

OCONEE NUCLEAR STATION  
 RADIOACTIVE EFFLUENT RELEASES  
 DATE : 07/29/87

I. LIQUID RELEASES

	UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	YEAR : 1986 TOTAL
1. GROSS RADIOACTIVITY						
A. TOTAL RELEASE	CURIES	5.57E-01	3.37E-01	8.43E-01	1.28E+00	3.02E+00
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	1.08E-08	1.76E-09	4.18E-09	9.75E-09	5.24E-09
C. MAXIMUM CONCENTRATION RELEASED	UCI/ML	1.84E-07	5.74E-08	6.96E-08	2.60E-07	2.60E-07
2. TRITIUM						
A. TOTAL RELEASE	CURIES	3.51E+02	3.54E+02	3.99E+02	2.36E+02	1.34E+03
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	6.84E-06	1.84E-06	1.98E-06	1.80E-06	2.33E-06
3. DISSOLVED NOBLE GASES						
A. TOTAL RELEASE	CURIES	1.91E+00	1.32E+00	3.80E+00	4.55E-01	7.48E+00
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	3.73E-08	6.86E-09	1.88E-08	3.47E-09	1.30E-08
4. GROSS ALPHA ACTIVITY						
A. TOTAL RELEASE	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5. VOLUME OF LIQUID WASTE TO DISCHARGE CANAL	LITERS	1.01E+07	1.06E+07	3.35E+07	2.10E+07	7.51E+07
6. VOLUME OF DILUTION WATER	LITERS	5.14E+10	1.92E+11	2.02E+11	1.31E+11	5.76E+11
7. RADIONUCLIDES RELEASED	CURIES					
F-18		0.00E+00	0.00E+00	3.64E-04	0.00E+00	3.64E-04
NA-24		2.32E-05	1.56E-05	8.45E-04	3.95E-04	1.28E-03
CR-51		1.68E-02	8.89E-03	9.98E-03	1.38E-01	1.74E-01
MN-54		3.41E-03	1.40E-03	2.64E-03	7.80E-03	1.52E-02
FE-55		5.24E-02	7.16E-03	1.82E-02	1.15E-03	7.89E-02
FE-59		1.32E-03	0.00E+00	3.41E-04	3.41E-03	5.08E-03
CO-57		2.61E-04	6.61E-05	3.34E-04	8.06E-04	1.47E-03
CO-58		1.18E-01	3.12E-02	2.95E-01	4.74E-01	9.19E-01
CO-60		3.32E-02	1.29E-02	2.22E-02	4.19E-02	1.10E-01
RB-88		0.00E+00	0.00E+00	2.30E-04	0.00E+00	2.30E-04
SR-90		0.00E+00	1.26E-05	0.00E+00	0.00E+00	1.26E-05
SR-91		0.00E+00	0.00E+00	1.06E-04	0.00E+00	1.06E-04
SR-92		6.94E-05	1.02E-04	2.28E-03	1.53E-04	2.60E-03
ZR-95		7.61E-04	0.00E+00	1.01E-04	1.39E-02	1.47E-02
NB-95		2.15E-03	1.72E-03	1.41E-03	3.24E-02	3.77E-02
NB-97		2.29E-02	1.45E-04	4.03E-02	3.67E-04	6.36E-02
TC-99M		0.00E+00	1.70E-04	6.91E-04	2.68E-05	8.88E-04
RU-103		0.00E+00	0.00E+00	4.21E-05	4.64E-04	5.06E-04
AG-110M		1.09E-01	2.22E-02	2.81E-02	1.11E-01	2.70E-01
I-131		1.38E-02	6.44E-03	3.31E-02	2.21E-02	7.54E-02
I-132		9.71E-04	1.21E-03	3.56E-03	3.16E-02	3.73E-02
I-133		8.40E-05	8.01E-05	1.56E-03	8.37E-05	1.81E-03
I-134		2.25E-05	0.00E+00	5.38E-03	0.00E+00	5.40E-03
I-135		0.00E+00	0.00E+00	1.34E-04	0.00E+00	1.34E-04
SB-122		5.77E-04	7.77E-04	5.01E-03	1.36E-03	7.72E-03
SB-124		4.82E-03	6.89E-03	5.15E-02	2.40E-02	8.71E-02
SB-125		1.35E-01	2.21E-01	2.04E-01	3.05E-01	8.65E-01
TE-132		0.00E+00	0.00E+00	1.93E-04	0.00E+00	1.93E-04
CS-134		4.67E-03	3.27E-03	3.05E-02	1.76E-02	5.60E-02
CS-136		0.00E+00	5.50E-05	0.00E+00	0.00E+00	5.50E-05
CS-137		1.24E-02	7.98E-03	7.89E-02	3.31E-02	1.32E-01
CS-138		5.66E-03	1.76E-03	0.00E+00	3.78E-04	7.80E-03
BA-139		1.58E-02	0.00E+00	0.00E+00	1.34E-02	2.93E-02
LA-140		3.21E-03	1.99E-03	5.62E-03	5.74E-03	1.66E-02
W-187		6.26E-05	1.44E-04	0.00E+00	3.59E-04	5.66E-04
AR-41		2.39E-04	0.00E+00	0.00E+00	0.00E+00	2.39E-04
KR-88		0.00E+00	3.35E-04	0.00E+00	0.00E+00	3.35E-04
XE-131M		1.29E-02	1.54E-03	4.36E-02	3.57E-04	5.83E-02
XE-133		1.86E+00	1.27E+00	3.66E+00	4.51E-01	7.24E+00
XE-133M		1.42E-02	1.41E-02	4.11E-02	1.50E-03	7.09E-02
XE-135		2.80E-02	2.64E-02	5.41E-02	2.40E-03	1.11E-01

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 PDR ADDCK 05000269  
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SKIN MAXIMUM DOSE- 1.02D-02 MREM CRITICAL AGE- TEEN CRITICAL PATHWAY- SHORE

CO 58 6.80 %  
 CO 60 34.16 %  
 AG 110M 14.41 %  
 SB 125 25.97 %  
 CS 137 12.83 %

BONE MAXIMUM DOSE- 4.15D-01 MREM CRITICAL AGE- CHILD CRITICAL PATHWAY- FISH

CS 134 27.22 %  
 CS 137 71.60 %

LIVER MAXIMUM DOSE- 5.60D-01 MREM CRITICAL AGE- TEEN CRITICAL PATHWAY- FISH

CS 134 38.63 %  
 CS 137 55.10 %

T. BODY MAXIMUM DOSE- 4.09D-01 MREM CRITICAL AGE- ADULT CRITICAL PATHWAY- FISH

H 3 8.70 %  
 CS 134 42.63 %  
 CS 137 47.38 %

THYROID MAXIMUM DOSE- 2.32D-01 MREM CRITICAL AGE- INFANT CRITICAL PATHWAY- DRINKING

H 3 19.79 %  
 I 137 80.12 %

KIDNEY MAXIMUM DOSE- 2.08D-01 MREM CRITICAL AGE- TEEN CRITICAL PATHWAY- FISH

H 3 12.09 %  
 CS 134 33.18 %  
 CS 137 59.84 %

LUNG MAXIMUM DOSE- 1.05D-01 MREM CRITICAL AGE- CHILD CRITICAL PATHWAY- FISH

H 3 45.32 %  
 CS 134 19.77 %  
 CS 137 32.08 %

GI-LLI MAXIMUM DOSE- 9.10D-01 MREM CRITICAL AGE- ADULT CRITICAL PATHWAY- FISH

NB 95 88.65 %

SKIN MAXIMUM DOSE- 2.60D-02 MREM CRITICAL AGE- TEEN CRITICAL PATHWAY- SHORE

CO 60 31.99 %  
 AL 110M 12.50 %  
 SB 125 26.27 %  
 CS 134 5.14 %  
 CS 137 18.26 %

BONE MAXIMUM DOSE- 1.41D+00 MREM CRITICAL AGE- CHILD CRITICAL PATHWAY- FISH

CS 134 23.04 %  
 CS 137 75.96 %

LIVER MAXIMUM DOSE- 1.89D+00 MREM CRITICAL AGE- TEEN CRITICAL PATHWAY- FISH

H 3 6.84 %  
 CS 134 32.98 %  
 CS 137 58.95 %

T. BODY MAXIMUM DOSE- 1.40D+00 MREM CRITICAL AGE- ADULT CRITICAL PATHWAY- FISH

H 3 13.10 %  
 CS 134 35.98 %  
 CS 137 50.12 %

THYROID MAXIMUM DOSE- 8.13D-01 MREM CRITICAL AGE- INFANT CRITICAL PATHWAY- DRINKING

H 3 29.05 %  
 I 131 70.66 %

KIDNEY MAXIMUM DOSE- 7.51D-01 MREM CRITICAL AGE- CHILD CRITICAL PATHWAY- FISH

H 3 32.45 %  
 CS 134 22.05 %  
 CS 137 44.64 %

LUNG MAXIMUM DOSE- 4.32D-01 MREM CRITICAL AGE- CHILD CRITICAL PATHWAY- DRINKING

H 3 54.38 %  
 CS 134 13.78 %  
 CS 137 28.03 %

GI-LLI MAXIMUM DOSE- 1.19D+00 MREM CRITICAL AGE- ADULT CRITICAL PATHWAY- FISH

H 3 15.41 %  
 NB 95 71.59 %

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