NRC FORM 195 (2-76)

U.S. NUCLEAR REGULATORY COMMISSION

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

DOCKET NUMBER: 50-269/270/287

FILE NUMBER:

TO:
Mr. A. Schwencer

FROM:
Duke Power Company
Charlotte, North Carolina
William O. Parker

DATE OF DOCUMENT: 6/14/77

DATE RECEIVED: 6/20/77

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DESCRIPTION

RE LTR 4-18-77

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ACKNOWLEDGED (1-P)

ENCLOSURE

Consists of information related to equilibrium & transient iodine activity for the period March, 1976 to March, 1977..

(17-P)

PLANT NAME: Oconee Units 1-2-3

RJL 6/20/77

FOR ACTION/INFORMATION

SAFETY		ENVIRONMENTAL	
ASSIGNED AD:		ASSIGNED AD:	V. MOORE (LTR)
BRANCH CHIEF:	Schwencer(5)	BRANCH CHIEF:	
PROJECT MANAGER:	Neighbors	PROJECT MANAGER:	
LICENSING ASSISTANT:	Sheppard	LICENSING ASSISTANT:	
			B. HARLESS

INTERNAL DISTRIBUTION

REG FILES	SYSTEMS SAFETY	PLANT SYSTEMS	SITE SAFETY &
NRC PDR	HEINEMAN	TEDESCO	ENVIRON ANALYSIS
I & E (2)	SCHROEDER	BENAROYA	DENTON & MULLER
OELD		LAINAS	CRUTCHFIELD
GOSSICK & STAFF	ENGINEERING	IPPOLITO	
HANAUER	KNIGHT	F. ROSA	ENVIRO TECH.
MIPC	BOSNAK		ERNST
CASE	SIHWELL	OPERATING REACTORS	BALLARD
BOYD	PAWLICKI	STELLO	YOUNGBLOOD
		EISENHUT	
PROJECT MANAGEMENT	REACTOR SAFETY	SHAO	~~SITE TECH.~~
SKOVHOLT	ROSS	BAER	
P. COLLINS	NOVAK	BUTLER	GAMMILL (2)
HOUSTON	ROSZTOCZY	GRIMES	
MELTZ	CHECK		SITE ANALYSIS
HELTEMES			VOLLMER
SK	AT&I		BUNCH
	SALTZMAN		J. COLLINS
	RUTBERG		KREGER

EXTERNAL DISTRIBUTION

LPDR: Walhalla SC		
TIC	NSIC	
NAT LAB		
REG IV (J. HANCHETT)		
16 CYS ACRS SENT CATEGORY B		

CONTROL NUMBER

771710068

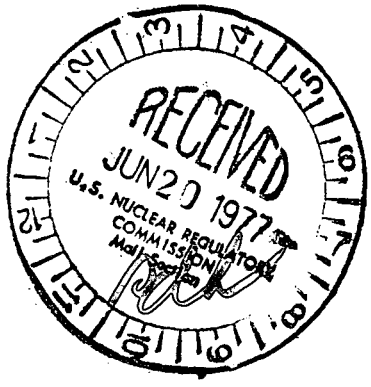
NRC FORM 195 (2-76)

DUKE POWER COMPANY
POWER BUILDING
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

June 14, 1977

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083



Mr. A. Schwencer, Chief
Operating Reactor Branch #1
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

RE: Oconee Nuclear Station
Docket Nos. -269, -270, -287

Dear Mr. Schwencer:

As requested by your letter of April 18, 1977, please find attached information related to equilibrium and transient iodine activity at Oconee Nuclear Station for the period March, 1976 to March, 1977.

Very truly yours,

W. O. Parker, Jr.

William O. Parker, Jr. By

WOP/jm

cc: Mr. R. T. Bond
Mr. J. E. Smith
Mr. R. F. Wardell
Mr. R. B. Thompson
Mr. W. A. Haller
Mr. C. T. Yongue
Master File: OS 801.03
Section File: OS 801.03
Mr. H. B. Tucker
Mr. K. S. Canady
Mr. D. C. Holt
Mr. M. S. Tuckman
Mr. Lionel Lewis

OCONEE NUCLEAR STATION

EQUILIBRIUM AND TRANSIENT IODINE ACTIVITY

EXPLANATORY NOTES

1.0 Date - Date transient occurred.

2.0 Percent Power - Net power changes in excess of 25%. Length of time over which power change occurred is not qualified due to the relative inaccessibility of this data.

3.0 Isotope - Isotopes as requested.

4.0 Concentration - Expressed as microcuries per milliliter.

4.1 First and second columns are measurements taken prior to transient.

4.2 Third column is measurement of transient peak.

4.3 Fourth column is measurement of post-transient equilibrium.

5.0 Measurements were not reported if they were less than 10^{-3} microcuries per milliliter or were not taken based on previously indicated activity levels.

6.0 Units that operated at constant power level for entire month experienced no transients.

7.0 Units that were out of service for the entire month experienced no transients.

OCONEE NUCLEAR STATION

UNIT NO. 1

1. 100% Reactor Thermal Power = 2568 MWE
2. RC System Cleanup Flowrate = 70 GPM
3. RC System Temperature = 532°F
4. RC System Pressure = 2155 PSI

DATE	% POWER	ISOTOPE	RC SYSTEM ACTIVITY CONCENTRATION µCi/Ml			
3-23-77	100	I-131	5.5×10^{-1}	0.30	0.42	0.30
	down	I-133	0.18	0.55	0.35	0.12
		Xe-133	1.40	1.35	1.75	0.10
		Xe-135	0.37	0.82	0.57	0.13
3-13-77	100	I-131	6.4×10^{-1}	0.28	0.12	4.4×10^{-1}
	up	I-133		$<10^{-3}$		
		Xe-133	0.62	0.90	1.20	0.62
		Xe-135	0.60	0.70	0.75	0.37
2-28-77	100	I-131	0.10	1.90	0.95	0.65
	down	I-133	0.25	1.50	0.38	0.14
		Xe-133	2.70	2.20	3.70	3.0
		Xe-135	0.80	0.90	0.70	0.40
2- 8-77	100	I-131	0.17	0.32	0.35	0.19
	up	I-133	3×10^{-2}	3.6×10^{-1}	8.5×10^{-1}	5×10^{-1}
		Xe-133	0.36	0.50	0.80	0.14
		Xe-135	0.62	0.78	0.90	0.14
2- 1-77	100	I-131	4.3×10^{-1}	0.25	0.37	0.27
	down	I-133	0.17	0.55	0.34	0.12
		Xe-133	1.20	1.70	1.30	0.90
		Xe-135	0.90	0.85	0.75	0.65

OCONEE NUCLEAR STATION

UNIT NO. 1

DATE	% POWER	ISOTOPE	RC SYSTEM ACTIVITY CONCENTRATION µCi/Ml			
1-26-77	100	I-131	0.11	5.8×10^{-1}	4.7×10^{-1}	3.4×10^{-1}
	Up	I-133	7.8×10^{-1}	0.10	0.13	0.14
		Xe-133	0.33	0.64	1.20	0.70
		Xe-135	0.59	0.90	0.88	0.75
1-16-77	100	I-131	9.0×10^{-1}	0.98	1.09	0.95
	down	I-133	0.16	0.65	0.60	0.48
		Xe-133	3.20	3.20	3.50	2.40
		Xe-135	0.90	0.92	0.40	0.30
12-23-76	30	I-131	1.3×10^{-1}	1.6×10^{-1}	1.8×10^{-1}	2.3×10^{-1}
	Up	I-133	0.11	0.13	0.12	
		Xe-133	0.40	0.66	0.95	0.87
		Xe-135	0.82	0.81	0.88	0.62
12-22-76	70	I-131	3.2×10^{-2}	2.3×10^{-1}	1.6×10^{-1}	9.0×10^{-2}
	Up	I-133	8.7×10^{-1}	0.12	0.22	0.11
		Xe-133	1×10^{-2}	0.95×10^{-2}	2×10^{-1}	1.5×10^{-1}
		Xe-135	6×10^{-1}	6×10^{-1}	0.82	
12- 8-76	100	I-131	3×10^{-1}	7×10^{-1}	4×10^{-1}	2×10^{-1}
	down	I-133	4×10^{-1}	8×10^{-1}	0.10	3×10^{-1}
		Xe-133	3.8×10^{-2}	0.02	0.9×10^{-1}	
		Xe-135	4×10^{-2}	3×10^{-1}	0.15	3×10^{-1}
12- 7-76	100	I-131	7×10^{-1}	2×10^{-1}	1×10^{-1}	
	down	I-133		$<10^{-3}$		
		Xe-133	7×10^{-1}	0.13	4×10^{-1}	3×10^{-1}
		Xe-135		$<10^{-3}$		

OCONEE NUCLEAR STATION

UNIT NO. 1

DATE	% POWER	ISOTOPE	RC SYSTEM ACTIVITY CONCENTRATION µCi/Ml			
11-18-76	100	I-131	4×10^{-1}	0.26	8×10^{-1}	
	down	I-133	0.15	0.46	7×10^{-1}	
		Xe-133	0.24	0.60	0.58	0.38
		Xe-135	0.65	0.80	0.23	3×10^{-1}
11-16-76	50	I-131	0.11			
	up	I-133		$<10^{-3}$		
		Xe-133		$<2 \times 10^{-1}$		
		Xe-135		$<10^{-3}$		
11-15-76	40	I-131	5×10^{-1}			
	up	I-133		$<10^{-3}$		
		Xe-133		$<2 \times 10^{-1}$		
		Xe-135		$<10^{-1}$		
10-31-76	100	I-131	0.19	0.46	0.49	0.38
	down	I-133	0.13	0.13	0.13	8×10^{-1}
		Xe-133	1.0	1.5	1.6	1.5×10^{-1}
		Xe-135	0.40	0.40	0.25	7×10^{-1}
10-26-76	100	I-131	8×10^{-1}	2.6	0.92	0.25
	down	I-133	0.11	2.0	0.55	0.14
		Xe-133	2.80	4.80	4.30	1.20
		Xe-135	0.85	0.97	1.00	0.85
10- 8-76	50	I-131	0.12	0.58	0.18	0.10
	down	I-133	0.14	0.22	0.24	0.13
		Xe-133	2.40	3.10	3.10	2.80
		Xe-135	0.78	0.80	0.90	0.61

OCONEE NUCLEAR STATION

UNIT NO. 1

DATE	% POWER	ISOTOPE	RC SYSTEM ACTIVITY CONCENTRATION μCi/Ml			
9- 5-76	55	I-131	8.5×10^{-1}	0.12	0.10	7×10^{-1}
	Up	I-133	0.16	0.25	0.18	7×10^{-1}
		Xe-133	1.80	2.30	1.80	
		Xe-135	0.80	0.88	0.68	
9- 4-76	100	I-131	6×10^{-1}	0.70	0.34	0.14
	down	I-133	0.12	0.96	0.23	0.13
		Xe-133	1.70	2.30	1.40	
		Xe-135	0.40	0.52	0.24	
8-29-76	50	I-131	9×10^{-1}	0.22	0.16	0.10
	down	I-133	0.12	0.35	0.18	0.15
		Xe-133	1.50	1.70	3.90	2.30
		Xe-135	0.58	0.54	1.20	0.54
8-14-76	75	I-131	9×10^{-1}	0.55	0.38	0.11
	down	I-133	9×10^{-1}	0.21	9×10^{-1}	
		Xe-133	0.90	0.95	1.20	1.00
		Xe-135	0.30	0.46	0.60	0.45
7-13-76	100	I-131	9×10^{-1}	0.38	0.12	9×10^{-1}
	down	I-133	0.23	0.51	0.23	0.18
		Xe-133	1.60	2.10	1.80	1.20
		Xe-135	0.33	0.50	0.41	0.30
7- 7-76	100	I-131	0.10	0.65	0.16	9×10^{-1}
	down	I-133	0.24	0.90	0.22	0.19
		Xe-133	1.80	2.20	2.10	1.40
		Xe-135	0.38	0.44	0.36	

OCONEE NUCLEAR STATION

UNIT NO. 1

DATE	% POWER	ISOTOPE	RC SYSTEM ACTIVITY CONCENTRATION µCi/Ml			
6-29-76	30	I-131	0.10	0.10	0.10	
	Up	I-133	0.25	0.23	0.25	
		Xe-133	1.50	2.80	1.40	
		Xe-135	0.43	0.36	0.55	
6-28-76	70	I-131	0.10	0.10		
	Up	I-133	0.25	0.27		
		Xe-133	0.45	1.80	1.70	
		Xe-135	0.13	0.41	0.41	
6-27-76	100	I-131	0.10	0.70	0.15	0.10
	down	I-133	0.30	1.0	0.25	0.26
		Xe-133	1.20	2.30	1.80	
		Xe-135	0.24	0.41	0.36	
6-22-76	90	I-131	0.11	0.10	0.10	
	Up	I-133	0.25	0.30	0.30	
		Xe-133	1.50	2.20	2.00	
		Xe-135	0.41	0.47	0.49	
6-21-76	100	I-131	0.12	0.36	0.20	0.11
	down	I-133	0.30	0.65	0.38	0.25
		Xe-133	2.60	2.80	1.50	
		Xe-135	0.38	0.55	0.41	
6 -9-76	90	I-131	8×10^{-1}	0.28	6×10^{-1}	
	Up	I-133	0.30	0.70	0.30	
		Xe-133	1.10	1.40	1.30	
		Xe-135	0.40	0.42	0.35	

OCONEE NUCLEAR STATION

UNIT NO. 1

DATE	% POWER	ISOTOPE	RC SYSTEM ACTIVITY CONCENTRATION µCi/Ml			
6- 8-76	100	I-131	8×10^{-1}	0.29	0.14	6.4×10^{-1}
	down	I-133	0.30	0.80	0.32	0.22
		Xe-133	0.41	0.90	0.82	
		Xe-135	0.28	0.37	0.18	
6-1-76	40	I-131	4.4×10^{-2}	4.5×10^{-2}	5.8×10^{-2}	
	Up	I-133		$<10^{-3}$		
		Xe-133	0.35	0.44	0.41	
		Xe-135	0.24	0.38	0.36	
5-31-76	40	I-131		$<10^{-3}$		
	Up	I-133		$<10^{-3}$		
		Xe-133		$<10^{-3}$		
		Xe-135		$<10^{-3}$		
4-18-76	70	I-131	1.4×10^{-2}	3.2×10^{-1}	1.8×10^{-1}	
	down	I-133	8.2×10^{-1}	9.0×10^{-1}	7.5×10^{-1}	
		Xe-133	0.21	0.32	0.30	
		Xe-135	0.13	0.17	8×10^{-1}	

NOTE: Unit did not operate during March, 1976

OCONEE NUCLEAR STATION

UNIT NO. 2

1. 100% Reactor Thermal Power = 2568 MWE
2. RC System Cleanup Flowrate = 70 GPM
3. RC System Temperature = 532°F
4. RC System Pressure = 2155 PSI

DATE	% POWER	ISOTOPE	RC SYSTEM ACTIVITY CONCENTRATION µCi/Ml			
3-29-77	65	I-131	0.38	0.37	0.33	0.31
	Up	I-133	0.55	0.43	0.45	
		Xe-133	10.3	7.63	8.80	7.00
		Xe-135	5.5	3.43	3.80	3.10
3-28-77	65	I-131	0.25	0.26	0.58	0.50
	down	I-133	0.48	0.78	0.66	0.63
		Xe-133	0.48	0.47	10.3	7.60
		Xe-135	2.60	2.70	5.50	3.40
3-24-77	80	I-131	0.26	0.25	0.26	
	Up	I-133	0.34	0.27	0.36	
		Xe-133	7.80	5.80	5.20	5.00
		Xe-135	2.50	2.30	1.90	1.90
3-23-77	100	I-131	0.27	6.20	1.20	0.47
	down	I-133	0.22	3.30	0.58	0.33
		Xe-133	6.80	4.70	9.50	7.80
		Xe-135	3.40	2.50	2.20	1.90
NOTE: Unit operated at 100% power February and January						
12-28-76	60	I-131	0.10	0.12	0.13	0.15
	Up	I-133	0.38	0.46	0.47	0.35
		Xe-133	0.14	0.95	0.95	1.2
		Xe-135	0.60	0.35	1.40	1.60

OCONEE NUCLEAR STATION

UNIT NO. 2

DATE	% POWER	ISOTOPE	RC SYSTEM ACTIVITY CONCENTRATION µCi/Ml			
12-27-76	100	I-131	0.12	0.77	0.18	0.10
	down	I-133	0.26	2.40	0.37	0.34
		Xe-133	4×10^{-1}	0.10	0.19	0.14
		Xe-135	$<10^{-2}$	0.40	0.60	0.35
12-25-76	70	I-131	0.47	1.20	0.30	0.12
	Up	I-133		$<10^{-2}$		
		Xe-133	4×10^{-1}	0.10	0.19	0.14
		Xe-135		$<10^{-2}$		
12- 5-76	100	I-131	0.31	5.00	3.50	3.52
	down	I-133	0.25	5.00	1.30	0.72
		Xe-133	4.5	9.3	8.6	1.7
		Xe-135	2.5	2.5	0.85	4.5×10^{-1}
NOTE: Unit operated at 100% power during November						
10-17-76	80	I-131	0.40	0.35	0.50	0.40
	Up	I-133	0.42	0.45	0.60	0.52
		Xe-133	6.8	4.7	2.4	
		Xe-135	0.92	1.3	1.4	
10-16-76	60	I-131	0.37	5.00	1.6	0.40
	down	I-133	0.14	1.40	0.30	0.33
		Xe-133	5.7	3.7	6.8	4.7
		Xe-135	1.4	0.85	0.92	1.3
10-13-76	40	I-131	0.50	0.60	0.92	0.68
	down	I-133	0.50	0.60	0.90	0.48
		Xe-133	3.7	4.6	5.0	4.4
		Xe-135	1.9	2.1	1.8	1.2

OCONEE NUCLEAR STATION

UNIT NO. 2

DATE	% POWER	RC SYSTEM ACTIVITY ISOTOPE	CONCENTRATION µCi/Ml			
10- 4-76	30	I-131	0.37	0.75	0.77	0.55
	Up	I-133	0.57	0.93	0.75	0.60
		Xe-133	5.8	7.2	3.6	5.6
		Xe-135	2.0	2.7	1.6	
10- 3-76	40	I-131	0.46	0.38	0.55	0.37
	down	I-133	0.70	0.56	0.90	0.57
		Xe-133	4.5	3.2	5.8	7.0
		Xe-135	2.2	1.5	2.0	2.7
9-19-76	40	I-131	0.50	0.49	0.65	0.65
	Up	I-133	0.85	0.85	0.75	0.75
		Xe-133	3.5	5.8	7.6	5.8
		Xe-135	1.7	2.1	2.0	1.8
9-18-76	40	I-131	0.50	0.49	0.65	0.65
	down	I-133	0.85	0.85	0.75	0.75
		Xe-133	3.5	5.8	7.6	5.8
		Xe-135	1.7	2.1	2.0	1.8
9-10-76	90	I-131	0.52	3.70	1.60	0.63
	Up	I-133	0.11	5.10	0.12	0.58
		Xe-133	3.6	6.5	4.6	4.0
		Xe-135	1.0	1.0	1.3	1.5
9- 8-76	100	I-131	0.52	3.70	1.60	0.63
	down	I-133	0.11	5.10	0.12	0.58
		Xe-133	4.7	3.6	6.5	4.6
		Xe-135	1.7	1.0	1.0	1.3

OCONEE NUCLEAR STATION

UNIT NO. 2

DATE	% POWER	ISOTOPE	RC SYSTEM ACTIVITY CONCENTRATION µCi/Ml			
8-30-76	90	I-131	2.00	0.65	0.48	0.42
	Up	I-133	1.20	0.77	0.85	0.85
		Xe-133	1.6	6.5	6.5	4.6
		Xe-135	0.20	1.4	1.4	1.6
8-29-76	90	I-131	0.42	0.42	0.50	8.50
	down	I-133	0.85	1.00	0.88	6.50
		Xe-133	5.8	5.1	6.2	1.6
		Xe-135	1.9	1.7	1.2	0.20
8- 4-76	60	I-131	0.52	1.10	0.58	
	Up	I-133	1.1×10^{-2}	1.0×10^{-2}	3.3×10^{-1}	
		Xe-133	0.62	0.45	0.58	0.68
		Xe-135	$<10^{-3}$	$<10^{-3}$	0.11	0.56
7-27-76	70	I-131	1.20	3.5×10^{-1}	8.5×10^{-1}	1.80
	down	I-133	3×10^{-1}	4.5×10^{-2}	6.2×10^{-2}	6.6×10^{-2}
		Xe-133	2.4	2.5	5.0	3.5
		Xe-135	0.58	0.61	0.13	1.8×10^{-1}
7-26-76	30	I-131	0.31	0.25	1.0	0.40
	down	I-133	0.98	0.52	1.4	0.20
		Xe-133	1.9	2.4	2.5	2.4
		Xe-135	.48	0.88	0.95	0.94
7-15-76	35	I-131	1.5×10^{-2}	1.2×10^{-2}	2.6×10^{-2}	
	Up	I-133	1.2×10^{-1}	1.0×10^{-1}	1.9×10^{-1}	
		Xe-133	1.8×10^{-1}	2.3×10^{-1}	5.1×10^{-1}	
		Xe-135	2.5×10^{-1}	4.8×10^{-1}	5.1×10^{-1}	

OCONEE NUCLEAR STATION

UNIT NO. 2

DATE	% POWER	ISOTOPE	RC SYSTEM ACTIVITY CONCENTRATION µCi/Ml			
7-13-76	40	I-131		$<10^{-3}$		
	Up	I-133	5.5×10^{-2}	3.7×10^{-1}	1.1×10^{-1}	
		Xe-133	$<10^{-3}$	7.8×10^{-2}	1.9×10^{-1}	
		Xe-135	1.3×10^{-2}	2.5×10^{-2}	5.0×10^{-1}	
7-12-76	25	I-131		$<10^{-3}$		
	down	I-133		$<10^{-3}$		
		Xe-133		$<10^{-3}$		
		Xe-135		$<10^{-3}$		
7-11-76	25	I-131		$<10^{-3}$		
	Up	I-133		$<10^{-3}$		
		Xe-133		$<10^{-3}$		
		Xe-135		$<10^{-3}$		

NOTE: Unit did not operate during June and May

4- 7-76	70	I-131	1.7×10^{-1}	1.6×10^{-1}	1.9	1.6
	down	I-133	1.3×10^{-1}	1.7×10^{-1}	1.2	4.2×10^{-1}
		Xe-133	0.90	0.90	1.3	0.65
		Xe-135	0.24	0.24	0.36	0.20
3-27-76	30	I-131	1.6×10^{-1}	1.8×10^{-1}	2.0×10^{-1}	1.5×10^{-1}
	down	I-133	2.2×10^{-1}	2.5×10^{-1}	2.9×10^{-1}	1.8×10^{-1}
		Xe-133	0.90	0.30	0.86	8.8×10^{-1}
		Xe-135	0.23	5.3×10^{-1}	0.13	1.6×10^{-1}

OCONEE NUCLEAR STATION

UNIT NO. 3

1. 100% Reactor Thermal Power = 2568 MWE
2. RC System Cleanup Flowrate = 70 GPM
3. RC System Temperature = 532°F
4. RC System Pressure = 2155 PSI

DATE	% POWER	ISOTOPE	RC SYSTEM ACTIVITY CONCENTRATION μCi/Ml			
3-17-76	70	I-131	1.5×10^{-2}	2.3×10^{-2}	1.2×10^{-1}	4.8×10^{-2}
	Up	I-133	1.6×10^{-2}	1.8×10^{-2}	1.4×10^{-1}	3.8×10^{-2}
		Xe-133	8.1×10^{-1}	8.0×10^{-1}	8.0×10^{-1}	6.9×10^{-1}
		Xe-135	1.5×10^{-1}	1.7×10^{-1}	1.8×10^{-1}	1.9×10^{-1}
3-16-77	100	I-131	1.5×10^{-2}	2.3×10^{-2}	1.2×10^{-1}	4.8×10^{-2}
	down	I-133	1.6×10^{-2}	1.8×10^{-2}	1.4×10^{-1}	3.8×10^{-2}
		Xe-133	2.8×10^{-1}	2.6×10^{-1}	1.20	8.2×10^{-1}
		Xe-135	1.1×10^{-1}	1.1×10^{-1}	2.7×10^{-1}	1.5×10^{-1}
2-26-77	50	I-131	1.6×10^{-2}		$<10^{-3}$	
	Up	I-133	4.0×10^{-2}		$<10^{-3}$	
		Xe-133	6.1×10^{-2}	7.9×10^{-2}	1×10^{-1}	9.1×10^{-2}
		Xe-135	$<10^{-3}$	4×10^{-2}	5.8×10^{-2}	$<10^{-3}$
2-14-77	100	I-131	$<10^{-3}$	1.8×10^{-1}	9×10^{-2}	$<10^{-3}$
	down	I-133	$<10^{-3}$	9×10^{-2}	1.7×10^{-2}	$<10^{-3}$
		Xe-133	3.4×10^{-2}	2.1×10^{-1}	4.9×10^{-1}	1.8×10^{-1}
		Xe-135	$<10^{-3}$	1.2×10^{-2}	3.5×10^{-2}	$<10^{-3}$

NOTE: Unit at 100% power during January and December

11-17-76	35	I-131		$<10^{-3}$	
	Up	I-133		$<10^{-3}$	
		Xe-133	1.6×10^{-2}	1.2×10^{-2}	$<10^{-3}$
		Xe-135		$<10^{-3}$	

OCONEE NUCLEAR STATION

UNIT NO. 3

DATE	% POWER	ISOTOPE	RC SYSTEM ACTIVITY CONCENTRATION μCi/Ml			
11-15-76	40	I-131		$<10^{-3}$		
	Up	I-133		$<10^{-3}$		
		Xe-133	1.4×10^{-2}	1.6×10^{-2}	1.2×10^{-2}	1.3×10^{-2}
		Xe-135		$<10^{-3}$		
11-14-76	40	I-131		$<10^{-3}$		
	down	I-133		$<10^{-3}$		
		Xe-133	1.8×10^{-2}	1.3×10^{-2}	1.6×10^{-2}	
		Xe-135		$<10^{-3}$		
11-13-76	40	I-131		$<10^{-3}$		
	Up	I-133		$<10^{-3}$		
		Xe-133		$<10^{-3}$		
		Xe-135		$<10^{-3}$		

NOTE: Unit did not operate during October

9-18-76	80	I-131		$<10^{-3}$		
	down	I-133		$<10^{-3}$		
		Xe-133	1.7×10^{-2}	1.4×10^{-2}	1.5×10^{-2}	
		Xe-135		$<10^{-3}$		
9-17-76	80	I-131		$<10^{-3}$		
	Up	I-133		$<10^{-3}$		
		Xe-133	1.6×10^{-2}	1.5×10^{-2}	1.7×10^{-2}	1.4×10^{-2}
		Xe-135		$<10^{-3}$		
9-16-76	45	I-131		$<10^{-3}$		
	down	I-133		$<10^{-3}$		
		Xe-133	1.4×10^{-2}	1.6×10^{-2}	1.5×10^{-2}	1.6×10^{-2}
		Xe-135		$<10^{-3}$		

OCONEE NUCLEAR STATION

UNIT NO. 3

DATE	% POWER	ISOTOPE	RC SYSTEM ACTIVITY CONCENTRATION µCi/Ml			
9-10-76	60 down	I-131		$<10^{-3}$		
		I-133		$<10^{-3}$		
		Xe-133	2×10^{-2}	2.5×10^{-2}	2.8×10^{-2}	2.5×10^{-2}
		Xe-135		$<10^{-3}$		
8-17-76	40 down	I-131		$<10^{-3}$		
		I-133		$<10^{-3}$		
		Xe-133		$<10^{-3}$		
		Xe-135		$<10^{-3}$		
8- 1-76	60 Up	I-131		$<10^{-3}$		
		I-133		$<10^{-3}$		
		Xe-133		$<10^{-3}$		
		Xe-135		$<10^{-3}$		
7-21-76	100 down	I-131		$<10^{-3}$		
		I-133		$<10^{-3}$		
		Xe-133		$<10^{-3}$		
		Xe-135		$<10^{-3}$		
7-12-76	80 Up	I-131		$<10^{-3}$		
		I-133		$<10^{-3}$		
		Xe-133		$<10^{-3}$		
		Xe-135		$<10^{-3}$		
7-11-76	80 down	I-131		$<10^{-3}$		
		I-133		$<10^{-3}$		
		Xe-133		$<10^{-3}$		
		Xe-135		$<10^{-3}$		

OCONEE NUCLEAR STATION

UNIT NO. 3

DATE	% POWER	RC SYSTEM ACTIVITY ISOTOPE	CONCENTRATION μCi/Ml
7- 9-76	80	I-131	$<10^{-3}$
	Up	I-133	$<10^{-3}$
		Xe-133	$<10^{-3}$
		Xe-135	$<10^{-3}$
7- 2-76	100	I-131	$<10^{-3}$
	down	I-133	$<10^{-3}$
		Xe-133	$<10^{-3}$
		Xe-135	$<10^{-3}$

NOTE: Unit at 100% power during June and May

4-23-76	35	I-131	$<10^{-3}$
	Up	I-133	$<10^{-3}$
		Xe-133	$<10^{-3}$
		Xe-135	$<10^{-3}$
4-22-76	35	I-131	$<10^{-3}$
	down	I-133	$<10^{-3}$
		Xe-133	$<10^{-3}$
		Xe-135	$<10^{-3}$
4-21-76	80	I-131	$<10^{-3}$
	UP	I-133	$<10^{-3}$
		Xe-133	$<10^{-3}$
		Xe-135	$<10^{-3}$
4-20-76	100	I-131	$<10^{-3}$
	down	I-133	$<10^{-3}$
		Xe-133	$<10^{-3}$
		Xe-135	$<10^{-3}$

OCONEE NUCLEAR STATION

UNIT NO. 3

DATE	% POWER	ISOTOPE	RC SYSTEM ACTIVITY CONCENTRATION μCi/Ml
4-17-76	80	I-131	$<10^{-3}$
	Up	I-133	$<10^{-3}$
		Xe-133	$<10^{-3}$
		Xe-135	$<10^{-3}$
3-20-76	100	I-131	$<10^{-3}$
	down	I-133	$<10^{-3}$
		Xe-133	$<10^{-3}$
		Xe-135	$<10^{-3}$