDICATOR - WSW @ 0.53 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
363975	12/15/2014 - 12/22/2014	I-131	<9.48E-03	0.00E+00	9.48E-03
		Cs-134	<1.24E-02	0.00E+00	1.24E-02
		Cs-137	<1.43E-02	0.00E+00	1.43E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	4.57E-01	1.83E-01	4.77E-02

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
364517	12/22/2014 - 12/29/2014	I-131	<1.30E-02	0.00E+00	1.30E-02
		Cs-134	<9.72E-03	0.00E+00	9.72E-03
		Cs-137	<1.36E-02	0.00E+00	1.36E-02
		Be-7	<9.13E-02	0.00E+00	9.13E-02
		K-40	5.41E-01	1.82E-01	3.86E-02

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
280637	12/30/2013 - 1/6/2014	I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<2.34E-02	0.00E+00	2.34E-02
		Cs-137	<1.14E-02	0.00E+00	1.14E-02
		Be-7	<1.85E-01	0.00E+00	1.85E-01
		K-40	<5.50E-01	0.00E+00	5.50E-01

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
280810	1/6/2014 - 1/13/2014	I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<2.18E-02	0.00E+00	2.18E-02
		Be-7	<1.73E-01	0.00E+00	1.73E-01
		K-40	<6.07E-01	0.00E+00	6.07E-01

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
281169	1/13/2014 - 1/20/2014	I-131	<1.20E-02	0.00E+00	1.20E-02
		Cs-134	<8.76E-03	0.00E+00	8.76E-03
		Cs-137	<7.72E-03	0.00E+00	7.72E-03
		Be-7	<6.00E-02	0.00E+00	6.00E-02
		K-40	3.92E-01	8.76E-02	1.40E-01

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
281490	1/20/2014 - 1/27/2014	I-131	<1.44E-02	0.00E+00	1.44E-02
		Cs-134	<1.35E-02	0.00E+00	1.35E-02
		Cs-137	<1.25E-02	0.00E+00	1.25E-02
		Be-7	<6.88E-02	0.00E+00	6.88E-02
		K-40	2.59E-01	7.47E-02	2.74E-01

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
282113	1/27/2014 - 2/3/2014	I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<2.36E-02	0.00E+00	2.36E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	5.32E-01	1.22E-01	2.03E-01

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
282925	2/3/2014 - 2/10/2014	I-131	<2.06E-02	0.00E+00	2.06E-02
		Cs-134	<1.28E-02	0.00E+00	1.28E-02
		Cs-137	<1.82E-02	0.00E+00	1.82E-02
		Be-7	4.73E-02	3.34E-02	8.81E-02
		K-40	6.35E-01	1.25E-01	6.60E-02

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
283372	2/10/2014 - 2/17/2014	I-131	<1.62E-02	0.00E+00	1.62E-02
		Cs-134	<1.25E-02	0.00E+00	1.25E-02
		Cs-137	<1.01E-02	0.00E+00	1.01E-02
		Be-7	<8.76E-02	0.00E+00	8.76E-02
		K-40	3.42E-01	8.55E-02	5.78E-02

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
284539	2/17/2014 - 2/24/2014	I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<1.60E-02	0.00E+00	1.60E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID: 284539	Sample Dates: 2/17/2014 - 2/24/2014	Nuclide K-40	Activity <5.26E-01	Sigma Error ¹ 0.00E+00	LLD 5.26E-01
Sample ID: 285100	Sample Dates: 2/24/2014 - 3/3/2014	Nuclide I-131 Cs-134 Cs-137 Be-7 K-40	Activity <1.82E-02 <1.41E-02 <2.18E-02 <9.48E-02 <4.89E-01	Sigma Error ¹ 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	LLD 1.82E-02 1.41E-02 2.18E-02 9.48E-02 4.89E-01
Sample ID: 285705	Sample Dates: 3/3/2014 - 3/10/2014	Nuclide I-131 Cs-134 Cs-137 Be-7 K-40	Activity <2.40E-02 <1.77E-02 <1.68E-02 <9.78E-02 5.99E-01	Sigma Error ¹ 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.57E-01	LLD 2.40E-02 1.77E-02 1.68E-02 9.78E-02 3.70E-01
Sample ID: 286209	Sample Dates: 3/10/2014 - 3/17/2014	Nuclide I-131 Cs-134 Cs-137 Be-7 K-40	Activity <2.31E-02 <2.08E-02 <1.83E-02 <1.76E-01 <4.05E-01	Sigma Error ¹ 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	LLD 2.31E-02 2.08E-02 1.83E-02 1.76E-01 4.05E-01
Sample ID: 287094	Sample Dates: 3/17/2014 - 3/24/2014	Nuclide I-131 Cs-134 Cs-137 Be-7 K-40	Activity <1.58E-02 <9.50E-03 <1.48E-02 <1.01E-01 <4.66E-01	Sigma Error ¹ 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	LLD 1.58E-02 9.50E-03 1.48E-02 1.01E-01 4.66E-01
Sample ID: 288345	Sample Dates: 3/24/2014 - 3/31/2014	Nuclide I-131 Cs-134 Cs-137 Be-7 K-40	Activity <1.14E-02 <6.49E-03 <7.80E-03 <7.45E-02 5.99E-01	Sigma Error ¹ 0.00E+00 0.00E+00 0.00E+00 0.00E+00 8.39E-02	LLD 1.14E-02 6.49E-03 7.80E-03 7.45E-02 3.17E-02
Sample ID: 289069	Sample Dates: 3/31/2014 - 4/7/2014	Nuclide I-131 Cs-134 Cs-137 Be-7 K-40	Activity <2.70E-02 <1.92E-02 <2.38E-02 <1.93E-01 5.50E-01	Sigma Error ¹ 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.26E-01	LLD 2.70E-02 1.92E-02 2.38E-02 1.93E-01 2.77E-01
Sample ID: 289455	Sample Dates: 4/7/2014 - 4/14/2014	Nuclide I-131 Cs-134 Cs-137 Be-7 K-40	Activity <1.21E-02 <8.66E-03 <1.40E-02 <7.14E-02 <4.34E-01	Sigma Error ¹ 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	LLD 1.21E-02 8.66E-03 1.40E-02 7.14E-02 4.34E-01
Sample ID: 289865	Sample Dates: 4/14/2014 - 4/21/2014	Nuclide I-131 Cs-134 Cs-137 Be-7 K-40	Activity <1.00E-02 <8.22E-03 <1.34E-02 <1.05E-01 <3.98E-01	Sigma Error ¹ 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	LLD 1.00E-02 8.22E-03 1.34E-02 1.05E-01 3.98E-01
Sample ID: 291470	Sample Dates: 4/21/2014 - 4/28/2014	Nuclide I-131 Cs-134 Cs-137 Be-7 K-40	Activity <2.12E-02 <1.46E-02 <2.38E-02 <1.45E-01 5.07E-01	Sigma Error ¹ 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.19E-01	LLD 2.12E-02 1.46E-02 2.38E-02 1.45E-01 7.61E-02
Sample ID: 292764	Sample Dates: 4/28/2014 - 5/5/2014	Nuclide I-131 Cs-134 Cs-137	Activity <1.48E-02 <1.01E-02 <1.53E-02	Sigma Error ¹ 0.00E+00 0.00E+00 0.00E+00	LLD 1.48E-02 1.01E-02 1.53E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID: 292764	Sample Dates: 4/28/2014 - 5/5/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Be-7	<7.28E-02	0.00E+00	7.28E-02
		K-40	<4.44E-01	0.00E+00	4.44E-01
Sample ID: 293026	Sample Dates: 5/5/2014 - 5/12/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.68E-02	0.00E+00	1.68E-02
		Cs-134	<1.14E-02	0.00E+00	1.14E-02
		Cs-137	<1.39E-02	0.00E+00	1.39E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	7.12E-01	1.52E-01	1.69E-01
Sample ID: 294657	Sample Dates: 5/12/2014 - 5/19/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.69E-02	0.00E+00	1.69E-02
		Cs-134	<1.36E-02	0.00E+00	1.36E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<1.03E-01	0.00E+00	1.03E-01
		K-40	5.84E-01	1.19E-01	6.58E-02
Sample ID: 295166	Sample Dates: 5/19/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<3.95E-02	0.00E+00	3.95E-02
		Cs-134	<1.45E-02	0.00E+00	1.45E-02
		Cs-137	<1.71E-02	0.00E+00	1.71E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
		K-40	3.92E-01	9.80E-02	6.62E-02
Sample ID: 295427	Sample Dates: 5/27/2014 - 6/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.55E-02	0.00E+00	2.55E-02
		Cs-134	<2.42E-02	0.00E+00	2.42E-02
		Cs-137	<2.66E-02	0.00E+00	2.66E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
		K-40	6.53E-01	1.50E-01	9.30E-02
Sample ID: 295942	Sample Dates: 6/2/2014 - 6/9/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.47E-02	0.00E+00	1.47E-02
		Cs-134	<4.83E-03	0.00E+00	4.83E-03
		Cs-137	<1.33E-02	0.00E+00	1.33E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	3.74E-01	9.34E-02	1.66E-01
Sample ID: 296187	Sample Dates: 6/9/2014 - 6/16/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.21E-02	0.00E+00	2.21E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	5.80E-01	1.18E-01	2.68E-01
Sample ID: 296708	Sample Dates: 6/16/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.07E-02	0.00E+00	2.07E-02
		Cs-134	<1.64E-02	0.00E+00	1.64E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	3.22E-01	1.22E-01	3.84E-01
Sample ID: 296935	Sample Dates: 6/23/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.34E-02	0.00E+00	1.34E-02
		Cs-134	<6.61E-03	0.00E+00	6.61E-03
		Cs-137	<3.05E-03	0.00E+00	3.05E-03
		Be-7	<7.48E-02	0.00E+00	7.48E-02
		K-40	2.98E-01	7.70E-02	1.43E-01
Sample ID: 297332	Sample Dates: 6/30/2014 - 7/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.31E-02	0.00E+00	1.31E-02
		Cs-134	<8.81E-03	0.00E+00	8.81E-03
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<1.39E-01	0.00E+00	1.39E-01
		K-40	4.68E-01	1.05E-01	1.76E-01
Sample ID: 297620	Sample Dates: 7/7/2014 - 7/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<6.54E-03	0.00E+00	6.54E-03

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID: 297620	Sample Dates: 7/7/2014 - 7/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Cs-137	<1.01E-02	0.00E+00	1.01E-02
		Be-7	<3.58E-02	0.00E+00	3.58E-02
		K-40	4.86E-01	1.54E-01	3.06E-02
Sample ID: 298156	Sample Dates: 7/14/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<3.60E-02	0.00E+00	3.60E-02
		Cs-134	<1.49E-02	0.00E+00	1.49E-02
		Cs-137	<1.85E-02	0.00E+00	1.85E-02
		Be-7	<3.23E-02	0.00E+00	3.23E-02
Sample ID: 350196	Sample Dates: 7/21/2014 - 7/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.36E-02	0.00E+00	2.36E-02
		Cs-134	<1.34E-02	0.00E+00	1.34E-02
		Cs-137	<1.32E-02	0.00E+00	1.32E-02
		Be-7	<1.63E-01	0.00E+00	1.63E-01
Sample ID: 350937	Sample Dates: 7/28/2014 - 8/4/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<2.10E-02	0.00E+00	2.10E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
Sample ID: 351183	Sample Dates: 8/4/2014 - 8/11/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.23E-02	0.00E+00	2.23E-02
		Cs-134	<1.05E-02	0.00E+00	1.05E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
Sample ID: 351622	Sample Dates: 8/11/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.77E-02	0.00E+00	1.77E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<1.83E-02	0.00E+00	1.83E-02
		Be-7	<9.89E-02	0.00E+00	9.89E-02
Sample ID: 353433	Sample Dates: 8/18/2014 - 8/25/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.03E-02	0.00E+00	2.03E-02
		Cs-134	<2.86E-02	0.00E+00	2.86E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
Sample ID: 354071	Sample Dates: 8/25/2014 - 9/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.43E-02	0.00E+00	1.43E-02
		Be-7	<9.05E-02	0.00E+00	9.05E-02
Sample ID: 354452	Sample Dates: 9/2/2014 - 9/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<2.67E-02	0.00E+00	2.67E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
Sample ID: 354768	Sample Dates: 9/8/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.00E-02	0.00E+00	1.00E-02
		Cs-134	<1.09E-02	0.00E+00	1.09E-02
		Cs-137	<7.81E-03	0.00E+00	7.81E-03
		Be-7	<5.03E-02	0.00E+00	5.03E-02
Sample ID: 355178	Sample Dates: 9/15/2014 - 9/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.87E-02	0.00E+00	1.87E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID: 355178	Sample Dates: 9/15/2014 - 9/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	3.42E-01	2.38E-01	2.77E-01
Sample ID: 355646	Sample Dates: 9/22/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.97E-02	0.00E+00	1.97E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<1.29E-02	0.00E+00	1.29E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
Sample ID: 356511	Sample Dates: 9/29/2014 - 10/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.38E-02	0.00E+00	2.38E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<1.62E-02	0.00E+00	1.62E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
Sample ID: 357055	Sample Dates: 10/6/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<1.02E-02	0.00E+00	1.02E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
Sample ID: 358054	Sample Dates: 10/13/2014 - 10/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<1.07E-02	0.00E+00	1.07E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<8.48E-02	0.00E+00	8.48E-02
Sample ID: 358662	Sample Dates: 10/20/2014 - 10/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
Sample ID: 359306	Sample Dates: 10/27/2014 - 11/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
Sample ID: 360036	Sample Dates: 11/3/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.75E-02	0.00E+00	1.75E-02
		Cs-134	<1.00E-02	0.00E+00	1.00E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<9.20E-02	0.00E+00	9.20E-02
Sample ID: 360718	Sample Dates: 11/10/2014 - 11/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.00E-02	0.00E+00	2.00E-02
		Cs-134	<1.87E-02	0.00E+00	1.87E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
Sample ID: 361580	Sample Dates: 11/17/2014 - 11/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.00E-02	0.00E+00	2.00E-02
		Cs-134	<1.05E-02	0.00E+00	1.05E-02
		Cs-137	<1.31E-02	0.00E+00	1.31E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	4.63E-01	2.86E-01	3.41E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID: 361959	Sample Dates: 11/24/2014 - 12/1/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.95E-02	0.00E+00	2.95E-02
		Cs-134	<3.00E-03	0.00E+00	3.00E-03
		Cs-137	<1.02E-02	0.00E+00	1.02E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	<5.03E-01	0.00E+00	5.03E-01
Sample ID: 362789	Sample Dates: 12/1/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.52E-02	0.00E+00	1.52E-02
		Cs-134	<8.86E-03	0.00E+00	8.86E-03
		Cs-137	<1.01E-02	0.00E+00	1.01E-02
		Be-7	<8.80E-02	0.00E+00	8.80E-02
		K-40	6.27E-01	1.95E-01	3.77E-02
Sample ID: 363529	Sample Dates: 12/8/2014 - 12/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.13E-02	0.00E+00	2.13E-02
		Cs-134	<1.37E-02	0.00E+00	1.37E-02
		Cs-137	<1.71E-02	0.00E+00	1.71E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	5.17E-01	2.60E-01	2.29E-01
Sample ID: 363976	Sample Dates: 12/15/2014 - 12/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.11E-02	0.00E+00	2.11E-02
		Cs-134	<1.40E-02	0.00E+00	1.40E-02
		Cs-137	<1.43E-02	0.00E+00	1.43E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	5.60E-01	2.24E-01	1.99E-01
Sample ID: 364518	Sample Dates: 12/22/2014 - 12/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.22E-02	0.00E+00	1.22E-02
		Cs-134	<6.40E-03	0.00E+00	6.40E-03
		Cs-137	<1.29E-02	0.00E+00	1.29E-02
		Be-7	<7.71E-02	0.00E+00	7.71E-02
		K-40	4.72E-01	1.82E-01	1.49E-01

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID: 280638	Sample Dates: 12/30/2013 - 1/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.50E-02	0.00E+00	2.50E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<1.44E-02	0.00E+00	1.44E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	7.06E-01	1.41E-01	2.68E-01
Sample ID: 280811	Sample Dates: 1/6/2014 - 1/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.11E-02	0.00E+00	2.11E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<1.93E-01	0.00E+00	1.93E-01
		K-40	7.04E-01	1.70E-01	2.62E-01
Sample ID: 281170	Sample Dates: 1/13/2014 - 1/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<9.26E-03	0.00E+00	9.26E-03
		Cs-134	<7.75E-03	0.00E+00	7.75E-03
		Cs-137	<1.17E-02	0.00E+00	1.17E-02
		Be-7	<7.32E-02	0.00E+00	7.32E-02
		K-40	5.15E-01	7.85E-02	1.28E-01
Sample ID: 281491	Sample Dates: 1/20/2014 - 1/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.00E-02	0.00E+00	2.00E-02
		Cs-134	<1.11E-02	0.00E+00	1.11E-02
		Cs-137	<1.20E-02	0.00E+00	1.20E-02
		Be-7	<1.09E-01	0.00E+00	1.09E-01
		K-40	5.17E-01	1.34E-01	1.71E-01
Sample ID: 282114	Sample Dates: 1/27/2014 - 2/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.00E-02	0.00E+00	2.00E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<2.18E-02	0.00E+00	2.18E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID:	282114	Sample Dates:	1/27/2014 - 2/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				K-40	<5.66E-01	0.00E+00	5.66E-01
Sample ID:	282926	Sample Dates:	2/3/2014 - 2/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.29E-02	0.00E+00	1.29E-02
				Cs-134	<1.24E-02	0.00E+00	1.24E-02
				Cs-137	<1.78E-02	0.00E+00	1.78E-02
				Be-7	<1.02E-01	0.00E+00	1.02E-01
				K-40	3.73E-01	9.04E-02	1.62E-01
Sample ID:	283373	Sample Dates:	2/10/2014 - 2/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.22E-02	0.00E+00	2.22E-02
				Cs-134	<1.78E-02	0.00E+00	1.78E-02
				Cs-137	<1.69E-02	0.00E+00	1.69E-02
				Be-7	<1.67E-01	0.00E+00	1.67E-01
				K-40	4.27E-01	1.48E-01	3.47E-01
Sample ID:	284540	Sample Dates:	2/17/2014 - 2/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<8.85E-03	0.00E+00	8.85E-03
				Cs-134	<9.26E-03	0.00E+00	9.26E-03
				Cs-137	<1.24E-02	0.00E+00	1.24E-02
				Be-7	<7.36E-02	0.00E+00	7.36E-02
				K-40	1.72E-01	8.39E-02	1.62E-01
Sample ID:	285101	Sample Dates:	2/24/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.35E-02	0.00E+00	2.35E-02
				Cs-134	<1.47E-02	0.00E+00	1.47E-02
				Cs-137	<2.46E-02	0.00E+00	2.46E-02
				Be-7	<1.42E-01	0.00E+00	1.42E-01
				K-40	4.50E-01	1.13E-01	2.13E-01
Sample ID:	285706	Sample Dates:	3/3/2014 - 3/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.31E-02	0.00E+00	1.31E-02
				Cs-134	<1.37E-02	0.00E+00	1.37E-02
				Cs-137	<1.56E-02	0.00E+00	1.56E-02
				Be-7	<1.50E-01	0.00E+00	1.50E-01
				K-40	5.30E-01	1.13E-01	3.04E-01
Sample ID:	286210	Sample Dates:	3/10/2014 - 3/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.32E-02	0.00E+00	2.32E-02
				Cs-134	<1.77E-02	0.00E+00	1.77E-02
				Cs-137	<2.29E-02	0.00E+00	2.29E-02
				Be-7	<1.39E-01	0.00E+00	1.39E-01
				K-40	3.89E-01	1.68E-01	2.06E-01
Sample ID:	287095	Sample Dates:	3/17/2014 - 3/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.39E-02	0.00E+00	2.39E-02
				Cs-134	<1.87E-02	0.00E+00	1.87E-02
				Cs-137	<2.00E-02	0.00E+00	2.00E-02
				Be-7	<1.53E-01	0.00E+00	1.53E-01
				K-40	5.12E-01	1.21E-01	2.58E-01
Sample ID:	288346	Sample Dates:	3/24/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.32E-02	0.00E+00	1.32E-02
				Cs-134	<9.45E-03	0.00E+00	9.45E-03
				Cs-137	<1.48E-02	0.00E+00	1.48E-02
				Be-7	<7.21E-02	0.00E+00	7.21E-02
				K-40	4.31E-01	7.74E-02	3.76E-02
Sample ID:	289070	Sample Dates:	3/31/2014 - 4/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.92E-02	0.00E+00	2.92E-02
				Cs-134	<1.47E-02	0.00E+00	1.47E-02
				Cs-137	<1.78E-02	0.00E+00	1.78E-02
				Be-7	<1.53E-01	0.00E+00	1.53E-01
				K-40	4.82E-01	1.43E-01	2.72E-01
Sample ID:	289456	Sample Dates:	4/7/2014 - 4/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.86E-02	0.00E+00	1.86E-02
				Cs-134	<1.66E-02	0.00E+00	1.66E-02
				Cs-137	<1.68E-02	0.00E+00	1.68E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID: 289456	Sample Dates: 4/7/2014 - 4/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Be-7	<1.78E-01	0.00E+00	1.78E-01
		K-40	<5.83E-01	0.00E+00	5.83E-01
Sample ID: 289866	Sample Dates: 4/14/2014 - 4/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<1.50E-02	0.00E+00	1.50E-02
		Cs-137	<1.23E-02	0.00E+00	1.23E-02
		Be-7	<1.80E-01	0.00E+00	1.80E-01
Sample ID: 291471	Sample Dates: 4/21/2014 - 4/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<2.19E-02	0.00E+00	2.19E-02
		Cs-137	<1.85E-02	0.00E+00	1.85E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
Sample ID: 292765	Sample Dates: 4/28/2014 - 5/5/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.36E-02	0.00E+00	2.36E-02
		Cs-134	<1.63E-02	0.00E+00	1.63E-02
		Cs-137	<2.86E-02	0.00E+00	2.86E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
Sample ID: 293027	Sample Dates: 5/5/2014 - 5/12/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.74E-02	0.00E+00	1.74E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<2.37E-02	0.00E+00	2.37E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
Sample ID: 294658	Sample Dates: 5/12/2014 - 5/19/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.24E-02	0.00E+00	1.24E-02
		Cs-134	<9.21E-03	0.00E+00	9.21E-03
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<6.89E-02	0.00E+00	6.89E-02
Sample ID: 295167	Sample Dates: 5/19/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<3.50E-02	0.00E+00	3.50E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
Sample ID: 295428	Sample Dates: 5/27/2014 - 6/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.85E-02	0.00E+00	2.85E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<3.00E-02	0.00E+00	3.00E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
Sample ID: 295943	Sample Dates: 6/2/2014 - 6/9/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<1.40E-02	0.00E+00	1.40E-02
		Be-7	<9.58E-02	0.00E+00	9.58E-02
Sample ID: 296188	Sample Dates: 6/9/2014 - 6/16/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<2.60E-02	0.00E+00	2.60E-02
		Be-7	<2.04E-01	0.00E+00	2.04E-01
Sample ID: 296709	Sample Dates: 6/16/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.41E-02	0.00E+00	2.41E-02
		Cs-134	<1.21E-02	0.00E+00	1.21E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID: 296709	Sample Dates: 6/16/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Cs-137	<4.41E-03	0.00E+00	4.41E-03
		Be-7	<1.52E-01	0.00E+00	1.52E-01
		K-40	<5.96E-01	0.00E+00	5.96E-01
Sample ID: 296936	Sample Dates: 6/23/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<9.85E-02	0.00E+00	9.85E-02
Sample ID: 297333	Sample Dates: 6/30/2014 - 7/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.88E-02	0.00E+00	2.88E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.96E-01	0.00E+00	1.96E-01
Sample ID: 297621	Sample Dates: 7/7/2014 - 7/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<4.44E-02	0.00E+00	4.44E-02
		Cs-134	<1.06E-02	0.00E+00	1.06E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
Sample ID: 298157	Sample Dates: 7/14/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<3.99E-02	0.00E+00	3.99E-02
		Cs-134	<1.82E-02	0.00E+00	1.82E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
Sample ID: 350197	Sample Dates: 7/21/2014 - 7/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
Sample ID: 350938	Sample Dates: 7/28/2014 - 8/4/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.88E-02	0.00E+00	1.88E-02
		Cs-134	<1.30E-02	0.00E+00	1.30E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
Sample ID: 351184	Sample Dates: 8/4/2014 - 8/11/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.84E-02	0.00E+00	1.84E-02
		Cs-134	<1.05E-02	0.00E+00	1.05E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.97E-01	0.00E+00	1.97E-01
Sample ID: 351623	Sample Dates: 8/11/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.81E-02	0.00E+00	1.81E-02
		Cs-134	<5.58E-03	0.00E+00	5.58E-03
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<1.72E-01	0.00E+00	1.72E-01
Sample ID: 353434	Sample Dates: 8/18/2014 - 8/25/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<3.07E-02	0.00E+00	3.07E-02
		Cs-134	<2.60E-02	0.00E+00	2.60E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	6.48E-02	8.67E-02	1.42E-01
Sample ID: 354073	Sample Dates: 8/25/2014 - 9/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.05E-02	0.00E+00	2.05E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID: 354073	Sample Dates: 8/25/2014 - 9/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Cs-134	<4.97E-03	0.00E+00	4.97E-03
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	4.33E-01	2.33E-01	2.17E-01
Sample ID: 354453	Sample Dates: 9/2/2014 - 9/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<2.98E-02	0.00E+00	2.98E-02
		Cs-137	<2.23E-02	0.00E+00	2.23E-02
		Be-7	<1.96E-01	0.00E+00	1.96E-01
Sample ID: 354769	Sample Dates: 9/8/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.73E-02	0.00E+00	1.73E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<1.26E-02	0.00E+00	1.26E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
Sample ID: 355180	Sample Dates: 9/15/2014 - 9/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.32E-02	0.00E+00	1.32E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
Sample ID: 355647	Sample Dates: 9/22/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<3.80E-03	0.00E+00	3.80E-03
		Cs-137	<2.47E-02	0.00E+00	2.47E-02
		Be-7	<8.09E-02	0.00E+00	8.09E-02
Sample ID: 356513	Sample Dates: 9/29/2014 - 10/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.86E-02	0.00E+00	1.86E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
Sample ID: 357056	Sample Dates: 10/6/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.82E-02	0.00E+00	1.82E-02
		Cs-134	<1.84E-02	0.00E+00	1.84E-02
		Cs-137	<2.47E-02	0.00E+00	2.47E-02
		Be-7	<1.86E-01	0.00E+00	1.86E-01
Sample ID: 358055	Sample Dates: 10/13/2014 - 10/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<1.87E-02	0.00E+00	1.87E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
Sample ID: 358663	Sample Dates: 10/20/2014 - 10/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<1.30E-02	0.00E+00	1.30E-02
		Cs-137	<1.88E-02	0.00E+00	1.89E-02
		Be-7	<1.55E-01	0.00E+00	1.55E-01
Sample ID: 359307	Sample Dates: 10/27/2014 - 11/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.65E-02	0.00E+00	1.65E-02
		Cs-134	<1.86E-02	0.00E+00	1.86E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		Nuclide	Activity	Sigma Error ¹	LLD
		K-40	<5.63E-01	0.00E+00	5.63E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID: 360037	Sample Dates: 11/3/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.36E-02	0.00E+00	2.36E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<1.00E-02	0.00E+00	1.00E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	6.92E-01	2.64E-01	6.47E-02
Sample ID: 360719	Sample Dates: 11/10/2014 - 11/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<1.33E-02	0.00E+00	1.33E-02
		Cs-137	<2.34E-02	0.00E+00	2.34E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
		K-40	2.40E-01	2.09E-01	2.80E-01
Sample ID: 361581	Sample Dates: 11/17/2014 - 11/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.42E-02	0.00E+00	1.42E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.76E-01	0.00E+00	1.76E-01
		K-40	<4.48E-01	0.00E+00	4.48E-01
Sample ID: 361960	Sample Dates: 11/24/2014 - 12/1/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<3.69E-02	0.00E+00	3.69E-02
		Cs-134	<1.19E-02	0.00E+00	1.19E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.69E-01	0.00E+00	1.69E-01
		K-40	6.08E-01	2.48E-01	6.59E-02
Sample ID: 362790	Sample Dates: 12/1/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.75E-02	0.00E+00	1.75E-02
		Cs-134	<1.01E-02	0.00E+00	1.01E-02
		Cs-137	<1.00E-02	0.00E+00	1.00E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	1.98E-01	2.14E-01	3.33E-01
Sample ID: 363530	Sample Dates: 12/8/2014 - 12/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<9.49E-03	0.00E+00	9.49E-03
		Cs-134	<1.41E-02	0.00E+00	1.41E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<7.84E-02	0.00E+00	7.84E-02
		K-40	<3.76E-01	0.00E+00	3.76E-01
Sample ID: 363977	Sample Dates: 12/15/2014 - 12/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.79E-02	0.00E+00	1.79E-02
		Cs-134	<1.32E-02	0.00E+00	1.32E-02
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<9.33E-02	0.00E+00	9.33E-02
		K-40	4.92E-01	1.90E-01	4.76E-02
Sample ID: 364519	Sample Dates: 12/22/2014 - 12/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.10E-02	0.00E+00	1.10E-02
		Cs-134	<1.35E-02	0.00E+00	1.35E-02
		Cs-137	<9.28E-03	0.00E+00	9.28E-03
		Be-7	<7.76E-02	0.00E+00	7.76E-02
		K-40	3.73E-01	2.01E-01	2.60E-01
Sample Point 084 [INDICATOR - NNE @ 2.58 miles]					
Sample ID: 280639	Sample Dates: 12/30/2013 - 1/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	<5.58E-01	0.00E+00	5.58E-01
Sample ID: 280812	Sample Dates: 1/6/2014 - 1/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<1.61E-02	0.00E+00	1.61E-02
		Cs-137	<2.55E-02	0.00E+00	2.55E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID:	280812	Sample Dates:	1/6/2014 - 1/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				K-40	4.06E-01	1.08E-01	2.63E-01
Sample ID:	281171	Sample Dates:	1/13/2014 - 1/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.20E-02	0.00E+00	2.20E-02
				Cs-134	<1.07E-02	0.00E+00	1.07E-02
				Cs-137	<1.38E-02	0.00E+00	1.38E-02
				Be-7	<1.35E-01	0.00E+00	1.35E-01
				K-40	4.08E-01	1.21E-01	2.76E-01
Sample ID:	281492	Sample Dates:	1/20/2014 - 1/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.12E-02	0.00E+00	1.12E-02
				Cs-134	<9.64E-03	0.00E+00	9.64E-03
				Cs-137	<1.12E-02	0.00E+00	1.12E-02
				Be-7	<8.40E-02	0.00E+00	8.40E-02
				K-40	2.33E-01	6.73E-02	5.26E-02
Sample ID:	282115	Sample Dates:	1/27/2014 - 2/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.93E-02	0.00E+00	1.93E-02
				Cs-134	<1.39E-02	0.00E+00	1.39E-02
				Cs-137	<1.75E-02	0.00E+00	1.75E-02
				Be-7	<1.16E-01	0.00E+00	1.16E-01
				K-40	7.05E-01	1.29E-01	1.69E-01
Sample ID:	282927	Sample Dates:	2/3/2014 - 2/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.08E-02	0.00E+00	1.08E-02
				Cs-134	<1.22E-02	0.00E+00	1.22E-02
				Cs-137	<9.84E-03	0.00E+00	9.84E-03
				Be-7	<1.03E-01	0.00E+00	1.03E-01
				K-40	4.35E-01	9.28E-02	5.35E-02
Sample ID:	283374	Sample Dates:	2/10/2014 - 2/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.66E-02	0.00E+00	1.66E-02
				Cs-134	<4.29E-03	0.00E+00	4.29E-03
				Cs-137	<1.73E-02	0.00E+00	1.73E-02
				Be-7	<5.57E-02	0.00E+00	5.57E-02
				K-40	2.37E-01	8.90E-02	5.22E-02
Sample ID:	284541	Sample Dates:	2/17/2014 - 2/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.28E-02	0.00E+00	1.28E-02
				Cs-134	<1.29E-02	0.00E+00	1.29E-02
				Cs-137	<1.08E-02	0.00E+00	1.08E-02
				Be-7	<1.13E-01	0.00E+00	1.13E-01
				K-40	3.90E-01	9.18E-02	2.63E-01
Sample ID:	285102	Sample Dates:	2/24/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.56E-02	0.00E+00	1.56E-02
				Cs-134	<1.39E-02	0.00E+00	1.39E-02
				Cs-137	<9.32E-03	0.00E+00	9.32E-03
				Be-7	<1.41E-01	0.00E+00	1.41E-01
				K-40	4.19E-01	1.18E-01	2.54E-01
Sample ID:	285707	Sample Dates:	3/3/2014 - 3/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.52E-02	0.00E+00	2.52E-02
				Cs-134	<1.97E-02	0.00E+00	1.97E-02
				Cs-137	<2.54E-02	0.00E+00	2.54E-02
				Be-7	<1.75E-01	0.00E+00	1.75E-01
				K-40	3.63E-01	1.88E-01	3.38E-01
Sample ID:	286211	Sample Dates:	3/10/2014 - 3/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.50E-02	0.00E+00	2.50E-02
				Cs-134	<1.62E-02	0.00E+00	1.62E-02
				Cs-137	<1.91E-02	0.00E+00	1.91E-02
				Be-7	<1.62E-01	0.00E+00	1.62E-01
				K-40	4.89E-01	1.18E-01	2.06E-01
Sample ID:	287096	Sample Dates:	3/17/2014 - 3/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.20E-02	0.00E+00	1.20E-02
				Cs-134	<1.34E-02	0.00E+00	1.34E-02
				Cs-137	<1.08E-02	0.00E+00	1.08E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID: 287096	Sample Dates: 3/17/2014 - 3/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Be-7	<6.63E-02	0.00E+00	6.63E-02
		K-40	2.35E-01	9.91E-02	5.26E-02
Sample ID: 288347	Sample Dates: 3/24/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<2.30E-02	0.00E+00	2.30E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	6.17E-01	1.32E-01	2.63E-01
Sample ID: 289071	Sample Dates: 3/31/2014 - 4/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<2.46E-02	0.00E+00	2.46E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	3.82E-01	1.27E-01	2.78E-01
Sample ID: 289457	Sample Dates: 4/7/2014 - 4/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.94E-02	0.00E+00	1.94E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<8.40E-02	0.00E+00	8.40E-02
		K-40	5.90E-01	1.18E-01	6.38E-02
Sample ID: 289867	Sample Dates: 4/14/2014 - 4/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.89E-02	0.00E+00	1.89E-02
		Cs-134	<1.93E-02	0.00E+00	1.93E-02
		Cs-137	<1.23E-02	0.00E+00	1.23E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	4.89E-01	1.18E-01	2.75E-01
Sample ID: 291472	Sample Dates: 4/21/2014 - 4/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	<6.30E-01	0.00E+00	6.30E-01
Sample ID: 292766	Sample Dates: 4/28/2014 - 5/5/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.51E-02	0.00E+00	1.51E-02
		Cs-134	<1.08E-02	0.00E+00	1.08E-02
		Cs-137	<1.04E-02	0.00E+00	1.04E-02
		Be-7	<8.19E-02	0.00E+00	8.19E-02
		K-40	4.17E-01	9.10E-02	2.21E-01
Sample ID: 293028	Sample Dates: 5/5/2014 - 5/12/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.15E-02	0.00E+00	1.15E-02
		Cs-134	<1.14E-02	0.00E+00	1.14E-02
		Cs-137	<1.05E-02	0.00E+00	1.05E-02
		Be-7	<6.47E-02	0.00E+00	6.47E-02
		K-40	3.64E-01	8.34E-02	1.38E-01
Sample ID: 294659	Sample Dates: 5/12/2014 - 5/19/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<1.45E-02	0.00E+00	1.45E-02
		Cs-137	<2.28E-02	0.00E+00	2.28E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	<5.80E-01	0.00E+00	5.80E-01
Sample ID: 295168	Sample Dates: 5/19/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<3.82E-02	0.00E+00	3.82E-02
		Cs-134	<1.29E-02	0.00E+00	1.29E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	<5.09E-01	0.00E+00	5.09E-01
Sample ID: 295429	Sample Dates: 5/27/2014 - 6/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<3.37E-02	0.00E+00	3.37E-02
		Cs-134	<2.24E-02	0.00E+00	2.24E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID: 295429	Sample Dates: 5/27/2014 - 6/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.62E-01	0.00E+00	1.62E-01
		K-40	4.64E-01	1.61E-01	3.19E-01
Sample ID: 295944	Sample Dates: 6/2/2014 - 6/9/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.98E-02	0.00E+00	1.98E-02
		Cs-134	<1.23E-02	0.00E+00	1.23E-02
		Cs-137	<2.25E-02	0.00E+00	2.25E-02
		Be-7	<1.57E-01	0.00E+00	1.57E-01
Sample ID: 296189	Sample Dates: 6/9/2014 - 6/16/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.94E-02	0.00E+00	1.94E-02
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.30E-02	0.00E+00	1.30E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
Sample ID: 296710	Sample Dates: 6/16/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.36E-02	0.00E+00	2.36E-02
		Cs-134	<1.83E-02	0.00E+00	1.83E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.68E-01	0.00E+00	1.68E-01
Sample ID: 296937	Sample Dates: 6/23/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.62E-02	0.00E+00	1.62E-02
		Cs-134	<1.20E-02	0.00E+00	1.20E-02
		Cs-137	<1.55E-02	0.00E+00	1.55E-02
		Be-7	<7.59E-02	0.00E+00	7.59E-02
Sample ID: 297334	Sample Dates: 6/30/2014 - 7/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.05E-02	0.00E+00	2.05E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.66E-01	0.00E+00	1.66E-01
Sample ID: 297622	Sample Dates: 7/7/2014 - 7/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<1.58E-02	0.00E+00	1.58E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
Sample ID: 298158	Sample Dates: 7/14/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<3.25E-02	0.00E+00	3.25E-02
		Cs-134	<1.02E-02	0.00E+00	1.02E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
Sample ID: 350198	Sample Dates: 7/21/2014 - 7/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.34E-02	0.00E+00	1.34E-02
		Cs-134	<1.34E-02	0.00E+00	1.34E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.07E-01	0.00E+00	1.07E-01
Sample ID: 350939	Sample Dates: 7/28/2014 - 8/4/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.71E-02	0.00E+00	2.71E-02
		Cs-134	<1.83E-02	0.00E+00	1.83E-02
		Cs-137	<1.28E-02	0.00E+00	1.28E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
Sample ID: 351185	Sample Dates: 8/4/2014 - 8/11/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.57E-02	0.00E+00	2.57E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID: 351185	Sample Dates: 8/4/2014 - 8/11/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	4.31E-01	2.91E-01	3.73E-01
Sample ID: 351624	Sample Dates: 8/11/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<2.48E-02	0.00E+00	2.48E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
Sample ID: 353435	Sample Dates: 8/18/2014 - 8/25/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.69E-02	0.00E+00	2.69E-02
		Cs-134	<5.87E-03	0.00E+00	5.87E-03
		Cs-137	<4.90E-03	0.00E+00	4.90E-03
		Be-7	<1.38E-01	0.00E+00	1.38E-01
Sample ID: 354075	Sample Dates: 8/25/2014 - 9/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.04E-02	0.00E+00	2.04E-02
		Cs-134	<1.35E-02	0.00E+00	1.35E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
Sample ID: 354454	Sample Dates: 9/2/2014 - 9/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<2.30E-02	0.00E+00	2.30E-02
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<1.71E-01	0.00E+00	1.71E-01
Sample ID: 354770	Sample Dates: 9/8/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.24E-02	0.00E+00	1.24E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<3.67E-03	0.00E+00	3.67E-03
		Be-7	<7.77E-02	0.00E+00	7.77E-02
Sample ID: 355182	Sample Dates: 9/15/2014 - 9/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
Sample ID: 355648	Sample Dates: 9/22/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<1.29E-02	0.00E+00	1.29E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
Sample ID: 356515	Sample Dates: 9/29/2014 - 10/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<2.00E-02	0.00E+00	2.00E-02
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
Sample ID: 357057	Sample Dates: 10/6/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		Nuclide	Activity	Sigma Error ¹	LLD
		K-40	<5.26E-01	0.00E+00	5.26E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID: 358056	Sample Dates: 10/13/2014 - 10/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.03E-02	0.00E+00	2.03E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<1.33E-02	0.00E+00	1.33E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	4.48E-01	3.01E-01	3.87E-01
Sample ID: 358664	Sample Dates: 10/20/2014 - 10/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.41E-02	0.00E+00	1.41E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<2.29E-02	0.00E+00	2.29E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	<5.56E-01	0.00E+00	5.56E-01
Sample ID: 359309	Sample Dates: 10/27/2014 - 11/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.84E-02	0.00E+00	1.84E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.31E-02	0.00E+00	1.31E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
		K-40	3.29E-01	2.34E-01	2.78E-01
Sample ID: 360038	Sample Dates: 11/3/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.01E-02	0.00E+00	1.01E-02
		Cs-137	<1.00E-02	0.00E+00	1.00E-02
		Be-7	<8.00E-02	0.00E+00	8.00E-02
		K-40	5.51E-01	2.34E-01	6.49E-02
Sample ID: 360720	Sample Dates: 11/10/2014 - 11/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.56E-02	0.00E+00	1.56E-02
		Cs-134	<1.87E-02	0.00E+00	1.87E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	5.92E-01	3.25E-01	3.76E-01
Sample ID: 361582	Sample Dates: 11/17/2014 - 11/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.84E-02	0.00E+00	1.84E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<2.13E-02	0.00E+00	2.13E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
		K-40	2.68E-01	1.80E-01	8.08E-02
Sample ID: 361961	Sample Dates: 11/24/2014 - 12/1/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.98E-02	0.00E+00	2.98E-02
		Cs-134	<1.33E-02	0.00E+00	1.33E-02
		Cs-137	<1.28E-02	0.00E+00	1.28E-02
		Be-7	<8.65E-02	0.00E+00	8.65E-02
		K-40	4.37E-01	2.09E-01	6.58E-02
Sample ID: 362791	Sample Dates: 12/1/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.87E-02	0.00E+00	2.87E-02
		Cs-134	<1.47E-02	0.00E+00	1.47E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	<5.95E-01	0.00E+00	5.95E-01
Sample ID: 363531	Sample Dates: 12/8/2014 - 12/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<8.52E-03	0.00E+00	8.52E-03
		Cs-134	<8.43E-03	0.00E+00	8.43E-03
		Cs-137	<1.39E-02	0.00E+00	1.39E-02
		Be-7	<8.38E-02	0.00E+00	8.38E-02
		K-40	5.07E-01	2.17E-01	2.45E-01
Sample ID: 363978	Sample Dates: 12/15/2014 - 12/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.63E-02	0.00E+00	1.63E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<1.31E-02	0.00E+00	1.31E-02
		Be-7	<8.54E-02	0.00E+00	8.54E-02
		K-40	5.80E-01	2.08E-01	4.76E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
364520	12/22/2014 - 12/29/2014	I-131	<7.10E-03	0.00E+00	7.10E-03
		Cs-134	<7.39E-03	0.00E+00	7.39E-03
		Cs-137	<8.68E-03	0.00E+00	8.68E-03
		Be-7	<5.71E-02	0.00E+00	5.71E-02
		K-40	3.82E-01	1.34E-01	1.44E-01

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
280658	12/30/2013 - 1/6/2014	I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<1.58E-02	0.00E+00	1.58E-02
		Cs-137	<1.44E-02	0.00E+00	1.44E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	3.67E-01	1.02E-01	2.68E-01

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
280831	1/6/2014 - 1/13/2014	I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<8.86E-03	0.00E+00	8.86E-03
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	4.16E-01	1.42E-01	4.34E-01

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
281190	1/13/2014 - 1/20/2014	I-131	<1.78E-02	0.00E+00	1.78E-02
		Cs-134	<1.25E-02	0.00E+00	1.25E-02
		Cs-137	<8.98E-03	0.00E+00	8.98E-03
		Be-7	<7.33E-02	0.00E+00	7.33E-02
		K-40	4.62E-01	1.23E-01	6.40E-02

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
281511	1/20/2014 - 1/27/2014	I-131	<1.08E-02	0.00E+00	1.08E-02
		Cs-134	<7.45E-03	0.00E+00	7.45E-03
		Cs-137	<1.17E-02	0.00E+00	1.17E-02
		Be-7	<6.62E-02	0.00E+00	6.62E-02
		K-40	4.77E-01	7.54E-02	8.67E-02

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
282134	1/27/2014 - 2/3/2014	I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<1.62E-02	0.00E+00	1.62E-02
		Cs-137	<1.55E-02	0.00E+00	1.55E-02
		Be-7	<1.58E-01	0.00E+00	1.58E-01
		K-40	3.65E-01	1.01E-01	2.97E-01

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
282946	2/3/2014 - 2/10/2014	I-131	<1.17E-02	0.00E+00	1.17E-02
		Cs-134	<7.62E-03	0.00E+00	7.62E-03
		Cs-137	<9.28E-03	0.00E+00	9.28E-03
		Be-7	<6.36E-02	0.00E+00	6.36E-02
		K-40	5.34E-01	8.05E-02	1.47E-01

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
283393	2/10/2014 - 2/17/2014	I-131	<1.38E-02	0.00E+00	1.38E-02
		Cs-134	<1.01E-02	0.00E+00	1.01E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<7.06E-02	0.00E+00	7.06E-02
		K-40	4.07E-01	9.34E-02	5.79E-02

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
284560	2/17/2014 - 2/24/2014	I-131	<1.45E-02	0.00E+00	1.45E-02
		Cs-134	<6.60E-03	0.00E+00	6.60E-03
		Cs-137	<1.25E-02	0.00E+00	1.25E-02
		Be-7	<9.54E-02	0.00E+00	9.54E-02
		K-40	<4.21E-01	0.00E+00	4.21E-01

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
285121	2/24/2014 - 3/3/2014	I-131	<1.90E-02	0.00E+00	1.90E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.23E-02	0.00E+00	1.23E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID:	285121	Sample Dates:	2/24/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
				K-40	4.51E-01	1.13E-01	7.62E-02
Sample ID:	285726	Sample Dates:	3/3/2014 - 3/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.03E-02	0.00E+00	1.03E-02
				Cs-134	<1.16E-02	0.00E+00	1.16E-02
				Cs-137	<9.45E-03	0.00E+00	9.45E-03
				Be-7	<9.01E-02	0.00E+00	9.01E-02
				K-40	2.83E-01	1.16E-01	1.70E-01
Sample ID:	286230	Sample Dates:	3/10/2014 - 3/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.77E-02	0.00E+00	1.77E-02
				Cs-134	<1.40E-02	0.00E+00	1.40E-02
				Cs-137	<2.11E-02	0.00E+00	2.11E-02
				Be-7	<1.31E-01	0.00E+00	1.31E-01
				K-40	<6.60E-01	0.00E+00	6.60E-01
Sample ID:	287115	Sample Dates:	3/17/2014 - 3/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.26E-02	0.00E+00	2.26E-02
				Cs-134	<1.79E-02	0.00E+00	1.79E-02
				Cs-137	<2.34E-02	0.00E+00	2.34E-02
				Be-7	<1.99E-01	0.00E+00	1.99E-01
				K-40	5.48E-01	1.55E-01	2.59E-01
Sample ID:	288366	Sample Dates:	3/24/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.56E-02	0.00E+00	1.56E-02
				Cs-134	<1.28E-02	0.00E+00	1.28E-02
				Cs-137	<3.53E-03	0.00E+00	3.53E-03
				Be-7	<7.46E-02	0.00E+00	7.46E-02
				K-40	<4.57E-01	0.00E+00	4.57E-01
Sample ID:	289090	Sample Dates:	3/31/2014 - 4/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.72E-02	0.00E+00	2.72E-02
				Cs-134	<2.30E-02	0.00E+00	2.30E-02
				Cs-137	<2.39E-02	0.00E+00	2.39E-02
				Be-7	<1.40E-01	0.00E+00	1.40E-01
				K-40	4.12E-01	1.10E-01	3.26E-01
Sample ID:	289476	Sample Dates:	4/7/2014 - 4/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<6.93E-03	0.00E+00	6.93E-03
				Cs-134	<8.84E-03	0.00E+00	8.84E-03
				Cs-137	<1.41E-02	0.00E+00	1.41E-02
				Be-7	<7.25E-02	0.00E+00	7.25E-02
				K-40	5.66E-01	8.84E-02	1.21E-01
Sample ID:	289886	Sample Dates:	4/14/2014 - 4/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<9.28E-03	0.00E+00	9.28E-03
				Cs-134	<1.34E-02	0.00E+00	1.34E-02
				Cs-137	<1.64E-02	0.00E+00	1.64E-02
				Be-7	<1.09E-01	0.00E+00	1.09E-01
				K-40	4.13E-01	9.49E-02	5.88E-02
Sample ID:	291491	Sample Dates:	4/21/2014 - 4/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.83E-02	0.00E+00	2.83E-02
				Cs-134	<1.73E-02	0.00E+00	1.73E-02
				Cs-137	<1.53E-02	0.00E+00	1.53E-02
				Be-7	<1.56E-01	0.00E+00	1.56E-01
				K-40	5.09E-01	1.20E-01	3.12E-01
Sample ID:	292785	Sample Dates:	4/28/2014 - 5/5/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.09E-02	0.00E+00	1.09E-02
				Cs-134	<1.30E-02	0.00E+00	1.30E-02
				Cs-137	<1.34E-02	0.00E+00	1.34E-02
				Be-7	<7.21E-02	0.00E+00	7.21E-02
				K-40	5.06E-01	8.44E-02	1.59E-01
Sample ID:	293047	Sample Dates:	5/5/2014 - 5/12/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.48E-02	0.00E+00	1.48E-02
				Cs-134	<1.05E-02	0.00E+00	1.05E-02
				Cs-137	<1.15E-02	0.00E+00	1.15E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID:	293047	Sample Dates:	5/5/2014 - 5/12/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Be-7	<7.88E-02	0.00E+00	7.88E-02
				K-40	3.83E-01	8.76E-02	1.18E-01
Sample ID:	294678	Sample Dates:	5/12/2014 - 5/19/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.06E-02	0.00E+00	2.06E-02
				Cs-134	<1.90E-02	0.00E+00	1.90E-02
				Cs-137	<1.90E-02	0.00E+00	1.90E-02
				Be-7	<2.01E-01	0.00E+00	2.01E-01
				K-40	5.79E-01	1.30E-01	2.70E-01
Sample ID:	295187	Sample Dates:	5/19/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<4.19E-02	0.00E+00	4.19E-02
				Cs-134	<1.55E-02	0.00E+00	1.55E-02
				Cs-137	<2.02E-02	0.00E+00	2.02E-02
				Be-7	<1.52E-01	0.00E+00	1.52E-01
				K-40	3.84E-01	1.18E-01	2.87E-01
Sample ID:	295448	Sample Dates:	5/27/2014 - 6/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<3.22E-02	0.00E+00	3.22E-02
				Cs-134	<1.74E-02	0.00E+00	1.74E-02
				Cs-137	<2.65E-02	0.00E+00	2.65E-02
				Be-7	<1.96E-01	0.00E+00	1.96E-01
				K-40	<6.67E-01	0.00E+00	6.67E-01
Sample ID:	295963	Sample Dates:	6/2/2014 - 6/9/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.07E-02	0.00E+00	2.07E-02
				Cs-134	<1.22E-02	0.00E+00	1.22E-02
				Cs-137	<2.03E-02	0.00E+00	2.03E-02
				Be-7	<1.59E-01	0.00E+00	1.59E-01
				K-40	3.40E-01	9.80E-02	2.11E-01
Sample ID:	296208	Sample Dates:	6/9/2014 - 6/16/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.16E-02	0.00E+00	1.16E-02
				Cs-134	<9.46E-03	0.00E+00	9.46E-03
				Cs-137	<1.58E-02	0.00E+00	1.58E-02
				Be-7	<7.62E-02	0.00E+00	7.62E-02
				K-40	4.04E-01	7.51E-02	1.25E-01
Sample ID:	296729	Sample Dates:	6/16/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<2.92E-02	0.00E+00	2.92E-02
				Cs-134	<1.55E-02	0.00E+00	1.55E-02
				Cs-137	<1.51E-02	0.00E+00	1.51E-02
				Be-7	<1.44E-01	0.00E+00	1.44E-01
				K-40	4.75E-01	1.15E-01	3.29E-01
Sample ID:	296956	Sample Dates:	6/23/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.94E-02	0.00E+00	1.94E-02
				Cs-134	<1.58E-02	0.00E+00	1.58E-02
				Cs-137	<1.37E-02	0.00E+00	1.37E-02
				Be-7	<8.32E-02	0.00E+00	8.32E-02
				K-40	6.61E-01	1.45E-01	2.03E-01
Sample ID:	297353	Sample Dates:	6/30/2014 - 7/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.61E-02	0.00E+00	1.61E-02
				Cs-134	<1.15E-02	0.00E+00	1.15E-02
				Cs-137	<1.59E-02	0.00E+00	1.59E-02
				Be-7	<1.01E-01	0.00E+00	1.01E-01
				K-40	3.30E-01	1.05E-01	1.76E-01
Sample ID:	297641	Sample Dates:	7/7/2014 - 7/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<1.85E-02	0.00E+00	1.85E-02
				Cs-134	<6.49E-03	0.00E+00	6.49E-03
				Cs-137	<1.44E-02	0.00E+00	1.44E-02
				Be-7	<7.45E-02	0.00E+00	7.45E-02
				K-40	<3.80E-01	0.00E+00	3.80E-01
Sample ID:	298177	Sample Dates:	7/14/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
				I-131	<4.54E-02	0.00E+00	4.54E-02
				Cs-134	<1.67E-02	0.00E+00	1.67E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID: 298177	Sample Dates: 7/14/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	5.66E-01	2.84E-01	2.64E-01
Sample ID: 350199	Sample Dates: 7/21/2014 - 7/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.95E-02	0.00E+00	1.95E-02
		Cs-134	<1.06E-02	0.00E+00	1.06E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.83E-01	0.00E+00	1.83E-01
Sample ID: 350940	Sample Dates: 7/28/2014 - 8/4/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<1.51E-02	0.00E+00	1.51E-02
		Cs-137	<1.62E-02	0.00E+00	1.62E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
Sample ID: 351186	Sample Dates: 8/4/2014 - 8/11/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
Sample ID: 351625	Sample Dates: 8/11/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<2.22E-02	0.00E+00	2.22E-02
		Cs-137	<1.27E-02	0.00E+00	1.27E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
Sample ID: 353436	Sample Dates: 8/18/2014 - 8/25/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.68E-02	0.00E+00	2.68E-02
		Cs-134	<1.59E-02	0.00E+00	1.59E-02
		Cs-137	<2.36E-02	0.00E+00	2.36E-02
		Be-7	<1.06E-01	0.00E+00	1.06E-01
Sample ID: 354077	Sample Dates: 8/25/2014 - 9/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.04E-02	0.00E+00	2.04E-02
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<4.15E-03	0.00E+00	4.15E-03
		Be-7	<1.17E-01	0.00E+00	1.17E-01
Sample ID: 354455	Sample Dates: 9/2/2014 - 9/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<2.67E-02	0.00E+00	2.67E-02
		Cs-137	<5.61E-03	0.00E+00	5.61E-03
		Be-7	<1.21E-01	0.00E+00	1.21E-01
Sample ID: 354771	Sample Dates: 9/8/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.95E-02	0.00E+00	1.95E-02
		Cs-134	<2.22E-02	0.00E+00	2.22E-02
		Cs-137	<2.01E-02	0.00E+00	2.01E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
Sample ID: 355184	Sample Dates: 9/15/2014 - 9/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<4.84E-03	0.00E+00	4.84E-03
		Be-7	<3.04E-02	0.00E+00	3.04E-02
Sample ID: 355649	Sample Dates: 9/22/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.28E-02	0.00E+00	2.28E-02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID: 355649	Sample Dates: 9/22/2014 - 9/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	5.23E-01	3.33E-01	4.38E-01
Sample ID: 356518	Sample Dates: 9/29/2014 - 10/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.84E-02	0.00E+00	2.84E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
Sample ID: 357058	Sample Dates: 10/6/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.80E-02	0.00E+00	1.80E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.29E-02	0.00E+00	1.29E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
Sample ID: 358057	Sample Dates: 10/13/2014 - 10/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.89E-01	0.00E+00	1.89E-01
Sample ID: 358665	Sample Dates: 10/20/2014 - 10/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<1.62E-02	0.00E+00	1.62E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
Sample ID: 359311	Sample Dates: 10/27/2014 - 11/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<3.84E-03	0.00E+00	3.84E-03
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
Sample ID: 360039	Sample Dates: 11/3/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.91E-02	0.00E+00	1.91E-02
		Cs-134	<1.30E-02	0.00E+00	1.30E-02
		Cs-137	<9.99E-03	0.00E+00	9.99E-03
		Be-7	<7.97E-02	0.00E+00	7.97E-02
Sample ID: 360721	Sample Dates: 11/10/2014 - 11/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
Sample ID: 361583	Sample Dates: 11/17/2014 - 11/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<1.32E-02	0.00E+00	1.32E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
Sample ID: 361962	Sample Dates: 11/24/2014 - 12/1/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.19E-02	0.00E+00	1.19E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		Nuclide	Activity	Sigma Error ¹	LLD
		K-40	3.71E-01	2.32E-01	2.79E-01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 085 [INDICATOR - NNW @ 0.88 miles]

Sample ID: 362792	Sample Dates: 12/1/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.16E-02	0.00E+00	1.16E-02
		Cs-134	<9.55E-03	0.00E+00	9.55E-03
		Cs-137	<1.10E-02	0.00E+00	1.10E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	4.36E-01	1.73E-01	1.43E-01
Sample ID: 363532	Sample Dates: 12/8/2014 - 12/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.19E-02	0.00E+00	1.19E-02
		Cs-134	<9.20E-03	0.00E+00	9.20E-03
		Cs-137	<1.14E-02	0.00E+00	1.14E-02
		Be-7	3.46E-02	3.86E-02	5.89E-02
		K-40	4.35E-01	1.92E-01	2.05E-01
Sample ID: 363979	Sample Dates: 12/15/2014 - 12/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.63E-02	0.00E+00	1.63E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	4.20E-02	4.15E-02	5.65E-02
		K-40	7.39E-01	2.36E-01	4.77E-02
Sample ID: 364521	Sample Dates: 12/22/2014 - 12/29/2014	Nuclide	Activity	Sigma Error ¹	LLD
		I-131	<1.17E-02	0.00E+00	1.17E-02
		Cs-134	<7.42E-03	0.00E+00	7.42E-03
		Cs-137	<1.49E-02	0.00E+00	1.49E-02
		Be-7	<8.22E-02	0.00E+00	8.22E-02
		K-40	4.96E-01	1.89E-01	1.63E-01

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 060 [INDICATOR - NE @ 3.23 miles]

Sample ID: 279017	Sample Dates: 12/9/2013 - 1/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	<2.78E-01	0.00E+00	1.20E+00
		Mn-54	<2.39E+00	0.00E+00	2.39E+00
		Co-58	<2.51E+00	0.00E+00	2.51E+00
		Fe-59	<5.95E+00	0.00E+00	5.95E+00
		Co-60	<3.30E+00	0.00E+00	3.30E+00
		Zn-65	<5.51E+00	0.00E+00	5.51E+00
		Zr-95	<4.66E+00	0.00E+00	4.66E+00
		Nb-95	<4.04E+00	0.00E+00	4.04E+00
		I-131	<1.44E+01	0.00E+00	1.44E+01
		Cs-134	<2.28E+00	0.00E+00	2.28E+00
		Cs-137	<2.68E+00	0.00E+00	2.68E+00
		BaLa-140	<8.59E+00	0.00E+00	8.59E+00
		Be-7	<2.80E+01	0.00E+00	2.80E+01
		K-40	9.55E+01	1.64E+01	2.96E+01
Sample ID: 280863	Sample Dates: 1/6/2014 - 2/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	1.05E+00	3.70E-01	1.18E+00
		Mn-54	<3.94E+00	0.00E+00	3.94E+00
		Co-58	<4.28E+00	0.00E+00	4.28E+00
		Fe-59	<6.58E+00	0.00E+00	6.58E+00
		Co-60	<3.50E+00	0.00E+00	3.50E+00
		Zn-65	<7.54E+00	0.00E+00	7.54E+00
		Zr-95	<6.30E+00	0.00E+00	6.30E+00
		Nb-95	<4.49E+00	0.00E+00	4.49E+00
		I-131	<1.43E+01	0.00E+00	1.43E+01
		Cs-134	<3.52E+00	0.00E+00	3.52E+00
		Cs-137	<3.38E+00	0.00E+00	3.38E+00
		BaLa-140	<7.70E+00	0.00E+00	7.70E+00
		Be-7	<3.68E+01	0.00E+00	3.68E+01
		K-40	1.70E+02	2.52E+01	3.33E+01
Sample ID: 282978	Sample Dates: 2/3/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	<4.58E-01	0.00E+00	1.29E+00
		Mn-54	<3.37E+00	0.00E+00	3.37E+00
		Co-58	<3.77E+00	0.00E+00	3.77E+00
		Fe-59	<7.38E+00	0.00E+00	7.38E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 060 [INDICATOR - NE @ 3.23 miles]

Sample ID: 282978	Sample Dates: 2/3/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Co-60	<3.72E+00	0.00E+00	3.72E+00
		Zn-65	<7.34E+00	0.00E+00	7.34E+00
		Zr-95	<7.39E+00	0.00E+00	7.39E+00
		Nb-95	<4.67E+00	0.00E+00	4.67E+00
		I-131	<1.43E+01	0.00E+00	1.43E+01
		Cs-134	<3.05E+00	0.00E+00	3.05E+00
		Cs-137	<3.76E+00	0.00E+00	3.76E+00
		BaLa-140	<9.06E+00	0.00E+00	9.06E+00
		Be-7	<3.35E+01	0.00E+00	3.35E+01
		K-40	1.36E+02	2.24E+01	3.15E+01
Sample ID: 284706	Sample Dates: 12/9/2013 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		H3DW	<-2.4E+00	0.00E+00	1.88E+02
Sample ID: 285758	Sample Dates: 3/3/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	1.62E+00	3.57E-01	1.08E+00
		Mn-54	<2.62E+00	0.00E+00	2.62E+00
		Co-58	<2.39E+00	0.00E+00	2.39E+00
		Fe-59	<6.01E+00	0.00E+00	6.01E+00
		Co-60	<3.23E+00	0.00E+00	3.23E+00
		Zn-65	<5.09E+00	0.00E+00	5.09E+00
		Zr-95	<3.95E+00	0.00E+00	3.95E+00
		Nb-95	<3.16E+00	0.00E+00	3.16E+00
		I-131	<8.80E+00	0.00E+00	8.80E+00
		Cs-134	<2.29E+00	0.00E+00	2.29E+00
		Cs-137	<2.80E+00	0.00E+00	2.80E+00
		BaLa-140	<5.95E+00	0.00E+00	5.95E+00
		Be-7	<2.52E+01	0.00E+00	2.52E+01
		K-40	1.01E+02	1.54E+01	2.28E+01
Sample ID: 289122	Sample Dates: 3/31/2014 - 4/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	1.36E+00	3.97E-01	1.27E+00
		Mn-54	<2.91E+00	0.00E+00	2.91E+00
		Co-58	<3.70E+00	0.00E+00	3.70E+00
		Fe-59	<5.91E+00	0.00E+00	5.91E+00
		Co-60	<3.13E+00	0.00E+00	3.13E+00
		Zn-65	<6.37E+00	0.00E+00	6.37E+00
		Zr-95	<6.07E+00	0.00E+00	6.07E+00
		Nb-95	<3.80E+00	0.00E+00	3.80E+00
		I-131	<1.21E+01	0.00E+00	1.21E+01
		Cs-134	<3.06E+00	0.00E+00	3.06E+00
		Cs-137	<3.44E+00	0.00E+00	3.44E+00
		BaLa-140	<8.30E+00	0.00E+00	8.30E+00
		Be-7	<2.71E+01	0.00E+00	2.71E+01
		K-40	1.74E+02	1.97E+01	2.83E+01
Sample ID: 292817	Sample Dates: 4/28/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	<5.96E-01	0.00E+00	1.34E+00
		Mn-54	<3.15E+00	0.00E+00	3.15E+00
		Co-58	<3.78E+00	0.00E+00	3.78E+00
		Fe-59	<6.64E+00	0.00E+00	6.64E+00
		Co-60	<3.44E+00	0.00E+00	3.44E+00
		Zn-65	<6.13E+00	0.00E+00	6.13E+00
		Zr-95	<5.36E+00	0.00E+00	5.36E+00
		Nb-95	<3.85E+00	0.00E+00	3.85E+00
		I-131	<1.24E+01	0.00E+00	1.24E+01
		Cs-134	<2.86E+00	0.00E+00	2.86E+00
		Cs-137	<2.96E+00	0.00E+00	2.96E+00
		BaLa-140	<1.02E+01	0.00E+00	1.02E+01
		Be-7	<2.82E+01	0.00E+00	2.82E+01
		K-40	3.09E+01	1.11E+01	3.18E+01
Sample ID: 295224	Sample Dates: 3/3/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		H3DW	<-4.1E+01	0.00E+00	1.88E+02
Sample ID: 295480	Sample Dates: 5/27/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	7.19E-01	3.67E-01	1.19E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 060 [INDICATOR - NE @ 3.23 miles]

Sample ID: 295480	Sample Dates: 5/27/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<3.63E+00	0.00E+00	3.63E+00
		Co-58	<4.05E+00	0.00E+00	4.05E+00
		Fe-59	<8.42E+00	0.00E+00	8.42E+00
		Co-60	<4.52E+00	0.00E+00	4.52E+00
		Zn-65	<6.30E+00	0.00E+00	6.30E+00
		Zr-95	<5.03E+00	0.00E+00	5.03E+00
		Nb-95	<4.61E+00	0.00E+00	4.61E+00
		I-131	<1.44E+01	0.00E+00	1.44E+01
		Cs-134	<3.38E+00	0.00E+00	3.38E+00
		Cs-137	<4.67E+00	0.00E+00	4.67E+00
		BaLa-140	<7.83E+00	0.00E+00	7.83E+00
		Be-7	<3.50E+01	0.00E+00	3.50E+01
		K-40	9.62E+01	1.74E+01	2.56E+01
Sample ID: 296988	Sample Dates: 6/23/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	<5.56E-01	0.00E+00	1.36E+00
		Mn-54	<1.17E+00	0.00E+00	1.17E+00
		Co-58	<1.35E+00	0.00E+00	1.35E+00
		Fe-59	<3.17E+00	0.00E+00	3.17E+00
		Co-60	<1.34E+00	0.00E+00	1.34E+00
		Zn-65	<2.37E+00	0.00E+00	2.37E+00
		Zr-95	<2.45E+00	0.00E+00	2.45E+00
		Nb-95	<1.94E+00	0.00E+00	1.94E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<1.04E+00	0.00E+00	1.04E+00
		Cs-137	<1.44E+00	0.00E+00	1.44E+00
		BaLa-140	<5.75E+00	0.00E+00	5.75E+00
		Be-7	<1.36E+01	0.00E+00	1.36E+01
		K-40	8.41E+01	1.66E+01	2.03E+01
Sample ID: 353551	Sample Dates: 7/21/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	7.29E-01	7.18E-01	1.19E+00
		Mn-54	<3.06E+00	0.00E+00	3.06E+00
		Co-58	<3.81E+00	0.00E+00	3.81E+00
		Fe-59	<8.33E+00	0.00E+00	8.33E+00
		Co-60	<4.60E+00	0.00E+00	4.60E+00
		Zn-65	<7.74E+00	0.00E+00	7.74E+00
		Zr-95	<7.16E+00	0.00E+00	7.16E+00
		Nb-95	<4.47E+00	0.00E+00	4.47E+00
		I-131	<1.14E+01	0.00E+00	1.14E+01
		Cs-134	<4.16E+00	0.00E+00	4.16E+00
		Cs-137	<2.61E+00	0.00E+00	2.61E+00
		BaLa-140	<1.00E+01	0.00E+00	1.00E+01
		Be-7	<3.25E+01	0.00E+00	3.25E+01
		K-40	6.01E+01	3.49E+01	5.00E+01
Sample ID: 354209	Sample Dates: 5/27/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
		H3DW	<1.11E+02	0.00E+00	1.88E+02
Sample ID: 354590	Sample Dates: 8/18/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	1.10E+00	7.49E-01	1.22E+00
		Mn-54	<1.87E+00	0.00E+00	1.87E+00
		Co-58	<1.90E+00	0.00E+00	1.90E+00
		Fe-59	<4.14E+00	0.00E+00	4.14E+00
		Co-60	<1.86E+00	0.00E+00	1.86E+00
		Zn-65	<4.07E+00	0.00E+00	4.07E+00
		Zr-95	<3.74E+00	0.00E+00	3.74E+00
		Nb-95	<2.84E+00	0.00E+00	2.84E+00
		I-131	<7.48E+00	0.00E+00	7.48E+00
		Cs-134	<2.26E+00	0.00E+00	2.26E+00
		Cs-137	<1.92E+00	0.00E+00	1.92E+00
		BaLa-140	<3.64E+00	0.00E+00	3.64E+00
		Be-7	<1.88E+01	0.00E+00	1.88E+01
		K-40	5.49E+01	2.25E+01	3.08E+01
Sample ID: 356861	Sample Dates: 9/15/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	<0.00E+00	0.00E+00	1.26E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 060 [INDICATOR - NE @ 3.23 miles]

Sample ID:	356861	Sample Dates:	9/15/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Mn-54	<2.78E+00	0.00E+00	2.78E+00
				Co-58	<3.15E+00	0.00E+00	3.15E+00
				Fe-59	<6.26E+00	0.00E+00	6.26E+00
				Co-60	<3.17E+00	0.00E+00	3.17E+00
				Zn-65	<5.65E+00	0.00E+00	5.65E+00
				Zr-95	<6.49E+00	0.00E+00	6.49E+00
				Nb-95	<4.21E+00	0.00E+00	4.21E+00
				I-131	<9.24E+00	0.00E+00	9.24E+00
				Cs-134	<3.00E+00	0.00E+00	3.00E+00
				Cs-137	<2.63E+00	0.00E+00	2.63E+00
				BaLa-140	<8.09E+00	0.00E+00	8.09E+00
				Be-7	<2.52E+01	0.00E+00	2.52E+01
				K-40	1.11E+02	3.19E+01	3.71E+01

Sample ID:	359752	Sample Dates:	10/13/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.31E+00	7.37E-01	1.18E+00
				Mn-54	<1.39E+00	0.00E+00	1.39E+00
				Co-58	<1.98E+00	0.00E+00	1.98E+00
				Fe-59	<3.65E+00	0.00E+00	3.65E+00
				Co-60	<1.47E+00	0.00E+00	1.47E+00
				Zn-65	<2.97E+00	0.00E+00	2.97E+00
				Zr-95	<2.53E+00	0.00E+00	2.53E+00
				Nb-95	<2.16E+00	0.00E+00	2.16E+00
				I-131	<1.01E+01	0.00E+00	1.01E+01
				Cs-134	<1.67E+00	0.00E+00	1.67E+00
				Cs-137	<1.28E+00	0.00E+00	1.28E+00
				BaLa-140	<4.68E+00	0.00E+00	4.68E+00
				Be-7	<1.59E+01	0.00E+00	1.59E+01
				K-40	1.71E+01	1.35E+01	2.10E+01

Sample ID:	362149	Sample Dates:	11/10/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	<-2.9E-01	0.00E+00	1.33E+00
				Mn-54	<9.61E-01	0.00E+00	9.61E-01
				Co-58	<1.29E+00	0.00E+00	1.29E+00
				Fe-59	<2.93E+00	0.00E+00	2.93E+00
				Co-60	<1.01E+00	0.00E+00	1.01E+00
				Zn-65	<1.96E+00	0.00E+00	1.96E+00
				Zr-95	<2.29E+00	0.00E+00	2.29E+00
				Nb-95	<1.69E+00	0.00E+00	1.69E+00
				I-131	<1.20E+01	0.00E+00	1.20E+01
				Cs-134	<1.14E+00	0.00E+00	1.14E+00
				Cs-137	<9.61E-01	0.00E+00	9.61E-01
				BaLa-140	<4.82E+00	0.00E+00	4.82E+00
				Be-7	<1.04E+01	0.00E+00	1.04E+01
				K-40	1.03E+02	1.49E+01	1.57E+01

Sample ID:	364866	Sample Dates:	8/18/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
				H3DW	<5.03E+00	0.00E+00	1.91E+02

Sample Point 064 [CONTROL - SSW @ 6.67 miles]

Sample ID:	279018	Sample Dates:	12/9/2013 - 1/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	<5.11E-01	0.00E+00	1.21E+00
				Mn-54	<2.87E+00	0.00E+00	2.87E+00
				Co-58	<3.26E+00	0.00E+00	3.26E+00
				Fe-59	<5.97E+00	0.00E+00	5.97E+00
				Co-60	<3.10E+00	0.00E+00	3.10E+00
				Zn-65	<6.64E+00	0.00E+00	6.64E+00
				Zr-95	<5.62E+00	0.00E+00	5.62E+00
				Nb-95	<4.58E+00	0.00E+00	4.58E+00
				I-131	<1.34E+01	0.00E+00	1.34E+01
				Cs-134	<2.65E+00	0.00E+00	2.65E+00
				Cs-137	<3.26E+00	0.00E+00	3.26E+00
				BaLa-140	<7.70E+00	0.00E+00	7.70E+00
				Be-7	<2.95E+01	0.00E+00	2.95E+01
				K-40	1.91E+02	2.17E+01	2.87E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 064 [CONTROL - SSW @ 6.67 miles]

Sample ID: 280864	Sample Dates: 1/6/2014 - 2/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	7.59E-01	3.62E-01	1.18E+00
		Mn-54	<3.67E+00	0.00E+00	3.67E+00
		Co-58	<4.44E+00	0.00E+00	4.44E+00
		Fe-59	<8.28E+00	0.00E+00	8.28E+00
		Co-60	<4.75E+00	0.00E+00	4.75E+00
		Zn-65	<8.03E+00	0.00E+00	8.03E+00
		Zr-95	<6.02E+00	0.00E+00	6.02E+00
		Nb-95	<5.27E+00	0.00E+00	5.27E+00
		I-131	<1.33E+01	0.00E+00	1.33E+01
		Cs-134	<3.77E+00	0.00E+00	3.77E+00
		Cs-137	<2.82E+00	0.00E+00	2.82E+00
		BaLa-140	<8.96E+00	0.00E+00	8.96E+00
		Be-7	<2.99E+01	0.00E+00	2.99E+01
		K-40	<6.31E+01	0.00E+00	6.31E+01
Sample ID: 282979	Sample Dates: 2/3/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	<1.02E-01	0.00E+00	1.29E+00
		Mn-54	<3.82E+00	0.00E+00	3.82E+00
		Co-58	<3.66E+00	0.00E+00	3.66E+00
		Fe-59	<7.44E+00	0.00E+00	7.44E+00
		Co-60	<3.75E+00	0.00E+00	3.75E+00
		Zn-65	<6.95E+00	0.00E+00	6.95E+00
		Zr-95	<6.69E+00	0.00E+00	6.69E+00
		Nb-95	<4.30E+00	0.00E+00	4.30E+00
		I-131	<1.24E+01	0.00E+00	1.24E+01
		Cs-134	<3.07E+00	0.00E+00	3.07E+00
		Cs-137	<3.02E+00	0.00E+00	3.02E+00
		BaLa-140	<7.68E+00	0.00E+00	7.68E+00
		Be-7	<3.34E+01	0.00E+00	3.34E+01
		K-40	1.00E+02	1.95E+01	2.94E+01
Sample ID: 284707	Sample Dates: 12/9/2013 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		H3DW	<-3.3E+01	0.00E+00	1.89E+02
Sample ID: 285759	Sample Dates: 3/3/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	1.39E+00	3.52E-01	1.08E+00
		Mn-54	<3.43E+00	0.00E+00	3.43E+00
		Co-58	<3.50E+00	0.00E+00	3.50E+00
		Fe-59	<7.11E+00	0.00E+00	7.11E+00
		Co-60	<2.92E+00	0.00E+00	2.92E+00
		Zn-65	<5.89E+00	0.00E+00	5.89E+00
		Zr-95	<5.48E+00	0.00E+00	5.48E+00
		Nb-95	<3.97E+00	0.00E+00	3.97E+00
		I-131	<1.40E+01	0.00E+00	1.40E+01
		Cs-134	<3.08E+00	0.00E+00	3.08E+00
		Cs-137	<3.14E+00	0.00E+00	3.14E+00
		BaLa-140	<7.45E+00	0.00E+00	7.45E+00
		Be-7	<3.16E+01	0.00E+00	3.16E+01
		K-40	1.92E+02	2.24E+01	3.08E+01
Sample ID: 289123	Sample Dates: 3/31/2014 - 4/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	1.27E+00	3.94E-01	1.27E+00
		Mn-54	<2.66E+00	0.00E+00	2.66E+00
		Co-58	<3.03E+00	0.00E+00	3.03E+00
		Fe-59	<5.78E+00	0.00E+00	5.78E+00
		Co-60	<2.96E+00	0.00E+00	2.96E+00
		Zn-65	<7.57E+00	0.00E+00	7.57E+00
		Zr-95	<5.74E+00	0.00E+00	5.74E+00
		Nb-95	<3.48E+00	0.00E+00	3.48E+00
		I-131	<1.21E+01	0.00E+00	1.21E+01
		Cs-134	<2.83E+00	0.00E+00	2.83E+00
		Cs-137	<3.27E+00	0.00E+00	3.27E+00
		BaLa-140	<7.60E+00	0.00E+00	7.60E+00
		Be-7	<2.83E+01	0.00E+00	2.83E+01
		K-40	9.57E+01	2.12E+01	3.14E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 064 [CONTROL - SSW @ 6.67 miles]

Sample ID: 292818	Sample Dates: 4/28/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	1.33E+00	4.16E-01	1.34E+00
		Mn-54	<1.78E+00	0.00E+00	1.78E+00
		Co-58	<2.72E+00	0.00E+00	2.72E+00
		Fe-59	<5.48E+00	0.00E+00	5.48E+00
		Co-60	<2.31E+00	0.00E+00	2.31E+00
		Zn-65	<4.77E+00	0.00E+00	4.77E+00
		Zr-95	<4.81E+00	0.00E+00	4.81E+00
		Nb-95	<3.67E+00	0.00E+00	3.67E+00
		I-131	<1.39E+01	0.00E+00	1.39E+01
		Cs-134	<1.99E+00	0.00E+00	1.99E+00
		Cs-137	<2.12E+00	0.00E+00	2.12E+00
		BaLa-140	<6.55E+00	0.00E+00	6.55E+00
		Be-7	<2.49E+01	0.00E+00	2.49E+01
		K-40	1.74E+02	1.82E+01	1.67E+01
Sample ID: 295225	Sample Dates: 3/3/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		H3DW	<-2.2E+01	0.00E+00	1.88E+02
Sample ID: 295481	Sample Dates: 5/27/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	9.41E-01	3.71E-01	1.19E+00
		Mn-54	<3.51E+00	0.00E+00	3.51E+00
		Co-58	<3.22E+00	0.00E+00	3.22E+00
		Fe-59	<8.15E+00	0.00E+00	8.15E+00
		Co-60	<4.97E+00	0.00E+00	4.97E+00
		Zn-65	<7.66E+00	0.00E+00	7.66E+00
		Zr-95	<6.83E+00	0.00E+00	6.83E+00
		Nb-95	<4.93E+00	0.00E+00	4.93E+00
		I-131	<1.44E+01	0.00E+00	1.44E+01
		Cs-134	<3.15E+00	0.00E+00	3.15E+00
		Cs-137	<3.85E+00	0.00E+00	3.85E+00
		BaLa-140	<1.05E+01	0.00E+00	1.05E+01
		Be-7	<3.22E+01	0.00E+00	3.22E+01
		K-40	4.04E+01	1.87E+01	4.12E+01
Sample ID: 296989	Sample Dates: 6/23/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	8.98E-01	8.21E-01	1.36E+00
		Mn-54	<1.31E+00	0.00E+00	1.31E+00
		Co-58	<1.55E+00	0.00E+00	1.55E+00
		Fe-59	<3.36E+00	0.00E+00	3.36E+00
		Co-60	<1.49E+00	0.00E+00	1.49E+00
		Zn-65	<2.92E+00	0.00E+00	2.92E+00
		Zr-95	<2.93E+00	0.00E+00	2.93E+00
		Nb-95	<2.35E+00	0.00E+00	2.35E+00
		I-131	<1.10E+01	0.00E+00	1.10E+01
		Cs-134	<1.19E+00	0.00E+00	1.19E+00
		Cs-137	<1.30E+00	0.00E+00	1.30E+00
		BaLa-140	<5.54E+00	0.00E+00	5.54E+00
		Be-7	<1.38E+01	0.00E+00	1.38E+01
		K-40	9.80E+01	2.09E+01	2.70E+01
Sample ID: 353552	Sample Dates: 7/21/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	9.66E-01	7.25E-01	1.19E+00
		Mn-54	<3.03E+00	0.00E+00	3.03E+00
		Co-58	<3.37E+00	0.00E+00	3.37E+00
		Fe-59	<7.46E+00	0.00E+00	7.46E+00
		Co-60	<4.14E+00	0.00E+00	4.14E+00
		Zn-65	<7.31E+00	0.00E+00	7.31E+00
		Zr-95	<6.59E+00	0.00E+00	6.59E+00
		Nb-95	<4.28E+00	0.00E+00	4.28E+00
		I-131	<1.07E+01	0.00E+00	1.07E+01
		Cs-134	<4.04E+00	0.00E+00	4.04E+00
		Cs-137	<3.24E+00	0.00E+00	3.24E+00
		BaLa-140	<8.10E+00	0.00E+00	8.10E+00
		Be-7	<2.57E+01	0.00E+00	2.57E+01
		K-40	7.82E+01	3.45E+01	4.44E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 064 [CONTROL - SSW @ 6.67 miles]

Sample ID:	354210	Sample Dates:	5/27/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
				H3DW	<1.36E+02	0.00E+00	1.90E+02
Sample ID:	354591	Sample Dates:	8/18/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.05E+00	7.49E-01	1.22E+00
				Mn-54	<1.75E+00	0.00E+00	1.75E+00
				Co-58	<2.06E+00	0.00E+00	2.06E+00
				Fe-59	<4.45E+00	0.00E+00	4.45E+00
				Co-60	<1.60E+00	0.00E+00	1.60E+00
				Zn-65	<3.59E+00	0.00E+00	3.59E+00
				Zr-95	<3.92E+00	0.00E+00	3.92E+00
				Nb-95	<2.70E+00	0.00E+00	2.70E+00
				I-131	<1.19E+01	0.00E+00	1.19E+01
				Cs-134	<2.10E+00	0.00E+00	2.10E+00
				Cs-137	<1.66E+00	0.00E+00	1.66E+00
				BaLa-140	<5.52E+00	0.00E+00	5.52E+00
				Be-7	<1.79E+01	0.00E+00	1.79E+01
				K-40	2.11E+02	3.17E+01	3.13E+01
Sample ID:	356862	Sample Dates:	9/15/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	8.98E-01	7.53E-01	1.26E+00
				Mn-54	<2.61E+00	0.00E+00	2.61E+00
				Co-58	<2.72E+00	0.00E+00	2.72E+00
				Fe-59	<5.69E+00	0.00E+00	5.69E+00
				Co-60	<2.70E+00	0.00E+00	2.70E+00
				Zn-65	<4.81E+00	0.00E+00	4.81E+00
				Zr-95	<5.43E+00	0.00E+00	5.43E+00
				Nb-95	<3.48E+00	0.00E+00	3.48E+00
				I-131	<1.03E+01	0.00E+00	1.03E+01
				Cs-134	<2.94E+00	0.00E+00	2.94E+00
				Cs-137	<2.25E+00	0.00E+00	2.25E+00
				BaLa-140	<6.05E+00	0.00E+00	6.05E+00
				Be-7	<2.31E+01	0.00E+00	2.31E+01
				K-40	1.75E+02	3.75E+01	3.99E+01
Sample ID:	359753	Sample Dates:	10/13/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	1.74E+00	7.57E-01	1.18E+00
				Mn-54	<1.48E+00	0.00E+00	1.48E+00
				Co-58	<1.88E+00	0.00E+00	1.88E+00
				Fe-59	<4.23E+00	0.00E+00	4.23E+00
				Co-60	<1.41E+00	0.00E+00	1.41E+00
				Zn-65	<3.49E+00	0.00E+00	3.49E+00
				Zr-95	<3.59E+00	0.00E+00	3.59E+00
				Nb-95	<2.47E+00	0.00E+00	2.47E+00
				I-131	<1.08E+01	0.00E+00	1.08E+01
				Cs-134	<1.86E+00	0.00E+00	1.86E+00
				Cs-137	<1.50E+00	0.00E+00	1.50E+00
				BaLa-140	<5.64E+00	0.00E+00	5.64E+00
				Be-7	<1.57E+01	0.00E+00	1.57E+01
				K-40	1.75E+02	2.56E+01	2.29E+01
Sample ID:	362150	Sample Dates:	11/10/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Beta	<-9.1E-02	0.00E+00	1.33E+00
				Mn-54	<6.26E-01	0.00E+00	6.26E-01
				Co-58	<7.76E-01	0.00E+00	7.76E-01
				Fe-59	<1.65E+00	0.00E+00	1.65E+00
				Co-60	<6.18E-01	0.00E+00	6.18E-01
				Zn-65	<1.27E+00	0.00E+00	1.27E+00
				Zr-95	<1.57E+00	0.00E+00	1.57E+00
				Nb-95	<1.31E+00	0.00E+00	1.31E+00
				I-131	<1.17E+01	0.00E+00	1.17E+01
				Cs-134	<6.84E-01	0.00E+00	6.84E-01
				Cs-137	<6.54E-01	0.00E+00	6.54E-01
				BaLa-140	<3.65E+00	0.00E+00	3.65E+00
				Be-7	<7.41E+00	0.00E+00	7.41E+00
				K-40	4.50E+01	1.20E+01	1.77E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 064 [CONTROL - SSW @ 6.67 miles]

Sample ID: 364867	Sample Dates: 8/18/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		H3DW	<1.58E+02	0.00E+00	1.91E+02

Sample Point 066 [INDICATOR - SSE @ 18.9 miles]

Sample ID: 279019	Sample Dates: 12/9/2013 - 1/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	1.23E+00	3.83E-01	1.21E+00
		Mn-54	<3.58E+00	0.00E+00	3.58E+00
		Co-58	<3.56E+00	0.00E+00	3.56E+00
		Fe-59	<7.06E+00	0.00E+00	7.06E+00
		Co-60	<2.22E+00	0.00E+00	2.22E+00
		Zn-65	<7.77E+00	0.00E+00	7.77E+00
		Zr-95	<7.51E+00	0.00E+00	7.51E+00
		Nb-95	<5.05E+00	0.00E+00	5.05E+00
		I-131	<1.43E+01	0.00E+00	1.43E+01
		Cs-134	<3.27E+00	0.00E+00	3.27E+00
		Cs-137	<3.71E+00	0.00E+00	3.71E+00
		BaLa-140	<1.04E+01	0.00E+00	1.04E+01
		Be-7	<3.44E+01	0.00E+00	3.44E+01
		K-40	1.18E+02	1.98E+01	3.26E+01

Sample ID: 280865	Sample Dates: 1/6/2014 - 2/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	1.01E+00	3.70E-01	1.18E+00
		Mn-54	<3.00E+00	0.00E+00	3.00E+00
		Co-58	<3.78E+00	0.00E+00	3.78E+00
		Fe-59	<7.90E+00	0.00E+00	7.90E+00
		Co-60	<3.76E+00	0.00E+00	3.76E+00
		Zn-65	<7.14E+00	0.00E+00	7.14E+00
		Zr-95	<6.42E+00	0.00E+00	6.42E+00
		Nb-95	<3.75E+00	0.00E+00	3.75E+00
		I-131	<1.16E+01	0.00E+00	1.16E+01
		Cs-134	<3.10E+00	0.00E+00	3.10E+00
		Cs-137	<3.81E+00	0.00E+00	3.81E+00
		BaLa-140	<6.78E+00	0.00E+00	6.78E+00
		Be-7	<3.16E+01	0.00E+00	3.16E+01
		K-40	1.17E+02	1.92E+01	2.79E+01

Sample ID: 282980	Sample Dates: 2/3/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	9.37E-01	4.01E-01	1.29E+00
		Mn-54	<3.51E+00	0.00E+00	3.51E+00
		Co-58	<3.36E+00	0.00E+00	3.36E+00
		Fe-59	<6.86E+00	0.00E+00	6.86E+00
		Co-60	<2.63E+00	0.00E+00	2.63E+00
		Zn-65	<6.10E+00	0.00E+00	6.10E+00
		Zr-95	<5.32E+00	0.00E+00	5.32E+00
		Nb-95	<4.38E+00	0.00E+00	4.38E+00
		I-131	<1.39E+01	0.00E+00	1.39E+01
		Cs-134	<2.84E+00	0.00E+00	2.84E+00
		Cs-137	<3.25E+00	0.00E+00	3.25E+00
		BaLa-140	<8.06E+00	0.00E+00	8.06E+00
		Be-7	<3.04E+01	0.00E+00	3.04E+01
		K-40	1.78E+02	2.04E+01	2.69E+01

Sample ID: 284708	Sample Dates: 12/9/2013 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		H3DW	<1.73E+02	0.00E+00	1.89E+02

Sample ID: 285760	Sample Dates: 3/3/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	2.00E+00	3.69E-01	1.09E+00
		Mn-54	<3.43E+00	0.00E+00	3.43E+00
		Co-58	<3.90E+00	0.00E+00	3.90E+00
		Fe-59	<9.29E+00	0.00E+00	9.29E+00
		Co-60	<4.84E+00	0.00E+00	4.84E+00
		Zn-65	<8.99E+00	0.00E+00	8.99E+00
		Zr-95	<6.71E+00	0.00E+00	6.71E+00
		Nb-95	<5.73E+00	0.00E+00	5.73E+00
		I-131	<1.43E+01	0.00E+00	1.43E+01
		Cs-134	<3.42E+00	0.00E+00	3.42E+00
		Cs-137	<4.51E+00	0.00E+00	4.51E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 066 [INDICATOR - SSE @ 18.9 miles]

Sample ID: 285760	Sample Dates: 3/3/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
		BaLa-140	<1.23E+01	0.00E+00	1.23E+01
		Be-7	<3.31E+01	0.00E+00	3.31E+01
		K-40	7.84E+01	1.48E+01	3.84E+01
Sample ID: 289124	Sample Dates: 3/31/2014 - 4/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	2.34E+00	4.21E-01	1.28E+00
		Mn-54	<2.36E+00	0.00E+00	2.36E+00
		Co-58	<2.85E+00	0.00E+00	2.85E+00
		Fe-59	<5.24E+00	0.00E+00	5.24E+00
		Co-60	<3.25E+00	0.00E+00	3.25E+00
		Zn-65	<4.62E+00	0.00E+00	4.62E+00
		Zr-95	<5.14E+00	0.00E+00	5.14E+00
		Nb-95	<3.34E+00	0.00E+00	3.34E+00
		I-131	<1.01E+01	0.00E+00	1.01E+01
		Cs-134	<2.27E+00	0.00E+00	2.27E+00
		Cs-137	<2.70E+00	0.00E+00	2.70E+00
		BaLa-140	<7.46E+00	0.00E+00	7.46E+00
		Be-7	<2.65E+01	0.00E+00	2.65E+01
		K-40	4.84E+01	1.71E+01	2.75E+01
Sample ID: 292819	Sample Dates: 4/28/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	1.90E+00	4.32E-01	1.36E+00
		Mn-54	<2.43E+00	0.00E+00	2.43E+00
		Co-58	<2.74E+00	0.00E+00	2.74E+00
		Fe-59	<6.26E+00	0.00E+00	6.26E+00
		Co-60	<2.98E+00	0.00E+00	2.98E+00
		Zn-65	<4.89E+00	0.00E+00	4.89E+00
		Zr-95	<4.80E+00	0.00E+00	4.80E+00
		Nb-95	<3.48E+00	0.00E+00	3.48E+00
		I-131	<1.44E+01	0.00E+00	1.44E+01
		Cs-134	<2.43E+00	0.00E+00	2.43E+00
		Cs-137	<2.84E+00	0.00E+00	2.84E+00
		BaLa-140	<1.09E+01	0.00E+00	1.09E+01
		Be-7	<2.88E+01	0.00E+00	2.88E+01
		K-40	6.75E+01	1.50E+01	2.77E+01
Sample ID: 295226	Sample Dates: 3/3/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		H3DW	2.23E+02	6.09E+01	1.88E+02
Sample ID: 295482	Sample Dates: 5/27/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	1.64E+00	3.91E-01	1.21E+00
		Mn-54	<2.88E+00	0.00E+00	2.88E+00
		Co-58	<3.69E+00	0.00E+00	3.69E+00
		Fe-59	<6.82E+00	0.00E+00	6.82E+00
		Co-60	<2.99E+00	0.00E+00	2.99E+00
		Zn-65	<5.04E+00	0.00E+00	5.04E+00
		Zr-95	<5.06E+00	0.00E+00	5.06E+00
		Nb-95	<4.17E+00	0.00E+00	4.17E+00
		I-131	<1.29E+01	0.00E+00	1.29E+01
		Cs-134	<2.64E+00	0.00E+00	2.64E+00
		Cs-137	<3.34E+00	0.00E+00	3.34E+00
		BaLa-140	<6.79E+00	0.00E+00	6.79E+00
		Be-7	<3.36E+01	0.00E+00	3.36E+01
		K-40	1.55E+02	2.22E+01	2.72E+01
Sample ID: 296990	Sample Dates: 6/23/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	1.13E+00	8.38E-01	1.37E+00
		Mn-54	<1.22E+00	0.00E+00	1.22E+00
		Co-58	<1.63E+00	0.00E+00	1.63E+00
		Fe-59	<3.37E+00	0.00E+00	3.37E+00
		Co-60	<1.17E+00	0.00E+00	1.17E+00
		Zn-65	<2.60E+00	0.00E+00	2.60E+00
		Zr-95	<2.82E+00	0.00E+00	2.82E+00
		Nb-95	<2.02E+00	0.00E+00	2.02E+00
		I-131	<1.06E+01	0.00E+00	1.06E+01
		Cs-134	<1.15E+00	0.00E+00	1.15E+00
		Cs-137	<1.33E+00	0.00E+00	1.33E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 066 [INDICATOR - SSE @ 18.9 miles]

Sample ID: 296990	Sample Dates: 6/23/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
		BaLa-140	<5.21E+00	0.00E+00	5.21E+00
		Be-7	<1.40E+01	0.00E+00	1.40E+01
		K-40	1.58E+02	2.09E+01	1.65E+01
Sample ID: 353553	Sample Dates: 7/21/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	1.16E+00	7.38E-01	1.19E+00
		Mn-54	<2.90E+00	0.00E+00	2.90E+00
		Co-58	<2.74E+00	0.00E+00	2.74E+00
		Fe-59	<6.23E+00	0.00E+00	6.23E+00
		Co-60	<3.63E+00	0.00E+00	3.63E+00
		Zn-65	<6.56E+00	0.00E+00	6.56E+00
		Zr-95	<5.07E+00	0.00E+00	5.07E+00
		Nb-95	<3.41E+00	0.00E+00	3.41E+00
		I-131	<1.05E+01	0.00E+00	1.05E+01
		Cs-134	<3.55E+00	0.00E+00	3.55E+00
		Cs-137	<3.06E+00	0.00E+00	3.06E+00
		BaLa-140	<8.27E+00	0.00E+00	8.27E+00
		Be-7	<2.79E+01	0.00E+00	2.79E+01
		K-40	8.41E+01	3.14E+01	3.96E+01
Sample ID: 354211	Sample Dates: 5/27/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
		H3DW	<1.67E+02	0.00E+00	1.90E+02
Sample ID: 354592	Sample Dates: 8/18/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	1.81E+00	7.88E-01	1.23E+00
		Mn-54	<2.70E+00	0.00E+00	2.70E+00
		Co-58	<3.01E+00	0.00E+00	3.01E+00
		Fe-59	<6.79E+00	0.00E+00	6.79E+00
		Co-60	<2.78E+00	0.00E+00	2.78E+00
		Zn-65	<6.43E+00	0.00E+00	6.43E+00
		Zr-95	<4.38E+00	0.00E+00	4.38E+00
		Nb-95	<3.68E+00	0.00E+00	3.68E+00
		I-131	<1.02E+01	0.00E+00	1.02E+01
		Cs-134	<3.30E+00	0.00E+00	3.30E+00
		Cs-137	<3.38E+00	0.00E+00	3.38E+00
		BaLa-140	<7.71E+00	0.00E+00	7.71E+00
		Be-7	<2.92E+01	0.00E+00	2.92E+01
		K-40	5.96E+01	2.85E+01	3.91E+01
Sample ID: 356863	Sample Dates: 9/15/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	1.30E+00	7.73E-01	1.27E+00
		Mn-54	<3.06E+00	0.00E+00	3.06E+00
		Co-58	<3.59E+00	0.00E+00	3.59E+00
		Fe-59	<6.91E+00	0.00E+00	6.91E+00
		Co-60	<2.41E+00	0.00E+00	2.41E+00
		Zn-65	<5.35E+00	0.00E+00	5.35E+00
		Zr-95	<5.84E+00	0.00E+00	5.84E+00
		Nb-95	<4.21E+00	0.00E+00	4.21E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<3.63E+00	0.00E+00	3.63E+00
		Cs-137	<2.71E+00	0.00E+00	2.71E+00
		BaLa-140	<7.93E+00	0.00E+00	7.93E+00
		Be-7	<2.77E+01	0.00E+00	2.77E+01
		K-40	2.02E+02	3.95E+01	2.83E+01
Sample ID: 359754	Sample Dates: 10/13/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	1.34E+00	7.44E-01	1.18E+00
		Mn-54	<1.90E+00	0.00E+00	1.90E+00
		Co-58	<2.14E+00	0.00E+00	2.14E+00
		Fe-59	<4.84E+00	0.00E+00	4.84E+00
		Co-60	<2.03E+00	0.00E+00	2.03E+00
		Zn-65	<3.46E+00	0.00E+00	3.46E+00
		Zr-95	<3.94E+00	0.00E+00	3.94E+00
		Nb-95	<2.67E+00	0.00E+00	2.67E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<1.72E+00	0.00E+00	1.72E+00
		Cs-137	<1.84E+00	0.00E+00	1.84E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 066 [INDICATOR - SSE @ 18.9 miles]

Sample ID: 359754	Sample Dates: 10/13/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
		BaLa-140	<5.56E+00	0.00E+00	5.56E+00
		Be-7	<1.80E+01	0.00E+00	1.80E+01
		K-40	4.28E+01	1.84E+01	2.45E+01
Sample ID: 362151	Sample Dates: 11/10/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Beta	8.16E-01	7.94E-01	1.34E+00
		Mn-54	<5.34E-01	0.00E+00	5.34E-01
		Co-58	<6.99E-01	0.00E+00	6.99E-01
		Fe-59	<1.47E+00	0.00E+00	1.47E+00
		Co-60	<4.83E-01	0.00E+00	4.83E-01
		Zn-65	<1.14E+00	0.00E+00	1.14E+00
		Zr-95	<1.33E+00	0.00E+00	1.33E+00
		Nb-95	<1.05E+00	0.00E+00	1.05E+00
		I-131	<1.20E+01	0.00E+00	1.20E+01
		Cs-134	<6.21E-01	0.00E+00	6.21E-01
		Cs-137	<5.85E-01	0.00E+00	5.85E-01
		BaLa-140	<3.54E+00	0.00E+00	3.54E+00
		Be-7	<6.20E+00	0.00E+00	6.20E+00
		K-40	4.33E+01	7.19E+00	8.42E+00
Sample ID: 364868	Sample Dates: 8/18/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		H3DW	3.61E+02	1.22E+02	1.90E+02

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 060 [INDICATOR - NE @ 3.23 miles]

Sample ID: 287056	Sample Dates: 4/14/2014 - 4/14/2014	FREESWIM	Nuclide	Activity	Sigma Error ¹	LLD
			Mn-54	<7.94E+00	0.00E+00	7.94E+00
			Co-58	<9.56E+00	0.00E+00	9.56E+00
			Fe-59	<2.56E+01	0.00E+00	2.56E+01
			Co-60	<1.06E+01	0.00E+00	1.06E+01
			Zn-65	<2.18E+01	0.00E+00	2.18E+01
			Nb-95	<1.04E+01	0.00E+00	1.04E+01
			I-131	<2.72E+01	0.00E+00	2.72E+01
			Cs-134	<7.00E+00	0.00E+00	7.00E+00
			Cs-137	1.02E+01	5.68E+00	8.21E+00
			Be-7	<7.32E+01	0.00E+00	7.32E+01
			K-40	3.73E+03	1.39E+02	7.81E+01
			Ag-110M	<8.44E+00	0.00E+00	8.44E+00
			Sb-122	<5.38E+02	0.00E+00	5.38E+02
			Sb-125	<1.80E+01	0.00E+00	1.80E+01
Sample ID: 287053	Sample Dates: 4/16/2014 - 4/16/2014	BOTMFEEDER	Nuclide	Activity	Sigma Error ¹	LLD
			Mn-54	<1.42E+01	0.00E+00	1.42E+01
			Co-58	<1.56E+01	0.00E+00	1.56E+01
			Fe-59	<3.87E+01	0.00E+00	3.87E+01
			Co-60	<2.42E+01	0.00E+00	2.42E+01
			Zn-65	<3.89E+01	0.00E+00	3.89E+01
			Nb-95	<2.04E+01	0.00E+00	2.04E+01
			I-131	<1.95E+01	0.00E+00	1.95E+01
			Cs-134	<1.72E+01	0.00E+00	1.72E+01
			Cs-137	<2.16E+01	0.00E+00	2.16E+01
			Be-7	<9.56E+01	0.00E+00	9.56E+01
			K-40	3.40E+03	2.44E+02	2.05E+02
			Ag-110M	<1.88E+01	0.00E+00	1.88E+01
			Sb-122	<8.02E+01	0.00E+00	8.02E+01
			Sb-125	<4.46E+01	0.00E+00	4.46E+01
Sample ID: 359064	Sample Dates: 10/13/2014 - 10/13/2014	FREESWIM	Nuclide	Activity	Sigma Error ¹	LLD
			Mn-54	<6.65E+00	0.00E+00	6.65E+00
			Co-58	<6.70E+00	0.00E+00	6.70E+00
			Fe-59	<1.81E+01	0.00E+00	1.81E+01
			Co-60	<1.16E+01	0.00E+00	1.16E+01
			Zn-65	<1.99E+01	0.00E+00	1.99E+01
			Nb-95	<9.61E+00	0.00E+00	9.61E+00
			I-131	<1.46E+01	0.00E+00	1.46E+01
			Cs-134	<8.66E+00	0.00E+00	8.66E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 060 [INDICATOR - NE @ 3.23 miles]

Sample ID:	359064	Sample Dates:	10/13/2014 - 10/13/2014	FREESWIM	Nuclide	Activity	Sigma Error ¹	LLD
					Cs-137	7.44E+00	6.35E+00	1.00E+01
					Be-7	<6.63E+01	0.00E+00	6.63E+01
					K-40	3.24E+03	3.58E+02	1.08E+02
					Ag-110M	<6.93E+00	0.00E+00	6.93E+00
					Sb-122	<7.24E+01	0.00E+00	7.24E+01
					Sb-125	<1.95E+01	0.00E+00	1.95E+01

Sample ID:	359065	Sample Dates:	10/13/2014 - 10/13/2014	BOTMFEEDER	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<1.72E+01	0.00E+00	1.72E+01
					Co-58	<1.43E+01	0.00E+00	1.43E+01
					Fe-59	<3.49E+01	0.00E+00	3.49E+01
					Co-60	<2.18E+01	0.00E+00	2.18E+01
					Zn-65	<3.27E+01	0.00E+00	3.27E+01
					Nb-95	<1.70E+01	0.00E+00	1.70E+01
					I-131	<2.03E+01	0.00E+00	2.03E+01
					Cs-134	<2.03E+01	0.00E+00	2.03E+01
					Cs-137	<1.77E+01	0.00E+00	1.77E+01
					Be-7	<1.06E+02	0.00E+00	1.06E+02
					K-40	2.76E+03	4.90E+02	2.58E+02
					Ag-110M	<1.42E+01	0.00E+00	1.42E+01
					Sb-122	<4.11E+01	0.00E+00	4.11E+01
					Sb-125	<4.16E+01	0.00E+00	4.16E+01

Sample Point 063 [INDICATOR - ESE @ 0.8 miles]

Sample ID:	287054	Sample Dates:	4/14/2014 - 4/14/2014	BOTMFEEDER	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<1.41E+01	0.00E+00	1.41E+01
					Co-58	<1.46E+01	0.00E+00	1.46E+01
					Fe-59	<3.07E+01	0.00E+00	3.07E+01
					Co-60	<1.68E+01	0.00E+00	1.68E+01
					Zn-65	<2.87E+01	0.00E+00	2.87E+01
					Nb-95	<1.41E+01	0.00E+00	1.41E+01
					I-131	<2.10E+01	0.00E+00	2.10E+01
					Cs-134	<1.20E+01	0.00E+00	1.20E+01
					Cs-137	1.77E+01	5.68E+00	1.31E+01
					Be-7	<1.09E+02	0.00E+00	1.09E+02
					K-40	3.64E+03	1.55E+02	1.21E+02
					Ag-110M	<1.08E+01	0.00E+00	1.08E+01
					Sb-122	<1.33E+02	0.00E+00	1.33E+02
					Sb-125	<2.87E+01	0.00E+00	2.87E+01

Sample ID:	287057	Sample Dates:	4/14/2014 - 4/14/2014	FREESWIM	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<1.23E+01	0.00E+00	1.23E+01
					Co-58	<1.23E+01	0.00E+00	1.23E+01
					Fe-59	<2.71E+01	0.00E+00	2.71E+01
					Co-60	<1.59E+01	0.00E+00	1.59E+01
					Zn-65	<3.51E+01	0.00E+00	3.51E+01
					Nb-95	<1.39E+01	0.00E+00	1.39E+01
					I-131	<2.09E+01	0.00E+00	2.09E+01
					Cs-134	<1.11E+01	0.00E+00	1.11E+01
					Cs-137	<1.75E+01	0.00E+00	1.75E+01
					Be-7	<9.73E+01	0.00E+00	9.73E+01
					K-40	3.77E+03	1.73E+02	9.72E+01
					Ag-110M	<1.16E+01	0.00E+00	1.16E+01
					Sb-122	<1.27E+02	0.00E+00	1.27E+02
					Sb-125	<2.77E+01	0.00E+00	2.77E+01

Sample ID:	359066	Sample Dates:	10/15/2014 - 10/15/2014	FREESWIM	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<4.88E+00	0.00E+00	4.88E+00
					Co-58	<5.81E+00	0.00E+00	5.81E+00
					Fe-59	<1.35E+01	0.00E+00	1.35E+01
					Co-60	<5.57E+00	0.00E+00	5.57E+00
					Zn-65	<1.43E+01	0.00E+00	1.43E+01
					Nb-95	<7.13E+00	0.00E+00	7.13E+00
					I-131	<1.17E+01	0.00E+00	1.17E+01
					Cs-134	<6.57E+00	0.00E+00	6.57E+00
					Cs-137	1.02E+01	4.75E+00	6.88E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 063 [INDICATOR - ESE @ 0.8 miles]

Sample ID:	359066	Sample Dates:	10/15/2014 - 10/15/2014	FREESWIM	Nuclide	Activity	Sigma Error ¹	LLD
					Be-7	<4.14E+01	0.00E+00	4.14E+01
					K-40	3.11E+03	3.14E+02	6.77E+01
					Ag-110M	<4.74E+00	0.00E+00	4.74E+00
					Sb-122	<1.11E+02	0.00E+00	1.11E+02
					Sb-125	<1.25E+01	0.00E+00	1.25E+01

Sample ID:	359070	Sample Dates:	10/15/2014 - 10/22/2014	BOTMFEEDER	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<7.29E+00	0.00E+00	7.29E+00
					Co-58	<3.85E+01	0.00E+00	3.85E+01
					Fe-59	<6.83E+01	0.00E+00	6.83E+01
					Co-60	<4.70E+01	0.00E+00	4.70E+01
					Zn-65	<5.04E+01	0.00E+00	5.04E+01
					Nb-95	<3.26E+01	0.00E+00	3.26E+01
					I-131	<3.29E+01	0.00E+00	3.29E+01
					Cs-134	<4.78E+01	0.00E+00	4.78E+01
					Cs-137	<4.51E+01	0.00E+00	4.51E+01
					Be-7	<2.44E+02	0.00E+00	2.44E+02
					K-40	3.49E+03	8.45E+02	5.66E+02
					Ag-110M	<3.68E+01	0.00E+00	3.68E+01
					Sb-122	<9.12E+01	0.00E+00	9.12E+01
					Sb-125	<7.49E+01	0.00E+00	7.49E+01

Sample Point 067 [INDICATOR - SSE @ 4.34 miles]

Sample ID:	287055	Sample Dates:	4/14/2014 - 4/14/2014	BOTMFEEDER	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<2.52E+01	0.00E+00	2.52E+01
					Co-58	<2.13E+01	0.00E+00	2.13E+01
					Fe-59	<4.94E+01	0.00E+00	4.94E+01
					Co-60	<2.34E+01	0.00E+00	2.34E+01
					Zn-65	<4.26E+01	0.00E+00	4.26E+01
					Nb-95	<2.67E+01	0.00E+00	2.67E+01
					I-131	<3.29E+01	0.00E+00	3.29E+01
					Cs-134	<1.67E+01	0.00E+00	1.67E+01
					Cs-137	<2.32E+01	0.00E+00	2.32E+01
					Be-7	<1.49E+02	0.00E+00	1.49E+02
					K-40	3.50E+03	2.52E+02	1.87E+02
					Ag-110M	<1.86E+01	0.00E+00	1.86E+01
					Sb-122	<1.92E+02	0.00E+00	1.92E+02
					Sb-125	<4.80E+01	0.00E+00	4.80E+01

Sample ID:	287058	Sample Dates:	4/14/2014 - 4/14/2014	FREESWIM	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<1.18E+01	0.00E+00	1.18E+01
					Co-58	<1.28E+01	0.00E+00	1.28E+01
					Fe-59	<3.37E+01	0.00E+00	3.37E+01
					Co-60	<1.68E+01	0.00E+00	1.68E+01
					Zn-65	<3.56E+01	0.00E+00	3.56E+01
					Nb-95	<1.60E+01	0.00E+00	1.60E+01
					I-131	<1.72E+01	0.00E+00	1.72E+01
					Cs-134	<1.29E+01	0.00E+00	1.29E+01
					Cs-137	<1.83E+01	0.00E+00	1.83E+01
					Be-7	<1.08E+02	0.00E+00	1.08E+02
					K-40	3.91E+03	2.04E+02	1.36E+02
					Ag-110M	<1.33E+01	0.00E+00	1.33E+01
					Sb-122	<6.60E+01	0.00E+00	6.60E+01
					Sb-125	<2.87E+01	0.00E+00	2.87E+01

Sample ID:	359068	Sample Dates:	10/13/2014 - 10/13/2014	FREESWIM	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<1.32E+01	0.00E+00	1.32E+01
					Co-58	<1.47E+01	0.00E+00	1.47E+01
					Fe-59	<3.17E+01	0.00E+00	3.17E+01
					Co-60	<1.76E+01	0.00E+00	1.76E+01
					Zn-65	<3.49E+01	0.00E+00	3.49E+01
					Nb-95	<1.30E+01	0.00E+00	1.30E+01
					I-131	<1.55E+01	0.00E+00	1.55E+01
					Cs-134	<1.48E+01	0.00E+00	1.48E+01
					Cs-137	<1.92E+01	0.00E+00	1.92E+01
					Be-7	<8.02E+01	0.00E+00	8.02E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 067 [INDICATOR - SSE @ 4.34 miles]

Sample ID:	359068	Sample Dates:	10/13/2014 - 10/13/2014	FREESWIM	Nuclide	Activity	Sigma Error ¹	LLD
					K-40	2.95E+03	4.68E+02	2.18E+02
					Ag-110M	<1.08E+01	0.00E+00	1.08E+01
					Sb-122	<2.79E+01	0.00E+00	2.79E+01
					Sb-125	<3.47E+01	0.00E+00	3.47E+01

Sample ID:	359069	Sample Dates:	10/13/2014 - 10/13/2014	BOTMFEEDER	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<1.52E+01	0.00E+00	1.52E+01
					Co-58	<1.52E+01	0.00E+00	1.52E+01
					Fe-59	<3.50E+01	0.00E+00	3.50E+01
					Co-60	<2.46E+01	0.00E+00	2.46E+01
					Zn-65	<5.04E+01	0.00E+00	5.04E+01
					Nb-95	<1.66E+01	0.00E+00	1.66E+01
					I-131	<2.33E+01	0.00E+00	2.33E+01
					Cs-134	<2.23E+01	0.00E+00	2.23E+01
					Cs-137	<2.90E+01	0.00E+00	2.90E+01
					Be-7	<1.79E+02	0.00E+00	1.79E+02
					K-40	1.94E+03	4.31E+02	5.58E+01
					Ag-110M	<2.03E+01	0.00E+00	2.03E+01
					Sb-122	<4.64E+01	0.00E+00	4.64E+01
					Sb-125	<5.05E+01	0.00E+00	5.05E+01

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 071 [CONTROL - SSE @ 10.2 miles]

Sample ID:	280686	Sample Dates:	1/13/2014 - 1/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Be-7	<3.69E+00	0.00E+00	3.69E+00
				K-40	1.31E+01	2.73E+00	4.91E+00
				LLI-131	<4.90E-01	0.00E+00	4.90E-01
				I-131	<7.91E+00	0.00E+00	7.91E+00
				Cs-134	<8.36E+00	0.00E+00	8.36E+00
				Cs-137	<9.54E+00	0.00E+00	9.54E+00
				BaLa-140	<1.42E+01	0.00E+00	1.42E+01
				Be-7	<7.04E+01	0.00E+00	7.04E+01
				K-40	1.55E+03	1.19E+02	9.86E+01

Sample ID:	281231	Sample Dates:	1/27/2014 - 1/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Be-7	<3.09E+00	0.00E+00	3.09E+00
				K-40	9.14E+00	2.75E+00	3.80E+00
				LLI-131	<5.84E-01	0.00E+00	5.84E-01
				I-131	<9.31E+00	0.00E+00	9.31E+00
				Cs-134	<5.92E+00	0.00E+00	5.92E+00
				Cs-137	<7.73E+00	0.00E+00	7.73E+00
				BaLa-140	<1.07E+01	0.00E+00	1.07E+01
				Be-7	<6.54E+01	0.00E+00	6.54E+01
				K-40	1.41E+03	1.16E+02	9.44E+01

Sample ID:	283421	Sample Dates:	2/10/2014 - 2/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Be-7	<4.63E+00	0.00E+00	4.63E+00
				K-40	1.56E+01	4.03E+00	8.23E+00
				LLI-131	<6.04E-01	0.00E+00	6.04E-01
				I-131	<7.35E+00	0.00E+00	7.35E+00
				Cs-134	<8.61E+00	0.00E+00	8.61E+00
				Cs-137	<1.00E+01	0.00E+00	1.00E+01
				BaLa-140	<8.28E+00	0.00E+00	8.28E+00
				Be-7	<6.60E+01	0.00E+00	6.60E+01
				K-40	1.44E+03	1.24E+02	1.10E+02

Sample ID:	282162	Sample Dates:	2/24/2014 - 2/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Be-7	<5.16E+00	0.00E+00	5.16E+00
				K-40	1.60E+01	3.73E+00	7.09E+00
				LLI-131	<6.42E-01	0.00E+00	6.42E-01
				I-131	<6.50E+00	0.00E+00	6.50E+00
				Cs-134	<5.56E+00	0.00E+00	5.56E+00
				Cs-137	<5.99E+00	0.00E+00	5.99E+00
				BaLa-140	<6.23E+00	0.00E+00	6.23E+00
				Be-7	<4.67E+01	0.00E+00	4.67E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 071 [CONTROL - SSE @ 10.2 miles]

Sample ID:	282162	Sample Dates:	2/24/2014 - 2/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				K-40	1.55E+03	8.27E+01	4.85E+01
Sample ID:	285153	Sample Dates:	3/10/2014 - 3/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Be-7	1.74E+00	1.20E+00	3.19E+00
				K-40	4.63E+01	4.31E+00	4.53E+00
				LLI-131	<6.37E-01	0.00E+00	6.37E-01
				I-131	<8.75E+00	0.00E+00	8.75E+00
				Cs-134	<5.71E+00	0.00E+00	5.71E+00
				Cs-137	<8.65E+00	0.00E+00	8.65E+00
				BaLa-140	<9.66E+00	0.00E+00	9.66E+00
				Be-7	4.28E+01	2.06E+01	5.04E+01
				K-40	1.54E+03	1.12E+02	8.79E+01
Sample ID:	286262	Sample Dates:	3/24/2014 - 3/24/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Be-7	<3.21E+00	0.00E+00	3.21E+00
				K-40	9.36E+00	2.71E+00	4.37E+00
				LLI-131	<6.37E-01	0.00E+00	6.37E-01
				I-131	<6.01E+00	0.00E+00	6.01E+00
				Cs-134	<6.03E+00	0.00E+00	6.03E+00
				Cs-137	<7.35E+00	0.00E+00	7.35E+00
				BaLa-140	<5.64E+00	0.00E+00	5.64E+00
				Be-7	<5.13E+01	0.00E+00	5.13E+01
				K-40	1.51E+03	8.15E+01	3.73E+01
Sample ID:	288398	Sample Dates:	4/7/2014 - 4/7/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Be-7	<4.00E+00	0.00E+00	4.00E+00
				K-40	1.25E+01	3.18E+00	3.32E+00
				LLI-131	<6.04E-01	0.00E+00	6.04E-01
				I-131	<8.11E+00	0.00E+00	8.11E+00
				Cs-134	<7.16E+00	0.00E+00	7.16E+00
				Cs-137	<8.35E+00	0.00E+00	8.35E+00
				BaLa-140	<1.27E+01	0.00E+00	1.27E+01
				Be-7	<6.58E+01	0.00E+00	6.58E+01
				K-40	1.43E+03	1.20E+02	9.65E+01
Sample ID:	289505	Sample Dates:	4/21/2014 - 4/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Be-7	<2.56E+00	0.00E+00	2.56E+00
				K-40	2.21E+01	3.09E+00	3.75E+00
				LLI-131	<5.14E-01	0.00E+00	5.14E-01
				I-131	<8.59E+00	0.00E+00	8.59E+00
				Cs-134	<6.84E+00	0.00E+00	6.84E+00
				Cs-137	<1.04E+01	0.00E+00	1.04E+01
				BaLa-140	<1.00E+01	0.00E+00	1.00E+01
				Be-7	<6.45E+01	0.00E+00	6.45E+01
				K-40	1.41E+03	1.06E+02	2.18E+01
Sample ID:	291520	Sample Dates:	5/5/2014 - 5/5/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Be-7	<3.68E+00	0.00E+00	3.68E+00
				K-40	1.57E+01	3.22E+00	5.18E+00
				LLI-131	<6.08E-01	0.00E+00	6.08E-01
				I-131	<9.00E+00	0.00E+00	9.00E+00
				Cs-134	<6.67E+00	0.00E+00	6.67E+00
				Cs-137	<9.70E+00	0.00E+00	9.70E+00
				BaLa-140	<1.05E+01	0.00E+00	1.05E+01
				Be-7	<6.58E+01	0.00E+00	6.58E+01
				K-40	1.55E+03	1.22E+02	9.99E+01
Sample ID:	293076	Sample Dates:	5/19/2014 - 5/19/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Be-7	<3.41E+00	0.00E+00	3.41E+00
				K-40	2.10E+01	4.55E+00	6.75E+00
				LLI-131	<5.86E-01	0.00E+00	5.86E-01
				I-131	<8.92E+00	0.00E+00	8.92E+00
				Cs-134	<9.04E+00	0.00E+00	9.04E+00
				Cs-137	<1.12E+01	0.00E+00	1.12E+01
				BaLa-140	<1.05E+01	0.00E+00	1.05E+01
				Be-7	<8.59E+01	0.00E+00	8.59E+01
				K-40	1.50E+03	1.15E+02	9.10E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 071 [CONTROL - SSE @ 10.2 miles]

Sample ID: 295230	Sample Dates: 6/2/2014 - 6/2/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Be-7	<3.50E+00	0.00E+00	3.50E+00
		K-40	1.31E+01	2.61E+00	4.55E+00
		LLI-131	<6.06E-01	0.00E+00	6.06E-01
		I-131	<7.83E+00	0.00E+00	7.83E+00
		Cs-134	<6.19E+00	0.00E+00	6.19E+00
		Cs-137	<7.81E+00	0.00E+00	7.81E+00
		BaLa-140	<5.94E+00	0.00E+00	5.94E+00
		Be-7	<5.05E+01	0.00E+00	5.05E+01
		K-40	1.60E+03	9.00E+01	8.43E+01
Sample ID: 295992	Sample Dates: 6/16/2014 - 6/16/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Be-7	<4.06E+00	0.00E+00	4.06E+00
		K-40	1.12E+01	3.16E+00	6.86E+00
		LLI-131	<5.85E-01	0.00E+00	5.85E-01
		I-131	<6.94E+00	0.00E+00	6.94E+00
		Cs-134	<9.17E+00	0.00E+00	9.17E+00
		Cs-137	<1.05E+01	0.00E+00	1.05E+01
		BaLa-140	<1.22E+01	0.00E+00	1.22E+01
		Be-7	<6.27E+01	0.00E+00	6.27E+01
		K-40	1.45E+03	1.18E+02	9.55E+01
Sample ID: 296758	Sample Dates: 6/30/2014 - 6/30/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Be-7	<3.44E+00	0.00E+00	3.44E+00
		K-40	1.10E+01	3.05E+00	4.52E+00
		LLI-131	<6.41E-01	0.00E+00	6.41E-01
		I-131	<9.07E+00	0.00E+00	9.07E+00
		Cs-134	<9.76E+00	0.00E+00	9.76E+00
		Cs-137	<1.08E+01	0.00E+00	1.08E+01
		BaLa-140	<3.05E+00	0.00E+00	3.05E+00
		Be-7	<6.16E+01	0.00E+00	6.16E+01
		K-40	1.39E+03	1.15E+02	1.03E+02
Sample ID: 297385	Sample Dates: 7/14/2014 - 7/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
		LLI-131	<6.13E-01	0.00E+00	6.13E-01
		I-131	<3.18E+01	0.00E+00	3.18E+01
		Cs-134	<1.12E+01	0.00E+00	1.12E+01
		Cs-137	<1.37E+01	0.00E+00	1.37E+01
		BaLa-140	<1.00E+01	0.00E+00	1.00E+01
		Be-7	<1.18E+02	0.00E+00	1.18E+02
		K-40	1.56E+03	3.64E+02	5.04E+01
Sample ID: 350680	Sample Dates: 7/28/2014 - 7/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
		LLI-131	<6.50E-01	0.00E+00	6.50E-01
		I-131	<5.82E+00	0.00E+00	5.82E+00
		Cs-134	<6.16E+00	0.00E+00	6.16E+00
		Cs-137	<6.54E+00	0.00E+00	6.54E+00
		BaLa-140	<1.10E+01	0.00E+00	1.10E+01
		Be-7	<4.52E+01	0.00E+00	4.52E+01
		K-40	1.40E+03	2.22E+02	1.26E+02
Sample ID: 351626	Sample Dates: 8/11/2014 - 8/11/2014	Nuclide	Activity	Sigma Error ¹	LLD
		LLI-131	<6.26E-01	0.00E+00	6.26E-01
		I-131	<9.39E+00	0.00E+00	9.39E+00
		Cs-134	<7.92E+00	0.00E+00	7.92E+00
		Cs-137	<1.26E+01	0.00E+00	1.26E+01
		BaLa-140	<1.19E+01	0.00E+00	1.19E+01
		Be-7	<8.99E+01	0.00E+00	8.99E+01
		K-40	1.52E+03	2.57E+02	2.25E+01
Sample ID: 354079	Sample Dates: 8/25/2014 - 8/25/2014	Nuclide	Activity	Sigma Error ¹	LLD
		LLI-131	<6.45E-01	0.00E+00	6.45E-01
		I-131	<9.84E+00	0.00E+00	9.84E+00
		Cs-134	<9.54E+00	0.00E+00	9.54E+00
		Cs-137	<1.04E+01	0.00E+00	1.04E+01
		BaLa-140	<8.09E+00	0.00E+00	8.09E+00
		Be-7	<5.93E+01	0.00E+00	5.93E+01
		K-40	1.02E+03	2.06E+02	1.17E+02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 071 [CONTROL - SSE @ 10.2 miles]

Sample ID: 354772	Sample Dates: 9/8/2014 - 9/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		LLI-131	<6.43E-01	0.00E+00	6.43E-01
		I-131	<9.81E+00	0.00E+00	9.81E+00
		Cs-134	<1.07E+01	0.00E+00	1.07E+01
		Cs-137	<8.92E+00	0.00E+00	8.92E+00
		BaLa-140	<8.08E+00	0.00E+00	8.08E+00
		Be-7	<6.58E+01	0.00E+00	6.58E+01
		K-40	1.74E+03	2.83E+02	1.05E+02
Sample ID: 355650	Sample Dates: 9/22/2014 - 9/22/2014	Nuclide	Activity	Sigma Error ¹	LLD
		LLI-131	<5.75E-01	0.00E+00	5.75E-01
		I-131	<7.63E+00	0.00E+00	7.63E+00
		Cs-134	<8.97E+00	0.00E+00	8.97E+00
		Cs-137	<9.62E+00	0.00E+00	9.62E+00
		BaLa-140	<7.79E+00	0.00E+00	7.79E+00
		Be-7	<7.36E+01	0.00E+00	7.36E+01
		K-40	1.45E+03	2.49E+02	2.25E+01
Sample ID: 357063	Sample Dates: 10/6/2014 - 10/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
		LLI-131	<6.49E-01	0.00E+00	6.49E-01
		I-131	<1.04E+01	0.00E+00	1.04E+01
		Cs-134	<1.02E+01	0.00E+00	1.02E+01
		Cs-137	<1.08E+01	0.00E+00	1.08E+01
		BaLa-140	<3.02E+00	0.00E+00	3.02E+00
		Be-7	<5.95E+01	0.00E+00	5.95E+01
		K-40	1.47E+03	2.55E+02	9.68E+01
Sample ID: 358666	Sample Dates: 10/20/2014 - 10/20/2014	Nuclide	Activity	Sigma Error ¹	LLD
		LLI-131	<5.43E-01	0.00E+00	5.43E-01
		I-131	<7.17E+00	0.00E+00	7.17E+00
		Cs-134	<9.25E+00	0.00E+00	9.25E+00
		Cs-137	<8.17E+00	0.00E+00	8.17E+00
		BaLa-140	<2.42E+00	0.00E+00	2.42E+00
		Be-7	<5.49E+01	0.00E+00	5.49E+01
		K-40	1.47E+03	2.42E+02	1.31E+02
Sample ID: 360044	Sample Dates: 11/3/2014 - 11/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		LLI-131	<6.29E-01	0.00E+00	6.29E-01
		I-131	<8.16E+00	0.00E+00	8.16E+00
		Cs-134	<8.33E+00	0.00E+00	8.33E+00
		Cs-137	<8.54E+00	0.00E+00	8.54E+00
		BaLa-140	<7.93E+00	0.00E+00	7.93E+00
		Be-7	<5.68E+01	0.00E+00	5.68E+01
		K-40	1.56E+03	2.42E+02	1.83E+01
Sample ID: 361584	Sample Dates: 11/17/2014 - 11/17/2014	Nuclide	Activity	Sigma Error ¹	LLD
		LLI-131	<5.88E-01	0.00E+00	5.88E-01
		I-131	<7.14E+00	0.00E+00	7.14E+00
		Cs-134	<1.17E+01	0.00E+00	1.17E+01
		Cs-137	<1.04E+01	0.00E+00	1.04E+01
		BaLa-140	<8.22E+00	0.00E+00	8.22E+00
		Be-7	<7.25E+01	0.00E+00	7.25E+01
		K-40	1.49E+03	2.70E+02	1.60E+02
Sample ID: 362797	Sample Dates: 12/1/2014 - 12/1/2014	Nuclide	Activity	Sigma Error ¹	LLD
		LLI-131	<6.16E-01	0.00E+00	6.16E-01
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<9.54E+00	0.00E+00	9.54E+00
		Cs-137	<1.12E+01	0.00E+00	1.12E+01
		BaLa-140	<3.02E+00	0.00E+00	3.02E+00
		Be-7	<8.22E+01	0.00E+00	8.22E+01
		K-40	1.68E+03	2.81E+02	1.33E+02
Sample ID: 363980	Sample Dates: 12/15/2014 - 12/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		LLI-131	<5.99E-01	0.00E+00	5.99E-01
		I-131	<8.85E+00	0.00E+00	8.85E+00
		Cs-134	<1.16E+01	0.00E+00	1.16E+01
		Cs-137	<7.63E+00	0.00E+00	7.63E+00
		BaLa-140	<1.11E+01	0.00E+00	1.11E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 071 [CONTROL - SSE @ 10.2 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
363980	12/15/2014 - 12/15/2014	Be-7	<7.62E+01	0.00E+00	7.62E+01
		K-40	1.69E+03	2.96E+02	1.53E+02
Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
364944	12/29/2014 - 12/29/2014	LLI-131	<5.94E-01	0.00E+00	5.94E-01
		I-131	<1.04E+01	0.00E+00	1.04E+01
		Cs-134	<1.13E+01	0.00E+00	1.13E+01
		Cs-137	<1.07E+01	0.00E+00	1.07E+01
		BaLa-140	<1.20E+01	0.00E+00	1.20E+01
		Be-7	<6.28E+01	0.00E+00	6.28E+01
		K-40	1.32E+03	2.61E+02	1.92E+02

Media Type: SEDIMENT_SHORE Concentration (Activity): pCi/kg

Sample Point 063 [INDICATOR - ESE @ 0.8 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
287065	4/14/2014 - 4/14/2014	Mn-54	<2.34E+01	0.00E+00	2.34E+01
		Co-58	<1.99E+01	0.00E+00	1.99E+01
		Fe-59	<5.20E+01	0.00E+00	5.20E+01
		Co-60	<2.29E+01	0.00E+00	2.29E+01
		Zn-65	<5.19E+01	0.00E+00	5.19E+01
		Zr-95	<3.57E+01	0.00E+00	3.57E+01
		Nb-95	<2.24E+01	0.00E+00	2.24E+01
		I-131	<3.20E+01	0.00E+00	3.20E+01
		Cs-134	<1.72E+01	0.00E+00	1.72E+01
		Cs-137	<2.29E+01	0.00E+00	2.29E+01
		Be-7	<1.56E+02	0.00E+00	1.56E+02
		K-40	2.46E+04	4.47E+02	1.72E+02
		Co-57	<1.77E+01	0.00E+00	1.77E+01
		Mo-99	<8.68E+02	0.00E+00	8.68E+02
		Ag-110M	<1.86E+01	0.00E+00	1.86E+01
		Sb-122	<1.53E+02	0.00E+00	1.53E+02
		Sb-125	<5.19E+01	0.00E+00	5.19E+01
Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
357260	10/6/2014 - 10/6/2014	Mn-54	<5.11E+01	0.00E+00	5.11E+01
		Co-58	<4.55E+01	0.00E+00	4.55E+01
		Fe-59	<1.14E+02	0.00E+00	1.14E+02
		Co-60	<4.47E+01	0.00E+00	4.47E+01
		Zn-65	<1.30E+02	0.00E+00	1.30E+02
		Zr-95	<9.40E+01	0.00E+00	9.40E+01
		Nb-95	<5.56E+01	0.00E+00	5.56E+01
		I-131	<6.05E+01	0.00E+00	6.05E+01
		Cs-134	<6.55E+01	0.00E+00	6.55E+01
		Cs-137	<4.56E+01	0.00E+00	4.56E+01
		Be-7	<3.55E+02	0.00E+00	3.55E+02
		K-40	2.37E+04	2.60E+03	8.34E+02
		Co-57	<3.61E+01	0.00E+00	3.61E+01
		Mo-99	<2.63E+03	0.00E+00	2.63E+03
		Ag-110M	<3.45E+01	0.00E+00	3.45E+01
		Sb-122	<3.36E+02	0.00E+00	3.36E+02
		Sb-125	<1.19E+02	0.00E+00	1.19E+02

Sample Point 067 [INDICATOR - SSE @ 4.34 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
287066	4/14/2014 - 4/14/2014	Mn-54	<3.26E+01	0.00E+00	3.26E+01
		Co-58	<3.10E+01	0.00E+00	3.10E+01
		Fe-59	<7.30E+01	0.00E+00	7.30E+01
		Co-60	<3.83E+01	0.00E+00	3.83E+01
		Zn-65	<7.22E+01	0.00E+00	7.22E+01
		Zr-95	<6.60E+01	0.00E+00	6.60E+01
		Nb-95	<3.58E+01	0.00E+00	3.58E+01
		I-131	<4.77E+01	0.00E+00	4.77E+01
		Cs-134	<2.85E+01	0.00E+00	2.85E+01
		Cs-137	<3.94E+01	0.00E+00	3.94E+01
		Be-7	3.70E+02	1.23E+02	2.62E+02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: SEDIMENT_SHORE Concentration (Activity): pCi/kg

Sample Point 067 [INDICATOR - SSE @ 4.34 miles]

Sample ID:	287066	Sample Dates:	4/14/2014 - 4/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				K-40	9.81E+03	4.26E+02	3.00E+02
				Co-57	<2.19E+01	0.00E+00	2.19E+01
				Mo-99	<1.54E+03	0.00E+00	1.54E+03
				Ag-110M	<2.91E+01	0.00E+00	2.91E+01
				Sb-122	<2.55E+02	0.00E+00	2.55E+02
				Sb-125	<6.88E+01	0.00E+00	6.88E+01

Sample ID:	357261	Sample Dates:	10/6/2014 - 10/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Mn-54	<9.94E+00	0.00E+00	9.94E+00
				Co-58	<9.32E+00	0.00E+00	9.32E+00
				Fe-59	<2.08E+01	0.00E+00	2.08E+01
				Co-60	<8.87E+00	0.00E+00	8.87E+00
				Zn-65	<2.01E+01	0.00E+00	2.01E+01
				Zr-95	<1.86E+01	0.00E+00	1.86E+01
				Nb-95	<1.23E+01	0.00E+00	1.23E+01
				I-131	<2.29E+01	0.00E+00	2.29E+01
				Cs-134	<1.37E+01	0.00E+00	1.37E+01
				Cs-137	2.11E+01	1.18E+01	1.88E+01
				Be-7	1.27E+02	7.04E+01	1.12E+02
				K-40	1.34E+04	1.16E+03	1.19E+02
				Co-57	<7.98E+00	0.00E+00	7.98E+00
				Mo-99	<2.38E+03	0.00E+00	2.38E+03
				Ag-110M	<7.13E+00	0.00E+00	7.13E+00
				Sb-122	<3.40E+02	0.00E+00	3.40E+02
				Sb-125	<1.98E+01	0.00E+00	1.98E+01

Sample Point 068 [CONTROL - W @ 1.82 miles]

Sample ID:	287067	Sample Dates:	4/14/2014 - 4/14/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Mn-54	<2.20E+01	0.00E+00	2.20E+01
				Co-58	<2.00E+01	0.00E+00	2.00E+01
				Fe-59	<5.01E+01	0.00E+00	5.01E+01
				Co-60	<2.36E+01	0.00E+00	2.36E+01
				Zn-65	<5.39E+01	0.00E+00	5.39E+01
				Zr-95	<3.81E+01	0.00E+00	3.81E+01
				Nb-95	<2.18E+01	0.00E+00	2.18E+01
				I-131	<2.72E+01	0.00E+00	2.72E+01
				Cs-134	<1.48E+01	0.00E+00	1.48E+01
				Cs-137	<1.74E+01	0.00E+00	1.74E+01
				Be-7	2.54E+02	7.88E+01	1.76E+02
				K-40	8.00E+03	3.43E+02	1.46E+02
				Co-57	<1.49E+01	0.00E+00	1.49E+01
				Mo-99	<9.75E+02	0.00E+00	9.75E+02
				Ag-110M	<2.07E+01	0.00E+00	2.07E+01
				Sb-122	<1.40E+02	0.00E+00	1.40E+02
				Sb-125	<4.52E+01	0.00E+00	4.52E+01

Sample ID:	357262	Sample Dates:	10/6/2014 - 10/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
				Mn-54	<3.28E+01	0.00E+00	3.28E+01
				Co-58	<2.55E+01	0.00E+00	2.55E+01
				Fe-59	<5.20E+01	0.00E+00	5.20E+01
				Co-60	<2.48E+01	0.00E+00	2.48E+01
				Zn-65	<5.29E+01	0.00E+00	5.29E+01
				Zr-95	<5.60E+01	0.00E+00	5.60E+01
				Nb-95	<3.42E+01	0.00E+00	3.42E+01
				I-131	<4.30E+01	0.00E+00	4.30E+01
				Cs-134	<3.70E+01	0.00E+00	3.70E+01
				Cs-137	<2.64E+01	0.00E+00	2.64E+01
				Be-7	<2.61E+02	0.00E+00	2.61E+02
				K-40	5.50E+03	8.01E+02	4.82E+02
				Co-57	<2.37E+01	0.00E+00	2.37E+01
				Mo-99	<1.48E+03	0.00E+00	1.48E+03
				Ag-110M	<2.67E+01	0.00E+00	2.67E+01
				Sb-122	<2.50E+02	0.00E+00	2.50E+02
				Sb-125	<6.58E+01	0.00E+00	6.58E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 062 [CONTROL - ENE @ 0.85 miles]

Sample ID: 279023	Sample Dates: 12/9/2013 - 1/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<2.23E+00	0.00E+00	2.23E+00
		Co-58	<1.96E+00	0.00E+00	1.96E+00
		Fe-59	<4.65E+00	0.00E+00	4.65E+00
		Co-60	<2.12E+00	0.00E+00	2.12E+00
		Zn-65	<4.26E+00	0.00E+00	4.26E+00
		Zr-95	<4.01E+00	0.00E+00	4.01E+00
		Nb-95	<2.74E+00	0.00E+00	2.74E+00
		I-131	<1.26E+01	0.00E+00	1.26E+01
		Cs-134	<1.78E+00	0.00E+00	1.78E+00
		Cs-137	<2.12E+00	0.00E+00	2.12E+00
		BaLa-140	<6.46E+00	0.00E+00	6.46E+00
		Be-7	<2.30E+01	0.00E+00	2.30E+01
		K-40	1.71E+02	1.43E+01	1.99E+01
Sample ID: 280869	Sample Dates: 1/6/2014 - 2/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<4.10E+00	0.00E+00	4.10E+00
		Co-58	<3.76E+00	0.00E+00	3.76E+00
		Fe-59	<8.52E+00	0.00E+00	8.52E+00
		Co-60	<5.73E+00	0.00E+00	5.73E+00
		Zn-65	<9.67E+00	0.00E+00	9.67E+00
		Zr-95	<7.84E+00	0.00E+00	7.84E+00
		Nb-95	<5.24E+00	0.00E+00	5.24E+00
		I-131	<1.44E+01	0.00E+00	1.44E+01
		Cs-134	<3.96E+00	0.00E+00	3.96E+00
		Cs-137	<4.43E+00	0.00E+00	4.43E+00
		BaLa-140	<8.70E+00	0.00E+00	8.70E+00
		Be-7	<4.57E+01	0.00E+00	4.57E+01
		K-40	7.57E+01	1.51E+01	3.52E+01
Sample ID: 282984	Sample Dates: 2/3/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<2.47E+00	0.00E+00	2.47E+00
		Co-58	<2.63E+00	0.00E+00	2.63E+00
		Fe-59	<6.36E+00	0.00E+00	6.36E+00
		Co-60	<2.72E+00	0.00E+00	2.72E+00
		Zn-65	<6.04E+00	0.00E+00	6.04E+00
		Zr-95	<4.98E+00	0.00E+00	4.98E+00
		Nb-95	<3.24E+00	0.00E+00	3.24E+00
		I-131	<1.10E+01	0.00E+00	1.10E+01
		Cs-134	<2.40E+00	0.00E+00	2.40E+00
		Cs-137	<2.54E+00	0.00E+00	2.54E+00
		BaLa-140	<6.07E+00	0.00E+00	6.07E+00
		Be-7	<2.57E+01	0.00E+00	2.57E+01
		K-40	1.95E+02	1.78E+01	2.80E+01
Sample ID: 284709	Sample Dates: 12/9/2013 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		H3SW	<2.84E+01	0.00E+00	1.89E+02
Sample ID: 285764	Sample Dates: 3/3/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<3.35E+00	0.00E+00	3.35E+00
		Co-58	<3.46E+00	0.00E+00	3.46E+00
		Fe-59	<7.84E+00	0.00E+00	7.84E+00
		Co-60	<4.46E+00	0.00E+00	4.46E+00
		Zn-65	<5.47E+00	0.00E+00	5.47E+00
		Zr-95	<6.73E+00	0.00E+00	6.73E+00
		Nb-95	<5.11E+00	0.00E+00	5.11E+00
		I-131	<1.38E+01	0.00E+00	1.38E+01
		Cs-134	<3.33E+00	0.00E+00	3.33E+00
		Cs-137	<3.76E+00	0.00E+00	3.76E+00
		BaLa-140	<8.68E+00	0.00E+00	8.68E+00
		Be-7	<3.50E+01	0.00E+00	3.50E+01
		K-40	5.65E+01	2.03E+01	3.55E+01
Sample ID: 289128	Sample Dates: 3/31/2014 - 4/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<3.58E+00	0.00E+00	3.58E+00
		Co-58	<3.23E+00	0.00E+00	3.23E+00
		Fe-59	<8.82E+00	0.00E+00	8.82E+00
		Co-60	<4.70E+00	0.00E+00	4.70E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 062 [CONTROL - ENE @ 0.85 miles]

Sample ID: 289128	Sample Dates: 3/31/2014 - 4/28/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Zn-65	<6.98E+00	0.00E+00	6.98E+00
		Zr-95	<7.60E+00	0.00E+00	7.60E+00
		Nb-95	<5.19E+00	0.00E+00	5.19E+00
		I-131	<1.45E+01	0.00E+00	1.45E+01
		Cs-134	<2.84E+00	0.00E+00	2.84E+00
		Cs-137	<3.98E+00	0.00E+00	3.98E+00
		BaLa-140	<1.07E+01	0.00E+00	1.07E+01
		Be-7	<3.35E+01	0.00E+00	3.35E+01
		K-40	8.57E+01	1.86E+01	3.77E+01
Sample ID: 292823	Sample Dates: 4/28/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<1.42E+00	0.00E+00	1.42E+00
		Co-58	<1.58E+00	0.00E+00	1.58E+00
		Fe-59	<3.91E+00	0.00E+00	3.91E+00
		Co-60	<1.70E+00	0.00E+00	1.70E+00
		Zn-65	<3.29E+00	0.00E+00	3.29E+00
		Zr-95	<3.20E+00	0.00E+00	3.20E+00
		Nb-95	<2.15E+00	0.00E+00	2.15E+00
		I-131	<1.45E+01	0.00E+00	1.45E+01
		Cs-134	<1.40E+00	0.00E+00	1.40E+00
		Cs-137	<1.58E+00	0.00E+00	1.58E+00
		BaLa-140	<7.31E+00	0.00E+00	7.31E+00
		Be-7	<1.61E+01	0.00E+00	1.61E+01
		K-40	<2.66E+01	0.00E+00	2.66E+01
Sample ID: 295227	Sample Dates: 3/3/2014 - 5/27/2014	Nuclide	Activity	Sigma Error ¹	LLD
		H3SW	<-1.1E+02	0.00E+00	1.90E+02
Sample ID: 295486	Sample Dates: 5/27/2014 - 6/23/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<3.72E+00	0.00E+00	3.72E+00
		Co-58	<4.05E+00	0.00E+00	4.05E+00
		Fe-59	<1.00E+01	0.00E+00	1.00E+01
		Co-60	<4.13E+00	0.00E+00	4.13E+00
		Zn-65	<9.14E+00	0.00E+00	9.14E+00
		Zr-95	<7.22E+00	0.00E+00	7.22E+00
		Nb-95	<5.47E+00	0.00E+00	5.47E+00
		I-131	<1.43E+01	0.00E+00	1.43E+01
		Cs-134	<3.09E+00	0.00E+00	3.09E+00
		Cs-137	<4.39E+00	0.00E+00	4.39E+00
		BaLa-140	<1.19E+01	0.00E+00	1.19E+01
		Be-7	<3.97E+01	0.00E+00	3.97E+01
		K-40	1.13E+02	3.10E+01	4.90E+01
Sample ID: 296994	Sample Dates: 6/23/2014 - 7/21/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<1.60E+00	0.00E+00	1.60E+00
		Co-58	<1.80E+00	0.00E+00	1.80E+00
		Fe-59	<4.04E+00	0.00E+00	4.04E+00
		Co-60	<1.80E+00	0.00E+00	1.80E+00
		Zn-65	<3.39E+00	0.00E+00	3.39E+00
		Zr-95	<3.20E+00	0.00E+00	3.20E+00
		Nb-95	<2.60E+00	0.00E+00	2.60E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<1.52E+00	0.00E+00	1.52E+00
		Cs-137	<1.84E+00	0.00E+00	1.84E+00
		BaLa-140	<5.77E+00	0.00E+00	5.77E+00
		Be-7	<1.94E+01	0.00E+00	1.94E+01
		K-40	1.03E+02	2.22E+01	2.63E+01
Sample ID: 353437	Sample Dates: 7/21/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<3.00E+00	0.00E+00	3.00E+00
		Co-58	<3.21E+00	0.00E+00	3.21E+00
		Fe-59	<6.02E+00	0.00E+00	6.02E+00
		Co-60	<3.02E+00	0.00E+00	3.02E+00
		Zn-65	<5.60E+00	0.00E+00	5.60E+00
		Zr-95	<6.58E+00	0.00E+00	6.58E+00
		Nb-95	<3.50E+00	0.00E+00	3.50E+00
		I-131	<9.94E+00	0.00E+00	9.94E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 062 [CONTROL - ENE @ 0.85 miles]

Sample ID: 353437	Sample Dates: 7/21/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Cs-134	<3.27E+00	0.00E+00	3.27E+00
		Cs-137	<3.09E+00	0.00E+00	3.09E+00
		BaLa-140	<8.94E+00	0.00E+00	8.94E+00
		Be-7	<2.57E+01	0.00E+00	2.57E+01
		K-40	6.98E+01	6.66E+01	1.08E+02
Sample ID: 354212	Sample Dates: 5/27/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
		H3SW	<3.83E+01	0.00E+00	1.88E+02
Sample ID: 355186	Sample Dates: 8/18/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<2.38E+00	0.00E+00	2.38E+00
		Co-58	<3.05E+00	0.00E+00	3.05E+00
		Fe-59	<6.55E+00	0.00E+00	6.55E+00
		Co-60	<3.45E+00	0.00E+00	3.45E+00
		Zn-65	<6.34E+00	0.00E+00	6.34E+00
		Zr-95	<6.97E+00	0.00E+00	6.97E+00
		Nb-95	<3.73E+00	0.00E+00	3.73E+00
		I-131	<1.08E+01	0.00E+00	1.08E+01
		Cs-134	<3.93E+00	0.00E+00	3.93E+00
		Cs-137	<3.24E+00	0.00E+00	3.24E+00
		BaLa-140	<7.20E+00	0.00E+00	7.20E+00
		Be-7	<2.81E+01	0.00E+00	2.81E+01
		K-40	6.74E+01	3.01E+01	3.74E+01
Sample ID: 358058	Sample Dates: 9/15/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<2.68E+00	0.00E+00	2.68E+00
		Co-58	<3.00E+00	0.00E+00	3.00E+00
		Fe-59	<7.66E+00	0.00E+00	7.66E+00
		Co-60	<3.06E+00	0.00E+00	3.06E+00
		Zn-65	<1.27E+00	0.00E+00	1.27E+00
		Zr-95	<6.85E+00	0.00E+00	6.85E+00
		Nb-95	<5.00E+00	0.00E+00	5.00E+00
		I-131	<1.11E+01	0.00E+00	1.11E+01
		Cs-134	<3.67E+00	0.00E+00	3.67E+00
		Cs-137	<3.20E+00	0.00E+00	3.20E+00
		BaLa-140	<8.04E+00	0.00E+00	8.04E+00
		Be-7	<1.96E+01	0.00E+00	1.96E+01
		K-40	4.05E+01	2.66E+01	3.48E+01
Sample ID: 360722	Sample Dates: 10/13/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<2.54E+00	0.00E+00	2.54E+00
		Co-58	<2.88E+00	0.00E+00	2.88E+00
		Fe-59	<5.94E+00	0.00E+00	5.94E+00
		Co-60	<2.18E+00	0.00E+00	2.18E+00
		Zn-65	<4.80E+00	0.00E+00	4.80E+00
		Zr-95	<5.20E+00	0.00E+00	5.20E+00
		Nb-95	<3.57E+00	0.00E+00	3.57E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<2.66E+00	0.00E+00	2.66E+00
		Cs-137	<2.34E+00	0.00E+00	2.34E+00
		BaLa-140	<7.32E+00	0.00E+00	7.32E+00
		Be-7	<2.33E+01	0.00E+00	2.33E+01
		K-40	2.04E+02	3.97E+01	4.16E+01
Sample ID: 363533	Sample Dates: 11/10/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<1.24E+00	0.00E+00	1.24E+00
		Co-58	<1.48E+00	0.00E+00	1.48E+00
		Fe-59	<3.10E+00	0.00E+00	3.10E+00
		Co-60	<1.19E+00	0.00E+00	1.19E+00
		Zn-65	<2.57E+00	0.00E+00	2.57E+00
		Zr-95	<2.84E+00	0.00E+00	2.84E+00
		Nb-95	<2.03E+00	0.00E+00	2.03E+00
		I-131	<1.05E+01	0.00E+00	1.05E+01
		Cs-134	<1.49E+00	0.00E+00	1.49E+00
		Cs-137	<1.14E+00	0.00E+00	1.14E+00
		BaLa-140	<4.16E+00	0.00E+00	4.16E+00
		Be-7	<1.27E+01	0.00E+00	1.27E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 062 [CONTROL - ENE @ 0.85 miles]

Sample ID: 363533	Sample Dates: 11/10/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		K-40	1.75E+02	3.21E+01	4.29E+01

Sample ID: 364522	Sample Dates: 8/18/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		H3SW	<8.01E+01	0.00E+00	1.90E+02

Sample Point 063.1 [INDICATOR - E @ 0.79 miles]

Sample ID: 279024	Sample Dates: 12/9/2013 - 1/6/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<2.74E+00	0.00E+00	2.74E+00
		Co-58	<2.83E+00	0.00E+00	2.83E+00
		Fe-59	<5.38E+00	0.00E+00	5.38E+00
		Co-60	<2.93E+00	0.00E+00	2.93E+00
		Zn-65	<5.38E+00	0.00E+00	5.38E+00
		Zr-95	<5.36E+00	0.00E+00	5.36E+00
		Nb-95	<4.12E+00	0.00E+00	4.12E+00
		I-131	<1.44E+01	0.00E+00	1.44E+01
		Cs-134	<2.04E+00	0.00E+00	2.04E+00
		Cs-137	<2.67E+00	0.00E+00	2.67E+00
		BaLa-140	<8.60E+00	0.00E+00	8.60E+00
		Be-7	<2.75E+01	0.00E+00	2.75E+01
		K-40	4.86E+01	1.62E+01	2.94E+01

Sample ID: 280870	Sample Dates: 1/6/2014 - 2/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<3.47E+00	0.00E+00	3.47E+00
		Co-58	<3.89E+00	0.00E+00	3.89E+00
		Fe-59	<8.50E+00	0.00E+00	8.50E+00
		Co-60	<3.97E+00	0.00E+00	3.97E+00
		Zn-65	<8.32E+00	0.00E+00	8.32E+00
		Zr-95	<7.08E+00	0.00E+00	7.08E+00
		Nb-95	<4.55E+00	0.00E+00	4.55E+00
		I-131	<1.41E+01	0.00E+00	1.41E+01
		Cs-134	<3.17E+00	0.00E+00	3.17E+00
		Cs-137	<3.72E+00	0.00E+00	3.72E+00
		BaLa-140	<7.29E+00	0.00E+00	7.29E+00
		Be-7	<3.56E+01	0.00E+00	3.56E+01
		K-40	1.36E+02	2.70E+01	3.44E+01

Sample ID: 282985	Sample Dates: 2/3/2014 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<3.19E+00	0.00E+00	3.19E+00
		Co-58	<3.27E+00	0.00E+00	3.27E+00
		Fe-59	<6.75E+00	0.00E+00	6.75E+00
		Co-60	<3.18E+00	0.00E+00	3.18E+00
		Zn-65	<5.85E+00	0.00E+00	5.85E+00
		Zr-95	<5.82E+00	0.00E+00	5.82E+00
		Nb-95	<4.06E+00	0.00E+00	4.06E+00
		I-131	<1.37E+01	0.00E+00	1.37E+01
		Cs-134	<2.79E+00	0.00E+00	2.79E+00
		Cs-137	<2.93E+00	0.00E+00	2.93E+00
		BaLa-140	<6.84E+00	0.00E+00	6.84E+00
		Be-7	<3.03E+01	0.00E+00	3.03E+01
		K-40	1.64E+02	1.97E+01	2.77E+01

Sample ID: 284710	Sample Dates: 12/9/2013 - 3/3/2014	Nuclide	Activity	Sigma Error ¹	LLD
		H3SW	2.06E+03	8.57E+01	1.89E+02

Sample ID: 285765	Sample Dates: 3/3/2014 - 3/31/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<3.65E+00	0.00E+00	3.65E+00
		Co-58	<3.40E+00	0.00E+00	3.40E+00
		Fe-59	<1.02E+01	0.00E+00	1.02E+01
		Co-60	<4.38E+00	0.00E+00	4.38E+00
		Zn-65	<7.21E+00	0.00E+00	7.21E+00
		Zr-95	<7.52E+00	0.00E+00	7.52E+00
		Nb-95	<4.76E+00	0.00E+00	4.76E+00
		I-131	<1.41E+01	0.00E+00	1.41E+01
		Cs-134	<3.61E+00	0.00E+00	3.61E+00
		Cs-137	<3.29E+00	0.00E+00	3.29E+00
		BaLa-140	<5.61E+00	0.00E+00	5.61E+00
		Be-7	<3.68E+01	0.00E+00	3.68E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 063.1 [INDICATOR - E @ 0.79 miles]

Sample ID: 285765	Sample Dates: 3/3/2014 - 3/31/2014	Nuclide K-40	Activity 7.27E+01	Sigma Error ¹ 1.68E+01	LLD 2.94E+01
Sample ID: 289129	Sample Dates: 3/31/2014 - 4/28/2014	Nuclide Mn-54 Co-58 Fe-59 Co-60 Zn-65 Zr-95 Nb-95 I-131 Cs-134 Cs-137 BaLa-140 Be-7 K-40	Activity <3.25E+00 <3.24E+00 <8.64E+00 <3.95E+00 <5.67E+00 <5.70E+00 <4.61E+00 <1.21E+01 <2.73E+00 <3.57E+00 <8.93E+00 <3.13E+01 7.46E+01	Sigma Error ¹ 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.62E+01	LLD 3.25E+00 3.24E+00 8.64E+00 3.95E+00 5.67E+00 5.70E+00 4.61E+00 1.21E+01 2.73E+00 3.57E+00 8.93E+00 3.13E+01 4.03E+01
Sample ID: 292824	Sample Dates: 4/28/2014 - 5/27/2014	Nuclide Mn-54 Co-58 Fe-59 Co-60 Zn-65 Zr-95 Nb-95 I-131 Cs-134 Cs-137 BaLa-140 Be-7 K-40	Activity <2.05E+00 <2.47E+00 <4.42E+00 <2.26E+00 <4.47E+00 <4.45E+00 <2.75E+00 <1.44E+01 <2.04E+00 <2.19E+00 <6.10E+00 <2.39E+01 1.60E+02	Sigma Error ¹ 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.52E+01	LLD 2.05E+00 2.47E+00 4.42E+00 2.26E+00 4.47E+00 4.45E+00 2.75E+00 1.44E+01 2.04E+00 2.19E+00 6.10E+00 2.39E+01 1.74E+01
Sample ID: 295228	Sample Dates: 3/3/2014 - 5/27/2014	Nuclide H3SW	Activity 3.53E+03	Sigma Error ¹ 1.02E+02	LLD 1.90E+02
Sample ID: 295487	Sample Dates: 5/27/2014 - 6/23/2014	Nuclide Mn-54 Co-58 Fe-59 Co-60 Zn-65 Zr-95 Nb-95 I-131 Cs-134 Cs-137 BaLa-140 Be-7 K-40	Activity <2.74E+00 <2.95E+00 <7.04E+00 <3.20E+00 <6.67E+00 <5.37E+00 <3.91E+00 <9.92E+00 <2.98E+00 <3.32E+00 <9.12E+00 <3.02E+01 8.42E+01	Sigma Error ¹ 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.40E+01	LLD 2.74E+00 2.95E+00 7.04E+00 3.20E+00 6.67E+00 5.37E+00 3.91E+00 9.92E+00 2.98E+00 3.32E+00 9.12E+00 3.02E+01 2.57E+01
Sample ID: 296995	Sample Dates: 6/23/2014 - 7/21/2014	Nuclide Mn-54 Co-58 Fe-59 Co-60 Zn-65 Zr-95 Nb-95 I-131 Cs-134 Cs-137 BaLa-140 Be-7 K-40	Activity <1.46E+00 <1.62E+00 <3.65E+00 <1.49E+00 <2.85E+00 <2.98E+00 <2.27E+00 <9.50E+00 <1.16E+00 <1.45E+00 <5.82E+00 <1.35E+01 8.76E+01	Sigma Error ¹ 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.86E+01	LLD 1.46E+00 1.62E+00 3.65E+00 1.49E+00 2.85E+00 2.98E+00 2.27E+00 9.50E+00 1.16E+00 1.45E+00 5.82E+00 1.35E+01 2.32E+01
Sample ID: 353438	Sample Dates: 7/21/2014 - 8/18/2014	Nuclide Mn-54	Activity <2.43E+00	Sigma Error ¹ 0.00E+00	LLD 2.43E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 063.1 [INDICATOR - E @ 0.79 miles]

Sample ID: 353438	Sample Dates: 7/21/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Co-58	<2.61E+00	0.00E+00	2.61E+00
		Fe-59	<6.67E+00	0.00E+00	6.67E+00
		Co-60	<1.93E+00	0.00E+00	1.93E+00
		Zn-65	<5.08E+00	0.00E+00	5.08E+00
		Zr-95	<5.51E+00	0.00E+00	5.51E+00
		Nb-95	<3.59E+00	0.00E+00	3.59E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<2.82E+00	0.00E+00	2.82E+00
		Cs-137	<2.84E+00	0.00E+00	2.84E+00
		BaLa-140	<6.85E+00	0.00E+00	6.85E+00
		Be-7	<2.77E+01	0.00E+00	2.77E+01
		K-40	8.95E+01	2.54E+01	2.69E+01
Sample ID: 354213	Sample Dates: 5/27/2014 - 8/18/2014	Nuclide	Activity	Sigma Error ¹	LLD
		H3SW	1.42E+03	1.51E+02	1.88E+02
Sample ID: 355188	Sample Dates: 8/18/2014 - 9/15/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<3.97E+00	0.00E+00	3.97E+00
		Co-58	<3.69E+00	0.00E+00	3.69E+00
		Fe-59	<7.42E+00	0.00E+00	7.42E+00
		Co-60	<3.76E+00	0.00E+00	3.76E+00
		Zn-65	<5.24E+00	0.00E+00	5.24E+00
		Zr-95	<6.06E+00	0.00E+00	6.06E+00
		Nb-95	<4.69E+00	0.00E+00	4.69E+00
		I-131	<1.15E+01	0.00E+00	1.15E+01
		Cs-134	<3.94E+00	0.00E+00	3.94E+00
		Cs-137	<3.84E+00	0.00E+00	3.84E+00
		BaLa-140	<7.08E+00	0.00E+00	7.08E+00
		Be-7	<2.85E+01	0.00E+00	2.85E+01
		K-40	8.15E+01	3.35E+01	3.54E+01
Sample ID: 358059	Sample Dates: 9/15/2014 - 10/13/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<2.03E+00	0.00E+00	2.03E+00
		Co-58	<1.92E+00	0.00E+00	1.92E+00
		Fe-59	<4.58E+00	0.00E+00	4.58E+00
		Co-60	<1.64E+00	0.00E+00	1.64E+00
		Zn-65	<4.30E+00	0.00E+00	4.30E+00
		Zr-95	<4.28E+00	0.00E+00	4.28E+00
		Nb-95	<2.88E+00	0.00E+00	2.88E+00
		I-131	<1.17E+01	0.00E+00	1.17E+01
		Cs-134	<2.38E+00	0.00E+00	2.38E+00
		Cs-137	<1.81E+00	0.00E+00	1.81E+00
		BaLa-140	<5.84E+00	0.00E+00	5.84E+00
		Be-7	<1.92E+01	0.00E+00	1.92E+01
		K-40	1.76E+02	3.48E+01	4.14E+01
Sample ID: 360723	Sample Dates: 10/13/2014 - 11/10/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<2.59E+00	0.00E+00	2.59E+00
		Co-58	<2.76E+00	0.00E+00	2.76E+00
		Fe-59	<5.51E+00	0.00E+00	5.51E+00
		Co-60	<2.80E+00	0.00E+00	2.80E+00
		Zn-65	<5.34E+00	0.00E+00	5.34E+00
		Zr-95	<4.84E+00	0.00E+00	4.84E+00
		Nb-95	<3.51E+00	0.00E+00	3.51E+00
		I-131	<1.06E+01	0.00E+00	1.06E+01
		Cs-134	<2.93E+00	0.00E+00	2.93E+00
		Cs-137	<2.29E+00	0.00E+00	2.29E+00
		BaLa-140	<6.38E+00	0.00E+00	6.38E+00
		Be-7	<2.14E+01	0.00E+00	2.14E+01
		K-40	1.02E+02	2.96E+01	3.76E+01
Sample ID: 363534	Sample Dates: 11/10/2014 - 12/8/2014	Nuclide	Activity	Sigma Error ¹	LLD
		Mn-54	<1.29E+00	0.00E+00	1.29E+00
		Co-58	<1.71E+00	0.00E+00	1.71E+00
		Fe-59	<3.11E+00	0.00E+00	3.11E+00
		Co-60	<1.21E+00	0.00E+00	1.21E+00
		Zn-65	<3.03E+00	0.00E+00	3.03E+00

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 063.1 [INDICATOR - E @ 0.79 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
363534	11/10/2014 - 12/8/2014	Zr-95	<2.99E+00	0.00E+00	2.99E+00
		Nb-95	<2.33E+00	0.00E+00	2.33E+00
		I-131	<1.09E+01	0.00E+00	1.09E+01
		Cs-134	<1.43E+00	0.00E+00	1.43E+00
		Cs-137	<1.54E+00	0.00E+00	1.54E+00
		BaLa-140	<5.35E+00	0.00E+00	5.35E+00
		Be-7	<1.43E+01	0.00E+00	1.43E+01
		K-40	2.96E+01	1.55E+01	2.32E+01
Sample ID:	Sample Dates:	Nuclide	Activity	Sigma Error ¹	LLD
364523	8/18/2014 - 12/8/2014	H3SW	6.96E+03	2.61E+02	1.91E+02

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 020 [INDICATOR - N @ 0.16 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
286453	12/17/2013 - 3/18/2014	mR/Std Qtr	22.20
Sample ID:	Sample Dates:	Nuclide	Activity
296401	3/18/2014 - 6/17/2014	mR/Std Qtr	17.90
Sample ID:	Sample Dates:	Nuclide	Activity
365635	6/17/2014 - 9/16/2014	mR/Std Qtr	17.60
Sample ID:	Sample Dates:	Nuclide	Activity
362556	9/16/2014 - 12/16/2014	mR/Std Qtr	20.25

Sample Point 021 [INDICATOR - NNE @ 0.25 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
286454	12/17/2013 - 3/18/2014	mR/Std Qtr	18.44
Sample ID:	Sample Dates:	Nuclide	Activity
296402	3/18/2014 - 6/17/2014	mR/Std Qtr	12.47
Sample ID:	Sample Dates:	Nuclide	Activity
365636	6/17/2014 - 9/16/2014	mR/Std Qtr	13.84
Sample ID:	Sample Dates:	Nuclide	Activity
362557	9/16/2014 - 12/16/2014	mR/Std Qtr	13.18

Sample Point 022 [INDICATOR - NE @ 0.53 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
286455	12/17/2013 - 3/18/2014	mR/Std Qtr	26.15
Sample ID:	Sample Dates:	Nuclide	Activity
296403	3/18/2014 - 6/17/2014	mR/Std Qtr	21.32
Sample ID:	Sample Dates:	Nuclide	Activity
365637	6/17/2014 - 9/16/2014	mR/Std Qtr	20.91
Sample ID:	Sample Dates:	Nuclide	Activity
362558	9/16/2014 - 12/16/2014	mR/Std Qtr	24.39

Sample Point 023 [INDICATOR - ENE @ 0.93 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
286456	12/17/2013 - 3/18/2014	mR/Std Qtr	24.68
Sample ID:	Sample Dates:	Nuclide	Activity
296404	3/18/2014 - 6/17/2014	mR/Std Qtr	20.03
Sample ID:	Sample Dates:	Nuclide	Activity
365638	6/17/2014 - 9/16/2014	mR/Std Qtr	20.25
Sample ID:	Sample Dates:	Nuclide	Activity
362559	9/16/2014 - 12/16/2014	mR/Std Qtr	23.45

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 024 [INDICATOR - E @ 0.79 miles]

TLD RING TLD_INNER

Sample ID:	286457	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	27.46
Sample ID:	296405	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	22.65
Sample ID:	365640	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	23.31
Sample ID:	362560	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	25.48

Sample Point 025 [INDICATOR - ESE @ 0.42 miles]

TLD RING TLD_INNER

Sample ID:	286458	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	22.59
Sample ID:	296406	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	18.03
Sample ID:	365641	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	18.35
Sample ID:	362561	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	21.13

Sample Point 026 [INDICATOR - SE @ 0.34 miles]

TLD RING TLD_INNER

Sample ID:	286460	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	19.59
Sample ID:	296408	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	15.75
Sample ID:	365642	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	16.38
Sample ID:	362562	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	19.32

Sample Point 027 [INDICATOR - SSE @ 0.49 miles]

TLD RING TLD_INNER

Sample ID:	286461	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	22.42
Sample ID:	296409	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	18.32
Sample ID:	365643	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	18.93
Sample ID:	362563	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	19.13

Sample Point 028 [INDICATOR - S @ 0.46 miles]

TLD RING TLD_INNER

Sample ID:	286462	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	18.54
Sample ID:	296410	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	15.46
Sample ID:	365645	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	15.62
Sample ID:	362564	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	19.07

Sample Point 029 [INDICATOR - SSW @ 0.56 miles]

TLD RING TLD_INNER

Sample ID:	286463	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	17.09
Sample ID:	296411	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	15.44

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 029 [INDICATOR - SSW @ 0.56 miles]

TLD RING TLD_INNER

Sample ID:	365646	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	14.30
Sample ID:	362565	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	15.86

Sample Point 030 [INDICATOR - SW @ 0.42 miles]

TLD RING TLD_INNER

Sample ID:	286464	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	19.09
Sample ID:	296412	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	15.55
Sample ID:	365647	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	16.34
Sample ID:	362566	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	20.73

Sample Point 031 [INDICATOR - WSW @ 0.27 miles]

TLD RING TLD_INNER

Sample ID:	286465	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	19.00
Sample ID:	296413	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	14.18
Sample ID:	365649	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	18.11
Sample ID:	362567	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	17.66

Sample Point 032 [INDICATOR - WNW @ 0.19 miles]

TLD RING TLD_INNER

Sample ID:	286466	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	20.49
Sample ID:	296414	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	16.81
Sample ID:	365650	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	16.52
Sample ID:	362568	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	21.54

Sample Point 033 [INDICATOR - WNW @ 0.21 miles]

TLD RING TLD_INNER

Sample ID:	286467	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	22.33
Sample ID:	296415	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	17.59
Sample ID:	365651	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	17.82
Sample ID:	362569	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	21.95

Sample Point 034 [INDICATOR - NW @ 0.22 miles]

TLD RING TLD_INNER

Sample ID:	286468	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	25.24
Sample ID:	296416	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	21.00
Sample ID:	365652	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	20.77
Sample ID:	362570	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	23.81

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 035 [INDICATOR - NNW @ 0.17 miles]

TLD RING TLD_INNER

Sample ID:	286469	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	28.03
Sample ID:	296417	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	23.01
Sample ID:	365654	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	23.55
Sample ID:	362571	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	25.50

Sample Point 036 [INDICATOR - N @ 4.18 miles]

TLD RING TLD_OUTER

Sample ID:	286470	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	28.00
Sample ID:	296418	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	21.73
Sample ID:	365655	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	22.95
Sample ID:	362572	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	26.96

Sample Point 037 [INDICATOR - NNE @ 4.85 miles]

TLD RING TLD_OUTER

Sample ID:	286471	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	23.61
Sample ID:	296419	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	16.41
Sample ID:	365656	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	20.77
Sample ID:	362573	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	19.07

Sample Point 038 [INDICATOR - NE @ 4.24 miles]

TLD RING TLD_OUTER

Sample ID:	286472	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	25.48
Sample ID:	296420	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	19.48
Sample ID:	365657	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	19.42
Sample ID:	362574	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	22.73

Sample Point 039 [INDICATOR - ENE @ 4.02 miles]

TLD RING TLD_OUTER

Sample ID:	286473	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	26.70
Sample ID:	296421	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	22.95
Sample ID:	365659	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	22.88
Sample ID:	362575	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	24.42

Sample Point 040 [INDICATOR - E @ 4.74 miles]

TLD RING TLD_OUTER

Sample ID:	286474	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	29.59
Sample ID:	296422	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	24.40

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 040 [INDICATOR - E @ 4.74 miles]

TLD RING TLD_OUTER

Sample ID:	365660	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	24.56
Sample ID:	362576	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	28.23

Sample Point 041 [INDICATOR - ESE @ 4.25 miles]

TLD RING TLD_OUTER

Sample ID:	286491	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	19.61
Sample ID:	296439	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	15.82
Sample ID:	365662	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	15.16
Sample ID:	362577	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	18.56

Sample Point 042 [INDICATOR - SE @ 4.93 miles]

TLD RING TLD_OUTER

Sample ID:	286475	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	29.20
Sample ID:	296423	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	24.22
Sample ID:	365663	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	24.95
Sample ID:	362578	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	26.92

Sample Point 043 [INDICATOR - SSE @ 4.09 miles]

TLD RING TLD_OUTER

Sample ID:	296424	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	21.81
Sample ID:	365664	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	22.05
Sample ID:	362579	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	25.10

Sample Point 044 [INDICATOR - S @ 3.96 miles]

TLD RING TLD_OUTER

Sample ID:	286477	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	21.76
Sample ID:	296425	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	17.29
Sample ID:	365665	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	18.50
Sample ID:	362580	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	18.76

Sample Point 045 [INDICATOR - SSW @ 4.78 miles]

TLD RING TLD_OUTER

Sample ID:	286478	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	18.48
Sample ID:	296426	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	15.76
Sample ID:	365667	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	15.42
Sample ID:	362581	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	19.72

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 046 [INDICATOR - SW @ 4.61 miles]

TLD RING TLD_OUTER

Sample ID:	286479	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	25.19
Sample ID:	296427	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	20.99
Sample ID:	365668	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	21.33
Sample ID:	362582	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	22.99

Sample Point 047 [INDICATOR - WSW @ 3.58 miles]

TLD RING TLD_OUTER

Sample ID:	286480	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	26.62
Sample ID:	296428	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	21.39
Sample ID:	365670	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	21.82
Sample ID:	362583	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	23.81

Sample Point 048 [INDICATOR - W @ 3.64 miles]

TLD RING TLD_OUTER

Sample ID:	286481	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	28.32
Sample ID:	296429	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	24.21
Sample ID:	365671	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	27.17
Sample ID:	362584	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	29.24

Sample Point 049 [INDICATOR - WNW @ 3.6 miles]

TLD RING TLD_OUTER

Sample ID:	286482	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	25.43
Sample ID:	296430	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	21.39
Sample ID:	365672	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	22.63
Sample ID:	362585	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	22.92

Sample Point 050 [INDICATOR - NW @ 3.53 miles]

TLD RING TLD_OUTER

Sample ID:	286483	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	20.22
Sample ID:	296431	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	16.02
Sample ID:	365673	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	19.78
Sample ID:	362586	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	19.44

Sample Point 051 [INDICATOR - NNW @ 4.64 miles]

TLD RING TLD_OUTER

Sample ID:	286484	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	20.96
Sample ID:	296432	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	18.53

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 051 [INDICATOR - NNW @ 4.64 miles]

TLD RING TLD_OUTER

Sample ID:	365675	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	18.55
Sample ID:	362587	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	23.64

Sample Point 052 [INDICATOR - ENE @ 12.4 miles]

TLD RING TLD_SPEC

Sample ID:	286485	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	27.04
Sample ID:	296433	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	22.99
Sample ID:	365676	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	22.37
Sample ID:	362588	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	24.09

Sample Point 053 [INDICATOR - E @ 11.7 miles]

TLD RING TLD_SPEC

Sample ID:	286486	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	29.27
Sample ID:	296434	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	24.19
Sample ID:	365678	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	21.18
Sample ID:	362589	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	26.83

Sample Point 054 [INDICATOR - ESE @ 8.6 miles]

TLD RING TLD_SPEC

Sample ID:	286487	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	24.23
Sample ID:	296435	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	16.80
Sample ID:	365679	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	16.25
Sample ID:	362590	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	21.57

Sample Point 055 [INDICATOR - SSE @ 9.27 miles]

TLD RING TLD_SPEC

Sample ID:	286488	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	19.54
Sample ID:	296436	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	14.07
Sample ID:	365680	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	14.33
Sample ID:	362591	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	15.61

Sample Point 056 [INDICATOR - SSW @ 7.3 miles]

TLD RING TLD_SPEC

Sample ID:	286489	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	25.96
Sample ID:	296437	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	23.45
Sample ID:	365681	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	22.73
Sample ID:	362592	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	24.04

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 057 [INDICATOR - SW @ 8.42 miles]

TLD RING TLD_SPEC

Sample ID:	286490	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	28.17
Sample ID:	296438	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	21.66
Sample ID:	365683	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	29.42
Sample ID:	362593	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	24.53

Sample Point 058 [CONTROL - WSW @ 9.39 miles]

TLD RING TLD_CTRL

Sample ID:	286492	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	34.90
Sample ID:	296440	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	29.21
Sample ID:	365684	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	28.84
Sample ID:	362594	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	32.08

Sample Point 059 [INDICATOR - NW @ 9.2 miles]

TLD RING TLD_SPEC

Sample ID:	286493	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	27.10
Sample ID:	296441	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	24.53
Sample ID:	365685	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	25.76
Sample ID:	362595	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	25.07

Sample Point 076 [INDICATOR - W @ 0.19 miles]

TLD RING TLD_INNER

Sample ID:	286494	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	27.02
Sample ID:	296442	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	22.16
Sample ID:	365687	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	21.51
Sample ID:	362596	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	21

Sample Point 081 [CONTROL - SE @ 9.33 miles]

TLD RING TLD_CTRL

Sample ID:	286495	Sample Dates:	12/17/2013 - 3/18/2014	Nuclide	Activity
				mR/Std Qtr	25.53
Sample ID:	296443	Sample Dates:	3/18/2014 - 6/17/2014	Nuclide	Activity
				mR/Std Qtr	23.20
Sample ID:	365688	Sample Dates:	6/17/2014 - 9/16/2014	Nuclide	Activity
				mR/Std Qtr	22.17
Sample ID:	362597	Sample Dates:	9/16/2014 - 12/16/2014	Nuclide	Activity
				mR/Std Qtr	24.3

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID:	275257	Sample Dates:	1/6/2014 - 1/6/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					I-131	<3.63E+01	0.00E+00	3.63E+01
					Cs-134	<3.17E+01	0.00E+00	3.17E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID: 275257	Sample Dates: 1/6/2014 - 1/6/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			Cs-137	<2.43E+01		
			Be-7	2.57E+03		
			K-40	3.86E+03		
Sample ID: 279583	Sample Dates: 2/3/2014 - 2/3/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<3.59E+01		
			Cs-134	<3.90E+01		
			Cs-137	<3.30E+01		
			Be-7	7.27E+02		
Sample ID: 281220	Sample Dates: 3/3/2014 - 3/3/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<3.74E+01		
			Cs-134	<2.85E+01		
			Cs-137	<3.32E+01		
			Be-7	7.06E+02		
Sample ID: 284401	Sample Dates: 4/7/2014 - 4/7/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<2.87E+01		
			Cs-134	<4.72E+01		
			Cs-137	<4.66E+01		
			Be-7	1.75E+03		
Sample ID: 287038	Sample Dates: 5/5/2014 - 5/5/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<2.88E+01		
			Cs-134	<3.57E+01		
			Cs-137	<3.89E+01		
			Be-7	2.56E+02		
Sample ID: 289839	Sample Dates: 6/2/2014 - 6/2/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<2.50E+01		
			Cs-134	<2.15E+01		
			Cs-137	<3.04E+01		
			Be-7	7.00E+02		
Sample ID: 294843	Sample Dates: 7/7/2014 - 7/7/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			K-40	3.47E+03		
			Mn-54	<1.72E+01		
			Co-58	<1.89E+01		
			Fe-59	<5.59E+01		
			Co-60	<1.89E+01		
			Zn-65	<5.20E+01		
			Zr-95	<3.08E+01		
			Nb-95	<2.56E+01		
			I-131	<4.78E+01		
			Cs-134	<1.33E+01		
			Cs-137	<1.57E+01		
			BaLa-140	<4.67E+01		
			Be-7	7.25E+02		
			K-40	4.10E+03		
Sample ID: 296611	Sample Dates: 8/4/2014 - 8/4/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			Mn-54	<3.01E+01		
			Co-58	<3.34E+01		
			Fe-59	<7.77E+01		
			Co-60	<5.92E+01		
			Zn-65	<6.70E+01		
			Zr-95	<5.16E+01		
			Nb-95	<3.79E+01		
			I-131	<3.74E+01		
			Cs-134	<3.22E+01		
			Cs-137	<4.64E+01		
			BaLa-140	<5.33E+01		
			Be-7	1.15E+03		

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 077 [INDICATOR - SW @ 1 miles]

Sample ID: 296611	Sample Dates: 8/4/2014 - 8/4/2014	MIXEDBLV	Nuclide K-40	Activity 3.81E+03	Sigma Error ¹ 9.01E+02	LLD 5.32E+02
Sample ID: 354456	Sample Dates: 9/2/2014 - 9/2/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			Mn-54	<3.43E+01	0.00E+00	3.43E+01
			Co-58	<3.84E+01	0.00E+00	3.84E+01
			Fe-59	<8.46E+01	0.00E+00	8.46E+01
			Co-60	<4.79E+01	0.00E+00	4.79E+01
			Zn-65	<8.85E+01	0.00E+00	8.85E+01
			Zr-95	<6.96E+01	0.00E+00	6.96E+01
			Nb-95	<3.07E+01	0.00E+00	3.07E+01
			I-131	<3.49E+01	0.00E+00	3.49E+01
			Cs-134	<3.57E+01	0.00E+00	3.57E+01
			Cs-137	<3.27E+01	0.00E+00	3.27E+01
			BaLa-140	<6.02E+01	0.00E+00	6.02E+01
			Be-7	1.84E+03	4.37E+02	4.43E+02
			K-40	3.77E+03	8.55E+02	5.54E+02
Sample ID: 357059	Sample Dates: 10/6/2014 - 10/6/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			Mn-54	<2.56E+01	0.00E+00	2.56E+01
			Co-58	<2.81E+01	0.00E+00	2.81E+01
			Fe-59	<6.46E+01	0.00E+00	6.46E+01
			Co-60	<2.99E+01	0.00E+00	2.99E+01
			Zn-65	<6.74E+01	0.00E+00	6.74E+01
			Zr-95	<4.72E+01	0.00E+00	4.72E+01
			Nb-95	<2.81E+01	0.00E+00	2.81E+01
			I-131	<2.80E+01	0.00E+00	2.80E+01
			Cs-134	<3.50E+01	0.00E+00	3.50E+01
			Cs-137	<2.72E+01	0.00E+00	2.72E+01
			BaLa-140	<7.34E+00	0.00E+00	7.34E+00
			Be-7	2.32E+03	3.84E+02	3.00E+02
			K-40	4.56E+03	7.45E+02	4.01E+02
Sample ID: 360040	Sample Dates: 11/3/2014 - 11/3/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			Mn-54	<2.87E+01	0.00E+00	2.87E+01
			Co-58	<2.54E+01	0.00E+00	2.54E+01
			Fe-59	<5.53E+01	0.00E+00	5.53E+01
			Co-60	<2.57E+01	0.00E+00	2.57E+01
			Zn-65	<5.61E+01	0.00E+00	5.61E+01
			Zr-95	<3.04E+01	0.00E+00	3.04E+01
			Nb-95	<2.34E+01	0.00E+00	2.34E+01
			I-131	<2.30E+01	0.00E+00	2.30E+01
			Cs-134	<3.23E+01	0.00E+00	3.23E+01
			Cs-137	<2.38E+01	0.00E+00	2.38E+01
			BaLa-140	<2.95E+01	0.00E+00	2.95E+01
			Be-7	2.74E+03	4.38E+02	3.30E+02
			K-40	2.89E+03	5.69E+02	2.62E+02
Sample ID: 362793	Sample Dates: 12/1/2014 - 12/1/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			Mn-54	<2.25E+01	0.00E+00	2.25E+01
			Co-58	<2.76E+01	0.00E+00	2.76E+01
			Fe-59	<5.39E+01	0.00E+00	5.39E+01
			Co-60	<2.91E+01	0.00E+00	2.91E+01
			Zn-65	<6.77E+01	0.00E+00	6.77E+01
			Zr-95	<4.27E+01	0.00E+00	4.27E+01
			Nb-95	<2.93E+01	0.00E+00	2.93E+01
			I-131	<2.92E+01	0.00E+00	2.92E+01
			Cs-134	<2.88E+01	0.00E+00	2.88E+01
			Cs-137	<2.68E+01	0.00E+00	2.68E+01
			BaLa-140	<2.05E+01	0.00E+00	2.05E+01
			Be-7	2.66E+03	4.18E+02	2.97E+02
			K-40	3.11E+03	5.95E+02	3.44E+02
Sample Point 079 [INDICATOR - NE @ 0.56 miles]						
Sample ID: 275259	Sample Dates: 1/6/2014 - 1/6/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<4.74E+01	0.00E+00	4.74E+01
			Cs-134	<3.86E+01	0.00E+00	3.86E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID: 275259	Sample Dates: 1/6/2014 - 1/6/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			Cs-137	<5.76E+01		
			Be-7	7.66E+02		
			K-40	2.31E+03		
Sample ID: 279585	Sample Dates: 2/3/2014 - 2/3/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<5.52E+01		
			Cs-134	<2.79E+01		
			Cs-137	<4.29E+01		
			Be-7	8.54E+02		
Sample ID: 281222	Sample Dates: 3/3/2014 - 3/3/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<5.74E+01		
			Cs-134	<4.37E+01		
			Cs-137	<5.35E+01		
			Be-7	<5.21E+02		
Sample ID: 284402	Sample Dates: 4/7/2014 - 4/7/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<2.77E+01		
			Cs-134	<2.82E+01		
			Cs-137	<2.62E+01		
			Be-7	3.96E+02		
Sample ID: 287039	Sample Dates: 5/5/2014 - 5/5/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<2.39E+01		
			Cs-134	<1.77E+01		
			Cs-137	<2.63E+01		
			Be-7	4.11E+02		
Sample ID: 289840	Sample Dates: 6/2/2014 - 6/2/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<2.87E+01		
			Cs-134	<2.63E+01		
			Cs-137	<2.91E+01		
			Be-7	5.20E+02		
Sample ID: 294844	Sample Dates: 7/7/2014 - 7/7/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			K-40	2.96E+03		
			Mn-54	<1.60E+01		
			Co-58	<1.84E+01		
			Fe-59	<3.99E+01		
			Co-60	<1.69E+01		
			Zn-65	<3.48E+01		
			Zr-95	<3.13E+01		
			Nb-95	<1.98E+01		
			I-131	<4.79E+01		
			Cs-134	<1.30E+01		
			Cs-137	<1.54E+01		
			BaLa-140	<2.78E+01		
			Be-7	4.11E+02		
			K-40	3.73E+03		
Sample ID: 296612	Sample Dates: 8/4/2014 - 8/4/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			Mn-54	<1.53E+01		
			Co-58	<1.67E+01		
			Fe-59	<3.29E+01		
			Co-60	<2.01E+01		
			Zn-65	<4.84E+01		
			Zr-95	<3.34E+01		
			Nb-95	<1.80E+01		
			I-131	<2.69E+01		
			Cs-134	<1.59E+01		
			Cs-137	<1.67E+01		
			BaLa-140	<3.42E+01		
			Be-7	3.85E+02		

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 079 [INDICATOR - NE @ 0.56 miles]

Sample ID:	296612	Sample Dates:	8/4/2014 - 8/4/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					K-40	4.09E+03	6.12E+02	5.18E+02
Sample ID:	354457	Sample Dates:	9/2/2014 - 9/2/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<3.51E+01	0.00E+00	3.51E+01
					Co-58	<3.49E+01	0.00E+00	3.49E+01
					Fe-59	<6.18E+01	0.00E+00	6.18E+01
					Co-60	<3.46E+01	0.00E+00	3.46E+01
					Zn-65	<8.64E+01	0.00E+00	8.64E+01
					Zr-95	<5.41E+01	0.00E+00	5.41E+01
					Nb-95	<3.39E+01	0.00E+00	3.39E+01
					I-131	<3.39E+01	0.00E+00	3.39E+01
					Cs-134	<4.06E+01	0.00E+00	4.06E+01
					Cs-137	<3.03E+01	0.00E+00	3.03E+01
					BaLa-140	<2.61E+01	0.00E+00	2.61E+01
					Be-7	6.41E+02	2.35E+02	2.82E+02
					K-40	3.05E+03	6.93E+02	5.69E+02
Sample ID:	357060	Sample Dates:	10/6/2014 - 10/6/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<3.89E+01	0.00E+00	3.89E+01
					Co-58	<3.27E+01	0.00E+00	3.27E+01
					Fe-59	<6.17E+01	0.00E+00	6.17E+01
					Co-60	<3.60E+01	0.00E+00	3.60E+01
					Zn-65	<9.11E+01	0.00E+00	9.11E+01
					Zr-95	<5.67E+01	0.00E+00	5.67E+01
					Nb-95	<3.63E+01	0.00E+00	3.63E+01
					I-131	<3.83E+01	0.00E+00	3.83E+01
					Cs-134	<4.36E+01	0.00E+00	4.36E+01
					Cs-137	<3.17E+01	0.00E+00	3.17E+01
					BaLa-140	<3.75E+01	0.00E+00	3.75E+01
					Be-7	1.03E+03	3.07E+02	3.33E+02
					K-40	3.56E+03	7.72E+02	5.42E+02
Sample ID:	360041	Sample Dates:	11/3/2014 - 11/3/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<4.47E+01	0.00E+00	4.47E+01
					Co-58	<4.87E+01	0.00E+00	4.87E+01
					Fe-59	<8.06E+01	0.00E+00	8.06E+01
					Co-60	<4.57E+01	0.00E+00	4.57E+01
					Zn-65	<1.01E+02	0.00E+00	1.01E+02
					Zr-95	<6.77E+01	0.00E+00	6.77E+01
					Nb-95	<4.25E+01	0.00E+00	4.25E+01
					I-131	<4.08E+01	0.00E+00	4.08E+01
					Cs-134	<4.44E+01	0.00E+00	4.44E+01
					Cs-137	<4.62E+01	0.00E+00	4.62E+01
					BaLa-140	<4.16E+01	0.00E+00	4.16E+01
					Be-7	7.30E+02	4.54E+02	6.98E+02
					K-40	2.97E+03	8.04E+02	7.70E+02
Sample ID:	362794	Sample Dates:	12/1/2014 - 12/1/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<1.18E+01	0.00E+00	1.18E+01
					Co-58	<1.18E+01	0.00E+00	1.18E+01
					Fe-59	<2.86E+01	0.00E+00	2.86E+01
					Co-60	<1.30E+01	0.00E+00	1.30E+01
					Zn-65	<2.73E+01	0.00E+00	2.73E+01
					Zr-95	<2.26E+01	0.00E+00	2.26E+01
					Nb-95	<1.43E+01	0.00E+00	1.43E+01
					I-131	<4.77E+01	0.00E+00	4.77E+01
					Cs-134	<1.26E+01	0.00E+00	1.26E+01
					Cs-137	<1.28E+01	0.00E+00	1.28E+01
					BaLa-140	<2.86E+01	0.00E+00	2.86E+01
					Be-7	1.12E+03	1.63E+02	1.55E+02
					K-40	3.31E+03	3.73E+02	2.20E+02
Sample Point 081 [CONTROL - SE @ 9.33 miles]								
Sample ID:	275260	Sample Dates:	1/6/2014 - 1/6/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					I-131	<4.34E+01	0.00E+00	4.34E+01
					Cs-134	<2.72E+01	0.00E+00	2.72E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID: 275260	Sample Dates: 1/6/2014 - 1/6/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			Cs-137	<4.33E+01		
			Be-7	3.76E+02		
			K-40	4.57E+03		
Sample ID: 279586	Sample Dates: 2/3/2014 - 2/3/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<3.43E+01		
			Cs-134	<3.27E+01		
			Cs-137	<4.42E+01		
			Be-7	4.19E+02		
Sample ID: 281223	Sample Dates: 3/3/2014 - 3/3/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<5.06E+01		
			Cs-134	<4.93E+01		
			Cs-137	<6.36E+01		
			Be-7	<5.24E+02		
Sample ID: 284403	Sample Dates: 4/7/2014 - 4/7/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<4.84E+01		
			Cs-134	<4.55E+01		
			Cs-137	<5.26E+01		
			Be-7	<5.14E+02		
Sample ID: 287040	Sample Dates: 5/5/2014 - 5/5/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<4.08E+01		
			Cs-134	<3.66E+01		
			Cs-137	<5.85E+01		
			Be-7	6.12E+02		
Sample ID: 289841	Sample Dates: 6/2/2014 - 6/2/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<4.81E+01		
			Cs-134	<4.32E+01		
			Cs-137	<4.43E+01		
			Be-7	2.39E+02		
Sample ID: 294845	Sample Dates: 7/7/2014 - 7/7/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			K-40	3.90E+03		
			I-131	<4.81E+01		
			Cs-134	<4.32E+01		
			Cs-137	<4.43E+01		
			Be-7	2.39E+02		
			K-40	4.70E+03		
			Mn-54	<2.22E+01		
			Co-58	<1.95E+01		
			Fe-59	<5.70E+01		
			Co-60	<2.61E+01		
			Zn-65	<5.42E+01		
			Zr-95	<4.25E+01		
			Nb-95	<2.67E+01		
Sample ID: 296613	Sample Dates: 8/4/2014 - 8/4/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<4.78E+01		
			Cs-134	<1.29E+01		
			Cs-137	<2.00E+01		
			BaLa-140	<3.91E+01		
			Be-7	6.87E+02		
			K-40	3.51E+03		
			Mn-54	<2.29E+01		
			Co-58	<2.67E+01		
			Fe-59	<5.45E+01		
			Co-60	<3.18E+01	Sigma Error ¹	LLD
			Zn-65	<6.07E+01		
			Zr-95	<3.34E+01		
			Nb-95	<2.59E+01		
			I-131	<2.34E+01		
			Cs-134	<2.43E+01		
			Cs-137	<2.32E+01		
			BaLa-140	<3.53E+01		
			Be-7	2.11E+03		

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 081 [CONTROL - SE @ 9.33 miles]

Sample ID:	296613	Sample Dates:	8/4/2014 - 8/4/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					K-40	5.24E+03	8.15E+02	4.35E+02
Sample ID:	354458	Sample Dates:	9/2/2014 - 9/2/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<4.65E+01	0.00E+00	4.65E+01
					Co-58	<3.35E+01	0.00E+00	3.35E+01
					Fe-59	<5.52E+01	0.00E+00	5.52E+01
					Co-60	<5.78E+01	0.00E+00	5.78E+01
					Zn-65	<7.95E+01	0.00E+00	7.95E+01
					Zr-95	<8.30E+01	0.00E+00	8.30E+01
					Nb-95	<3.49E+01	0.00E+00	3.49E+01
					I-131	<3.48E+01	0.00E+00	3.48E+01
					Cs-134	<4.55E+01	0.00E+00	4.55E+01
					Cs-137	<3.20E+01	0.00E+00	3.20E+01
					BaLa-140	<4.93E+01	0.00E+00	4.93E+01
					Be-7	2.32E+03	4.81E+02	4.08E+02
					K-40	5.13E+03	1.01E+03	3.99E+02
Sample ID:	357061	Sample Dates:	10/6/2014 - 10/6/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<4.69E+01	0.00E+00	4.69E+01
					Co-58	<3.63E+01	0.00E+00	3.63E+01
					Fe-59	<8.14E+01	0.00E+00	8.14E+01
					Co-60	<3.91E+01	0.00E+00	3.91E+01
					Zn-65	<9.68E+01	0.00E+00	9.68E+01
					Zr-95	<7.37E+01	0.00E+00	7.37E+01
					Nb-95	<4.05E+01	0.00E+00	4.05E+01
					I-131	<4.53E+01	0.00E+00	4.53E+01
					Cs-134	<4.62E+01	0.00E+00	4.62E+01
					Cs-137	<4.75E+01	0.00E+00	4.75E+01
					BaLa-140	<4.66E+01	0.00E+00	4.66E+01
					Be-7	1.69E+03	4.14E+02	4.64E+02
					K-40	4.80E+03	9.13E+02	5.86E+02
Sample ID:	360042	Sample Dates:	11/3/2014 - 11/3/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<2.15E+01	0.00E+00	2.15E+01
					Co-58	<1.76E+01	0.00E+00	1.76E+01
					Fe-59	<3.66E+01	0.00E+00	3.66E+01
					Co-60	<2.58E+01	0.00E+00	2.58E+01
					Zn-65	<5.72E+01	0.00E+00	5.72E+01
					Zr-95	<3.69E+01	0.00E+00	3.69E+01
					Nb-95	<1.82E+01	0.00E+00	1.82E+01
					I-131	<1.75E+01	0.00E+00	1.75E+01
					Cs-134	<3.15E+01	0.00E+00	3.15E+01
					Cs-137	<2.09E+01	0.00E+00	2.09E+01
					BaLa-140	<2.71E+01	0.00E+00	2.71E+01
					Be-7	1.33E+03	2.77E+02	2.48E+02
					K-40	2.58E+03	5.31E+02	3.42E+02
Sample ID:	362795	Sample Dates:	12/1/2014 - 12/1/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<1.76E+01	0.00E+00	1.76E+01
					Co-58	<2.13E+01	0.00E+00	2.13E+01
					Fe-59	<4.88E+01	0.00E+00	4.88E+01
					Co-60	<2.24E+01	0.00E+00	2.24E+01
					Zn-65	<5.61E+01	0.00E+00	5.61E+01
					Zr-95	<4.09E+01	0.00E+00	4.09E+01
					Nb-95	<2.57E+01	0.00E+00	2.57E+01
					I-131	<2.42E+01	0.00E+00	2.42E+01
					Cs-134	<3.36E+01	0.00E+00	3.36E+01
					Cs-137	<2.36E+01	0.00E+00	2.36E+01
					BaLa-140	<2.17E+01	0.00E+00	2.17E+01
					Be-7	1.12E+03	2.44E+02	2.37E+02
					K-40	3.16E+03	5.45E+02	2.20E+02
Sample Point 084 [INDICATOR - NNE @ 2.58 miles]								
Sample ID:	275261	Sample Dates:	1/6/2014 - 1/6/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					I-131	<3.14E+01	0.00E+00	3.14E+01
					Cs-134	<2.39E+01	0.00E+00	2.39E+01

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID: 275261	Sample Dates: 1/6/2014 - 1/6/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			Cs-137	<2.82E+01		
			Be-7	4.53E+03		
			K-40	2.03E+03		
Sample ID: 279587	Sample Dates: 2/3/2014 - 2/3/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<2.23E+01		
			Cs-134	<2.22E+01		
			Cs-137	<1.99E+01		
			Be-7	1.40E+03		
Sample ID: 281224	Sample Dates: 3/3/2014 - 3/3/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<2.27E+01		
			Cs-134	<2.29E+01		
			Cs-137	<2.90E+01		
			Be-7	2.70E+03		
Sample ID: 284405	Sample Dates: 4/7/2014 - 4/7/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<3.74E+01		
			Cs-134	<3.67E+01		
			Cs-137	<4.50E+01		
			Be-7	2.18E+03		
Sample ID: 287042	Sample Dates: 5/5/2014 - 5/5/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<3.33E+01		
			Cs-134	<3.17E+01		
			Cs-137	<3.14E+01		
			Be-7	2.90E+02		
Sample ID: 289843	Sample Dates: 6/2/2014 - 6/2/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			I-131	<5.83E+01		
			Cs-134	<4.79E+01		
			Cs-137	<5.14E+01		
			Be-7	4.58E+02		
Sample ID: 294847	Sample Dates: 7/7/2014 - 7/7/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			K-40	3.62E+03		
			Mn-54	<1.48E+01		
			Co-58	<1.48E+01		
			Fe-59	<3.94E+01		
			Co-60	<1.65E+01		
			Zn-65	<3.43E+01		
			Zr-95	<2.85E+01		
			Nb-95	<1.60E+01		
			I-131	<4.11E+01		
			Cs-134	<1.12E+01		
			Cs-137	<1.53E+01		
			BaLa-140	<2.46E+01		
			Be-7	7.01E+02		
			K-40	2.74E+03		
Sample ID: 296615	Sample Dates: 8/4/2014 - 8/4/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
			Mn-54	<4.21E+01		
			Co-58	<4.50E+01		
			Fe-59	<1.04E+02		
			Co-60	<6.77E+01		
			Zn-65	<7.67E+01		
			Zr-95	<1.49E+01		
			Nb-95	<3.32E+01		
			I-131	<3.70E+01		
			Cs-134	<4.11E+01		
			Cs-137	<5.96E+01		
			BaLa-140	<6.09E+01		
			Be-7	1.12E+03		

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



OCONEE Radiological Environmental Monitoring Analysis Report - 2014 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 084 [INDICATOR - NNE @ 2.58 miles]

Sample ID:	296615	Sample Dates:	8/4/2014 - 8/4/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					K-40	2.34E+03	7.79E+02	6.91E+02
Sample ID:	354459	Sample Dates:	9/2/2014 - 9/2/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<1.46E+01	0.00E+00	1.46E+01
					Co-58	<1.55E+01	0.00E+00	1.55E+01
					Fe-59	<3.39E+01	0.00E+00	3.39E+01
					Co-60	<1.53E+01	0.00E+00	1.53E+01
					Zn-65	<3.65E+01	0.00E+00	3.65E+01
					Zr-95	<2.93E+01	0.00E+00	2.93E+01
					Nb-95	<1.89E+01	0.00E+00	1.89E+01
					I-131	<4.41E+01	0.00E+00	4.41E+01
					Cs-134	<1.96E+01	0.00E+00	1.96E+01
					Cs-137	<1.39E+01	0.00E+00	1.39E+01
					BaLa-140	<3.15E+01	0.00E+00	3.15E+01
					Be-7	3.00E+02	1.46E+02	2.26E+02
					K-40	2.24E+03	3.94E+02	4.52E+02
Sample ID:	357062	Sample Dates:	10/6/2014 - 10/6/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<2.09E+01	0.00E+00	2.09E+01
					Co-58	<2.24E+01	0.00E+00	2.24E+01
					Fe-59	<5.49E+01	0.00E+00	5.49E+01
					Co-60	<3.06E+01	0.00E+00	3.06E+01
					Zn-65	<5.42E+01	0.00E+00	5.42E+01
					Zr-95	<4.52E+01	0.00E+00	4.52E+01
					Nb-95	<2.99E+01	0.00E+00	2.99E+01
					I-131	<4.71E+01	0.00E+00	4.71E+01
					Cs-134	<2.74E+01	0.00E+00	2.74E+01
					Cs-137	<2.72E+01	0.00E+00	2.72E+01
					BaLa-140	<4.61E+01	0.00E+00	4.61E+01
					Be-7	1.21E+03	3.18E+02	4.33E+02
					K-40	3.04E+03	4.91E+02	3.74E+02
Sample ID:	360043	Sample Dates:	11/3/2014 - 11/3/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<1.73E+01	0.00E+00	1.73E+01
					Co-58	<1.46E+01	0.00E+00	1.46E+01
					Fe-59	<2.71E+01	0.00E+00	2.71E+01
					Co-60	<1.46E+01	0.00E+00	1.46E+01
					Zn-65	<3.17E+01	0.00E+00	3.17E+01
					Zr-95	<2.53E+01	0.00E+00	2.53E+01
					Nb-95	<1.63E+01	0.00E+00	1.63E+01
					I-131	<1.37E+01	0.00E+00	1.37E+01
					Cs-134	<2.09E+01	0.00E+00	2.09E+01
					Cs-137	<1.56E+01	0.00E+00	1.56E+01
					BaLa-140	<1.71E+01	0.00E+00	1.71E+01
					Be-7	1.83E+03	2.48E+02	1.92E+02
					K-40	2.78E+03	3.89E+02	2.53E+02
Sample ID:	362796	Sample Dates:	12/1/2014 - 12/1/2014	MIXEDBLV	Nuclide	Activity	Sigma Error ¹	LLD
					Mn-54	<2.16E+01	0.00E+00	2.16E+01
					Co-58	<1.74E+01	0.00E+00	1.74E+01
					Fe-59	<4.49E+01	0.00E+00	4.49E+01
					Co-60	<3.01E+01	0.00E+00	3.01E+01
					Zn-65	<6.32E+01	0.00E+00	6.32E+01
					Zr-95	<3.57E+01	0.00E+00	3.57E+01
					Nb-95	<1.91E+01	0.00E+00	1.91E+01
					I-131	<2.01E+01	0.00E+00	2.01E+01
					Cs-134	<1.67E+01	0.00E+00	1.67E+01
					Cs-137	<2.25E+01	0.00E+00	2.25E+01
					BaLa-140	<2.29E+01	0.00E+00	2.29E+01
					Be-7	3.22E+03	4.32E+02	1.73E+02
					K-40	2.69E+03	5.51E+02	4.48E+02

(1) Effective 10JUL2014, analytical samples indicating detectable activity are reported with 2 Sigma error.



APPENDIX F

**ERRATA TO
PREVIOUS REPORTS**

APPENDIX F

ERRATA TO THE 2014 AREOR

Oconee AREORs: 2009, 2011, and 2013

Report titled "Environmental TLD Dose Report" used by the Dosimetry Laboratory to communicate final TLD results was found to have an error in the calculation of dose per standard quarter. The error would have existed since the report's first use for 2nd quarter 2009 and only applies to quarters where date ranges were other than a standard quarter (not equal to 91 days). Oconee environmental TLD data were evaluated and it was determined the quarters affected were Oconee 3Q2009, Oconee 1Q2011, and Oconee 1Q2013. Oconee environmental TLD results were updated during 2015 in the EnRad Sample Manager database to indicate the corrected dose per standard quarter values derived from the new Dosimetry Laboratory reporting mechanism. (PIP G-14-02451).

2009 Oconee AREOR entities affected:

- Section 3.8, Figure 3.8
- Section 3.8, Table 3.8
- 2009 inner ring average updated from 83.7 mR/yr to 85.1 mR/yr
- 2009 outer ring average updated from 93.0 mR/yr to 94.5 mR/yr
- 2009 control average updated from 110 mR/yr to 112 mR/yr

2009 Appendix B, Direct Radiation TLD section

2009 TLD Appendix B section as originally reported

All Indicator Locations	Location with Highest Annual Mean		Control Location
Mean (Fraction) Range	Location Code	Mean (Fraction) Range	Mean (Fraction) Range
22.3 (160 / 160)	042	27.5 (4 / 4)	27.5 (8 / 8)
13.9 – 30.9	(4.93 mi SE)	23.2 – 30.7	20.4 – 34.8

Updated 2009 TLD Appendix B section

All Indicator Locations	Location with Highest Annual Mean		Control Location
Mean (Fraction) Range	Location Code	Mean (Fraction) Range	Mean (Fraction) Range
22.6 (160 / 160)	042	28.0 (4 / 4)	28.0 (8 / 8)
15.0 – 30.9	(4.93 mi SE)	25.1 – 30.7	22.0 – 34.8

2011 Oconee AREOR entities affected:

- Section 3.8, Figure 3.8-1, Figure 3.8-2, Figure 3.8-3
- Section 3.8, Table 3.8-A, Table 3.8-B, Table 3.8-C
- 2011 inner ring average updated from 83.7 mR/yr to 83.8 mR/yr
- 2011 outer ring average updated from 94.0 mR/yr to 93.8 mR/yr
- 2011 control average updated from 111 mR/yr to 111 mR/yr

2011 Appendix B, Direct Radiation TLD section

2011 TLD Appendix B section as originally reported

All Indicator Locations	Location with Highest Annual Mean		Control Location
Mean (Fraction) Range	Location Code	Mean (Fraction) Range	Mean (Fraction) Range
22.4 (160 / 160)	048	28.0 (4 / 4)	27.8 (8 / 8)
12.0 – 32.0	(3.64 mi W)	25.0 – 32.0	20.0 – 37.0

Updated 2011 TLD Appendix B section

All Indicator Locations	Location with Highest Annual Mean		Control Location
Mean (Fraction) Range	Location Code	Mean (Fraction) Range	Mean (Fraction) Range
22.4 (160 / 160)	048	28.0 (4 / 4)	27.7 (8 / 8)
12.0 – 32.1	(3.64 mi W)	25.0 – 31.8	20.0 – 36.8

2013 Oconee AREOR entities affected:

- Section 3.8, Figure 3.8
- Section 3.8, Table 3.8
- 2013 inner ring average updated from 80.7 mR/yr to 82.4 mR/yr
- 2013 outer ring average updated from 91.0 mR/yr to 93.0 mR/yr
- 2013 control average updated from 110 mR/yr to 112 mR/yr

2013 Appendix B, Direct Radiation TLD section

2013 TLD Appendix B section as originally reported

All Indicator Locations	Location with Highest Annual Mean		Control Location
Mean (Fraction) Range	Location Code	Mean (Fraction) Range	Mean (Fraction) Range
21.7 (159 / 159)	040	27.6 (3 / 3)	27.5 (8 / 8)
14.0 – 29.7	(4.74 mi E)	26.0 – 29.7	21.0 – 35.3

Updated 2013 TLD Appendix B section

All Indicator Locations	Location with Highest Annual Mean		Control Location
Mean (Fraction) Range	Location Code	Mean (Fraction) Range	Mean (Fraction) Range
22.1 (159 / 159)	040	28.3 (3 / 3)	28.1 (8 / 8)
14.0 – 31.9	(4.74 mi E)	26.0 – 31.9	21.0 – 38.1