
 * ARKANSAS POWER AND LIGHT COMPANY *
 * ARKANSAS NUCLEAR ONE, UNIT ONE *
 * REPORT ON RADIOACTIVE LIQUID EFFLUENTS *
 * APPENDIX "A" DOCKET 50-313 YEAR: 1983 *

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REPORTING PARAMETERS	/UNITS /	JUL	/	AUG	/	SEP	/QTRLY TOT/SEMI TOTL/
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1. GROSS BETA + GAMMA							
A. TOTAL RELEASED	CURIES	0.50		0.24		0.36	1.1
B. AVE CON RELEASED	UCI/ML	4.95E-09		1.79E-09		2.80E-09	3.18E-09
C. MAX CON RELEASED	UCI/ML	2.19E-07		5.50E-08		8.97E-08	3.63E-07
2. TRITIUM							
A. TOTAL RELEASED	CURIES	15.		14.		35.	64.
B. AVE CON RELEASED	UCI/ML	1.45E-07		1.08E-07		2.74E-07	1.76E-07
3. DISS NOBLE GASES							
A. TOTAL RELEASED	CURIES	6.1		4.4		29.	39.
B. AVE CON RELEASED	UCI/ML	6.06E-08		3.29E-08		2.24E-07	1.06E-07
4. GROSS ALPHA							
A. TOTAL RELEASED	CURIES	3.63E-04		0.00		0.00	3.63E-04
B. AVE CON RELEASED	UCI/ML	3.63E-12		0.00		0.00	1.21E-12
5. RADWASTE RELEASED	LITERS	8.12E 06		6.75E 06		3.95E 06	1.88E 07
6. DILUTION WATER	LITERS	1.00E 11		1.34E 11		1.29E 11	3.63E 11
7. ISOTOPE CONC.	CURIES						
KR-85M		2.47E-04		9.62E-05		0.00	3.43E-04
KR-85		3.74E-03		0.00		0.00	3.74E-03
KR-87		0.00		0.00		0.00	0.00
KR-88		0.00		1.23E-04		0.00	1.23E-04
XE-131M		5.70E-02		1.04E-02		0.22	0.29
XE-133M		3.14E-02		4.51E-02		0.15	0.23
XE-133		6.0		4.3		28.	39.
XE-135		1.94E-02		7.01E-02		9.30E-03	9.88E-02
BE-7		0.00		0.00		0.00	0.00
NA-24		5.16E-04		0.00		1.01E-05	5.26E-04
CR-51		2.23E-02		1.15E-02		1.40E-02	4.79E-02
MN-54		5.13E-03		5.94E-03		2.97E-03	1.40E-02
MN-56		0.00		0.00		0.00	0.00
FE-59		1.72E-03		0.00		1.11E-03	2.83E-03
CO-57		7.87E-04		6.09E-04		1.59E-04	1.55E-03
CO-58		0.23		4.06E-02		0.10	0.38
CO-60		0.13		0.12		6.21E-02	0.31
NI-65		0.00		0.00		0.00	0.00
CU-64		0.00		0.00		0.00	0.00
ZN-65		0.00		4.82E-05		7.25E-05	1.21E-04
SE-75		7.60E-05		2.38E-05		0.00	9.98E-05
SR-89		0.00		0.00		5.58E-02	5.58E-02
SR-90		0.00		0.00		0.00	0.00
SR-91		6.61E-06		0.00		0.00	6.61E-06
SR-92		6.01E-06		2.48E-05		9.51E-05	1.26E-04
ZR-95		2.55E-03		1.35E-03		2.50E-03	6.40E-03
ZR-97		0.00		0.00		0.00	0.00
NB-95		4.00E-03		2.94E-03		2.92E-03	9.86E-03
NB-97		4.73E-04		5.46E-04		8.85E-04	1.90E-03
NB-99		5.07E-04		0.00		4.81E-04	9.88E-04

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RU-103	4.73E-03	1.91E-03	1.95E-03	8.59E-03
RU-106	2.31E-03	3.81E-03	7.55E-04	6.88E-03
AG-110M	4.17E-03	3.24E-03	2.34E-03	9.74E-03
I-131	2.45E-02	8.52E-04	2.08E-03	2.74E-02
I-132	7.60E-05	0.00	0.00	7.60E-05
I-133	9.03E-04	0.00	0.00	9.03E-04
I-134	0.00	0.00	0.00	0.00
I-135	6.85E-05	0.00	0.00	6.85E-05
CS-134	1.16E-02	1.13E-02	2.50E-02	4.78E-02
CS-136	2.56E-04	0.00	0.00	2.56E-04
CS-137	3.22E-02	3.38E-02	7.85E-02	0.14
CS-138	0.00	0.00	0.00	0.00
BA-133	2.22E-05	0.00	0.00	2.22E-05
BA-140	0.00	0.00	0.00	0.00
LA-140	1.39E-02	2.29E-04	7.99E-04	1.49E-02
CE-144	0.00	0.00	1.17E-04	1.17E-04
EU-152	0.00	0.00	0.00	0.00
W-187	0.00	0.00	7.34E-05	7.34E-05
NP-239	0.00	0.00	0.00	0.00

8. % OF LIMIT (BASED ON 10 CURIES/QTR.)	%	5.0	2.4	3.6	11.
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REMARKS: 0.00 = N. D.
 SR-89 AND SR-90 VALUES FOR QUARTERLY ANALYSIS.

 * ARKANSAS POWER AND LIGHT COMPANY *
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 * REPORT ON RADIOACTIVE LIQUID EFFLUENTS *
 * APPENDIX "A" DOCKET 50-313 YEAR: 1983 *

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REPORTING PARAMETERS	/UNITS /	OCT	/	NOV	/	DEC	/QTRLY TOT/SEMI TOTL/
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1. GROSS BETA + GAMMA							
A. TOTAL RELEASED	CURIES	0.27		8.61E-02		4.00E-02	0.40 1.5
B. AVE CON RELEASED	UCI/ML	2.04E-09		6.74E-10		3.56E-10	1.02E-09 2.10E-09
C. MAX CON RELEASED	UCI/ML	8.63E-08		9.79E-08		1.51E-08	1.99E-07 5.63E-07
2. TRITIUM							
A. TOTAL RELEASED	CURIES	13.		3.9		11.	28. 92.
B. AVE CON RELEASED	UCI/ML	1.00E-07		3.08E-08		9.36E-08	7.49E-08 1.25E-07
3. DISS NOBLE GASES							
A. TOTAL RELEASED	CURIES	1.6		2.1		5.49E-02	3.7 43.
B. AVE CON RELEASED	UCI/ML	1.18E-08		1.65E-08		4.89E-10	9.60E-09 5.77E-08
4. GROSS ALPHA							
A. TOTAL RELEASED	CURIES	0.00		0.00		0.00	0.00 3.63E-04
B. AVE CON RELEASED	UCI/ML	0.00		0.00		0.00	0.00 6.05E-13
5. RADWASTE RELEASED	LITERS	3.35E 06		4.02E 06		6.37E 06	1.37E 07 3.26E 07
6. DILUTION WATER	LITERS	1.32E 11		1.28E 11		1.12E 11	3.73E 11 7.35E 11
7. ISOTOPE CONC.	CURIES						
KR-85M		6.61E-06		1.88E-03		0.00	1.89E-03 2.23E-03
KR-85		0.00		0.00		8.66E-04	8.66E-04 4.61E-03
KR-87		0.00		0.00		3.08E-05	3.08E-05 3.08E-05
KR-88		0.00		1.40E-04		0.00	1.40E-04 2.63E-04
XE-131M		2.27E-02		0.00		0.00	2.27E-02 0.31
XE-133M		4.15E-03		2.24E-02		6.19E-05	2.66E-02 0.25
XE-133		1.5		2.0		5.39E-02	3.6 42.
XE-135		6.17E-04		9.60E-02		2.92E-05	9.67E-02 0.20
BE-7		0.00		0.00		0.00	0.00 0.00
NA-24		0.00		0.00		0.00	0.00 5.26E-04
CR-51		5.52E-03		0.00		1.10E-04	5.63E-03 5.35E-02
MN-54		1.26E-03		4.37E-04		8.43E-04	2.54E-03 1.66E-02
MN-56		0.00		0.00		0.00	0.00 0.00
FE-59		1.08E-04		0.00		0.00	1.08E-04 2.94E-03
CO-57		0.00		0.00		1.10E-04	1.10E-04 1.67E-03
CO-58		2.73E-02		6.81E-03		2.50E-03	3.66E-02 0.42
CO-60		2.62E-02		9.62E-03		2.02E-02	5.61E-02 0.37
NI-65		0.00		0.00		0.00	0.00 0.00
CU-64		0.00		0.00		0.00	0.00 0.00
ZN-65		0.00		0.00		0.00	0.00 1.21E-04
SE-75		0.00		0.00		0.00	0.00 9.98E-05
SR-89		0.00		0.00		0.00	0.00 5.58E-02
SR-90		0.00		0.00		0.00	0.00 0.00
SR-91		0.00		0.00		0.00	0.00 6.61E-06
SR-92		4.05E-06		0.00		4.82E-06	8.88E-06 1.35E-04
ZR-95		3.29E-04		0.00		3.50E-05	3.64E-04 6.77E-03
ZR-97		0.00		0.00		0.00	0.00 0.00
NB-95		7.55E-04		1.86E-04		1.40E-04	1.08E-03 1.09E-02
NB-97		1.03E-03		2.25E-04		7.25E-05	1.33E-03 3.23E-03
MO-99		0.00		0.00		0.00	0.00 8.89E-04

RU-103	5.63E-04	1.63E-04	1.19E-05	7.38E-04	9.33E-03
RU-106	1.39E-05	3.12E-04	7.12E-04	1.04E-03	7.92E-03
AG-110M	2.14E-03	5.78E-04	5.67E-04	3.29E-03	1.30E-02
I-131	4.72E-04	3.36E-04	1.35E-04	9.43E-04	2.83E-02
I-132	7.34E-05	0.00	0.00	7.34E-05	1.49E-04
I-133	0.00	8.23E-06	5.65E-06	1.39E-05	9.17E-04
I-134	0.00	0.00	0.00	0.00	0.00
I-135	0.00	0.00	0.00	0.00	6.85E-05
CS-134	4.55E-02	1.50E-02	3.81E-03	6.43E-02	0.11
CS-136	0.00	0.00	0.00	0.00	2.56E-04
CS-137	0.16	5.24E-02	1.06E-02	0.22	0.37
CS-138	0.00	0.00	6.53E-06	6.53E-06	6.53E-06
BA-133	7.53E-06	0.00	0.00	7.53E-06	2.98E-05
BA-140	0.00	0.00	0.00	0.00	0.00
LA-140	3.25E-04	6.86E-05	1.03E-05	7.04E-04	1.56E-02
CE-144	0.00	0.00	1.07E-04	1.07E-04	2.23E-04
EU-152	0.00	0.00	0.00	0.00	0.00
W-187	0.00	0.00	0.00	0.00	7.34E-05
NP-239	0.00	0.00	0.00	0.00	0.00

8. % OF LIMIT (BASED ON 10 CURIES/QTR.)	%	2.7	0.86	0.40	4.0
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REMARKS: 0.00 = N. D.
 SR-89 AND SR-90 VALUES FOR QUARTERLY ANALYSIS.

 * ARKANSAS POWER AND LIGHT COMPANY *
 * ARKANSAS NUCLEAR ONE, UNIT ONE *
 * REPORT ON RADIOACTIVE GASEOUS EFFLUENTS *
 * APPENDIX "A" DOCKET 50-313 YEAR: 1983 *

 REPORTING PARAMETERS / UNITS / JUL / AUG / SEP /YEARLY TOT/
 =====

1. GASES	CURIES	3.70E-02	2.10E-02	90.	8.93E-02
2. HALOGENS	CURIES	7.07E-05	5.53E-05	2.24E-05	1.06E-03
3. DELETED					
4. H-3	CURIES	0.24	0.30	0.42	3.2
5. ALPHA	CURIES	1.03E-07	1.03E-07	1.03E-07	3.10E-07
6. MAXIMUM GAS RELEASE RATE	UCI/SEC	6.15E-02	3.58E-02	1.02E-02	NA
7. % OF APPLICABLE LIMIT FOR:					
A. GASES					
1. GAMMA	%			0.64	NA
2. BETA	%			0.91	NA
B. DELETED					
C. PART. + I-131	%			2.71E-02	NA
8. ISOTOPIC CONC.	CURIES				

PARTICULATES:

SR-89	1.87E-06	1.87E-06	1.87E-06	1.40E-05
SR-90	0.00	0.00	0.00	0.00
CS-134	0.00	0.00	0.00	1.52E-04
CS-137	2.86E-06	0.00	0.00	4.78E-04
BA-140	0.00	0.00	0.00	0.00
LA-140	0.00	0.00	0.00	0.00

HALOGENS:

I-131	7.07E-05	5.53E-05	2.24E-05	3.19E-04
I-133	0.00	0.00	0.00	3.12E-04
I-135	0.00	0.00	0.00	4.29E-04

GASES

AR-41	0.00	0.00	0.00	1.87E-05
KR-85M	0.00	0.00	7.65E-11	9.98E-05
KR-85	0.00	0.00	0.00	0.00
KR-87	0.00	0.00	0.00	0.00
KR-88	0.00	0.00	0.00	7.54E-06
XE-133M	0.00	0.00	5.39E-09	0.12
XE-133	3.70E-02	2.01E-02	90.	8.83E-02
XE-135	6.71E-02	9.6	3.04E-09	9.7
XE-138	0.00	0.00	0.00	0.00

OTHERS

XE-131M	0.00	0.00	3.85E-02	3.91E-02
XE-135M	0.00	0.00	0.00	2.57E-04
BE-7	0.00	0.00	0.00	0.00
NA-24	0.00	0.00	0.00	3.96E-05
K-40	0.00	0.00	0.00	1.14E-05
CR-51	0.00	0.00	0.00	0.00
NI-63	0.00	0.00	0.00	7.74E-09

MN-56	0.00	0.00	0.00	0.00
FE-59	0.00	0.00	0.00	2.67E-05
CO-57	0.00	0.00	0.00	0.00
CO-58	0.00	0.00	0.00	4.50E-06
CO-60	1.56E-06	1.89E-06	0.00	1.58E-05
NI-65	0.00	0.00	0.00	0.00
CU-64	0.00	0.00	0.00	0.00
ZN-65	0.00	0.00	0.00	0.00
SE-75	0.00	0.00	0.00	0.00
BR-84	0.00	0.00	0.00	0.00
RB-88	0.00	0.00	0.00	3.12E-06
RB-89	0.00	0.00	0.00	0.00
SR-85	0.00	0.00	0.00	0.00
SR-91	0.00	0.00	0.00	0.00
SR-92	0.00	0.00	0.00	0.00
Y-88	0.00	0.00	0.00	0.00
Y-91M	0.00	0.00	0.00	0.00
Y-92	0.00	0.00	0.00	0.00
ZR-95	0.00	0.00	0.00	0.00
ZR-97	0.00	0.00	0.00	0.00
NB-94	0.00	0.00	0.00	0.00
NB-95	0.00	0.00	0.00	0.00
NB-97	0.00	0.00	0.00	0.00
MO-99	0.00	0.00	0.00	0.00
TC-99M	0.00	0.00	0.00	0.00
RU-103	0.00	0.00	0.00	0.00
RU-106	0.00	0.00	0.00	1.94E-04
AG-110M	0.00	0.00	0.00	0.00
CD-109	0.00	0.00	0.00	0.00
CD-113M	0.00	0.00	0.00	0.00
SN-113	0.00	0.00	0.00	0.00
SB-122	0.00	0.00	0.00	8.75E-06
SB-124	0.00	0.00	0.00	0.00
SB-125	0.00	0.00	0.00	0.00
TE-132	0.00	0.00	0.00	0.00
I-132	0.00	0.00	0.00	1.57E-04
I-134	0.00	0.00	0.00	1.14E-04
CS-136	0.00	0.00	0.00	0.00
CS-138	0.00	0.00	0.00	1.05E-07
BA-133	0.00	0.00	0.00	1.59E-07
BA-139	0.00	0.00	0.00	0.00
CE-139	0.00	0.00	0.00	0.00
CE-144	0.00	0.00	0.00	0.00
EU-152	0.00	0.00	0.00	0.00
W-187	0.00	0.00	0.00	0.00
HG-203	0.00	0.00	0.00	0.00
PB-214	0.00	0.00	0.00	0.00
BI-214	0.00	0.00	0.00	1.52E-03
RA-226	0.00	0.00	0.00	1.03E-05
TH-228	0.00	4.72E-06	4.55E-06	1.44E-05
U-235	0.00	0.00	0.00	0.00
NP-239	0.00	0.00	0.00	0.00

REMARKS:

0.00 = <MDA

 * ARKANSAS POWER AND LIGHT COMPANY *
 * ARKANSAS NUCLEAR ONE, UNIT ONE *
 * REPORT ON RADIOACTIVE GASEOUS EFFLUENTS *
 * APPENDIX "A" DOCKET 50-313 YEAR: 1983 *

 REPORTING PARAMETERS / UNITS / OCT / NOV / DEC / YEARLY TOT/
 =====

1. GASES	CURIES	66.	24.	0.00	9.83E-02
2. HALOGENS	CURIES	4.55E-05	3.72E-05	7.20E-06	1.15E-03
3. DELETED					
4. H-3	CURIES	0.22	0.39	0.73	4.5
5. ALPHA	CURIES	0.00	0.00	0.00	3.10E-07
6. MAXIMUM GAS RELEASE RATE	UCI/SEC	1.09E-02	20.	0.53	NA
7. % OF APPLICABLE LIMIT FOR:					
A. GASES					
1. GAMMA	%			0.11	NA
2. BETA	%			0.14	NA
B. DELETED					
C. PART. + I-131	%			7.88E-02	NA
8. ISOTOPIC CONC.	CURIES				

PARTICULATES:

SR-89	0.00	0.00	0.00	1.40E-05
SR-90	0.00	0.00	0.00	0.00
CS-134	0.00	1.98E-05	0.00	1.72E-04
CS-137	3.44E-06	1.04E-05	2.52E-05	5.17E-04
BA-140	0.00	0.00	0.00	0.00
LA-140	0.00	0.00	0.00	0.00

HALOGENS:

I-131	4.55E-05	3.57E-05	7.20E-06	4.07E-04
I-133	0.00	1.57E-06	0.00	3.14E-04
I-135	0.00	0.00	0.00	4.29E-04

GASES

AR-41	0.00	0.00	0.00	1.87E-05
KR-85M	0.00	0.00	0.00	9.98E-05
KR-85	0.00	0.00	0.00	0.00
KR-87	0.00	0.00	0.00	0.00
KR-88	0.00	0.00	0.00	7.54E-06
XE-133M	0.00	0.00	0.00	0.12
XE-133	57.	24.	0.00	9.64E-02
XE-135	8.6	0.00	0.00	18.
XE-138	0.00	0.00	0.00	0.00

OTHERS

XE-131M	0.00	0.00	0.00	3.91E-02
XE-135M	0.00	0.00	0.00	2.57E-04
BE-7	0.00	0.00	0.00	0.00
NA-24	0.00	0.00	0.00	3.96E-05
K-40	0.00	4.12E-05	0.00	5.26E-05
CR-51	0.00	0.00	0.00	0.00

MN-56	0.00	0.00	0.00	0.00
FE-59	0.00	0.00	0.00	2.67E-05
CO-57	0.00	0.00	0.00	0.00
CO-58	0.00	5.21E-06	1.90E-04	2.00E-04
CO-60	0.00	8.24E-06	4.29E-05	6.70E-05
NI-65	0.00	0.00	0.00	0.00
CU-64	0.00	0.00	0.00	0.00
ZN-65	0.00	0.00	0.00	0.00
SE-75	0.00	0.00	0.00	0.00
BR-84	0.00	0.00	0.00	0.00
RB-88	0.00	0.00	0.00	3.12E-06
RB-89	0.00	0.00	0.00	0.00
SR-85	0.00	0.00	0.00	0.00
SR-91	0.00	0.00	0.00	0.00
SR-92	0.00	0.00	0.00	0.00
Y-88	0.00	0.00	0.00	0.00
Y-91M	0.00	0.00	0.00	0.00
Y-92	0.00	0.00	0.00	0.00
ZR-95	0.00	0.00	0.00	0.00
ZR-97	0.00	0.00	0.00	0.00
NB-94	0.00	0.00	0.00	0.00
NB-95	0.00	0.00	2.97E-05	2.97E-05
NB-97	0.00	0.00	0.00	0.00
MO-99	0.00	0.00	0.00	0.00
TC-99M	0.00	0.00	0.00	0.00
RU-103	0.00	0.00	0.00	0.00
RU-106	0.00	0.00	0.00	1.94E-04
AG-110M	0.00	0.00	7.54E-06	7.54E-06
CD-109	0.00	0.00	0.00	0.00
CD-113M	0.00	0.00	0.00	0.00
SN-113	0.00	0.00	0.00	0.00
SB-122	0.00	0.00	0.00	8.75E-06
SB-124	0.00	0.00	0.00	0.00
SB-125	0.00	0.00	0.00	0.00
TE-132	0.00	0.00	0.00	0.00
I-132	0.00	0.00	0.00	1.57E-04
I-134	0.00	0.00	0.00	1.14E-04
CS-136	0.00	0.00	0.00	0.00
CS-138	0.00	0.00	0.00	1.05E-07
BA-133	0.00	0.00	0.00	1.59E-07
BA-139	0.00	0.00	0.00	0.00
CE-139	0.00	0.00	0.00	0.00
CE-144	0.00	0.00	0.00	0.00
EU-152	0.00	0.00	0.00	0.00
W-187	0.00	0.00	0.00	0.00
HG-203	0.00	0.00	0.00	0.00
PB-214	0.00	0.00	0.00	0.00
BI-214	0.00	0.00	0.00	1.52E-03
RA-226	0.00	0.00	0.00	1.03E-05
TH-228	3.77E-06	1.75E-06	0.00	1.99E-05
U-235	0.00	0.00	0.00	0.00
NP-239	0.00	0.00	0.00	0.00

REMARKS:

0.00 = <MDA

 * ARKANSAS POWER AND LIGHT COMPANY *
 * ARKANSAS NUCLEAR ONE, UNIT TWO *
 * REPORT ON RADIOACTIVE LIQUID EFFLUENTS *
 * APPENDIX "A" DOCKET 50-368 YEAR: 1983 *

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REPORTING PARAMETERS	/UNITS /	JUL	/	AUG	/	SEP	/QTRLY TOT/SEMI TOTL/
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1. GROSS BETA + GAMMA

A. TOTAL RELEASED	CURIES	0.44		0.11		0.31	0.85
B. AVE CON RELEASED	UCI/ML	4.35E-09		7.85E-10		2.39E-09	2.51E-09
C. MAX CON RELEASED	UCI/ML	1.63E-07		5.85E-08		5.40E-08	2.76E-07

2. TRITIUM

A. TOTAL RELEASED	CURIES	47.		22.		19.	88.
B. AVE CON RELEASED	UCI/ML	4.72E-07		1.65E-07		1.45E-07	2.61E-07

3. DISS NOBLE GASES

A. TOTAL RELEASED	CURIES	3.5		1.3		2.1	6.9
B. AVE CON RELEASED	UCI/ML	3.47E-08		9.81E-09		1.64E-08	2.03E-08

4. GROSS ALPHA

A. TOTAL RELEASED	CURIES	0.00		0.00		0.00	0.00
B. AVE CON RELEASED	UCI/ML	0.00		0.00		0.00	0.00

5. RADWASTE RELEASED

LITERS	6.92E 05	6.32E 05	9.13E 05	2.24E 06
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6. DILUTION WATER

LITERS	1.00E 11	1.34E 11	1.29E 11	3.63E 11
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7. ISOTOPE CONC.

CURIES

KR-85M	1.78E-04	0.00	4.43E-04	6.22E-04
KR-85	0.00	6.63E-03	0.00	6.63E-03
KR-87	8.91E-05	0.00	0.00	8.91E-05
KR-88	0.00	0.00	0.00	0.00
XE-131M	3.20E-02	1.06E-02	3.16E-02	7.42E-02
XE-133M	8.37E-03	9.56E-03	1.73E-02	3.53E-02
XE-133	3.4	1.3	1.9	6.5
XE-135	4.02E-02	1.91E-02	0.21	0.27
BE-7	0.00	0.00	0.00	0.00
NA-24	0.00	0.00	0.00	0.00
CR-51	2.51E-02	1.11E-02	2.91E-02	6.53E-02
MN-54	8.36E-04	5.32E-04	1.15E-03	2.52E-03
MN-56	0.00	0.00	0.00	0.00
FE-59	3.82E-04	5.37E-04	1.14E-03	2.06E-03
CO-57	1.08E-04	0.00	8.96E-05	1.97E-04
CO-58	0.11	3.63E-02	0.12	0.27
CO-60	9.64E-03	6.05E-03	9.40E-03	2.51E-02
NI-65	0.00	0.00	0.00	0.00
CU-64	0.00	0.00	0.00	0.00
ZN-65	0.00	0.00	0.00	0.00
SE-75	0.00	0.00	0.00	0.00
SR-89	0.00	0.00	5.47E-04	5.47E-04
SR-90	0.00	0.00	0.00	0.00
SR-91	0.00	0.00	0.00	0.00
SR-92	0.00	2.10E-06	1.27E-05	1.48E-05
ZR-95	3.46E-03	2.06E-03	4.04E-03	9.66E-03
ZR-97	0.00	0.00	0.00	0.00
NB-95	4.58E-03	2.54E-03	5.37E-03	1.25E-02
NB-97	1.08E-04	1.73E-04	1.33E-04	4.15E-04

RU-103	1.94E-03	9.63E-04	3.15E-03	6.06E-03
RU-106	0.00	0.00	5.80E-04	5.80E-04
AG-110M	5.57E-04	2.64E-04	6.04E-04	1.43E-03
I-131	7.45E-03	1.20E-02	6.59E-03	2.60E-02
I-132	5.83E-05	2.40E-05	8.47E-05	1.67E-04
I-133	1.51E-03	1.95E-03	1.65E-03	5.11E-03
I-134	0.00	0.00	0.00	0.00
I-135	8.33E-05	3.83E-04	0.00	4.67E-04
CS-134	8.45E-02	8.71E-03	3.66E-02	0.13
CS-136	1.58E-04	0.00	0.00	1.58E-04
CS-137	0.18	1.97E-02	8.55E-02	0.28
CS-138	0.00	0.00	0.00	0.00
BA-133	0.00	0.00	0.00	0.00
BA-140	0.00	0.00	0.00	0.00
LA-140	1.55E-03	2.06E-03	3.76E-03	7.37E-03
CE-144	0.00	0.00	0.00	0.00
EU-152	0.00	0.00	0.00	0.00
W-187	0.00	0.00	0.00	0.00
NP-239	0.00	0.00	0.00	0.00

8. % OF LIMIT (BASED ON 10 CURIES/QTR.)	%	4.4	1.1	3.1	8.5
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REMARKS 0.00 = N. D.
SR-89 AND SR-90 VALUES FOR QUARTERLY ANALYSIS.

 * ARKANSAS POWER AND LIGHT COMPANY *
 * ARKANSAS NUCLEAR ONE, UNIT TWO *
 * REPORT ON RADIOACTIVE LIQUID EFFLUENTS *
 * APPENDIX "A" DOCKET 50-368 YEAR: 1983 *

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REPORTING PARAMETERS	/UNITS /	OCT	/	NOV	/	DEC	/QTRLY TOT/SEMI TOTL/
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1. GROSS BETA + GAMMA

A. TOTAL RELEASED	CURIES	0.24		7.00E-02		9.11E-02	0.40 1.3
B. AVE CON RELEASED	UCI/ML	1.83E-09		5.47E-10		8.11E-10	1.06E-09 1.79E-09
C. MAX CON RELEASED	UCI/ML	5.22E-08		2.68E-08		3.00E-08	1.09E-07 3.85E-07

2. TRITIUM

A. TOTAL RELEASED	CURIES	9.1		1.1		0.30	10. 98.
B. AVE CON RELEASED	UCI/ML	6.88E-08		8.22E-09		2.71E-09	2.66E-08 1.44E-07

3. DISS NOBLE GASES

A. TOTAL RELEASED	CURIES	1.5		0.00		0.00	1.5 8.4
B. AVE CON RELEASED	UCI/ML	1.12E-08		0.00		0.00	3.74E-09 1.20E-08

4. GROSS ALPHA

A. TOTAL RELEASED	CURIES	2.35E-04		0.00		0.00	2.35E-04 2.35E-04
B. AVE CON RELEASED	UCI/ML	1.78E-12		0.00		0.00	5.92E-13 2.96E-13

5. RADWASTE RELEASED

LITERS	6.90E 05	2.95E 05	4.00E 05	1.39E 06	3.62E 06
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6. DILUTION WATER

LITERS	1.32E 11	1.28E 11	1.12E 11	3.73E 11	7.35E 11
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7. ISOTOPE CONC.

CURIES

KR-85M	0.00	0.00	0.00	0.00	6.22E-04
KR-85	0.00	0.00	0.00	0.00	6.63E-03
KR-87	0.00	0.00	0.00	0.00	8.91E-05
KR-88	7.08E-05	0.00	0.00	7.08E-05	7.08E-05
XE-131M	1.35E-02	0.00	0.00	1.35E-02	8.77E-02
XE-133M	6.90E-03	0.00	0.00	6.90E-03	4.21E-02
XE-133	1.5	0.00	0.00	1.5	8.0
XE-135	6.53E-05	0.00	0.00	6.53E-05	0.27
BE-7	0.00	0.00	1.74E-03	1.74E-03	1.74E-03
NA-24	8.18E-04	3.62E-04	2.42E-05	1.20E-03	1.20E-03
CR-51	2.18E-02	5.16E-03	9.97E-03	3.69E-02	0.10
MN-54	6.70E-04	4.97E-04	3.13E-04	1.48E-03	4.00E-03
MN-56	0.00	0.00	0.00	0.00	0.00
FE-59	3.04E-03	3.04E-04	2.45E-04	3.59E-03	5.64E-03
CO-57	1.94E-04	4.38E-05	3.39E-05	2.72E-04	4.69E-04
CO-58	8.46E-02	1.55E-02	2.54E-02	0.13	0.39
CO-60	7.84E-03	5.40E-03	2.95E-03	1.62E-02	4.13E-02
NI-65	0.00	0.00	0.00	0.00	0.00
CU-64	0.00	0.00	0.00	0.00	0.00
ZN-65	0.00	0.00	0.00	0.00	0.00
SE-75	0.00	8.37E-05	0.00	8.37E-05	8.37E-05
SR-89	0.00	0.00	6.26E-05	6.26E-05	6.10E-04
SR-90	0.00	0.00	4.22E-05	4.22E-05	4.22E-05
SR-91	0.00	0.00	0.00	0.00	0.00
SR-92	5.30E-05	1.93E-05	1.00E-05	8.23E-05	9.71E-05
ZR-95	4.40E-03	9.88E-04	1.59E-03	6.98E-03	1.65E-02
ZR-97	0.00	2.30E-05	0.00	2.30E-05	2.30E-05
NB-95	6.53E-03	1.75E-04	2.72E-03	9.43E-03	2.19E-02
NB-97	2.27E-04	1.26E-04	2.19E-04	5.72E-04	9.87E-04
MO-99	9.61E-05	0.00	0.00	9.61E-05	4.07E-04
RU-103	3.76E-03	6.00E-04	3.44E-04	4.70E-03	1.08E-02

AG-110M	1.13E-03	1.29E-03	1.02E-03	3.44E-03	4.87E-03
I-131	1.99E-02	4.13E-05	3.23E-05	2.00E-02	4.60E-02
I-132	4.75E-04	1.40E-04	0.00	6.14E-04	7.81E-04
I-133	2.72E-04	0.00	0.00	2.72E-04	5.38E-03
I-134	0.00	0.00	0.00	0.00	0.00
I-135	0.00	0.00	0.00	0.00	4.67E-04
CS-134	1.79E-02	1.15E-02	1.28E-02	4.21E-02	0.17
CS-136	5.37E-05	0.00	0.00	5.37E-05	2.12E-04
CS-137	4.27E-02	2.73E-02	3.16E-02	0.10	0.39
CS-138	1.67E-03	4.31E-04	0.00	2.11E-03	2.11E-03
BA-133	0.00	0.00	0.00	0.00	0.00
BA-140	2.16E-04	0.00	0.00	2.16E-04	2.16E-04
LA-140	2.20E-02	6.06E-05	2.71E-05	2.20E-02	2.94E-02
CE-144	2.34E-04	0.00	0.00	2.34E-04	2.34E-04
EU-152	0.00	0.00	0.00	0.00	0.00
W-187	0.00	0.00	0.00	0.00	0.00
NP-239	0.00	0.00	0.00	0.00	0.00

8. % OF LIMIT (BASED ON 10 CURIES/QTR.)	%	2.4	0.70	0.91	4.0
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REMARKS: 0.00 = N. D.
 SR-89 AND SR-90 VALUES FOR QUARTERLY ANALYSIS.

 * ARKANSAS POWER AND LIGHT COMPANY *
 * ARKANSAS NUCLEAR ONE, UNIT TWO *
 * REPORT ON RADIOACTIVE GASEOUS EFFLUENTS *
 * APPENDIX "A" DOCKET 50-368 YEAR: 1983 *

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REPORTING PARAMETERS / UNITS /	JUL	AUG	SEP	/YEARLY TOT/
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1. GASES	CURIES	96.	2.40E 02	1.80E 02	1.31E 03
2. HALOGENS	CURIES	3.92E-04	6.28E-04	3.82E-04	2.47E-03
3. DELETED					
4. H-3	CURIES	0.27	0.17	0.20	1.9
5. ALPHA	CURIES	7.69E-06	7.69E-06	7.69E-06	2.31E-05
6. MAXIMUM GAS RELEASE RATE	UCI/SEC	66.	4.0	2.66E 05	NA
7. % OF APPLICABLE LIMIT FOR:					
A. GASES					
1. GAMMA	%			0.13	NA
2. BETA	%			0.18	NA
B. DELETED					
C. PART. + I-131	%			5.22E-02	NA
8. ISOTOPIC CONC.	CURIES				

PARTICULATES:

SR-89	1.57E-07	1.57E-07	1.57E-07	1.67E-06
SR-90	0.00	0.00	0.00	0.00
CS-134	0.00	3.61E-07	0.00	1.03E-06
CS-137	1.69E-06	9.41E-07	2.04E-07	9.06E-06
BA-140	0.00	0.00	0.00	0.00
LA-140	0.00	0.00	0.00	0.00

HALOGENS:

I-131	3.35E-04	5.76E-04	3.39E-04	2.16E-03
I-133	5.31E-05	5.24E-05	4.29E-05	3.12E-04
I-135	3.52E-06	0.00	0.00	4.03E-06

GASES

AR-41	0.00	0.00	0.00	0.00
KR-85M	0.00	0.00	4.86E-04	1.22E-02
KR-85	0.00	0.00	2.31E-02	2.31E-02
KR-87	0.00	0.00	0.00	0.00
KR-88	0.00	0.00	1.54E-05	1.54E-05
XE-133M	0.00	0.76	0.64	11.
XE-133	96.	2.36E 02	1.73E 02	1.23E 03
XE-135	0.00	0.74	6.7	67.
XE-138	0.00	0.00	0.00	0.00

OTHERS:

XE-131M	0.00	2.4	9.26E-03	3.8
XE-135M	0.00	0.00	0.00	0.00
BE-7	0.00	0.00	0.00	1.75E-06
NA-24	0.00	0.00	0.00	0.00
K-40	0.00	8.50E-06	0.00	4.76E-05
CR-51	0.00	0.00	0.00	0.00
MN-54	0.00	2.54E-07	0.00	2.54E-07

MN-56	0.00	0.00	0.00	0.00
FE-59	0.00	0.00	0.00	0.00
CO-57	1.21E-07	0.00	0.00	1.21E-07
CO-58	0.00	4.53E-07	0.00	1.51E-06
CO-60	0.00	1.37E-06	3.69E-07	5.54E-06
NI-65	0.00	0.00	0.00	0.00
CU-64	0.00	0.00	0.00	0.00
ZN-65	0.00	0.00	0.00	0.00
SE-75	0.00	0.00	0.00	0.00
BR-84	0.00	0.00	0.00	0.00
RB-88	0.00	0.00	0.00	0.00
RB-89	0.00	0.00	0.00	0.00
SR-85	0.00	0.00	0.00	0.00
SR-91	0.00	0.00	0.00	0.00
SR-92	0.00	0.00	0.00	0.00
Y-88	0.00	0.00	0.00	8.05E-08
Y-91M	0.00	0.00	0.00	0.00
Y-92	0.00	0.00	0.00	0.00
ZR-95	0.00	0.00	0.00	0.00
ZR-97	0.00	0.00	0.00	0.00
NB-94	0.00	0.00	0.00	0.00
NB-95	0.00	0.00	0.00	0.00
NB-97	0.00	0.00	0.00	0.00
MO-99	0.00	0.00	0.00	0.00
TC-99M	0.00	0.00	0.00	0.00
RU-103	0.00	0.00	0.00	6.98E-07
RU-106	0.00	0.00	0.00	0.00
AG-110M	0.00	0.00	0.00	0.00
CD-109	0.00	0.00	0.00	1.63E-06
CD-113M	0.00	0.00	0.00	0.00
SN-113	0.00	0.00	0.00	0.00
SB-122	0.00	0.00	0.00	0.00
SB-124	0.00	0.00	0.00	0.00
SB-125	0.00	0.00	0.00	0.00
TE-132	0.00	0.00	0.00	0.00
I-132	0.00	0.00	0.00	0.00
I-134	0.00	0.00	0.00	0.00
CS-136	0.00	0.00	0.00	0.00
CS-138	0.00	0.00	0.00	0.00
BA-133	0.00	0.00	0.00	0.00
BA-139	0.00	0.00	0.00	0.00
CE-139	0.00	0.00	0.00	0.00
CE-144	0.00	0.00	0.00	0.00
EU-152	0.00	0.00	0.00	0.00
W-187	0.00	0.00	0.00	0.00
HG-203	0.00	0.00	0.00	0.00
PB-214	0.00	0.00	0.00	0.00
BI-214	0.00	0.00	0.00	0.00
RA-226	0.00	0.00	0.00	1.08E-06
TH-228	9.02E-07	2.21E-06	2.91E-07	1.05E-05
U-235	0.00	0.00	0.00	0.00
NP-239	0.00	0.00	0.00	0.00

REMARKS:

0.00 = CMA

 * ARKANSAS POWER AND LIGHT COMPANY *
 * ARKANSAS NUCLEAR ONE, UNIT TWO *
 * REPORT ON RADIOACTIVE GASEOUS EFFLUENTS *
 * APPENDIX "A" DOCKET 50-368 YEAR: 1983 *

 REPORTING PARAMETERS / UNITS / OCT / NOV / DEC /YEARLY TOT/
 =====

1. GASES	CURIES	24.	0.00	0.00	1.34E-03
2. HALOGENS	CURIES	3.31E-03	2.73E-06	1.25E-07	5.78E-03
3. DELETED					
4. H-3	CURIES	0.42	0.24	0.34	2.8
5. ALPHA	CURIES	0.00	0.00	0.00	2.31E-05
6. MAXIMUM GAS RELEASE RATE	UCI/SEC	40.	0.17	0.26	NA
7. % OF APPLICABLE LIMIT FOR:					
A. GASES					
1. GAMMA	%			2.18E-02	NA
2. BETA	%			3.24E-02	NA
B. DELETED					
C. PART. + I-131	%			0.55	NA
8. ISOTOPIC CONC.	CURIES				

PARTICULATES:

SR-89	5.76E-07	5.76E-07	5.76E-07	3.40E-06
SR-90	0.00	0.00	0.00	0.00
CS-134	0.00	0.00	0.00	1.03E-06
CS-137	1.26E-06	3.05E-07	1.08E-06	1.17E-05
BA-140	0.00	0.00	0.00	0.00
LA-140	0.00	0.00	0.00	0.00

HALOGENS:

I-131	3.31E-03	2.73E-06	1.25E-07	5.47E-03
I-133	0.00	0.00	0.00	3.12E-04
I-135	0.00	0.00	0.00	4.03E-06

GASES

AR-41	0.00	0.00	0.00	0.00
KR-85M	0.00	0.00	0.00	1.22E-02
KR-85	0.00	0.00	0.00	2.31E-02
KR-87	0.00	0.00	0.00	0.00
KR-88	0.00	0.00	0.00	1.54E-05
XE-133M	0.00	0.00	0.00	11.
XE-133	24.	0.00	0.00	1.25E-03
XE-135	0.00	0.00	0.00	67.
XE-138	0.00	0.00	0.00	0.00

OTHERS

XE-131M	0.00	0.00	0.00	3.8
XE-135M	0.00	0.00	0.00	0.00
BE-7	0.00	0.00	0.00	1.75E-06
NA-24	0.00	0.00	0.00	0.00
K-40	0.00	0.00	0.00	4.76E-05
CR-51	0.00	0.00	2.70E-06	2.70E-06
MN-54	0.00	0.00	0.00	2.54E-07
MN-56	0.00	0.00	0.00	0.00
FE-59	0.00	0.00	0.00	0.00

CO-57	0.00	0.00	0.00	1.21E-07
CO-58	2.46E-07	9.43E-07	1.33E-05	1.60E-05
CO-60	1.55E-06	2.65E-07	2.30E-07	7.59E-06
NI-65	0.00	0.00	0.00	0.00
CU-64	0.00	0.00	0.00	0.00
ZN-65	0.00	0.00	0.00	0.00
SE-75	0.00	0.00	0.00	0.00
BR-84	0.00	0.00	0.00	0.00
RB-88	0.00	0.00	0.00	0.00
RB-89	0.00	0.00	0.00	0.00
SR-85	0.00	0.00	0.00	0.00
SR-91	0.00	0.00	0.00	0.00
SR-92	0.00	0.00	0.00	0.00
Y-88	0.00	0.00	0.00	8.05E-08
Y-91M	0.00	0.00	0.00	0.00
Y-92	0.00	0.00	0.00	0.00
ZR-95	0.00	0.00	0.00	0.00
ZR-97	0.00	0.00	0.00	0.00
NB-94	0.00	0.00	0.00	0.00
NB-95	0.00	0.00	1.01E-06	1.01E-06
NB-97	0.00	0.00	0.00	0.00
MO-99	0.00	0.00	0.00	0.00
TC-99M	0.00	0.00	0.00	0.00
RU-103	0.00	0.00	0.00	6.98E-07
RU-106	0.00	0.00	0.00	0.00
AG-110M	0.00	0.00	1.26E-07	1.26E-07
CD-109	0.00	0.00	0.00	1.63E-06
CD-113M	0.00	0.00	0.00	0.00
SN-113	0.00	0.00	0.00	0.00
SB-122	0.00	0.00	0.00	0.00
SB-124	0.00	0.00	0.00	0.00
SB-125	0.00	0.00	0.00	0.00
TE-132	0.00	0.00	0.00	0.00
I-132	0.00	0.00	0.00	0.00
I-134	0.00	0.00	0.00	0.00
CS-136	0.00	0.00	0.00	0.00
CS-138	0.00	0.00	0.00	0.00
BA-133	0.00	0.00	0.00	0.00
BA-139	0.00	0.00	0.00	0.00
CE-139	0.00	0.00	0.00	0.00
CE-144	0.00	0.00	0.00	0.00
EU-152	0.00	0.00	0.00	0.00
W-187	0.00	0.00	0.00	0.00
HG-203	0.00	0.00	0.00	0.00
PB-214	0.00	0.00	0.00	0.00
BI-214	0.00	0.00	0.00	0.00
RA-226	0.00	0.00	8.77E-08	1.17E-06
TH-228	4.05E-06	3.27E-07	1.41E-06	1.63E-05
U-235	0.00	0.00	0.00	0.00
NP-239	0.00	0.00	0.00	0.00

REMARKS:
0.00 = <MDA

PLOT OF UNIT #1 I-131 DOSE EQUIVALENT ACTIVITY
 FOR: 1/83 THROUGH 12/83

DATE	TIME	VALUE	UCI/ML							
			1E-6	1E-5	1E-4	1E-3	1E-2	1E-1	1E+0	1E+1
1/ 3/83	1445	3.633E-05.		*						
1/ 5/83	1415	1.812E-05.		*						
1/ 7/83	1130	5.449E-06.	*							
1/10/83	1040	9.809E-06.		*						
2/ 2/83	1305	1.488E-06.*								
4/11/83	1800	3.701E-06.	*							
4/13/83	1740	3.539E-03.				*				
4/15/83	1754	1.580E-04.			*					
4/18/83	1640	1.940E-04.			*					
4/19/83	1640	1.932E-04.			*					
4/20/83	1710	7.864E-05.			*					
4/22/83	1735	9.656E-05.			*					
4/27/83	1645	2.335E-05.		*						
5/29/83	955	3.291E-03.				*				
5/30/83	1337	8.137E-03.				*	*			
6/ 1/83	1028	1.165E-02.				*	*			
6/ 3/83	944	2.313E-02.				*	*			
6/ 6/83	1330	2.679E-02.				*	*			
6/ 8/83	1335	3.102E-02.				*	*			
6/10/83	1100	2.083E-02.				*	*			
6/11/83	1734	9.006E-02.				*	*			
6/13/83	1350	4.338E-02.				*	*			
6/15/83	1346	0.151				*	*			
6/17/83	916	0.253				*	*			
6/20/83	1540	0.129				*	*			
6/22/83	1311	8.364E-02.				*	*			
6/24/83	910	3.739E-02.				*	*			
6/27/83	945	2.415E-02.				*	*			
6/29/83	955	1.831E-02.				*	*			
7/ 1/83	1257	7.761E-03.				*	*			
7/ 4/83	1002	3.797E-02.				*	*			
7/ 6/83	930	5.738E-02.				*	*			
7/ 8/83	850	0.107				*	*			
7/18/83	1020	9.069E-03.				*	*			
7/20/83	1017	6.070E-03.				*	*			
7/22/83	910	4.187E-03.				*	*			
7/25/83	1020	7.195E-03.				*	*			
7/26/83	1310	1.374E-02.				*	*			
7/27/83	1945	2.481E-02.				*	*			
7/29/83	1437	3.034E-02.				*	*			
8/ 1/83	955	8.248E-02.				*	*			
8/ 3/83	925	0.111				*	*			
8/ 5/83	925	0.169				*	*			
8/ 8/83	934	0.154				*	*			
8/10/83	855	0.131				*	*			
8/12/83	925	9.257E-02.				*	*			
8/14/83	1431	0.394				*	*			
8/15/83	956	5.610E-02.				*	*			
8/17/83	953	4.580E-02.				*	*			
8/19/83	1115	3.637E-02.				*	*			
8/22/83	1633	4.892E-02.				*	*			

8/26/83	1035	0.189
8/29/83	952	5.172E-02
9/ 1/83	1336	0.247
9/ 2/83	1156	7.417E-02
9/ 5/83	1030	0.115
9/ 7/83	1750	0.144
9/ 9/83	930	0.188
9/11/83	1445	0.101
9/12/83	1545	4.471E-02
9/14/83	915	0.106
9/16/83	520	0.132
9/19/83	930	5.222E-02
9/21/83	925	7.563E-02
9/23/83	1015	0.114
9/26/83	952	0.106
9/27/83	940	0.114
9/28/83	947	0.139
9/29/83	935	0.154
9/30/83	1029	0.168
10/ 3/83	1057	0.189
10/ 5/83	940	0.476
10/ 6/83	1005	0.149
10/ 7/83	917	0.371
10/ 8/83	1005	0.282
10/ 9/83	1624	0.336
10/10/83	1505	0.214
10/12/83	1010	0.172
10/14/83	935	0.147
10/17/83	920	0.126
10/19/83	920	0.107
10/21/83	930	0.103
10/24/83	915	0.118
10/26/83	925	0.121
10/28/83	953	0.137
10/31/83	940	0.142
11/ 2/83	805	0.131
11/ 4/83	1318	0.119
11/ 7/83	855	0.109
11/ 9/83	818	9.871E-02
11/11/83	904	9.840E-02
11/14/83	830	0.107
11/16/83	915	9.563E-02
11/18/83	825	9.550E-02
11/21/83	812	9.312E-02
11/23/83	908	9.790E-02
11/25/83	825	0.104
11/28/83	916	0.104
11/30/83	845	8.385E-02
12/ 2/83	923	9.217E-02
12/ 5/83	1046	8.471E-02
12/ 7/83	924	9.266E-02
12/ 9/83	923	7.976E-02
12/12/83	927	8.026E-02
12/14/83	905	7.746E-02
12/16/83	839	8.233E-02
12/19/83	850	7.473E-02
12/21/83	850	6.922E-02
12/23/83	915	8.119E-02
12/26/83	819	7.142E-02
12/28/83	839	6.903E-02
12/30/83	828	6.462E-02

 ***** AP&L-AND RADIOCHEMISTRY DEPT. 29 FEB 1984 12:11:32 PM *****

PLOT OF UNIT #2 1-131 DOSE EQUIVALENT ACTIVITY
 FOR: 1/83 THROUGH 12/83

DATE	TIME	VALUE	UCI/ML							
			1E-6	1E-5	1E-4	1E-3	1E-2	1E-1	1E+0	1E+1
1/ 1/83	1630	0.498						*		
1/ 4/83	1623	0.387						*		
1/ 6/83	1000	0.266						*		
1/ 6/83	1642	0.226						*		
1/ 7/83	555	0.423						*		
1/ 8/83	1720	0.529						*		
1/11/83	1715	0.617						*		
1/13/83	1640	0.331						*		
1/15/83	1803	0.284						*		
1/18/83	2129	4.719E-02					*			
1/20/83	2125	8.089E-03				*				
1/22/83	1653	4.058E-03				*				
1/25/83	1714	1.835E-03			*					
1/27/83	1756	3.520E-03			*					
1/29/83	1640	1.236E-03			*					
2/ 1/83	1728	4.275E-03			*					
2/ 3/83	1737	5.510E-02					*			
2/ 6/83	108	8.720E-02					*			
2/ 8/83	2200	0.151					*	*		
2/ 9/83	522	0.164					*	*		
2/10/83	1630	9.549E-02					*	*		
2/12/83	1850	9.310E-02					*	*		
2/14/83	1326	0.136					*	*		
2/15/83	1930	2.137E-02					*	*		
2/17/83	1715	2.869E-02					*	*		
2/19/83	2030	8.765E-02					*	*		
2/22/83	1708	9.641E-02					*	*		
2/24/83	1754	0.109					*	*		
2/26/83	1723	0.130					*	*		
3/ 1/83	1652	0.105					*	*		
3/ 3/83	1633	0.147					*	*		
3/ 5/83	1805	0.109					*	*		
3/ 8/83	1640	8.289E-02					*	*		
3/10/83	1700	8.524E-02					*	*		
3/12/83	1707	8.944E-02					*	*		
3/15/83	1748	9.337E-02					*	*		
3/17/83	1726	8.528E-02					*	*		
3/19/83	1755	8.328E-02					*	*		
3/22/83	1650	8.337E-02					*	*		
3/24/83	1720	8.268E-02					*	*		
3/26/83	1737	8.690E-02					*	*		
3/29/83	2124	8.420E-02					*	*		
3/30/83	2124	8.417E-02					*	*		
3/31/83	1721	8.564E-02					*	*		
4/ 2/83	1436	9.764E-02					*	*		
4/ 5/83	1800	9.222E-02					*	*		
4/ 7/83	1646	9.022E-02					*	*		
4/ 9/83	1710	8.941E-02					*	*		
4/12/83	1700	7.911E-02					*	*		
4/14/83	1735	8.085E-02					*	*		
4/16/83	1646	8.020E-02					*	*		
4/18/83	1646	4.559E-02					*	*		

4/21/83	1731	8.420E-02.
4/23/83	1705	7.391E-02.
4/26/83	1640	6.664E-02.
4/28/83	1805	8.347E-02.
4/30/83	1708	8.120E-02.
5/ 3/83	1645	7.809E-02.
5/ 7/83	1608	8.621E-02.
5/10/83	1639	9.087E-02.
5/12/83	1714	8.991E-02.
5/14/83	1635	8.965E-02.
5/17/83	1333	7.947E-02.
5/19/83	1322	9.994E-02.
5/21/83	1000	8.048E-02.
5/24/83	1725	0.115
5/25/83	1100	9.765E-02.
5/26/83	1329	9.024E-02.
5/28/83	955	0.374
5/31/83	1332	0.135
6/ 2/83	1343	0.208
6/ 4/83	1355	0.108
6/ 7/83	1330	0.127
6/10/83	1800	0.114
6/11/83	1100	0.225
6/14/83	1353	0.137
6/16/83	1332	0.167
6/18/83	1010	0.114
6/21/83	1540	0.119
6/23/83	1334	0.122
6/24/83	1655	0.383
6/25/83	950	0.162
6/27/83	1045	0.184
6/28/83	1342	0.147
6/30/83	912	5.707E-02.
7/ 2/83	627	9.167E-02.
7/ 5/83	1007	0.116
7/ 7/83	935	0.143
7/ 9/83	1105	0.154
7/12/83	955	0.148
7/14/83	925	0.136
7/16/83	1030	0.127
7/19/83	1029	0.164
7/21/83	921	0.156
7/23/83	900	0.138
7/26/83	1321	0.124
7/29/83	1848	0.105
7/30/83	940	0.112
8/ 2/83	1000	0.122
8/ 4/83	1525	0.191
8/ 6/83	1820	0.161
8/ 9/83	1007	0.166
8/11/83	827	0.126
8/13/83	1005	0.125
8/16/83	610	0.100
8/18/83	1030	5.371E-02.
8/20/83	900	4.960E-02.
8/23/83	946	8.308E-02.
8/24/83	315	0.115
8/25/83	1657	3.211E-02.
8/27/83	900	1.756E-02.
8/30/83	1719	5.532E-03.
9/ 1/83	1454	3.526E-02.
9/ 3/83	914	7.320E-02.
9/ 6/83	1655	0.135
9/ 8/83	1655	0.157
9/10/83	942	0.153
9/12/83	927	0.144

9/15/83	858	0.161
9/17/83	646	0.162
9/26/83	938	0.138
9/22/83	800	0.148
9/24/83	1120	0.153
9/26/83	2005	0.240
9/27/83	933	0.223
9/29/83	910	6.091E-02
10/ 1/83	905	1.322E-02
10/ 4/83	1442	1.572E-03
10/ 6/83	855	4.901E-03
10/ 8/83	955	2.744E-03
10/13/83	1342	8.605E-04
10/15/83	1025	3.192E-04
10/22/83	630	1.153E-04
10/25/83	903	3.625E-05
10/27/83	922	2.405E-05
10/29/83	853	2.891E-05
11/ 1/83	921	2.765E-05
11/ 3/83	550	9.690E-06
11/ 5/83	600	6.739E-06
11/ 8/83	630	1.562E-05
11/10/83	555	3.982E-06
11/12/83	615	3.016E-06
11/15/83	1030	1.289E-05
11/17/83	800	1.972E-05
11/19/83	924	1.443E-05
11/22/83	750	1.229E-05
11/26/83	1710	1.163E-05
12/ 1/83	845	9.258E-06
12/ 8/83	813	2.800E-06
12/20/83	805	3.734E-06



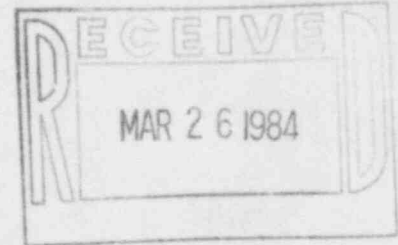
DMB

ARKANSAS POWER & LIGHT COMPANY
POST OFFICE BOX 551 LITTLE ROCK, ARKANSAS 72203 (501) 371-4000

March 19, 1984

ØCANØ384Ø5

Mr. John T. Collins
Regional Administrator
U. S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 1000
Arlington, TX 76011



SUBJECT: Arkansas Nuclear One - Units 1 & 2
Docket Nos. 50-313 and 50-368
License Nos. DPR-51 and NPF-6
Semi-Annual Radioactive Effluent Report

Gentlemen:

In accordance with 10CFR50.36a(a)(2), attached is the subject report for the third and fourth quarters of 1983.

Very truly yours,

John R. Marshall
John R. Marshall
Manager, Licensing

JRM: SAB: sc

Attachment

cc: Mr. Richard C. DeYoung
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Mr. Norman M. Haller, Director
Office of Management & Program Analysis
U. S. Nuclear Regulatory Commission
Washington, DC 20555