SEMI-ANNUAL EFFLUENT REPORT

January - June

1982

Public Service Company

Fort St. Vrain
Nuclear Generating Station

August 1982

1.0 Summary

This report summarizes the radiological effluent released from the Fort St. Vrain Nuclear Generating Station for the period January through June, 1982. In addition, Table 3.1 furnishes a general summary of the primary plant systems under radiological surveillance, and Table 4 summarizes the solid waste removed from the site during the aforementioned time period. This information is provided pursuant to the requirements of 10 CFR 50.36 a (a) (2).

Tritium was the radionuclide of principal interest released via the liquid pathway during the first half of 1982. A total of approximately 157 curies of tritium was released to the unrestricted area via batch and continuous releases.

Xenon 133 was the predominant radioisotope released from the station via the gaseous waste discharge pathway. Approximately 160 curies were released in the first half of 1982. Approximately 10 curies of Krypton 85 and 5 curies of tritium were released via gas waste discharges.

No halogens were identified in radiological effluent released during the first half of 1982.

No solid radioactive waste was removed from the station during the station during the reporting period.

TABLE 1.1 - RADIOACTIVE LIQUID EFFLUENT RELEASES FOR 1 QUARTER, 1982

	UNITS	JAN	FEB	MAR	QUARTERLY TOTAL
1. Gross Beta Radioactivity					
a) Total Release	Curies	1.40E-05	1.04E-04	3.09E-05	1.49E-04
b) Avg. Conc. before Dilution	µCi/ml	4.50E-07	1.22E-06	4.52E-07	8.19E-07*
c) Avg Conc. Released after Dilution	µCi/ml above bkgd	2.35E-09	3.05E-09	1.39E-09	2.34E-09*
2. Tritium					
a) Total Release	Curies	2.55E-02	6.73E-01	2.74E+01	9.48E+01
b) Avg. Conc. before Dilution	µCi/ml	8.27E-04	7.52E-01	3.97E-01	5.04E-01*
c) Avg Conc. Released after Dilution	µCi/ml above bkgd	4.82E-06	1.59E-03	1.37E-03	1.26E-03*
3. Dissolved Noble Gases					
a) Total Release	Curies	NSA	NSA	2.37E-07	2.37E-07
b) Avg. Conc. before Dilution	µCi/ml	NSA	NSA	2.95E-08	2.95E-08
c) Avg Conc. Released after Dilution	µCi/ml above bkgd	NSA	NSA	9.69E-11	9.69E-11
4. Gross Alpha Radioactivity					
a) Total Release	Curies	8.92E-07	1.85E-06	1.73E-06	4.47E-06
5. Total Volume of Liquid Released before Dilution	Liters	3.08E+04	8.55E+04	6.84E+04	1.85E+05
6. Total Volume of Liquid Used for Dilution	Liters	5.46E+06	3.96E+07	1.90E+07	6.41E+07
7. Estimated Total Radioactivity Released by Radio-Isotope above Background					
Nuclide / MPCw (µCi/ml)	Curies				
3H / 3E-03		2.55E-02	6.73E+01	2.74E+01	9.48E+01
137Cs / 2E-05		1.15E-06	9.23E-07	3.44E-06	5.51E-06
134Cs / 9E-06		5.99E-07	NSA	NSA	5.99E-07
60Co / 5E-04		3.02E-07	NSA	NSA	3.02E-07
97Nb / 9E-04		NSA	1.11E-05	NSA	1.11E-05
133Xe / 2E-04		NSA	NSA	2.37E-07	2.37E-07

*Represents a "weighted" average.

4.7E-05 = 4.7×10^{-5}

5.2E+03 = $5.2 \times 10^{+3}$

NSA means no significant activity.

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 514

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	1 582	TIME 2126
RELEASE COMPLETION	:	DATE	1 682	TIME 117
RELEASE DURATION	:	HRS.	3.85	MIN. 231.
TANK LEVEL [INCHES]	:	INITIAL	114.	FINAL 0.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	5792389.	FINAL 5826460.
TOTAL VOLUME RELEASED	:	LITERS	7513.	GALS 1985.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1289587.	GALS 340710.
AVERAGE RELEASE RATE	:	LPM	32.52	GPM 8.59
AVERAGE BLOWDOWN RATE	:	LPM	5582.63	GPM 1474.94

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
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G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.001	1 582	745	2.53E-08	6.62E-07	1.35E-03	0.00E-01	SD0006
B 33.002	1 582	750	2.53E-08	7.12E-07	1.34E-03	0.00E-01	SD0007
C 5.001	1 582	2030	4.01E-08	6.08E-08	5.87E-07		
D 6.001	1 682	317	4.02E-08	6.08E-08	5.87E-07		
E 7.001	1 582	2338	3.98E-08	6.08E-08	6.17E-06		
F 8.001	1 682	317	4.01E-08	6.08E-08	1.45E-06		
G 9.001	1 582	900	3.97E-08	6.07E-08	7.23E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.90E-07	2.53E-08	-8.34E-11	N/A
GROSS BETA	5.35E-06	7.12E-07	3.77E-09	1.26E+01
TRITIUM	1.01E-02	1.35E-03	7.81E-06	2.60E-01
137CS	4.51E-07	6.00E-08	3.48E-10	1.74E-03
134CS	3.06E-07	4.07E-08	2.36E-10	2.62E-03

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 515

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	1 982	TIME 1808
RELEASE COMPLETION	:	DATE	1 982	TIME 2155
RELEASE DURATION	:	HRS.	3.80	MIN. 228.
TANK LEVEL [INCHES]	:	INITIAL	122.	FINAL 0.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	6609150.	FINAL 6642440.
TOTAL VOLUME RELEASED	:	LITERS	8040.	GALS 2124.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1260027.	GALS 332900.
AVERAGE RELEASE RATE	:	LPM	35.26	GPM 9.32
AVERAGE BLOWDOWN RATE	:	LPM	5526.43	GPM 1460.09

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RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.003	1 982	730	3.77E-08	7.05E-07	1.17E-03	0.00E-01	SD0021
B 33.004	1 982	730	1.93E-08	5.48E-07	1.17E-03	0.00E-01	SD0022
C 5.002	1 982	1710	3.14E-08	5.52E-08	6.06E-07		
D 6.002	11082	50	3.13E-08	5.52E-08	6.06E-07		
E 7.002	1 982	2030	3.12E-08	5.52E-08	6.44E-06		
F 8.002	11082	42	3.13E-08	5.52E-08	6.06E-07		
G 9.002	11282	815	3.13E-08	5.52E-08	5.88E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	3.03E-07	3.77E-08	4.06E-11	N/A
GROSS BETA	5.67E-06	7.05E-07	4.12E-09	1.37E+01
TRITIUM	9.41E-03	1.17E-03	7.41E-06	2.47E-01
137CS	4.86E-07	6.05E-08	3.84E-10	1.92E-03

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 516

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	11282	TIME 1905
RELEASE COMPLETION	:	DATE	11282	TIME 2301
RELEASE DURATION	:	HRS.	3.93	MIN. 236.
TANK LEVEL [INCHES]	:	INITIAL	122.	FINAL 1.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	7271310.	FINAL 7308740.
TOTAL VOLUME RELEASED	:	LITERS	7974.	GALS 2107.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1416726.	GALS 374300.
AVERAGE RELEASE RATE	:	LPM	33.79	GPM 8.93
AVERAGE BLOWDOWN RATE	:	LPM	6003.07	GPM 1586.02

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RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.005	11082	2330	2.26E-08	3.15E-07	3.31E-04	0.00E-01	SD0027
B 33.006	11082	2335	1.92E-08	2.72E-07	3.26E-04	0.00E-01	SD0028
C 5.003	11282	1830	3.14E-08	5.52E-08	5.88E-07		
D 6.003	11382	330	3.14E-08	9.30E-08	5.88E-07		
E 7.003	11282	2130	3.14E-08	5.52E-08	4.70E-06		
F 8.003	11382	325	3.14E-08	5.52E-08	5.88E-07		
G 9.003	11982	815	2.24E-08	5.44E-08	6.31E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.80E-07	2.26E-08	1.12E-12	N/A
GROSS BETA	2.51E-06	3.15E-07	1.46E-09	4.86E+00
TRITIUM	2.64E-03	3.31E-04	1.85E-06	6.16E-02
137CS	2.12E-07	2.66E-08	1.49E-10	7.44E-04
134CS	2.93E-07	3.68E-08	2.06E-10	2.29E-03
60CO	3.02E-07	3.79E-08	2.12E-10	4.24E-05

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 517

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	11482	TIME 1724
RELEASE COMPLETION	:	DATE	11482	TIME 2134
RELEASE DURATION	:	HRS.	4.17	MIN. 250.
TANK LEVEL [INCHES]	:	INITIAL	110.	FINAL 0.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	7714840.	FINAL 7754270.
TOTAL VOLUME RELEASED	:	LITERS	7249.	GALS 1915.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1492426.	GALS 394300.
AVERAGE RELEASE RATE	:	LPM	29.00	GPM 7.66
AVERAGE BLOWDOWN RATE	:	LPM	5969.70	GPM 1577.20

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	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.007	11482	125	3.02E-08	6.81E-08	4.58E-04	0.00E-01	SD0041
B	33.008	11482	130	3.02E-08	6.29E-08	4.47E-04	0.00E-01	SD0042
C	5.004	11482	1630	3.06E-08	5.44E-08	5.84E-07		
D	6.004	11582	25	2.23E-08	5.44E-08	5.84E-07		
E	7.004	11482	2005	2.24E-08	6.45E-08	2.14E-06		
F	8.004	11582	20	2.23E-08	5.44E-08	5.84E-07		
G	9.002	11282	815	3.13E-08	5.52E-08	5.88E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	2.19E-07	3.02E-08	-5.32E-12	N/A
GROSS BETA	4.94E-07	6.81E-08	6.24E-11	2.08E-01
TRITIUM	3.32E-03	4.58E-04	2.21E-06	7.37E-02

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 518

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	2 182	TIME 1910
RELEASE COMPLETION	:	DATE	2 182	TIME 2210
RELEASE DURATION	:	HRS.	3.00	MIN. 180.
TANK LEVEL [INCHES]	:	INITIAL	80.	FINAL 2.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	1802246.	FINAL 1830244.
TOTAL VOLUME RELEASED	:	LITERS	5140.	GALS 1358.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1059724.	GALS 279980.
AVERAGE RELEASE RATE	:	LPM	28.56	GPM 7.54
AVERAGE BLOWDOWN RATE	:	LPM	5887.36	GPM 1555.44

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RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.019	2 182	625	1.66E-08	1.35E-06	1.66E-01	0.00E-01	SD0100
B 33.020	2 182	630	2.41E-08	1.36E-06	1.66E-01	0.00E-01	SD0101
C 5.005	2 182	1752	2.43E-08	6.49E-08	5.49E-07		
D 6.006	2 282	20	2.43E-08	6.49E-08	5.49E-07		
E 7.006	2 182	2020	2.44E-08	6.49E-08	8.29E-04		
F 8.006	2 282	10	7.36E-08	3.29E-07	2.71E-06		
G 9.005	2 282	830	2.52E-08	5.73E-08	9.98E-06		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.24E-07	2.41E-08	-5.31E-12	N/A
GROSS BETA	6.99E-06	1.36E-06	6.29E-09	2.10E+01
TRITIUM	8.53E-01	1.66E-01	8.01E-04	2.67E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 519

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	2 582	TIME 528
RELEASE COMPLETION	:	DATE	2 582	TIME 957
RELEASE DURATION	:	HRS.	4.45	MIN. 267.
TANK LEVEL [INCHES]	:	INITIAL	114.	FINAL 4.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	2557510.	FINAL 2598220.
TOTAL VOLUME RELEASED	:	LITERS	7249.	GALS 1915.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1540874.	GALS 407100.
AVERAGE RELEASE RATE	:	LPM	27.15	GPM 7.17
AVERAGE BLOWDOWN RATE	:	LPM	5771.06	GPM 1524.72

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RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.022	2 382	850	2.14E-08	1.52E-06	1.66E-01	0.00E-01	SD0111
B 33.023	2 382	855	2.14E-08	1.45E-06	1.50E-01	0.00E-01	SD0112
C 5.006	2 582	440	2.46E-08	6.47E-08	5.67E-07		
D 6.007	2 582	1250	2.44E-08	6.46E-08	6.68E-07		
E 7.007	2 582	745	2.37E-08	6.43E-08	2.96E-03		
F 8.007	2 582	1240	2.42E-08	6.46E-08	2.01E-06		
G 9.005	2 282	830	2.52E-08	5.73E-08	9.98E-06		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.55E-07	2.14E-08	-1.78E-11	N/A
GROSS BETA	1.10E-05	1.52E-06	6.85E-09	2.28E+01
TRITIUM	1.20E+00	1.66E-01	7.77E-04	2.59E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 520

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	2 882	TIME 2118
RELEASE COMPLETION	:	DATE	2 982	TIME 344
RELEASE DURATION	:	HRS.	6.47	MIN. 388.
TANK LEVEL [INCHES]	:	INITIAL	124.	FINAL 4.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	3276450.	FINAL 3355900.
TOTAL VOLUME RELEASED	:	LITERS	7908.	GALS 2089.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	3007183.	GALS 794500.
AVERAGE RELEASE RATE	:	LPM	20.38	GPM 5.38
AVERAGE BLOWDOWN RATE	:	LPM	7750.47	GPM 2047.68

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	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.026	2 882	655	1.91E-08	5.05E-07	7.11E-01	0.00E-01	SD0127
B	33.027	2 882	700	1.91E-08	4.77E-07	7.11E-01	0.00E-01	SD0128
C	5.007	2 882	1930	3.57E-08	5.61E-08	2.95E-06		
D	6.008	2 982	705	3.58E-08	5.61E-08	1.89E-05		
E	7.008	2 982	200	3.56E-08	5.61E-08	1.63E-03		
F	8.008	2 982	700	3.55E-08	5.60E-08	1.38E-06		
G	9.006	21082	1545	1.95E-08	6.01E-08	8.67E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.51E-07	1.91E-08	-1.05E-12	N/A
GROSS BETA	3.99E-06	5.05E-07	1.17E-09	3.89E+00
TRITIUM	5.62E+00	7.11E-01	1.86E-03	6.22E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 521

RELEASE MADE FROM	:	TANK	T-6202	
RELEASE START	:	DATE	21282	TIME 1915
RELEASE COMPLETION	:	DATE	21282	TIME 2100
RELEASE DURATION	:	HRS.	1.73	MIN. 104.
TANK LEVEL [INCHES]	:	INITIAL	47.	FINAL 6.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	4177930.	FINAL 4202970.
TOTAL VOLUME RELEASED	:	LITERS	2702.	GALS 714.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	947764.	GALS 250400.
AVERAGE RELEASE RATE	:	LPM	25.98	GPM 6.86
AVERAGE BLOWDOWN RATE	:	LPM	9113.12	GPM 2407.69

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RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBEP
A 33.031	21282	712	1.66E-08	1.11E-06	5.98E-01	0.00E-01	SD0148
B 33.032	21282	715	1.66E-08	1.08E-06	5.91E-01	0.00E-01	SD0149
C 5.008	21282	1830	1.95E-08	6.01E-08	7.66E-07		
D 6.009	21382	30	1.94E-08	6.24E-08	2.14E-06		
E 7.009	21282	2005	1.99E-08	6.91E-08	1.65E-03		
F 8.009	21382	25	1.99E-08	6.01E-08	6.80E-06		
G 9.006	21082	1545	1.95E-08	6.01E-08	8.67E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	4.49E-08	1.66E-08	-8.24E-12	N/A
GROSS BETA	3.00E-06	1.11E-06	2.98E-09	9.95E+00
TRITIUM	1.62E+00	5.98E-01	1.70E-03	5.67E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 522

RELEASE MADE FROM	:	TANK	T-6202	
RELEASE START	:	DATE	21482	TIME 1440
RELEASE COMPLETION	:	DATE	21482	TIME 2335
RELEASE DURATION	:	HRS.	8.90	MIN. 534.
TANK LEVEL [INCHES]	:	INITIAL	132.	FINAL 5.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	4657800.	FINAL 4785288.
TOTAL VOLUME RELEASED	:	LITERS	8369.	GALS 2211.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	4825421.	GALS 1274880.
AVERAGE RELEASE RATE	:	LPM	15.67	GPM 4.14
AVERAGE BLOWDOWN RATE	:	LPM	9036.37	GPM 2387.42

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E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.033	21482	700	1.54E-08	1.09E-06	1.04E+00	0.00E-01	SD0154
B 33.034	21482	705	1.34E-08	1.11E-06	1.04E+00	0.00E-01	SD0155
C 5.009	21482	1345	4.45E-08	6.00E-08	1.26E-05		
D 6.010	21582	335	1.95E-08	6.01E-08	3.54E-06		
E 7.010	21482	2130	3.48E-08	6.01E-08	1.74E-03		
F 8.010	21582	325	1.96E-08	6.01E-08	2.09E-06		
G 9.006	21082	1545	1.95E-08	6.01E-08	8.67E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.29E-07	1.54E-08	-7.10E-12	N/A
GROSS BETA	9.29E-06	1.11E-06	1.82E-09	6.06E+00
TRITIUM	8.70E+00	1.04E+00	1.80E-03	6.00E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 523

RELEASE MADE FROM	:	TANK	T-6202	
RELEASE START	:	DATE	21682	TIME 1830
RELEASE COMPLETION	:	DATE	21782	TIME 330
RELEASE DURATION	:	HRS.	9.00	MIN. 540.
TANK LEVEL [INCHES]	:	INITIAL	128.	FINAL 6.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	5131900.	FINAL 5252902.
TOTAL VOLUME RELEASED	:	LITERS	8040.	GALS 2124.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	4579926.	GALS 1210020.
AVERAGE RELEASE RATE	:	LPM	14.89	GPM 3.93
AVERAGE BLOWDOWN RATE	:	LPM	8481.34	GPM 2240.78

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
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D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.037	21682	655	1.35E-08	1.27E-06	1.05E+00	0.00E-01	SD0162
B	33.038	21682	700	1.39E-08	1.18E-06	1.03E+00	0.00E-01	SD0163
C	5.010	21682	1815	1.69E-08	6.19E-08	8.55E-07		
D	6.011	21782	730	3.99E-08	6.19E-08	3.66E-06		
E	7.011	21782	45	1.69E-08	6.19E-08	1.64E-03		
F	8.011	21782	720	1.69E-08	7.86E-08	2.59E-06		
G	9.007	21582	830	2.49E-08	6.19E-08	1.01E-05		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.12E-07	1.39E-08	-1.93E-11	N/A
GROSS BETA	1.02E-05	1.27E-06	2.12E-09	7.06E+00
TRITIUM	8.44E+00	1.05E+00	1.84E-03	6.13E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 524

RELEASE MADE FROM	:	TANK	T-6202	
RELEASE START	:	DATE	21882	TIME 1845
RELEASE COMPLETION	:	DATE	21982	TIME 330
RELEASE DURATION	:	HRS.	8.77	MIN. 526.
TANK LEVEL [INCHES]	:	INITIAL	127.	FINAL 5.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	5567340.	FINAL 5704402.
TOTAL VOLUME RELEASED	:	LITERS	8040.	GALS 2124.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	5187797.	GALS 1370620.
AVERAGE RELEASE RATE	:	LPM	15.28	GPM 4.04
AVERAGE BLOWDOWN RATE	:	LPM	9862.73	GPM 2605.74

DESCRIPTIONIONS :
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E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.041	21882	655	1.33E-08	1.93E-06	1.13E+00	0.00E-01	SD0176
B	33.042	21882	700	1.72E-08	1.95E-06	1.14E+00	0.00E-01	SD0177
C	5.011	21882	1735	1.69E-08	6.19E-08	9.53E-07		
D	6.012	21982	723	1.68E-08	6.19E-08	7.57E-07		
E	7.012	21982	100	1.99E-08	6.19E-08	1.77E-03		
F	8.012	21982	715	3.40E-08	5.50E-08	1.13E-05		
G	9.007	21582	830	2.49E-08	6.19E-08	1.01E-05		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.38E-07	1.72E-08	-1.19E-11	N/A
GROSS BETA	1.57E-05	1.95E-06	2.92E-09	9.74E+00
TRITIUM	9.17E+00	1.14E+00	1.76E-03	5.88E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 525

RELEASE MADE FROM	:	TANK	T-6202	
RELEASE START	:	DATE	22182	TIME 211
RELEASE COMPLETION	:	DATE	22182	TIME 905
RELEASE DURATION	:	HRS.	6.88	MIN. 413.
TANK LEVEL [INCHES]	:	INITIAL	123.	FINAL 5.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	6085220.	FINAL 6177000.
TOTAL VOLUME RELEASED	:	LITERS	7776.	GALS 2054.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	3473873.	GALS 917800.
AVERAGE RELEASE RATE	:	LPM	18.83	GPM 4.97
AVERAGE BLOWDOWN RATE	:	LPM	8411.31	GPM 2222.28

DESCRIPTIONIONS :
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F = BLOWDOWN SAMPLE - AFTER RELEASE
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RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.047	22082	1540	2.07E-08	1.25E-06	7.83E-01	0.00E-01	SD0192
B 33.048	22082	1545	1.75E-08	1.26E-06	7.91E-01	0.00E-01	SD0193
C 5.012	22182	100	2.97E-08	6.19E-08	1.28E-06		
D 6.013	22182	1155	1.68E-08	6.19E-08	2.48E-06		
E 7.013	22182	700	2.48E-08	6.18E-08	1.65E-03		
F 8.013	22182	1145	1.98E-08	6.19E-08	3.15E-06		
G 9.007	21582	830	2.49E-08	6.19E-08	1.01E-05		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.61E-07	2.07E-08	-9.38E-12	N/A
GROSS BETA	9.80E-06	1.26E-06	2.68E-09	8.92E+00
TRITIUM	6.15E+00	7.91E-01	1.77E-03	5.89E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 526

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	22382	TIME 1220
RELEASE COMPLETION	:	DATE	22382	TIME 1954
RELEASE DURATION	:	HRS.	7.60	MIN. 456.
TANK LEVEL [INCHES]	:	INITIAL	120.	FINAL 3.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	6656800.	FINAL 6771000.
TOTAL VOLUME RELEASED	:	LITERS	7710.	GALS 2037.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	4322470.	GALS 1142000.
AVERAGE RELEASE RATE	:	LPM	16.91	GPM 4.47
AVERAGE BLOWDOWN RATE	:	LPM	9479.10	GPM 2504.39

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E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.049	22282	640	2.50E-08	5.98E-07	9.08E-01	0.00E-01	SD0195
B 33.050	22292	643	2.31E-08	5.30E-07	9.02E-01	0.00E-01	SD0196
C 5.013	22382	1145	2.49E-08	6.17E-08	2.25E-06		
D 6.014	22382	2320	1.69E-08	6.17E-08	4.73E-06		
E 7.014	22382	1735	1.71E-08	6.18E-08	1.67E-03		
F 8.014	22382	2310	1.70E-08	6.18E-08	6.39E-06		
G 9.008	22382	840	2.90E-08	6.14E-08	5.60E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.93E-07	2.50E-08	-7.12E-12	N/A
GROSS BETA	4.61E-06	5.98E-07	9.55E-10	3.18E+00
TRITIUM	7.00E+00	9.08E-01	1.62E-03	5.39E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 527

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	22582	TIME 1941
RELEASE COMPLETION	:	DATE	22682	TIME 420
RELEASE DURATION	:	HRS.	8.63	MIN. 518.
TANK LEVEL [INCHES]	:	INITIAL	116.	FINAL 4.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	7242835.	FINAL 7364000.
TOTAL VOLUME RELEASED	:	LITERS	7381.	GALS 1950.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	4586096.	GALS 1211650.
AVERAGE RELEASE RATE	:	LPM	14.25	GPM 3.76
AVERAGE BLOWDOWN RATE	:	LPM	8853.47	GPM 2339.09

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E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.051	22582	633	2.57E-08	7.40E-07	1.03E+00	0.00E-01	SD0212
B 33.052	22582	635	1.44E-08	6.83E-07	1.07E+00	0.00E-01	SD0213
C 5.014	22582	1920	2.49E-08	6.17E-08	5.61E-07		
D 6.015	22682	630	3.00E-08	6.18E-08	4.17E-06		
E 7.015	22682	130	2.49E-08	6.17E-08	1.52E-03		
F 8.015	22682	630	1.70E-08	6.18E-08	4.88E-06		
G 9.008	22382	840	2.90E-08	6.14E-08	5.60E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.90E-07	2.57E-08	-5.30E-12	N/A
GROSS BETA	5.46E-06	7.40E-07	1.09E-09	3.63E+00
TRITIUM	7.90E+00	1.07E+00	1.72E-03	5.73E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 528

RELEASE MADE FROM	:	TANK	T-6202	
RELEASE START	:	DATE	22782	TIME 2028
RELEASE COMPLETION	:	DATE	22882	TIME 328
RELEASE DURATION	:	HRS.	6.98	MIN. 419.
TANK LEVEL [INCHES]	:	INITIAL	129.	FINAL 6.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	7732440.	FINAL 7824200.
TOTAL VOLUME RELEASED	:	LITERS	8106.	GALS 2142.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	3473116.	GALS 917600.
AVERAGE RELEASE RATE	:	LPM	19.35	GPM 5.11
AVERAGE BLOWDOWN RATE	:	LPM	8289.06	GPM 2189.98

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E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.053	22782	605	2.31E-08	1.38E-06	7.98E-01	0.00E-01	SD0222
B 33.054	22782	610	2.31E-08	1.26E-06	7.97E-01	0.00E-01	SD0235
C 5.015	22782	1940	1.50E-08	7.47E-08	5.67E-07		
D 6.016	22882	745	1.49E-08	5.48E-08	2.05E-06		
E 7.016	22882	130	2.49E-08	5.48E-08	1.79E-03		
F 8.016	22882	730	1.38E-08	8.77E-08	7.31E-07		
G 9.008	22382	840	2.90E-08	6.14E-08	5.60E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.87E-07	2.31E-08	-1.37E-11	N/A
GROSS BETA	1.12E-05	1.38E-06	3.07E-09	1.02E+01
TRITIUM	6.47E+00	7.98E-01	1.86E-03	6.19E+01
137CS	4.12E-07	5.08E-08	1.18E-10	5.91E-02
97NB	1.11E-05	1.37E-06	3.19E-09	3.54E-02

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 529

RELEASE MADE FROM	:	TANK	T-6202	
RELEASE START	:	DATE	22882	TIME 1815
RELEASE COMPLETION	:	DATE	22882	TIME 2325
RELEASE DURATION	:	HRS.	5.20	MIN. 312.
TANK LEVEL [INCHES]	:	INITIAL	112.	FINAL 4.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	7980330.	FINAL 8050000.
TOTAL VOLUME RELEASED	:	LITERS	7117.	GALS 1880.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	2637010.	GALS 696700.
AVERAGE RELEASE RATE	:	LPM	22.81	GPM 6.03
AVERAGE BLOWDOWN RATE	:	LPM	8451.95	GPM 2233.01

DESCRIPTIONIONS :
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D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.055	22882	1050	2.90E-08	1.81E-06	5.92E-01	0.00E-01	SD0228
B 33.056	22882	1055	3.70E-08	1.80E-06	5.86E-01	0.00E-01	SD0229
C 5.016	22882	1800	5.00E-08	9.75E-08	5.73E-07		
D 6.017	3 182	250	4.99E-08	5.48E-08	3.81E-06		
E 7.017	22882	2110	2.99E-08	8.77E-08	1.79E-03		
F 8.017	3 182	300	3.99E-08	5.48E-08	5.70E-07		
G 9.008	22382	840	2.90E-08	6.14E-08	5.60E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	2.63E-07	3.70E-08	2.15E-11	N/A
GROSS BETA	1.29E-05	1.81E-06	4.71E-09	1.57E+01
TRITIUM	4.21E+00	5.92E-01	1.59E-03	5.31E+01
137CS	5.12E-07	7.19E-08	1.94E-10	9.68E-02

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 530

RELEASE MADE FROM	:	TANK	T-6203	
RELEASE START	:	DATE	3 282	TIME 2153
RELEASE COMPLETION	:	DATE	3 382	TIME 153
RELEASE DURATION	:	HRS.	3.98	MIN. 239.
TANK LEVEL [INCHES]	:	INITIAL	130.	FINAL 5.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	8367360.	FINAL 8409200.
TOTAL VOLUME RELEASED	:	LITERS	8238.	GALS 2176.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1583644.	GALS 418400.
AVERAGE RELEASE RATE	:	LPM	34.47	GPM 9.11
AVERAGE BLOWDOWN RATE	:	LPM	6626.13	GPM 1750.63

DESCRIPTIONIONS :
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D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.059	3 282	645	2.97E-08	4.84E-07	2.55E-01	0.00E-01	SD0238
B 33.060	3 282	650	2.08E-08	2.95E-07	2.58E-01	0.00E-01	SD0239
C 5.017	3 282	2045	2.16E-08	9.74E-08	5.76E-07		
D 6.018	3 382	545	2.17E-08	6.11E-08	1.23E-06		
E 7.018	3 382	100	4.43E-08	6.10E-08	1.14E-03		
F 8.018	3 382	540	2.20E-08	6.12E-08	2.18E-05		
G 9.009	3 282	1345	2.24E-08	6.13E-08	5.76E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	2.45E-07	2.97E-08	3.78E-11	N/A
GROSS BETA	3.99E-06	4.84E-07	2.19E-09	7.29E+00
TRITIUM	2.13E+00	2.58E-01	1.34E-03	4.45E+01
137CS	2.92E-06	3.55E-07	1.84E-09	9.19E-01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 531

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	3 482	TIME 115
RELEASE COMPLETION	:	DATE	3 482	TIME 935
RELEASE DURATION	:	HRS.	8.30	MIN. 498.
TANK LEVEL [INCHES]	:	INITIAL	121.	FINAL 3.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	8608400.	FINAL 8697189.
TOTAL VOLUME RELEASED	:	LITERS	7776.	GALS 2054.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	3360664.	GALS 887890.
AVERAGE RELEASE RATE	:	LPM	15.61	GPM 4.13
AVERAGE BLOWDOWN RATE	:	LPM	6748.32	GPM 1782.91

DESCRIPTIONIONS :
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B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
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D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.063	3 382	610	2.28E-08	7.32E-07	8.00E-01	0.00E-01	SD0246
B 33.064	3 382	615	2.28E-08	6.50E-07	7.98E-01	0.00E-01	SD0247
C 5.018	3 482	100	2.16E-08	6.10E-08	5.70E-07		
D 6.019	3 482	1240	2.16E-08	6.10E-08	5.70E-07		
E 7.019	3 482	700	2.46E-08	6.10E-08	1.50E-03		
F 8.019	3 482	1240	2.16E-08	6.10E-08	3.75E-06		
G 9.009	3 282	1345	2.24E-08	6.13E-08	5.76E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.77E-07	2.28E-08	9.23E-13	N/A
GROSS BETA	5.69E-06	7.32E-07	1.55E-09	5.16E+00
TRITIUM	6.22E+00	8.00E-01	1.85E-03	6.16E+01
137CS	5.12E-07	6.58E-08	1.52E-10	7.60E-02

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 532

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	3 682	TIME 1800
RELEASE COMPLETION	:	DATE	3 682	TIME 2240
RELEASE DURATION	:	HRS.	4.68	MIN. 281.
TANK LEVEL [INCHES]	:	INITIAL	118.	FINAL 4.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	9179300.	FINAL 9237600.
TOTAL VOLUME RELEASED	:	LITERS	7513.	GALS 1985.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	2206655.	GALS 583000.
AVERAGE RELEASE RATE	:	LPM	26.74	GPM 7.06
AVERAGE BLOWDOWN RATE	:	LPM	7852.86	GPM 2074.73

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.065	3 682	705	2.57E-08	2.42E-07	3.27E-01	0.00E-01	SD0262
B 33.066	3 682	710	1.74E-08	1.30E-07	3.24E-01	0.00E-01	SD0263
C 5.019	3 682	1645	2.37E-08	7.02E-08	5.40E-07		
D 6.020	3 782	220	2.38E-07	7.03E-08	1.08E-06		
E 7.020	3 682	2045	2.98E-08	7.03E-08	1.13E-03		
F 8.020	3 782	230	2.32E-08	6.99E-08	5.83E-05		
G 9.009	3 282	1345	2.24E-08	6.13E-08	5.76E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.93E-07	2.57E-08	1.12E-11	N/A
GROSS BETA	1.82E-06	2.42E-07	6.13E-10	2.04E+00
TRITIUM	2.46E+00	3.27E-01	1.11E-03	3.70E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 533

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	31082	TIME 2029
RELEASE COMPLETION	:	DATE	31182	TIME 19
RELEASE DURATION	:	HRS.	3.85	MIN. 231.
TANK LEVEL [INCHES]	:	INITIAL	112.	FINAL 2.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	104750.	FINAL 158800.
TOTAL VOLUME RELEASED	:	LITERS	7249.	GALS 1915.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	2045793.	GALS 540500.
AVERAGE RELEASE RATE	:	LPM	31.38	GPM 8.29
AVERAGE BLOWDOWN RATE	:	LPM	8856.24	GPM 2339.83

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.067	31082	640	1.88E-08	4.19E-07	3.39E-01	0.00E-01	SD0285
B	33.068	31082	645	2.52E-08	4.58E-07	3.47E-01	0.00E-01	SD0286
C	5.020	31082	1927	2.38E-08	7.02E-08	5.77E-07		
D	6.021	31182	308	2.40E-08	7.03E-08	5.14E-05		
E	7.021	31082	2250	2.38E-08	7.03E-08	1.18E-03		
F	8.021	31182	300	2.49E-08	7.03E-08	5.77E-07		
G	9.010	31082	900	2.31E-08	6.99E-08	1.06E-05		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.83E-07	2.52E-08	7.41E-12	N/A
GROSS BETA	3.32E-06	4.58E-07	1.37E-09	4.57E+00
TRITIUM	2.51E+00	3.47E-01	1.22E-03	4.08E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 534

RELEASE MADE FROM	:	TANK	T-6203		
RELEASE START	:	DATE	31282	TIME	2130
RELEASE COMPLETION	:	DATE	31382	TIME	307
RELEASE DURATION	:	HRS.	5.58	MIN.	335.
TANK LEVEL [INCHES]	:	INITIAL	128.	FINAL	6.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	288244.	FINAL	352700.
TOTAL VOLUME RELEASED	:	LITERS	8040.	GALS	2124.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	2439660.	GALS	644560.
AVERAGE RELEASE RATE	:	LPM	24.00	GPM	6.34
AVERAGE BLOWDOWN RATE	:	LPM	7282.57	GPM	1924.06

DESCRIPTIONIONS :
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D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.069	31282	705	2.30E-08	4.04E-07	5.12E-01	2.95E-08	SD0298
B 33.070	31282	710	2.30E-08	3.80E-07	5.09E-01	2.95E-08	SD0299
C 5.021	31282	2030	2.04E-08	6.67E-08	5.70E-07		
D 6.022	31382	620	1.74E-08	6.67E-08	5.80E-07		
E 7.022	31382	140	3.03E-08	6.66E-08	1.36E-03		
F 8.022	31382	615	1.72E-08	6.66E-08	1.27E-05		
G 9.010	31082	900	2.31E-08	6.99E-08	1.06E-05		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.85E-07	2.30E-08	-3.28E-13	N/A
GROSS BETA	3.25E-06	4.04E-07	1.10E-09	3.66E+00
TRITIUM	4.11E+00	5.12E-01	1.68E-03	5.60E+01
133XE	2.37E-07	2.95E-08	9.69E-11	4.84E-03

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 535

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	31782	TIME 1140
RELEASE COMPLETION	:	DATE	31782	TIME 1713
RELEASE DURATION	:	HRS.	5.53	MIN. 332.
TANK LEVEL [INCHES]	:	INITIAL	128.	FINAL 2.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	1298700.	FINAL 1372400.
TOTAL VOLUME RELEASED	:	LITERS	8303.	GALS 2194.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	2789545.	GALS 737000.
AVERAGE RELEASE RATE	:	LPM	25.01	GPM 6.61
AVERAGE BLOWDOWN RATE	:	LPM	8402.24	GPM 2219.88

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
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C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.071	31682	2015	2.53E-08	6.16E-07	5.04E-01	0.00E-01	SD0312
B	33.072	31682	2020	2.53E-08	5.72E-07	5.10E-01	0.00E-01	SD0313
C	10.001	31782	1015	4.09E-08	6.33E-08	5.70E-07		
D	11.001	31782	2110	2.04E-08	6.33E-08	2.41E-05		
E	7.023	31782	1540	1.10E-08	6.32E-08	1.06E-03		
F	8.023	31782	2110	2.02E-08	6.32E-08	2.59E-06		
G	9.011	31582	845	1.67E-08	6.63E-08	1.43E-05		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	2.10E-07	2.53E-08	2.55E-11	N/A
GROSS BETA	5.11E-06	6.16E-07	1.63E-09	5.44E+00
TRITIUM	4.23E+00	5.10E-01	1.51E-03	5.04E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 536

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	31882	TIME 1855
RELEASE COMPLETION	:	DATE	31882	TIME 2308
RELEASE DURATION	:	HRS.	4.22	MIN. 253.
TANK LEVEL [INCHES]	:	INITIAL	114.	FINAL 1.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	1625700.	FINAL 1672000.
TOTAL VOLUME RELEASED	:	LITERS	7447.	GALS 1967.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1752455.	GALS 463000.
AVERAGE RELEASE RATE	:	LPM	29.43	GPM 7.78
AVERAGE BLOWDOWN RATE	:	LPM	6926.70	GPM 1830.04

DESCRIPTIONIONS :
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D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.073	31882	800	2.40E-08	2.50E-07	3.17E-01	0.00E-01	SD0322
B	33.074	31882	805	1.65E-08	2.39E-07	3.18E-01	0.00E-01	SD0323
C	10.002	31882	1755	2.55E-08	6.33E-08	5.60E-07		
D	11.002	31982	125	4.54E-08	6.32E-08	5.83E-07		
E	7.024	31882	2115	5.53E-08	6.32E-08	1.17E-03		
F	8.024	31982	115	2.02E-08	6.32E-08	2.00E-05		
G	9.011	31582	845	1.67E-08	6.63E-08	1.43E-05		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.79E-07	2.40E-08	3.09E-11	N/A
GROSS BETA	1.86E-06	2.50E-07	7.77E-10	2.59E+00
TRITIUM	2.37E+00	3.18E-01	1.35E-03	4.49E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 537

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	32482	TIME 1945
RELEASE COMPLETION	:	DATE	32482	TIME 2305
RELEASE DURATION	:	HRS.	3.33	MIN. 200.
TANK LEVEL [INCHES]	:	INITIAL	102.	FINAL 3.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	2773650.	FINAL 2814100.
TOTAL VOLUME RELEASED	:	LITERS	6524.	GALS 1724.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1531033.	GALS 404500.
AVERAGE RELEASE RATE	:	LPM	32.62	GPM 8.62
AVERAGE BLOWDOWN RATE	:	LPM	7655.16	GPM 2022.50

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
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C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.075	32382	630	2.88E-08	7.85E-07	3.50E-01	0.00E-01	SD0339
B	33.076	32382	635	2.88E-08	6.86E-07	3.48E-01	0.00E-01	SD0340
C	5.022	32482	1820	2.44E-08	5.83E-08	5.69E-07		
D	6.023	32582	200	3.54E-08	5.83E-08	1.40E-06		
E	7.025	32482	1010	2.44E-08	6.24E-08	1.07E-03		
F	8.025	32582	200	2.44E-08	5.83E-08	5.69E-07		
G	9.012	32282	1100	2.34E-08	6.85E-08	1.39E-05		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.88E-07	2.88E-08	2.29E-11	N/A
GROSS BETA	5.12E-06	7.85E-07	3.04E-09	1.01E+01
TRITIUM	2.29E+00	3.50E-01	1.49E-03	4.96E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 538

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	32982	TIME 2058
RELEASE COMPLETION	:	DATE	33082	TIME 30
RELEASE DURATION	:	HRS.	3.57	MIN. 214.
TANK LEVEL [INCHES]	:	INITIAL	111.	FINAL 0.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	3896850.	FINAL 3931986.
TOTAL VOLUME RELEASED	:	LITERS	7315.	GALS 1933.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1329898.	GALS 351360.
AVERAGE RELEASE RATE	:	LPM	34.18	GPM 9.03
AVERAGE BLOWDOWN RATE	:	LPM	6214.48	GPM 1641.87

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.077	32982	615	2.36E-08	9.88E-08	1.47E-01	0.00E-01	SD0359
B 33.078	32982	620	2.33E-08	7.33E-08	1.50E-01	0.00E-01	SD0360
C 5.023	32982	2055	1.99E-08	5.88E-08	5.96E-07		
D 6.024	33082	230	1.38E-08	5.89E-08	5.96E-07		
E 7.026	32982	2310	2.48E-08	5.88E-08	6.19E-04		
F 8.026	33082	230	3.99E-08	5.89E-08	1.84E-05		
G 9.013	32982	1315	3.01E-08	5.91E-08	5.96E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.73E-07	2.36E-08	-3.56E-11	N/A
GROSS BETA	7.23E-07	9.88E-08	2.17E-10	7.24E-01
TRITIUM	1.10E+00	1.50E-01	8.19E-04	2.73E+01

TABLE 1.3: LIQUID EFFLUENT RELEAED VIA THE TURBINE BUILDING SUMP AND THE REACTOR BUILDING SUMP (CONTINUOUS RELEASE)

1 QUARTER 1982

TURBINE BUILDING SUMP

	MONTH	JAN	FEB	MAR	QUARTERLY TOTAL
VOLUME	LITERS	2.79E+06	3.09E+06	3.70E+06	9.58E+06
TRITIUM	AVERAGE µCi/ml	1.71E-05	2.81E-05	2.67E-05	6.45E-05*
	TOTAL CURIES	4.77E-02	8.68E-02	9.88E-02	2.33E-01
GROSS βγ	AVERAGE µCi/ml	6.27E-08	6.64E-08	6.24E-08	6.48E-08*
	TOTAL CURIES	1.75E-04	2.05E-04	2.31E-04	6.11E-04
GROSS α	AVERAGE µCi/ml	2.52E-08	2.31E-08	2.27E-08	2.06E-05*
	TOTAL CURIES	7.03E-05	7.14E-05	8.40E-05	2.26E-04

REACTOR BUILDING SUMP

	MONTH	JAN	FEB	MAR	QUARTERLY TOTAL
VOLUME	LITERS	1.14E+06	4.45E+05	8.51E+05	2.44E+06
TRITIUM	AVERAGE µCi/ml	6.12E-05	6.62E-05	6.62E-05	2.40E-05*
	TOTAL CURIES	6.98E-02	2.95E-02	5.63E-02	1.56E-01
GROSS βγ	AVERAGE µCi/ml	6.15E-08	6.68E-08	6.63E-08	6.38E-08*
	TOTAL CURIES	7.01E-05	2.97E-05	5.64E-05	1.56E-04
GROSS α	AVERAGE µCi/ml	2.98E-08	2.41E-08	2.00E-08	2.45E-08*
	TOTAL CURIES	3.40E-05	1.07E-05	1.70E-05	6.17E-05

* Represents "weighted" average

TABLE 2.1 - RADIOACTIVE GASEOUS EFFLUENT RELEASES FOR 1 QUARTER, 1982

	UNITS	JAN	FEB	MAR	QUARTERLY TOTAL
1a. Total Noble Gases	Curies	NSA	1.93E+00	1.72E+00	3.65E+00
1b. Total Tritium	Curies	1.09E-01	6.80E-01	2.82E-01	1.07E+00
1c. Total Halogens	Curies	NSA	NSA	NSA	NSA
1d. Total Particulate Gross (β,γ) Activity RT-7325	Curies	9.71E-02	8.59E-02	8.45E-02	2.61E-01
1e. Total Particulate Gross (Alpha Activity RT-7325	Curies	3.79E-02	3.25E-02	2.14E-02	9.18E-02
2. Maximum Hourly Release Rate for Any One Hour Period	Ci/hr	5.87E-03	8.50E-02	3.04E-02	8.50E-02
3. Estimated Total Radioactivity Released by Nuclide (MPCa)					
Particulates MPCa	Curies	NSA	NSA	NSA	NSA
Halogens MPCa	Curies	NSA	NSA	NSA	NSA
Gases MPCa	Curies				
3H		1.09E-01	6.80E-01	2.82E-01	1.07E+00
85Kr		NSA	1.93E+00	1.69E+00	3.62E+00
133Xe		NSA	NSA	2.95E-02	2.95E-02

$4.7E-05 = 4.7 \times 10^{-5}$

$5.2E+03 = 5.2 \times 10^{+3}$

NSA means no significant activity.

GAS WASTE SUMMARY FOR RELEASE NUMBER 583

RELEASE START DATE 13082. TIME 2301.
RELEASE COMPLETION DATE 13182. TIME 1732.

RELEASE DURATION 1111 MINUTES OR 18.52 HOURS

TANK PRESSURES INITIAL 380 PSIG FINAL 50 PSIG

TANK TEMPERATURE 78 DEG-F

AVERAGE RELEASE RATE 12.99 CFM

TOTAL VOLUME OF GAS RELEASED 4.09E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 93 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.001 TRITIUM 35.001

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	2.66E-04	2.00E-07	1.33E 03	1.09E-01

TOTAL CURIES OF NOBLE GAS RELEASED 0.00E-01

AVERAGE RELEASE RATE 5.87E-03 CI/HR OR 1.63E 00 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 2.72E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	10.0	0.0	2.0	2.0	6.0
PERCENT	0.0	0.0	0.0	5.3	0.0	5.3	5.3	5.3

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	5.3	2.0	0.0	0.0	0.0	0.0	6.0	0.0
PERCENT	31.4	5.3	0.0	0.0	0.0	0.0	5.3	0.0

PERCENT CALM 36.8

GAS WASTE SUMMARY FOR RELEASE NUMBER 584

RELEASE START DATE 20582. TIME 2021.
RELEASE COMPLETION DATE 20682. TIME 905.

RELEASE DURATION 764 MINUTES OR 12.73 HOURS

TANK PRESSURES INITIAL 340 PSIG FINAL 50 PSIG

TANK TEMPERATURE 80 DEG-F

AVERAGE RELEASE RATE 16.53 CFM

TOTAL VOLUME OF GAS RELEASED 3.58E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 84 DEG-F. FLOWRATE 28000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.002 TRITIUM 35.002

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.41E-04	2.00E-07	7.05E 02	5.04E-02

TOTAL CURIES OF NOBLE GAS RELEASED 0.00E-01

AVERAGE RELEASE RATE 3.96E-03 CI/HR OR 1.10E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 1.83E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	4.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0
PERCENT	13.3	0.0	0.0	13.3	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	8.0	7.8	10.0	0.0	0.0	0.0	0.0	0.0
PERCENT	26.7	40.0	6.7	0.0	0.0	0.0	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 585

RELEASE START DATE 20882. TIME 2030.
RELEASE COMPLETION DATE 20982. TIME 1325.

RELEASE DURATION 1015 MINUTES OR 16.92 HOURS

TANK PRESSURES INITIAL 430 PSIG FINAL 50 PSIG

TANK TEMPERATURE 76 DEG-F

AVERAGE RELEASE RATE 16.43 CFM

TOTAL VOLUME OF GAS RELEASED 4.72E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 86 DEG-F. FLOWRATE 28000. ACFM

STABILITY CATAGORY E

RC-NUMBERS GRAB 34.003 TRITIUM 35.003

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.33E-04	2.00E-07	6.65E 02	6.28E-02

TOTAL CURIES OF NOBLE GAS RELEASED 0.00E-01

AVERAGE RELEASE RATE 3.71E-03 CI/HR OR 1.03E 00 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 1.72E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	6.0	0.0	0.0	4.0	2.0	0.0
PERCENT	0.0	0.0	17.6	0.0	0.0	11.8	5.9	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PERCENT CALM 52.9

GAS WASTE SUMMARY FOR RELEASE NUMBER 586

RELEASE START DATE 21182. TIME 2200.
RELEASE COMPLETION DATE 21282. TIME 1406.

RELEASE DURATION 966 MINUTES OR 16.10 HOURS

TANK PRESSURES INITIAL 380 PSIG FINAL 50 PSIG

TANK TEMPERATURE 73 DEG-F

AVERAGE RELEASE RATE 15.07 CFM

TOTAL VOLUME OF GAS RELEASED 4.12E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 84 DEG-F. FLOWRATE 27000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.004 TRITIUM 35.004

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.69E-04	2.00E-07	8.45E 02	6.97E-02
85KR	3.15E-03	3.00E-07	1.05E 04	1.30E 00

TOTAL CURIES OF NOBLE GAS RELEASED 1.30E 00

AVERAGE RELEASE RATE 8.50E-02 CI/HR OR 2.36E 01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 2.69E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	3.0	3.5	0.0	4.0
PERCENT	0.0	0.0	0.0	0.0	17.6	11.8	0.0	5.9

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	3.0	3.5	3.0	7.0	6.6	0.0	0.0	0.0
PERCENT	5.9	11.8	5.9	23.5	17.6	0.0	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 587

RELEASE START DATE 21782. TIME 1640.
RELEASE COMPLETION DATE 21882. TIME 1251.

RELEASE DURATION 1211 MINUTES OR 20.18 HOURS

TANK PRESSURES INITIAL 440 PSIG FINAL 46 PSIG

TANK TEMPERATURE 74 DEG-F

AVERAGE RELEASE RATE 14.33 CFM

TOTAL VOLUME OF GAS RELEASED 4.91E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 88 DEG-F. FLOWRATE 24000. ACFM

STABILITY CATAGORY E

RC-NUMBERS GRAB 34.005 TRITIUM 35.005

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	2.99E-04	2.00E-07	1.49E 03	1.47E-01

TOTAL CURIES OF NOBLE GAS RELEASED 0.00E-01

AVERAGE RELEASE RATE 7.28E-03 CI/HR OR 2.02E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 3.37E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	9.0	9.0	16.0	9.0	1.0	2.0	0.0
PERCENT	0.0	9.1	13.6	13.6	9.1	4.5	4.5	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	1.0	0.0	1.0	0.0	3.0	0.0	2.0	0.0
PERCENT	4.5	0.0	4.5	0.0	22.7	0.0	4.5	0.0

PERCENT CALM 9.1

GAS WASTE SUMMARY FOR RELEASE NUMBER 588

RELEASE START DATE 22382. TIME 330.
RELEASE COMPLETION DATE 22382. TIME 1830.

RELEASE DURATION 900 MINUTES OR 15.00 HOURS

TANK PRESSURES INITIAL 460 PSIG FINAL 85 PSIG

TANK TEMPERATURE 78 DEG-F

AVERAGE RELEASE RATE 18.22 CFM

TOTAL VOLUME OF GAS RELEASED 4.64E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 90 DEG-F. FLOWRATE 25000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.006 TRITIUM 35.006

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	2.73E-04	2.00E-07	1.36E 03	1.27E-01
85KR	7.64E-04	3.00E-07	2.55E 03	3.55E-01

TOTAL CURIES OF NOBLE GAS RELEASED 3.55E-01

AVERAGE RELEASE RATE 3.21E-02 CI/HR OR 8.91E 00 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 1.12E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	8.7	0.0	0.0	0.0	15.5	0.0	0.0	0.0
PERCENT	31.3	0.0	0.0	0.0	12.5	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	0.0	0.0	10.0	5.3	0.0	5.0	0.0
PERCENT	0.0	0.0	0.0	6.2	31.3	0.0	18.7	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 589

RELEASE START DATE 22582. TIME 1530.
RELEASE COMPLETION DATE 22682. TIME 530.

RELEASE DURATION 840 MINUTES OR 14.00 HOURS

TANK PRESSURES INITIAL 440 PSIG FINAL 52 PSIG

TANK TEMPERATURE 80 DEG-F

AVERAGE RELEASE RATE 20.12 CFM

TOTAL VOLUME OF GAS RELEASED 4.79E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 92 DEG-F. FLOWRATE 25000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.007 TRITIUM 35.007

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	2.23E-04	2.00E-07	1.11E 03	1.07E-01

TOTAL CURIES OF NOBLE GAS RELEASED 0.00E-01

AVERAGE RELEASE RATE 7.62E-03 CI/HR OR 2.12E 00 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 3.53E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
PERCENT	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	7.0	4.0	0.0	9.0	9.5	0.0	0.0	0.0
PERCENT	6.7	13.3	0.0	13.3	13.3	0.0	0.0	0.0

PERCENT CALM 46.7

GAS WASTE SUMMARY FOR RELEASE NUMBER 590

RELEASE START DATE 22782. TIME 1943.
RELEASE COMPLETION DATE 22882. TIME 1417.

RELEASE DURATION 1114 MINUTES OR 18.57 HOURS

TANK PRESSURES INITIAL 430 PSIG FINAL 45 PSIG

TANK TEMPERATURE 78 DEG-F

AVERAGE RELEASE RATE 15.11 CFM

TOTAL VOLUME OF GAS RELEASED 4.77E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 92 DEG-F. FLOWRATE 25000. ACFM

STABILITY CATAGORY E

RC-NUMBERS GRAB 34.008 TRITIUM 35.008

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	2.44E-04	2.00E-07	1.22E 03	1.16E-01
85KR	5.76E-04	3.00E-07	1.92E 03	2.75E-01

TOTAL CURIES OF NOBLE GAS RELEASED 2.75E-01

AVERAGE RELEASE RATE 2.10E-02 CI/HR OR 5.85E 00 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 7.46E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	1.6	0.0	0.0	3.0	0.0	0.0	0.0	0.0
PERCENT	15.8	0.0	0.0	10.5	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	8.7	5.0	0.0	1.0	2.0	2.0	0.0	8.0
PERCENT	21.1	5.3	0.0	5.3	5.3	5.3	0.0	26.3

PERCENT CALM 5.3

GAS WASTE SUMMARY FOR RELEASE NUMBER 591

RELEASE START DATE 30382. TIME 2110.
RELEASE COMPLETION DATE 30482. TIME 1205.

RELEASE DURATION 895 MINUTES OR 14.92 HOURS

TANK PRESSURES INITIAL 370 PSIG FINAL 50 PSIG

TANK TEMPERATURE 76 DEG-F

AVERAGE RELEASE RATE 15.69 CFM

TOTAL VOLUME OF GAS RELEASED 3.98E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 90 DEG-F. FLOWRATE 18000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.009 TRITIUM 35.009

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	2.44E-04	2.00E-07	1.22E 03	9.70E-02
85KR	8.60E-04	3.00E-07	2.87E 03	3.42E-01
133XE	3.48E-05	3.00E-07	1.16E 02	1.38E-02

TOTAL CURIES OF NOBLE GAS RELEASED 3.56E-01

AVERAGE RELEASE RATE 3.04E-02 CI/HR OR 8.43E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 1.04E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	2.0	4.0	0.0	0.0	1.0	0.0	0.0	0.0
PERCENT	6.2	6.2	0.0	0.0	6.2	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	0.0	0.0	5.3	2.7	1.0	3.0	2.0
PERCENT	0.0	0.0	0.0	18.8	25.0	6.2	25.0	6.2

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 592

RELEASE START	DATE	30682.	TIME	1440.
RELEASE STOPPED	DATE	30682.	TIME	1443.
RELEASE RESTARTED	DATE	30682.	TIME	1505.
RELEASE COMPLETION	DATE	30782.	TIME	500.

RELEASE DURATION 838 MINUTES OR 13.97 HOURS

TANK PRESSURES INITIAL 380 PSIG FINAL 50 PSIG

TANK TEMPERATURE 82 DEG-F

AVERAGE RELEASE RATE 17.09 CFM

TOTAL VOLUME OF GAS RELEASED 4.05E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 88 DEG-F. FLOWRATE 22000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.010 TRITIUM 35.010

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.75E-04	2.00E-07	8.75E 02	7.10E-02
85KR	2.64E-04	3.00E-07	8.80E 02	1.07E-01

TOTAL CURIES OF NOBLE GAS RELEASED 1.07E-01

AVERAGE RELEASE RATE 1.27E-02 CI/HR OR 3.54E 00 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 4.72E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	12.0	6.0	0.0	0.0	0.0
PERCENT	0.0	0.0	0.0	6.2	12.5	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	3.0	7.7	5.0	9.6	0.0	0.0	0.0
PERCENT	0.0	18.7	25.2	6.2	31.2	0.0	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 593

RELEASE START DATE 30882. TIME 2105.
RELEASE COMPLETION DATE 30982. TIME 1135.

RELEASE DURATION 870 MINUTES OR 14.50 HOURS

TANK PRESSURES INITIAL 455 PSIG FINAL 50 PSIG

TANK TEMPERATURE 83 DEG-F

AVERAGE RELEASE RATE 20.16 CFM

TOTAL VOLUME OF GAS RELEASED 4.97E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 91 DEG-F. FLOWRATE 30000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.011 TRITIUM 35.011

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	4.55E-05	2.00E-07	2.27E 02	2.26E-02
85KR	7.16E-04	3.00E-07	2.39E 03	3.56E-01
133XE	1.59E-05	3.00E-07	5.30E 01	7.90E-03

TOTAL CURIES OF NOBLE GAS RELEASED 3.64E-01

AVERAGE RELEASE RATE 2.66E-02 CI/HR OR 7.40E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 8.46E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	0.0	10.0	0.0	10.0	8.0	5.0	2.0
PERCENT	0.0	0.0	6.7	0.0	53.3	6.7	6.7	13.3

PERCENT CALM 6.7

GAS WASTE SUMMARY FOR RELEASE NUMBER 594

RELEASE START DATE 31182. TIME 1915.
RELEASE COMPLETION DATE 31282. TIME 1035.

RELEASE DURATION 920 MINUTES OR 15.33 HOURS

TANK PRESSURES INITIAL 455 PSIG FINAL 50 PSIG

TANK TEMPERATURE 82 DEG-F

AVERAGE RELEASE RATE 19.10 CFM

TOTAL VOLUME OF GAS RELEASED 4.98E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 89 DEG-F. FLOWRATE 22000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.012 TRITIUM 35.012

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.36E-04	2.00E-07	6.80E 02	6.77E-02
85KR	3.76E-04	3.00E-07	1.25E 03	1.87E-01
133XE	7.76E-06	3.00E-07	2.59E 0'	3.86E-03

TOTAL CURIES OF NOBLE GAS RELEASED 1.91E-01

AVERAGE RELEASE RATE 1.69E-02 CI/HR OR 4.69E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 5.89E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	12.0	10.0	12.5	18.4	0.0	0.0	18.0
PERCENT	0.0	5.9	5.9	11.8	64.6	0.0	0.0	5.9

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 595

RELEASE START DATE 31882. TIME 2050.
RELEASE COMPLETION DATE 31982. TIME 1440.

RELEASE DURATION 1070 MINUTES OR 17.83 HOURS

TANK PRESSURES INITIAL 420 PSIG FINAL 50 PSIG

TANK TEMPERATURE 81 DEG-F

AVERAGE RELEASE RATE 15.03 CFM

TOTAL VOLUME OF GAS RELEASED 4.55E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 90 DEG-F. FLOWRATE 30000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.013 TRITIUM 35.013

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.83E-05	2.00E-07	9.15E 01	8.34E-03
133XE	2.55E-06	3.00E-07	8.50E 00	1.16E-03
85KR	2.90E-04	3.00E-07	9.67E 02	1.32E-01

TOTAL CURIES OF NOBLE GAS RELEASED 1.33E-01

AVERAGE RELEASE RATE 7.94E-03 CI/HR OR 2.21E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 2.52E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	22.0	0.0	0.0	4.0	4.0	2.0	10.0
PERCENT	0.0	10.0	0.0	0.0	5.0	5.0	5.0	5.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	8.0	0.0	9.0	0.0	15.0	0.0	0.0	19.0
PERCENT	15.0	0.0	10.0	0.0	40.0	0.0	0.0	5.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 596

RELEASE START DATE 32082. TIME 1710.
RELEASE COMPLETION DATE 32182. TIME 905.

RELEASE DURATION 955 MINUTES OR 15.92 HOURS

TANK PRESSURES INITIAL 430 PSIG FINAL 50 PSIG

TANK TEMPERATURE 62 DEG-F

AVERAGE RELEASE RATE 17.93 CFM

TOTAL VOLUME OF GAS RELEASED 4.85E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 90 DEG-F. FLOWRATE 26000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.014 TRITIUM 35.014

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.71E-05	2.00E-07	8.55E 01	8.29E-03
85KR	9.44E-04	3.00E-07	3.15E 03	4.58E-01
133XE	5.26E-06	3.00E-07	1.75E 01	2.55E-03

TOTAL CURIES OF NOBLE GAS RELEASED 4.60E-01

AVERAGE RELEASE RATE 2.94E-02 CI/HR OR 8.18E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 9.17E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	12.6	31.5	8.3	4.0	2.0	0.0	0.0	0.0
PERCENT	29.4	11.8	23.4	5.9	11.8	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	0.0	0.0	0.0	0.0	12.0	0.0	7.5
PERCENT	0.0	0.0	0.0	0.0	0.0	5.9	0.0	11.8

PERCENT CALM 5.9

GAS WASTE SUMMARY FOR RELEASE NUMBER 597

RELEASE START DATE 32682. TIME 1120.
RELEASE COMPLETION DATE 32782. TIME 410.

RELEASE DURATION 1010 MINUTES OR 16.83 HOURS

TANK PRESSURES INITIAL 444 PSIG FINAL 40 PSIG

TANK TEMPERATURE 74 DEG-F

AVERAGE RELEASE RATE 17.62 CFM

TOTAL VOLUME OF GAS RELEASED 5.04E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 96 DEG-F. FLOWRATE 24000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.015 TRITIUM 35.015

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.47E-05	2.00E-07	7.35E 01	7.41E-03
85KR	2.24E-04	3.00E-07	7.47E 02	1.13E-01
133XE	3.83E-07	3.00E-07	1.28E 00	1.93E-04

TOTAL CURIES OF NOBLE GAS RELEASED 1.13E-01

AVERAGE RELEASE RATE 7.16E-03 CI/HR OR 1.99E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 2.28E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	11.7	8.0	10.0	14.0	7.0	8.0	0.0	0.0
PERCENT	38.8	5.6	11.1	5.6	11.1	5.6	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0
PERCENT	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0

PERCENT CALM 11.1

TABLE 3.1 - RADIOCHEMISTRY SUMMARY FOR 1 QUARTER, 1982

SYSTEM	BETA/GAMMA	ALPHA	TRITIUM	
FARM POND				
	9.31E-08	6.05E-08	1.03E-03	MAXIMUM
	5.33E-08	1.51E-08	5.71E-07	MINIMUM
	6.37E-08 (13)	2.73E-08 (13)	1.74E-04 (13)	AVERAGE
COOLING TOWER B/D-During				
	8.77E-08	5.53E-08	2.93E-03	MAXIMUM
	5.48E-08	1.10E-08	2.14E-06	MINIMUM
	6.32E-08 (26)	2.77E-08 (26)	1.19E-03 (26)	AVERAGE
COOLING TOWER B/D-After				
	3.29E-07	7.36E-08	5.83E-05	MAXIMUM
	5.44E-08	1.38E-08	5.69E-07	MINIMUM
	7.50E-08 (26)	2.67E-08 (26)	7.26E-06 (26)	AVERAGE
COOLING TOWER B/D-Weekly				
	6.99E-08	4.87E-08	1.43E-05	MAXIMUM
	5.44E-08	1.67E-08	5.60E-07	MINIMUM
	6.10E-08 (13)	2.74E-08 (13)	5.02E-06 (13)	AVERAGE
REACTOR BLDG. SUMP				
	1.73E-07	5.27E-08	2.91E-04	MAXIMUM
	5.29E-08	9.55E-08	4.43E-06	MINIMUM
	6.48E-08 (97)	2.45E-08 (97)	6.45E-05 (97)	AVERAGE
TURBINE BLDG. SUMP				
	1.21E-07	4.91E-08	8.42E-05	MAXIMUM
	5.29E-08	9.82E-09	2.56E-06	MINIMUM
	6.38E-08 (37)	2.37E-08 (37)	2.40E-05 (37)	AVERAGE
SYSTEM 21, Loop 1				
	6.62E-08	3.44E-08	7.78E-05	MAXIMUM
	5.57E-08	1.63E-08	7.05E-06	MINIMUM
	6.11E-08 (5)	2.15E-08 (5)	4.33E-05 (5)	AVERAGE

NOTES: 1. All activities expressed in units of UCI/ML
2. ( ) Represents the number of samples represented by the average value.

TABLE 3.1 - RADIOCHEMISTRY SUMMARY FOR 1 QUARTER, 1982 Page 2

SYSTEM	BETA/GAMMA	ALPHA	TRITIUM	
SYSTEM 21, Loop 2				
	6.62E-08	3.44E-08	2.00E-04	MAXIMUM
	5.57E-08	1.63E-08	1.40E-06	MINIMUM
	6.11E-08 (5)	2.09E-08 (5)	7.06E-05 (5)	AVERAGE
SYSTEM 31				
	No Samples	Taken		MAXIMUM
				MINIMUM
				AVERAGE
SYSTEM 41				
	6.51E-08	5.06E-08	5.70E-07	MAXIMUM
	6.35E-08	2.62E-08	1.51E-07	MINIMUM
	6.43E-08 (2)	3.84E-08 (2)	3.60E-07 (2)	AVERAGE
SYSTEM 42				
	7.87E-08	3.57E-08	1.76E-06	MAXIMUM
	5.58E-08	1.65E-08	5.70E-07	MINIMUM
	6.53E-08 (3)	2.89E-08 (3)	9.79E-07 (3)	AVERAGE
SYSTEM 46, Loop 1				
	7.81E-08	3.44E-08	1.88E-04	MAXIMUM
	5.57E-08	1.63E-08	4.21E-05	MINIMUM
	6.39E-08 (8)	2.19E-08 (8)	1.44E-04 (8)	AVERAGE
SYSTEM 46, Loop 2				
	6.99E-08	3.44E-08	2.17E-04	MAXIMUM
	5.57E-08	1.44E-08	1.54E-04	MINIMUM
	6.15E-08 (8)	2.07E-08 (8)	1.83E-04 (8)	AVERAGE
SYSTEM 47, Loop 1				
	8.07E-08	3.44E-08	1.83E-04	MAXIMUM
	5.57E-08	1.63E-08	9.14E-05	MINIMUM
	6.43E-08 (8)	2.54E-08 (8)	1.30E-04 (8)	AVERAGE
SYSTEM 47, Loop 2				
	2.57E-07	3.44E-08	1.53E-04	MAXIMUM
	5.73E-08	1.63E-08	8.91E-05	MINIMUM
	8.61E-08 (8)	2.25E-08 (8)	1.33E-04 (8)	AVERAGE

NOTES: 1. All activities expressed in units of UCI/ML
2. ( ) Represents the number of samples represented by the average value.

TABLE 1.1 - RADIOACTIVE LIQUID EFFLUENT RELEASES FOR 2nd QUARTER, 1982

	UNITS	APR	MAY	JUN	QUARTERLY TOTAL
1. Gross Beta Radioactivity					
a) Total Release	Curies	2.88E-05	2.13E-05	3.86E-05	8.86E-05
b) Avg. Conc. before Dilution	µCi/ml	2.86E-07	3.40E-07	4.21E-07	3.50E-07*
Avg Conc. Released c) after Dilution	µCi/ml above bkgd	1.16E-09	9.10E-10	1.68E-09	1.30E-09*
2. Tritium					
a) Total Release	Curies	1.07E+01	3.56E+01	1.44E+01	6.07E+01
b) Avg. Conc. before Dilution	µCi/ml	1.09E-01	5.84E-01	1.59E-01	2.47E-01*
Avg Conc. Released c) after Dilution	µCi/ml above bkgd	4.28E-04	1.37E-03	7.62E-04	7.89E-04*
3. Dissolved Noble Gases					
a) Total Release	Curies	1.23E-04	1.23E-03	5.14E-04	1.86E-03
b) Avg. Conc. before Dilution	µCi/ml	1.51E-06	2.37E-05	5.81E-06	8.64E-06*
Avg Conc. Released c) after Dilution	µCi/ml above bkgd	7.95E-09	4.70E-08	2.68E-08	2.52E-08*
4. Gross Alpha Radioactivity					
a) Total Release	Curies	2.56E-06	1.38E-06	2.23E-06	6.18E-06
5. Total Volume of Liquid Released before Dilution	Liters	9.75E+04	6.29E+04	9.23E+04	2.53E+05
6. Total Volume of Liquid Used for Dilution	Liters	2.11E+07	2.28E+07	1.93E+07	6.32E+07
7. Estimated Total Radioactivity Released by Radio-Isotope above Background					
Nuclide / MPCw(µCi/ml)	Curies				
133Xe / 2.00E-04		1.23E-04	1.23E-03	5.14E-04	1.86E-03
135Xe / 2.00E-04		2.77E-07	NSA	5.75E-07	8.52E-07
3H / 3.00E-03		1.07E+01	3.56E+01	1.44E+01	6.07E+01
110AG(m) /		NSA	1.02E-06	NSA	1.02E-06
133Xe(m) / 2.00E-04		NSA	2.52E-06	NSA	2.52E-06

*Represents a "weighted" average.

4.7E-05 = 4.7×10^{-5}

5.2E+03 = $5.2 \times 10^{+3}$

NSA means no significant activity.

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 539

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	4 482	TIME 1841
RELEASE COMPLETION	:	DATE	4 482	TIME 2345
RELEASE DURATION	:	HRS.	5.07	MIN. 304.
TANK LEVEL [INCHES]	:	INITIAL	133.	FINAL 2.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	5365490.	FINAL 5420580.
TOTAL VOLUME RELEASED	:	LITERS	8633.	GALS 2281.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	2085157.	GALS 550900.
AVERAGE RELEASE RATE	:	LPM	28.40	GPM 7.50
AVERAGE BLOWDOWN RATE	:	LPM	6859.07	GPM 1812.17

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.079	4 482	810	2.48E-08	3.55E-07	2.18E-01	0.00E-01	SD0385
B 33.080	4 482	815	1.74E-08	2.96E-07	2.13E-01	0.00E-01	SD0386
C 5.024	4 482	1745	2.56E-08	6.19E-08	5.42E-07		
D 6.025	4 582	300	2.56E-08	6.19E-08	8.29E-07		
E 7.027	4 482	2220	2.58E-08	6.20E-08	8.30E-04		
F 8.027	4 582	243	2.58E-08	6.20E-08	8.92E-07		
G 9.013	32982	1315	3.01E-08	5.91E-08	5.96E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	2.14E-07	2.48E-08	-2.19E-11	N/A
GROSS BETA	3.06E-06	3.55E-07	1.22E-09	4.07E+00
TRITIUM	1.88E+00	2.18E-01	8.98E-04	2.99E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 540

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	41382	TIME 2200
RELEASE COMPLETION	:	DATE	41482	TIME 205
RELEASE DURATION	:	HRS.	4.08	MIN. 245.
TANK LEVEL [INCHES]	:	INITIAL	115.	FINAL 1.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	7617849.	FINAL 7652915.
TOTAL VOLUME RELEASED	:	LITERS	7513.	GALS 1985.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1327248.	GALS 350660.
AVERAGE RELEASE RATE	:	LPM	30.66	GPM 8.10
AVERAGE BLOWDOWN RATE	:	LPM	5417.34	GPM 1431.27

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
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D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.081	41382	833	2.30E-08	2.44E-07	1.39E-01	0.00E-01	SD0451
B	33.082	41382	834	2.30E-08	2.20E-07	1.39E-01	0.00E-01	SD0452
C	5.025	41382	2120	3.51E-08	6.36E-08	5.74E-07		
D	6.026	41482	555	4.03E-08	6.36E-08	4.68E-06		
E	7.028	41482	40	4.81E-08	6.40E-08	8.41E-04		
F	8.026	41482	550	1.49E-08	6.41E-08	6.50E-06		
G	9.015	41382	1030	5.11E-08	6.37E-08	5.74E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.73E-07	2.30E-08	-1.58E-10	N/A
GROSS BETA	1.83E-06	2.44E-07	1.01E-09	3.38E+00
TRITIUM	1.05E+00	1.39E-01	7.85E-04	2.62E+01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 541

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	41682	TIME 2050
RELEASE COMPLETION	:	DATE	41782	TIME 325
RELEASE DURATION	:	HRS.	6.58	MIN. 395.
TANK LEVEL [INCHES]	:	INITIAL	132.	FINAL 5.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	8277605.	FINAL 8367033.
TOTAL VOLUME RELEASED	:	LITERS	8369.	GALS 2211.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	3384850.	GALS 894280.
AVERAGE RELEASE RATE	:	LPM	21.19	GPM 5.60
AVERAGE BLOWDOWN RATE	:	LPM	8569.24	GPM 2264.00

DESCRIPTIONIONS :
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D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.083	41682	712	2.22E-08	2.88E-07	5.27E-01	1.38E-06	SD0483
B	33.084	41682	713	1.94E-08	2.83E-08	5.16E-01	1.38E-06	SD0484
C	5.026	41682	1930	2.31E-08	5.84E-08	5.63E-07		
D	6.027	41782	530	2.31E-08	5.84E-08	4.27E-06		
E	7.029	41782	145	2.31E-08	5.84E-08	1.56E-03		
F	8.029	41782	530	2.41E-08	5.84E-08	3.58E-06		
G	9.015	41382	1030	5.11E-08	6.37E-08	5.74E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.86E-07	2.22E-08	-7.13E-11	N/A
GROSS BETA	2.41E-06	2.88E-07	5.53E-10	1.84E+00
TRITIUM	4.41E+00	5.27E-01	1.30E-03	4.34E+01
133XE	1.15E-05	1.38E-06	3.40E-09	1.70E-03

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 542

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	41882	TIME 240
RELEASE COMPLETION	:	DATE	41882	TIME 630
RELEASE DURATION	:	HRS.	3.83	MIN. 230.
TANK LEVEL [INCHES]	:	INITIAL	108.	FINAL 2.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	8603600.	FINAL 8641624.
TOTAL VOLUME RELEASED	:	LITERS	6985.	GALS 1846.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1439208.	GALS 380240.
AVERAGE RELEASE RATE	:	LPM	30.37	GPM 8.02
AVERAGE BLOWDOWN RATE	:	LPM	6257.43	GPM 1653.22

DESCRIPTIONIONS :
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D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.085	41782	1730	3.02E-08	2.48E-07	1.14E-01	3.99E-07	SD0497
B 33.086	41782	1735	2.57E-08	2.37E-07	1.08E-01	3.99E-07	SD0498
C 5.027	41882	130	2.31E-08	5.84E-08	5.63E-07		
D 6.028	41882	1117	2.31E-08	5.84E-08	1.67E-05		
E 7.030	41882	515	2.31E-08	5.84E-08	5.18E-04		
F 8.030	41882	1105	2.31E-08	5.84E-08	5.63E-07		
G 9.015	41382	1030	5.11E-08	6.37E-08	5.74E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	2.11E-07	3.02E-08	-1.01E-10	N/A
GROSS BETA	1.73E-06	2.48E-07	8.90E-10	2.97E+00
TRITIUM	7.96E-01	1.14E-01	5.50E-04	1.83E+01
133XE	2.79E-06	3.99E-07	1.93E-09	9.64E-04

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 543

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	42082	TIME 154
RELEASE COMPLETION	:	DATE	42082	TIME 755
RELEASE DURATION	:	HRS.	6.02	MIN. 361.
TANK LEVEL [INCHES]	:	INITIAL	130.	FINAL 2.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	9071725.	FINAL 9133130.
TOTAL VOLUME RELEASED	:	LITERS	8435.	GALS 2229.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	2324179.	GALS 614050.
AVERAGE RELEASE RATE	:	LPM	23.37	GPM 6.17
AVERAGE BLOWDOWN RATE	:	LPM	6438.17	GPM 1700.97

DESCRIPTIONIONS :
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D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.087	41982	745	2.54E-08	1.14E-07	6.14E-02	1.83E-07	SD0509
B 33.088	41982	750	1.89E-08	9.15E-08	6.30E-02	1.83E-07	SD0510
C 5.028	42082	50	2.31E-08	5.84E-08	5.64E-07		
D 6.029	42082	955	2.31E-08	5.84E-08	5.50E-06		
E 7.031	42082	430	2.41E-08	5.84E-08	2.54E-04		
F 8.031	42082	950	2.31E-08	5.84E-08	3.33E-05		
G 9.016	41982	845	2.31E-08	5.84E-08	5.63E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MFCW
GROSS ALPHA	2.14E-07	2.54E-08	8.30E-12	N/A
GROSS BETA	9.63E-07	1.14E-07	2.02E-10	6.72E-01
TRITIUM	5.31E-01	6.30E-02	2.28E-04	7.59E+00
133XE	1.54E-06	1.83E-07	6.62E-10	3.31E-04

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 544

RELEASE MADE FROM	:	TANK	T-6&04	
RELEASE START	:	DATE	42182	TIME 210
RELEASE COMPLETION	:	DATE	42182	TIME 555
RELEASE DURATION	:	HRS.	3.75	MIN. 225.
TANK LEVEL [INCHES]	:	INITIAL	120.	FINAL 0.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	9317775.	FINAL 9356140.
TOTAL VOLUME RELEASED	:	LITERS	7908.	GALS 2089.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1452115.	GALS 383650.
AVERAGE RELEASE RATE	:	LPM	35.15	GPM 9.29
AVERAGE BLOWDOWN RATE	:	LPM	6453.85	GPM 1705.11

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
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C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.089	42082	1636	2.74E-08	6.31E-08	2.47E-02	2.00E-07	SD0525
B 33.090	42082	1637	1.77E-08	6.31E-08	2.50E-02	2.00E-07	SD0526
C 5.029	42182	130	2.31E-08	7.75E-08	5.64E-07		
D 6.030	42182	900	1.62E-08	5.94E-08	3.10E-06		
E 7.032	42182	440	2.31E-08	5.84E-08	1.23E-04		
F 8.032	42182	840	1.62E-08	5.94E-08	5.71E-07		
G 9.016	41982	845	2.31E-08	5.84E-08	5.63E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	2.17E-07	2.74E-08	2.34E-11	N/A
GROSS BETA	4.99E-07	6.31E-08	2.55E-11	8.51E-02
TRITIUM	1.98E-01	2.50E-02	1.36E-04	4.52E+00
133XE	1.58E-06	2.00E-07	1.08E-09	5.42E-04

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 545

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	42382	TIME 205
RELEASE COMPLETION	:	DATE	42382	TIME 609
RELEASE DURATION	:	HRS.	4.07	MIN. 244.
TANK LEVEL [INCHES]	:	INITIAL	127.	FINAL 4.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	9798489.	FINAL 9838320.
TOTAL VOLUME RELEASED	:	LITERS	8106.	GALS 2142.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1507603.	GALS 398310.
AVERAGE RELEASE RATE	:	LPM	33.22	GPM 8.78
AVERAGE BLOWDOWN RATE	:	LPM	6178.70	GPM 1632.42

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
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D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.091	42282	755	2.29E-08	5.88E-08	8.62E-03	1.65E-07	SD0545
B 33.092	42282	800	2.64E-08	1.31E-07	8.71E-03	1.65E-07	SD0546
C 5.030	42382	100	1.91E-08	5.94E-08	5.71E-07		
D 6.031	42382	900	2.88E-08	6.29E-08	5.85E-07		
E 7.033	42382	505	4.30E-08	5.94E-08	4.02E-05		
F 8.033	42382	900	1.88E-08	6.29E-08	5.85E-07		
G 9.016	41982	845	2.31E-08	5.84E-08	5.63E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	2.14E-07	2.64E-08	1.78E-11	N/A
GROSS BETA	1.06E-06	1.31E-07	3.86E-10	1.29E+00
TRITIUM	7.06E-02	8.71E-03	4.66E-05	1.55E+00
133XE	1.34E-06	1.65E-07	8.82E-10	4.41E-02

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 546

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	42482	TIME 1314
RELEASE COMPLETION	:	DATE	42482	TIME 1745
RELEASE DURATION	:	HRS.	4.52	MIN. 271.
TANK LEVEL [INCHES]	:	INITIAL	130.	FINAL 2.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	148100.	FINAL 192550.
TOTAL VOLUME RELEASED	:	LITERS	8435.	GALS 2229.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1682433.	GALS 444500.
AVERAGE RELEASE RATE	:	LPM	31.13	GPM 8.22
AVERAGE BLOWDOWN RATE	:	LPM	6208.24	GPM 1640.22

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
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D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.093	42382	1230	1.89E-08	6.01E-08	1.29E-02	5.75E-07	SD0555
B	33.094	42382	1235	1.98E-08	6.01E-08	1.34E-02	5.75E-07	SD0556
C	5.031	42482	1215	1.88E-08	6.29E-08	5.85E-07		
D	6.032	42482	2045	1.88E-08	6.29E-08	5.43E-06		
E	7.034	42282	1630	1.88E-08	6.29E-08	6.44E-05		
F	8.034	42282	2055	1.88E-08	6.29E-08	5.85E-07		
G	9.016	41982	845	2.31E-08	5.84E-08	5.63E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.67E-07	1.98E-08	-1.63E-11	N/A
GROSS BETA	5.07E-07	6.01E-08	8.84E-12	2.95E-02
TRITIUM	1.13E-01	1.34E-02	6.67E-05	2.22E+00
133XE	4.57E-06	5.42E-07	2.70E-09	1.35E-03
135XE	2.77E-07	3.28E-08	1.64E-10	8.18E-03

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 547

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	42682	TIME 1809
RELEASE COMPLETION	:	DATE	42682	TIME 2239
RELEASE DURATION	:	HRS.	4.50	MIN. 270.
TANK LEVEL [INCHES]	:	INITIAL	134.	FINAL 3.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	646300.	FINAL 685200.
TOTAL VOLUME RELEASED	:	LITERS	8633.	GALS 2281.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1472365.	GALS 389000.
AVERAGE RELEASE RATE	:	LPM	31.97	GPM 8.45
AVERAGE BLOWDOWN RATE	:	LPM	5453.20	GPM 1440.74

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.095	42582	906	2.40E-08	9.93E-08	2.58E-02	8.75E-08	SD0565
B 33.096	42582	911	1.59E-08	8.92E-08	2.92E-02	8.75E-08	SD0566
C 5.032	42682	1710	3.83E-08	5.62E-08	5.85E-07		
D 6.033	42782	130	2.48E-08	5.62E-08	5.52E-06		
E 7.035	42682	2040	2.48E-08	5.62E-08	1.59E-04		
F 8.035	42782	118	2.48E-08	5.62E-08	5.85E-07		
G 9.016	41982	845	2.31E-08	5.84E-08	5.63E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	2.07E-07	2.40E-08	5.33E-12	N/A
GROSS BETA	8.57E-07	9.93E-08	2.39E-10	7.95E-01
TRITIUM	2.52E-01	2.92E-02	1.70E-04	5.67E+00
133XE	7.55E-07	8.75E-08	5.10E-10	2.55E-02

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 548

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	42982	TIME 448
RELEASE COMPLETION	:	DATE	42982	TIME 825
RELEASE DURATION	:	HRS.	3.62	MIN. 217.
TANK LEVEL [INCHES]	:	INITIAL	126.	FINAL 13.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	1174461.	FINAL 1207299.
TOTAL VOLUME RELEASED	:	LITERS	7447.	GALS 1967.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1242918.	GALS 328380.
AVERAGE RELEASE RATE	:	LPM	34.32	GPM 9.07
AVERAGE BLOWDOWN RATE	:	LPM	5727.73	GPM 1513.27

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
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C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML.	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.097	42882	1945	2.12E-08	3.03E-07	5.57E-02	5.21E-06	SD0590
B 33.098	42882	1945	2.12E-08	2.97E-07	5.59E-02	5.21E-06	SD0591
C 5.033	42982	145	2.30E-08	5.27E-08	5.71E-07		
D 6.034	42982	1115	2.30E-08	5.27E-08	8.21E-06		
E 7.036	42982	730	3.36E-08	8.74E-08	2.95E-04		
F 8.036	42982	1115	1.87E-08	5.93E-08	7.75E-07		
G 9.017	42782	850	2.87E-08	5.62E-08	8.77E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.58E-07	2.12E-08	-4.51E-11	N/A
GROSS BETA	2.26E-06	3.03E-07	1.47E-09	4.91E+00
TRITIUM	4.16E-01	5.59E-02	3.33E-04	1.11E+01
133XE	3.88E-05	5.21E-06	3.10E-08	1.55E-02

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 549

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	43082	TIME 242
RELEASE COMPLETION	:	DATE	43082	TIME 709
RELEASE DURATION	:	HRS.	4.45	MIN. 267.
TANK LEVEL [INCHES]	:	INITIAL	125.	FINAL 4.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	1373374.	FINAL 1416975.
TOTAL VOLUME RELEASED	:	LITERS	7974.	GALS 2107.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1650298.	GALS 436010.
AVERAGE RELEASE RATE	:	LPM	29.86	GPM 7.89
AVERAGE BLOWDOWN RATE	:	LPM	6180.89	GPM 1633.00

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
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C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.099	42982	1535	4.29E-08	1.08E-07	2.30E-02	2.77E-06	SD0599
B 33.100	42982	1540	2.80E-08	1.85E-07	2.31E-02	2.77E-06	SD0598
C 5.034	42982	2210	1.87E-08	5.93E-08	7.47E-07		
D 6.035	43082	1445	6.72E-08	2.20E-07	7.13E-06		
E 7.037	43082	545	2.30E-08	8.10E-08	1.40E-04		
F 8.037	43082	1455	2.82E-08	6.31E-08	1.25E-06		
G 9.017	42782	850	2.87E-08	5.62E-08	8.77E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	3.42E-07	4.29E-08	6.81E-11	N/A
GROSS BETA	1.47E-06	1.85E-07	6.17E-10	2.06E+00
TRITIUM	1.84E-01	2.31E-02	1.11E-04	3.71E+00
133XE	2.21E-05	2.77E-06	1.33E-08	6.66E-03

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 550

RELEASE MADE FROM	:	TANK	T-6203	
RELEASE START	:	DATE	43082	TIME 719
RELEASE COMPLETION	:	DATE	43082	TIME 1135
RELEASE DURATION	:	HRS.	4.27	MIN. 256.
TANK LEVEL [INCHES]	:	INITIAL	139.	FINAL 2.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	1418475.	FINAL 1460000.
TOTAL VOLUME RELEASED	:	LITERS	9028.	GALS 2385.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1571721.	GALS 415250.
AVERAGE RELEASE RATE	:	LPM	35.27	GPM 9.32
AVERAGE BLOWDOWN RATE	:	LPM	6139.54	GPM 1622.07

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
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C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.103	42982	1930	2.86E-08	1.34E-06	9.04E-02	4.19E-06	SD0602
B 33.104	42982	1935	2.86E-08	1.28E-06	8.35E-02	4.19E-06	SD0603
C 5.034	42982	2210	1.87E-08	5.93E-08	7.47E-07		
D 6.035	43082	1445	6.72E-08	2.20E-07	7.13E-06		
E 7.038	43082	1030	2.82E-08	6.31E-08	8.92E-04		
F 8.037	43082	1455	2.82E-08	6.31E-08	1.25E-06		
G 9.017	42782	850	2.87E-08	5.62E-08	8.77E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	2.58E-07	2.86E-08	-7.83E-13	N/A
GROSS BETA	1.21E-05	1.34E-06	7.33E-09	2.44E+01
TRITIUM	8.16E-01	9.04E-02	5.16E-04	1.72E+01
133XE	3.78E-05	4.19E-06	2.39E-08	1.20E+00

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 551

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	5 182	TIME 2249
RELEASE COMPLETION	:	DATE	5 282	TIME 215
RELEASE DURATION	:	HRS.	3.43	MIN. 206.
TANK LEVEL [INCHES]	:	INITIAL	107.	FINAL 2.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	1806290.	FINAL 1838984.
TOTAL VOLUME RELEASED	:	LITERS	6920.	GALS 1828.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1237468.	GALS 326940.
AVERAGE RELEASE RATE	:	LPM	33.59	GPM 8.87
AVERAGE BLOWDOWN RATE	:	LPM	6007.13	GPM 1587.09

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.105	5 182	1305	2.82E-08	7.66E-08	3.79E-02	6.93E-07	SD0608
B 33.106	5 182	1310	2.82E-08	6.31E-08	3.81E-02	6.93E-07	SD0609
C 5.035	5 182	2225	1.87E-08	5.93E-08	6.11E-07		
D 6.036	5 282	520	3.81E-08	5.93E-08	6.11E-07		
E 7.039	5 282	130	1.87E-08	5.93E-08	2.10E-04		
F 8.038	5 282	520	4.29E-08	7.78E-08	6.11E-07		
G 9.017	42782	850	2.87E-08	5.62E-08	8.77E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.95E-07	2.82E-08	-2.79E-12	N/A
GROSS BETA	5.30E-07	7.66E-08	1.14E-10	3.79E-01
TRITIUM	2.64E-01	3.81E-02	2.12E-04	7.06E+00
133XE	4.80E-06	6.93E-07	3.85E-09	1.93E-03

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 552

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	5 682	TIME 1745
RELEASE COMPLETION	:	DATE	5 682	TIME 2200
RELEASE DURATION	:	HRS.	4.25	MIN. 255.
TANK LEVEL [INCHES]	:	INITIAL	134.	FINAL 0.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	2878100.	FINAL 2921550.
TOTAL VOLUME RELEASED	:	LITERS	8831.	GALS 2333.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1644583.	GALS 434500.
AVERAGE RELEASE RATE	:	LPM	34.63	GPM 9.15
AVERAGE BLOWDOWN RATE	:	LPM	6449.34	GPM 1703.92

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.107	5 682	630	2.36E-08	1.08E-07	1.13E-01	2.16E-07	SD0642
B	33.108	5 682	635	1.63E-08	1.50E-07	1.13E-01	2.16E-07	SD0644
C	5.036	5 682	1600	2.66E-08	5.79E-08	5.88E-07		
D	6.037	5 782	40	2.66E-08	7.07E-08	5.88E-07		
E	7.040	5 682	2040	2.50E-08	6.32E-08	2.38E-04		
F	8.039	5 782	40	2.66E-08	5.53E-08	5.88E-07		
G	9.018	5 382	930	1.87E-08	5.93E-08	6.11E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	2.09E-07	2.36E-08	2.66E-11	N/A
GROSS BETA	1.33E-06	1.50E-07	4.87E-10	1.62E+00
TRITIUM	1.00E+00	1.13E-01	6.06E-04	2.02E+01
133XE	1.91E-06	2.16E-07	1.15E-09	5.77E-04

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 553

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	51382	TIME 316
RELEASE COMPLETION	:	DATE	51382	TIME 1200
RELEASE DURATION	:	HRS.	8.73	MIN. 524.
TANK LEVEL [INCHES]	:	INITIAL	104.	FINAL 5.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	4361800.	FINAL 4466430.
TOTAL VOLUME RELEASED	:	LITERS	6524.	GALS 1724.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	3960246.	GALS 1046300.
AVERAGE RELEASE RATE	:	LPM	12.45	GPM 3.29
AVERAGE BLOWDOWN RATE	:	LPM	7557.72	GPM 1996.76

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.109	51182	600	1.69E-08	6.47E-07	1.22E+00	2.22E-07	SD0667
B 33.110	51182	605	1.69E-08	6.09E-07	1.19E+00	2.22E-07	SD0668
C 5.037	51382	215	1.93E-08	6.54E-08	5.94E-07		
D 6.038	51382	1640	6.76E-08	6.54E-08	5.32E-06		
E 7.041	51382	840	4.83E-08	6.54E-08	1.94E-03		
F 8.040	51382	1620	2.90E-08	6.54E-08	5.40E-06		
G 9.019	51182	800	4.34E-08	6.54E-08	7.77E-06		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.10E-07	1.69E-08	-4.37E-11	N/A
GROSS BETA	4.22E-06	6.47E-07	9.57E-10	3.19E+00
TRITIUM	7.93E+00	1.22E+00	2.00E-03	6.66E+01
133XE	1.45E-06	2.22E-07	3.65E-10	1.83E-04

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 554

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	51482	TIME 2036
RELEASE COMPLETION	:	DATE	51582	TIME 110
RELEASE DURATION	:	HRS.	4.57	MIN. 274.
TANK LEVEL [INCHES]	:	INITIAL	139.	FINAL 1.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	4803724.	FINAL 4845666.
TOTAL VOLUME RELEASED	:	LITERS	9094.	GALS 2403.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1587505.	GALS 419420.
AVERAGE RELEASE RATE	:	LPM	33.19	GPM 8.77
AVERAGE BLOWDOWN RATE	:	LPM	5793.81	GPM 1530.73

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.111	51482	550	2.31E-08	7.03E-07	2.11E-01	0.00E-01	SD0698
B 33.112	51482	550	2.31E-08	7.31E-07	2.11E-01	0.00E-01	SD0699
C 5.038	51482	2030	9.65E-09	6.54E-08	6.65E-07		
D 6.039	51482	410	4.83E-08	6.54E-08	6.38E-06		
E 7.042	51482	2335	1.93E-08	6.54E-08	4.40E-05		
F 8.041	51582	400	5.79E-08	6.54E-08	1.22E-05		
G 9.019	51182	800	4.34E-08	6.54E-08	7.77E-06		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	2.10E-07	2.31E-08	-1.16E-10	N/A
GROSS BETA	6.65E-06	7.31E-07	3.79E-09	1.26E+01
TRITIUM	1.92E+00	2.11E-01	1.20E-03	4.01E+01
110AGM	1.02E-06	1.12E-07	6.38E-10	2.13E-03

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 555

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	51882	TIME 1417
RELEASE COMPLETION	:	DATE	51882	TIME 1855
RELEASE DURATION	:	HRS.	4.63	MIN. 278.
TANK LEVEL [INCHES]	:	INITIAL	122.	FINAL 4.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	5623390.	FINAL 5682500.
TOTAL VOLUME RELEASED	:	LITERS	7776.	GALS 2054.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	2237314.	GALS 591100.
AVERAGE RELEASE RATE	:	LPM	27.97	GPM 7.39
AVERAGE BLOWDOWN RATE	:	LPM	8047.89	GPM 2126.26

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.113	51782	650	2.08E-08	2.10E-07	5.18E-01	2.28E-07	SD0728
B	33.114	51782	655	2.57E-08	1.67E-07	5.24E-01	2.28E-07	SD0729
C	5.039	51882	1320	1.89E-08	6.26E-08	6.26E-07		
D	6.040	51882	2140	2.41E-08	6.26E-08	7.40E-06		
E	7.043	51882	1710	1.89E-08	6.26E-08	1.82E-03		
F	8.042	51882	2130	1.93E-08	6.26E-08	1.17E-06		
G	9.020	51782	1440	1.89E-08	6.26E-08	3.68E-06		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	2.00E-07	2.57E-08	2.38E-11	N/A
GROSS BETA	1.63E-06	2.10E-07	5.10E-10	1.70E+00
TRITIUM	4.07E+00	5.24E-01	1.81E-03	6.05E+01
133XE	1.77E-06	2.28E-07	7.90E-10	3.95E-04

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 556

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	52482	TIME 343
RELEASE COMPLETION	:	DATE	52482	TIME 1420
RELEASE DURATION	:	HRS.	10.62	MIN. 637.
TANK LEVEL [INCHES]	:	INITIAL	133.	FINAL 5.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	7158810.	FINAL 7304554.
TOTAL VOLUME RELEASED	:	LITERS	8435.	GALS 2229.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	5516411.	GALS 1457440.
AVERAGE RELEASE RATE	:	LPM	13.24	GPM 3.50
AVERAGE BLOWDOWN RATE	:	LPM	8659.99	GPM 2287.98

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	GNG UCI/ML	MCA NUMBER
A	33.115	52182	700	1.89E-08	1.66E-07	9.87E-01	1.17E-05	SD0753
B	33.116	52182	655	1.89E-08	1.83E-07	9.89E-01	1.17E-05	SD0754
C	5.040	52482	300	2.48E-08	6.51E-08	1.38E-06		
D	6.041	52482	1837	2.48E-08	6.51E-08	6.37E-07		
E	7.044	52482	1140	2.87E-08	6.51E-08	8.37E-04		
F	8.043	52482	1837	4.78E-08	6.51E-08	1.70E-06		
G	9.020	51782	1440	1.89E-08	6.26E-08	3.68E-06		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.59E-07	1.89E-08	0.00E-01	N/A
GROSS BETA	1.54E-06	1.83E-07	1.64E-10	6.13E-01
TRITIUM	8.35E+00	9.89E-01	1.51E-03	5.04E+01
133XE	9.87E-05	1.17E-05	1.79E-08	8.93E-01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 557

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	52582	TIME 1825
RELEASE COMPLETION	:	DATE	52682	TIME 6
RELEASE DURATION	:	HRS.	5.68	MIN. 341.
TANK LEVEL [INCHES]	:	INITIAL	125.	FINAL 4.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	7593901.	FINAL 7672136.
TOTAL VOLUME RELEASED	:	LITERS	7974.	GALS 2107.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	2961195.	GALS 782350.
AVERAGE RELEASE RATE	:	LPM	23.38	GPM 6.18
AVERAGE BLOWDOWN RATE	:	LPM	8683.86	GPM 2294.28

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
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D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.117	52582	710	2.03E-08	1.26E-07	6.70E-01	4.53E-06	SD0776
B	33.118	52582	715	1.62E-08	1.48E-07	6.72E-01	4.53E-06	SD0777
C	5.041	52582	1715	2.48E-08	6.51E-08	6.57E-07		
D	6.042	52682	420	2.48E-08	6.51E-08	6.77E-07		
E	7.045	52582	2210	2.48E-08	6.51E-08	1.92E-03		
F	8.044	52682	430	2.48E-08	6.51E-08	1.51E-05		
G	9.020	51782	1440	1.89E-08	6.26E-08	3.68E-06		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.62E-07	2.03E-08	3.92E-12	N/A
GROSS BETA	1.18E-06	1.48E-07	2.28E-10	7.60E-01
TRITIUM	5.36E+00	6.72E-01	1.80E-03	6.01E+01
133XE	3.61E-05	4.53E-06	1.22E-08	6.08E-01

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 558

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	53182	TIME 1143
RELEASE COMPLETION	:	DATE	53182	TIME 1817
RELEASE DURATION	:	HRS.	6.57	MIN. 394.
TANK LEVEL [INCHES]	:	INITIAL	116.	FINAL 5.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	8975400.	FINAL 9072891.
TOTAL VOLUME RELEASED	:	LITERS	7315.	GALS 1933.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	3690035.	GALS 974910.
AVERAGE RELEASE RATE	:	LPM	18.57	GPM 4.91
AVERAGE BLOWDOWN RATE	:	LPM	9365.57	GPM 2474.39

DESCRIPTIONIONS :
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D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.123	53082	345	1.88E-08	5.46E-07	9.12E-01	1.48E-04	SD0823
B 33.124	53082	345	1.88E-08	5.73E-07	8.99E-01	1.48E-04	SD0824
C 5.042	53182	1130	1.32E-08	5.62E-08	6.54E-07		
D 6.043	6 182	235	3.34E-03	5.62E-08	6.54E-07		
E 7.051	53182	2100	2.15E-08	4.10E-08	1.77E-03		
F 8.045	6 182	215	3.82E-08	7.09E-08	5.16E-05		
G 9.021	52582	1015	2.48E-08	6.51E-08	1.55E-06		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.38E-07	1.88E-08	-1.18E-11	N/A
GROSS BETA	4.19E-06	5.73E-07	1.01E-09	3.35E+00
TRITIUM	6.67E+00	9.12E-01	1.80E-03	6.02E+01
133XE	1.08E-03	1.48E-04	2.93E-07	1.46E-01
133XEM	2.52E-06	3.44E-07	6.81E-10	3.40E-04

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 559

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	6 582	TIME 2020
RELEASE COMPLETION	:	DATE	6 682	TIME 1
RELEASE DURATION	:	HRS.	3.68	MIN. 221.
TANK LEVEL [INCHES]	:	INITIAL	110.	FINAL 4.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	422480.	FINAL 468050.
TOTAL VOLUME RELEASED	:	LITERS	6985.	GALS 1846.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1724825.	GALS 455700.
AVERAGE RELEASE RATE	:	LPM	31.61	GPM 8.35
AVERAGE BLOWDOWN RATE	:	LPM	7804.64	GPM 2061.99

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D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.131	6 582	700	2.05E-08	8.68E-07	2.67E-01	2.35E-05	SD0866
B 33.132	6 582	705	1.63E-08	9.11E-07	2.67E-01	2.35E-05	SD0867
C 5.043	6 582	2005	5.76E-08	7.44E-08	6.80E-07		
D 6.044	6 682	345	4.80E-08	6.79E-08	3.77E-06		
E 7.052	6 582	2245	2.47E-08	6.23E-08	1.06E-03		
F 8.046	6 682	340	1.92E-08	6.47E-08	6.31E-07		
G 9.022	6 282	830	1.64E-08	5.28E-08	6.80E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.43E-07	2.05E-08	1.67E-11	N/A
GROSS BETA	6.36E-06	9.11E-07	3.46E-09	1.15E+01
TRITIUM	1.86E+00	2.67E-01	1.08E-03	3.59E+01
133XE	1.64E-04	2.35E-05	9.48E-08	4.74E-02

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 560

RELEASE MADE FROM	:	TANK	T-6203	
RELEASE START	:	DATE	61082	TIME 1032
RELEASE COMPLETION	:	DATE	61082	TIME 1429
RELEASE DURATION	:	HRS.	3.95	MIN. 237.
TANK LEVEL [INCHES]	:	INITIAL	124.	FINAL 9.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	1378299.	FINAL 1418435.
TOTAL VOLUME RELEASED	:	LITERS	7579.	GALS 2002.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1519148.	GALS 401360.
AVERAGE RELEASE RATE	:	LPM	31.98	GPM 8.45
AVERAGE BLOWDOWN RATE	:	LPM	6409.90	GPM 1693.50

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E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.143	61082	555	1.44E-08	2.00E-07	2.28E-01	1.22E-05	SD0915
B 33.144	61082	600	2.87E-08	1.16E-07	2.27E-01	1.22E-05	SD0916
C 5.044	61082	1000	5.27E-08	5.77E-08	6.49E-07		
D 6.045	61082	1755	2.10E-08	5.77E-08	6.57E-06		
E 7.053	61082	1330	2.10E-08	5.77E-08	1.12E-03		
F 8.047	61082	1804	2.10E-08	5.77E-08	3.71E-06		
G 9.023	6 882	1030	3.83E-08	5.83E-08	6.33E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	2.18E-07	2.87E-08	-4.76E-11	N/A
GROSS BETA	1.52E-06	2.00E-07	7.04E-10	2.35E+00
TRITIUM	1.73E+00	2.28E-01	1.13E-03	3.77E+01
133XE	9.25E-05	1.22E-05	6.06E-08	3.03E-02

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 561

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	61282	TIME 1610
RELEASE COMPLETION	:	DATE	61282	TIME 2029
RELEASE DURATION	:	HRS.	4.32	MIN. 259.
TANK LEVEL [INCHES]	:	INITIAL	119.	FINAL 4.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	1905760.	FINAL 1945050.
TOTAL VOLUME RELEASED	:	LITERS	7579.	GALS 2002.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1487127.	GALS 392900.
AVERAGE RELEASE RATE	:	LPM	29.26	GPM 7.73
AVERAGE BLOWDOWN RATE	:	LPM	5741.80	GPM 1516.99

DESCRIPTIONIONS :
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D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.147	61282	630	2.10E-08	5.00E-07	1.85E-01	6.89E-06	SD0931
B 33.148	61282	635	2.10E-08	2.94E-07	1.87E-01	6.89E-06	SD0932
C 5.045	61282	1600	2.47E-08	6.23E-08	6.30E-07		
D 6.046	61382	25	1.63E-08	7.40E-08	3.05E-06		
E 7.054	61282	1840	1.63E-08	5.50E-08	6.53E-06		
F 8.048	61382	15	1.63E-08	5.50E-08	9.74E-07		
G 9.023	6 882	1030	3.83E-08	5.83E-08	6.33E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.59E-07	2.10E-08	-8.78E-11	N/A
GROSS BETA	3.79E-06	5.00E-07	2.24E-09	7.46E+00
TRITIUM	1.42E+00	1.87E-01	9.50E-04	3.17E+01
133XE	5.22E-05	6.89E-06	3.49E-08	1.75E-02

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 562

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	61382	TIME 1435
RELEASE COMPLETION	:	DATE	61382	TIME 1839
RELEASE DURATION	:	HRS.	4.07	MIN. 244.
TANK LEVEL [INCHES]	:	INITIAL	120.	FINAL 3.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	2111051.	FINAL 2150240.
TOTAL VOLUME RELEASED	:	LITERS	7710.	GALS 2037.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1483304.	GALS 391890.
AVERAGE RELEASE RATE	:	LPM	31.60	GPM 8.35
AVERAGE BLOWDOWN RATE	:	LPM	6079.11	GPM 1606.11

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.149	61382	650	2.56E-08	1.03E-06	2.28E-01	6.50E-06	SD0938
B 33.150	61382	650	1.76E-08	9.21E-07	2.27E-01	6.50E-06	SD0939
C 5.046	61382	1425	1.63E-08	5.50E-08	6.30E-07		
D 6.047	61382	2135	1.63E-08	5.50E-08	2.17E-06		
E 7.055	61382	1725	1.93E-08	5.50E-08	3.60E-05		
F 8.049	61382	2130	1.63E-08	5.50E-08	2.30E-06		
G 9.023	6 882	1030	3.83E-08	5.83E-08	6.33E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.97E-07	2.56E-08	-6.60E-11	N/A
GROSS BETA	7.93E-06	1.03E-06	5.02E-09	1.67E+01
TRITIUM	1.76E+00	2.28E-01	1.18E-03	3.94E+01
133XE	5.01E-05	6.50E-06	3.36E-08	1.68E-02

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 563

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	61482	TIME 1856
RELEASE COMPLETION	:	DATE	61482	TIME 2330
RELEASE DURATION	:	HRS.	4.57	MIN. 274.
TANK LEVEL [INCHES]	:	INITIAL	126.	FINAL 4.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	2386800.	FINAL 2430900.
TOTAL VOLUME RELEASED	:	LITERS	8040.	GALS 2124.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1669185.	GALS 441000.
AVERAGE RELEASE RATE	:	LPM	29.34	GPM 7.75
AVERAGE BLOWDOWN RATE	:	LPM	6091.91	GPM 1609.49

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.153	61482	630	3.34E-08	8.61E-07	2.00E-01	6.02E-06	SD0946
B 33.154	61482	635	1.26E-08	9.08E-07	2.04E-01	6.02E-06	SD0948
C 5.047	61482	1605	1.93E-08	5.50E-08	6.30E-07		
D 6.048	61582	250	1.63E-08	5.50E-09	1.40E-06		
E 7.056	61582	25	1.63E-08	7.08E-08	3.72E-05		
F 8.050	61582	235	2.41E-08	5.50E-08	6.30E-07		
G 9.024	61482	830	2.41E-08	5.50E-08	7.19E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	2.68E-07	3.34E-08	4.45E-11	N/A
GROSS BETA	7.30E-06	9.08E-07	4.09E-09	1.36E+01
TRITIUM	1.64E+00	2.04E-01	9.80E-04	3.27E+01
133XE	4.84E-05	6.02E-06	2.89E-08	1.44E-02

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 564

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	61682	TIME 1739
RELEASE COMPLETION	:	DATE	61682	TIME 2205
RELEASE DURATION	:	HRS.	4.43	MIN. 266.
TANK LEVEL [INCHES]	:	INITIAL	126.	FINAL 4.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	2867800.	FINAL 2913550.
TOTAL VOLUME RELEASED	:	LITERS	8040.	GALS 2124.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1731638.	GALS 457500.
AVERAGE RELEASE RATE	:	LPM	30.22	GPM 7.99
AVERAGE BLOWDOWN RATE	:	LPM	6509.91	GPM 1719.92

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.155	61582	1610	1.63E-08	2.80E-07	5.89E-02	1.68E-06	SD0965
B	33.156	61482	1430	1.89E-08	2.52E-07	6.06E-02	1.68E-06	SD0966
C	5.048	61682	1630	2.62E-08	5.73E-08	6.30E-07		
D	6.049	61782	100	2.62E-08	6.79E-08	1.95E-06		
E	7.057	61682	2100	2.62E-08	5.73E-08	3.75E-05		
F	8.051	61782	100	2.62E-08	5.73E-08	6.30E-07		
G	9.024	61482	830	2.41E-08	5.50E-08	7.19E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.52E-07	1.89E-08	-2.38E-11	N/A
GROSS BETA	2.25E-06	2.80E-07	1.04E-09	3.46E+00
TRITIUM	4.88E-01	6.06E-02	2.80E-04	9.34E+00
133XE	1.35E-05	1.68E-06	7.76E-09	3.88E-03

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 565

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	61882	TIME 1741
RELEASE COMPLETION	:	DATE	61882	TIME 2154
RELEASE DURATION	:	HRS.	4.22	MIN. 253.
TANK LEVEL [INCHES]	:	INITIAL	124.	FINAL 4.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	3405635.	FINAL 3453540.
TOTAL VOLUME RELEASED	:	LITERS	7908.	GALS 2089.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1813204.	GALS 479050.
AVERAGE RELEASE RATE	:	LPM	31.26	GPM 8.26
AVERAGE BLOWDOWN RATE	:	LPM	7166.81	GPM 1893.48

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.157	61882	630	2.31E-08	2.07E-07	3.74E-02	8.18E-07	SD0991
B 33.158	61882	635	2.31E-08	1.91E-07	3.76E-02	8.18E-07	SD0992
C 5.049	61882	1730	2.62E-08	7.75E-08	6.33E-07		
D 6.050	61982	50	2.62E-08	5.82E-08	6.33E-07		
E 7.058	61882	2100	2.62E-08	6.14E-08	1.71E-04		
F 8.052	61982	40	2.62E-08	5.73E-08	6.33E-07		
G 9.024	61482	830	2.41E-08	5.50E-08	7.19E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.83E-07	2.31E-08	-4.32E-12	N/A
GROSS BETA	1.64E-06	2.07E-07	6.61E-10	2.20E+00
TRITIUM	2.98E-01	3.76E-02	1.63E-04	5.45E+00
133XE	6.47E-06	8.18E-07	3.55E-09	1.78E-03

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 566

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	62182	TIME 2005
RELEASE COMPLETION	:	DATE	62282	TIME 9
RELEASE DURATION	:	HRS.	4.07	MIN. 244.
TANK LEVEL [INCHES]	:	INITIAL	124.	FINAL 4.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	4291050.	FINAL 4332550.
TOTAL VOLUME RELEASED	:	LITERS	7908.	GALS 2089.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1570775.	GALS 415000.
AVERAGE RELEASE RATE	:	LPM	32.41	GPM 8.56
AVERAGE BLOWDOWN RATE	:	LPM	6437.60	GPM 1700.82

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.159	62182	610	2.49E-08	1.21E-07	1.98E-02	2.99E-07	SD1004
B	33.160	62182	615	2.49E-08	1.06E-07	1.99E-02	2.99E-07	SD1005
C	5.050	62182	1930	2.62E-08	5.73E-08	6.33E-07		
D	6.051	62282	320	2.62E-08	5.73E-08	6.33E-07		
E	7.059	62182	2253	2.62E-08	5.73E-08	2.61E-05		
F	8.053	62282	320	2.62E-08	5.73E-08	6.33E-07		
G	9.024	61482	830	2.41E-08	5.50E-08	7.19E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.97E-07	2.49E-08	4.07E-12	N/A
GROSS BETA	9.60E-07	1.21E-07	3.33E-10	1.11E+00
TRITIUM	1.58E-01	1.99E-02	9.98E-05	3.33E+00
133XE	2.36E-06	2.99E-07	1.50E-09	7.49E-04

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 567

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	62482	TIME 1210
RELEASE COMPLETION	:	DATE	62482	TIME 1640
RELEASE DURATION	:	HRS.	4.50	MIN. 270.
TANK LEVEL [INCHES]	:	INITIAL	130.	FINAL 5.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	4934300.	FINAL 4981020.
TOTAL VOLUME RELEASED	:	LITERS	8238.	GALS 2176.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1768352.	GALS 467200.
AVERAGE RELEASE RATE	:	LPM	30.51	GPM 8.06
AVERAGE BLOWDOWN RATE	:	LPM	6549.45	GPM 1730.37

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.161	62382	851	1.86E-08	2.58E-07	6.23E-02	2.12E-06	SD1021
B 33.162	62382	856	1.86E-08	1.97E-07	6.23E-02	2.12E-06	SD1022
C 5.051	62482	1105	2.47E-08	6.23E-08	6.48E-07		
D 6.052	62482	2000	2.47E-08	6.23E-08	4.51E-06		
E 7.060	62482	1535	2.47E-08	6.23E-08	2.86E-04		
F 8.054	62482	1950	2.47E-08	6.23E-08	3.98E-06		
G 9.025	62282	1145	2.47E-08	9.68E-08	6.80E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.53E-07	1.86E-08	-2.84E-11	N/A
GROSS BETA	2.13E-06	2.58E-07	7.48E-10	2.49E+00
TRITIUM	5.13E-01	6.23E-02	2.89E-04	9.63E+00
133XE	1.69E-05	2.05E-06	9.51E-09	4.75E-03
135XE	5.75E-07	6.98E-08	3.24E-10	1.62E-04

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 568

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	62682	TIME 1733
RELEASE COMPLETION	:	DATE	62682	TIME 2052
RELEASE DURATION	:	HRS.	3.32	MIN. 199.
TANK LEVEL [INCHES]	:	INITIAL	98.	FINAL 5.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	5518722.	FINAL 5554150.
TOTAL VOLUME RELEASED	:	LITERS	6129.	GALS 1619.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1340950.	GALS 354280.
AVERAGE RELEASE RATE	:	LPM	30.80	GPM 8.14
AVERAGE BLOWDOWN RATE	:	LPM	6738.44	GPM 1780.30

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A 33.163	62682	920	2.81E-08	2.25E-07	2.10E-01	5.46E-06	SD1038
B 33.164	62682	925	2.81E-08	1.44E-07	2.06E-01	5.46E-06	SD1037
C 5.052	62682	1633	2.10E-08	5.67E-08	6.43E-07		
D 6.053	62782	12	2.10E-08	5.67E-08	1.22E-06		
E 7.061	62682	1925	4.32E-08	5.67E-08	8.67E-04		
F 8.055	62682	2356	2.10E-08	5.67E-08	9.33E-07		
G 9.025	62282	1145	2.47E-08	9.68E-08	6.80E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.72E-07	2.81E-08	1.55E-11	N/A
GROSS BETA	1.38E-06	2.25E-07	5.85E-10	1.95E+00
TRITIUM	1.28E+00	2.10E-01	9.53E-04	3.18E+01
133XE	3.35E-05	5.46E-06	2.48E-08	1.24E-02

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 569

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	62982	TIME 416
RELEASE COMPLETION	:	DATE	62982	TIME 804
RELEASE DURATION	:	HRS.	3.80	MIN. 228.
TANK LEVEL [INCHES]	:	INITIAL	126.	FINAL 10.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	6160600.	FINAL 6202044.
TOTAL VOLUME RELEASED	:	LITERS	7644.	GALS 2020.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1568655.	GALS 414440.
AVERAGE RELEASE RATE	:	LPM	33.53	GPM 8.86
AVERAGE BLOWDOWN RATE	:	LPM	6880.07	GPM 1817.72

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
B = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.165	62882	647	1.88E-08	2.32E-07	2.85E-01	2.46E-06	SD1046
B	33.166	62882	652	1.88E-08	1.38E-07	2.88E-01	2.46E-06	SD1047
C	5.053	62982	325	2.88E-08	5.67E-08	1.09E-06		
D	6.054	62982	1110	2.10E-08	6.42E-08	1.09E-06		
E	7.062	62982	730	2.10E-08	5.67E-08	1.41E-03		
F	8.056	62982	1130	2.88E-08	5.67E-08	4.42E-06		
G	9.025	62282	1145	2.47E-08	9.68E-08	6.80E-07		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	1.44E-07	1.88E-08	-2.84E-11	N/A
GROSS BETA	1.77E-06	2.32E-07	6.56E-10	2.19E+00
TRITIUM	2.20E+00	2.88E-01	1.40E-03	4.65E+01
133XE	1.88E-05	2.46E-06	1.19E-08	5.96E-03

LIQUID WASTE SUMMARY FOR RELEASE NUMBER : 570

RELEASE MADE FROM	:	TANK	T-6204	
RELEASE START	:	DATE	63082	TIME 2020
RELEASE COMPLETION	:	DATE	7 182	TIME 42
RELEASE DURATION	:	HRS.	4.37	MIN. 262.
TANK LEVEL [INCHES]	:	INITIAL	134.	FINAL 4.
BLOWDOWN INTEGERATOR READINGS	:	INITIAL	6569110.	FINAL 6610800.
TOTAL VOLUME RELEASED	:	LITERS	8567.	GALS 2263.
TOTAL VOLUME USED FOR RELEASE	:	LITERS	1577967.	GALS 416900.
AVERAGE RELEASE RATE	:	LPM	32.70	GPM 8.64
AVERAGE BLOWDOWN RATE	:	LPM	6022.77	GPM 1591.22

DESCRIPTIONIONS :
A = LIQUID WASTE RELEASE SAMPLE NUMBER ONE
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C = RIVER SAMPLE - UPSTREAM BEFORE RELEASE
D = RIVER SAMPLE - DOWNSTREAM AFTER RELEASE
E = BLOWDOWN SAMPLE - DURING RELEASE
F = BLOWDOWN SAMPLE - AFTER RELEASE
G = BLOWDOWN SAMPLE - WEEKLY

	RC-NUMBER	DATE	TIME	ALPHA UCI/ML	BETA UCI/ML	TRIT. UCI/ML	DNG UCI/ML	MCA NUMBER
A	33.167	63082	640	2.87E-08	1.84E-07	1.16E-01	1.75E-06	SD1062
B	33.168	63082	640	1.91E-08	7.40E-08	1.18E-01	1.75E-06	SD1063
C	5.054	63082	1800	2.86E-08	5.85E-08	6.31E-07		
D	6.055	7 182	335	1.62E-08	5.85E-08	6.31E-07		
E	7.063	63082	2340	1.62E-08	5.85E-08	6.49E-04		
F	8.057	7 182	326	2.39E-08	6.76E-08	6.51E-07		
G	9.026	62982	1120	1.91E-08	5.62E-08	5.14E-06		

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	TOTAL CURIES	UCI/ML BEF. DIL.	UCI/ML AFT. DIL.	% OF LIMIT OR MPCW
GROSS ALPHA	2.46E-07	2.87E-08	5.17E-11	N/A
GROSS BETA	1.58E-06	1.84E-07	6.90E-10	2.30E+00
TRITIUM	1.01E+00	1.18E-01	6.37E-04	2.12E+01
133XE	1.50E-05	1.75E-06	9.45E-09	4.72E-03

TABLE 1.3: LIQUID EFFLUENT RELEAED VIA THE TURBINE BUILDING SUMP AND THE REACTOR BUILDING SUMP (CONTINUOUS RELEASE)

2 QUARTER 1982

TURBINE BUILDING SUMP

	MONTH	APR	MAY	JUN	QUARTERLY TOTAL
VOLUME	LITERS	6.57E+06	6.33E+06	7.84E+06	2.07E+07
TRITIUM	AVERAGE µCi/ml	2.07E-05	4.38E-05	4.07E-05	3.45E-05*
	TOTAL CURIES	1.36E-01	2.77E-01	3.19E-01	7.16E-01
GROSS βγ	AVERAGE µCi/ml	6.18E-08	6.30E-08	5.87E-08	6.11E-08*
	TOTAL CURIES	4.06E-04	3.99E-04	4.60E-04	1.27E-03
GROSS α	AVERAGE µCi/ml	2.33E-08	2.32E-08	2.38E-08	2.34E-08*
	TOTAL CURIES	1.53E-04	1.47E-05	1.87E-04	4.85E-04

REACTOR BUILDING SUMP

	MONTH	APR	MAY	JUN	QUARTERLY TOTAL
VOLUME	LITERS	4.73E+05	7.78E+05	1.26E+06	2.51E+06
TRITIUM	AVERAGE µCi/ml	6.60E-05	3.28E-04	1.98E-04	2.02E-04*
	TOTAL CURIES	3.12E-02	2.55E-01	2.50E-01	5.07E-01
GROSS βγ	AVERAGE µCi/ml	6.12E-08	6.36E-08	6.30E-08	6.27E-08*
	TOTAL CURIES	2.89E-05	4.95E-05	7.94E-05	1.57E-04
GROSS α	AVERAGE µCi/ml	2.07E-08	2.26E-08	2.00E-08	2.10E-08*
	TOTAL CURIES	9.79E-06	1.76E-05	2.52E-05	5.27E-05

* Represents "weighted" average

TABLE 2.1 - RADIOACTIVE GASEOUS EFFLUENT RELEASES FOR 2 QUARTER, 1982

		UNITS	APR	MAY	JUNE	QUARTERLY TOTAL
1a. Total Noble Gases		Curies	8.62E+00	3.19E+01	1.28E+02	1.69E+02
1b. Total Tritium		Curies	6.42E-01	2.30E-00	6.31E-01	3.57E+00
1c. Total Halogens		Curies	NSA	NSA	NSA	NSA
1d. Total Particulate Gross (β,γ) Activity RT-7325		Curies	4.54E-08	4.86E-08	5.72E-08	1.51E-07
1e. Total Particulate Gross (Alpha Activity RT-7325		Curies	1.72E-08	1.18E-08	2.01E-08	4.91E-08
2. Maximum Hourly Release Rate for Any One Hour Period		Ci/hr	4.85E-01	7.08E-01	7.19E+00	7.19E+00
3. Estimated Total Radioactivity Released by Nuclide (MPCa)						
Particulates	MPCa	Curies	NSA	NSA	NSA	NSA
Halogens	MPCa	Curies	NSA	NSA	NSA	NSA
Gases	MPCa	Curies				
3H	2.00E-07		6.42E-01	2.30E+00	6.31E-01	3.57E+00
85Kr	3.00E-07		1.68E+00	2.92E+00	8.85E-01	5.48E+00
133Xe	3.00E-07		6.86E+00	2.84E+01	1.25E+02	1.60E+02
135Xe	1.00E-07		6.46E-03	1.31E-01	1.69E-01	3.07E-01
133Xe(m)	3.00E-07		8.06E-02	2.03E-01	8.50E-01	1.13E+00
131Xe(m)	4.00E-07		NSA	1.97E-01	1.17E+00	1.37E+00
85Kr(m)	1.00E-07		NSA	1.04E-02	1.83E-02	2.86E-02
87Kr	2.00E-08		NSA	3.00E-03	4.85E-03	7.85E-03
88Kr	2.00E-08		NSA	7.80E-03	1.65E-02	2.43E-02

4.7E-05 = 4.7×10^{-5}

5.2E+03 = $5.2 \times 10^{+3}$

NSA means no significant activity.

GAS WASTE SUMMARY FOR RELEASE NUMBER 598

RELEASE START DATE 40182. TIME 1906.
RELEASE COMPLETION DATE 40282. TIME 1452.

RELEASE DURATION 1186 MINUTES OR 19.77 HOURS

TANK PRESSURES INITIAL 410 PSIG FINAL 50 PSIG

TANK TEMPERATURE 80 DEG-F

AVERAGE RELEASE RATE 13.22 CFM

TOTAL VOLUME OF GAS RELEASED 4.44E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 99 DEG-F. FLOWRATE 31500. ACFM

STABILITY CATAGORY E

RC-NUMBERS GRAB 34.016 TRITIUM 35.016

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	2.23E-05	2.00E-07	1.11E 02	9.90E-03
85KR	7.37E-04	3.00E-07	2.46E 03	3.27E-01
133XE	8.18E-07	3.00E-07	2.73E 00	3.63E-04

TOTAL CURIES OF NOBLE GAS RELEASED 3.28E-01

AVERAGE RELEASE RATE 1.71E-02 CI/HR OR 4.74E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 5.35E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	23.0	17.0	27.5	35.8	31.2	10.0	0.0
PERCENT	0.0	31.8	9.1	9.1	22.7	22.7	4.5	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 599

RELEASE START DATE 40482. TIME 1747.
RELEASE COMPLETION DATE 40582. TIME 745.

RELEASE DURATION 838 MINUTES OR 13.97 HOURS

TANK PRESSURES INITIAL 372 PSIG FINAL 50 PSIG

TANK TEMPERATURE 78 DEG-F

AVERAGE RELEASE RATE 16.80 CFM

TOTAL VOLUME OF GAS RELEASED 3.99E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 98 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.017 TRITIUM 35.017

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	2.38E-05	2.00E-07	1.19E 02	9.49E-03

TOTAL CURIES OF NOBLE GAS RELEASED 0.00E-01

AVERAGE RELEASE RATE 6.79E-04 CI/HR OR 1.89E-01 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 3.14E-03 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	0.0	0.0	34.0	0.0
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	29.0	0.0	0.0	24.0	15.5	24.3	0.0	0.0
PERCENT	13.3	0.0	0.0	6.7	53.3	20.0	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 600

RELEASE START DATE 40782. TIME 150.
RELEASE COMPLETION DATE 40782. TIME 1550.

RELEASE DURATION 840 MINUTES OR 14.00 HOURS

TANK PRESSURES INITIAL 420 PSIG FINAL 50 PSIG

TANK TEMPERATURE 80 DEG-F

AVERAGE RELEASE RATE 19.19 CFM

TOTAL VOLUME OF GAS RELEASED 4.56E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 99 DEG-F. FLOWRATE 32000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.018 TRITIUM 35.018

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.05E-04	2.00E-07	5.25E 02	4.79E-02
85KR	5.39E-04	3.00E-07	1.80E 03	2.46E-01
133XE	9.12E-07	3.00E-07	3.04E 00	4.16E-04

TOTAL CURIES OF NOBLE GAS RELEASED 2.46E-01

AVERAGE RELEASE RATE 2.10E-02 CI/HR OR 5.84E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 7.02E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	10.6	0.0	0.0	11.7	9.3	8.0	0.0	0.0
PERCENT	37.5	0.0	0.0	25.0	18.8	6.2	0.0	0.0

PERCENT CALM 6.2

GAS WASTE SUMMARY FOR RELEASE NUMBER 601

RELEASE START DATE 40982. TIME 55.
RELEASE COMPLETION DATE 40982. TIME 1357.

RELEASE DURATION 782 MINUTES OR 13.03 HOURS

TANK PRESSURES INITIAL 375 PSIG FINAL 50 PSIG

TANK TEMPERATURE 80 DEG-F

AVERAGE RELEASE RATE 18.10 CFM

TOTAL VOLUME OF GAS RELEASED 4.01E 03

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 100 DEG-F. FLOWRATE 29000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.019 TRITIUM 35.019

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.36E-05	2.00E-07	6.80E 01	5.45E-03
85KR	1.85E-04	3.00E-07	6.17E 02	7.42E-02

TOTAL CURIES OF NOBLE GAS RELEASED 7.42E-02

AVERAGE RELEASE RATE 6.11E-03 CI/HR OR 1.70E 00 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 1.95E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0
PERCENT	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	2.0	0.0	16.0	20.3	8.6	0.0	0.0	0.0
PERCENT	7.1	0.0	14.3	21.4	21.4	0.0	0.0	0.0

PERCENT CALM 21.4

GAS WASTE SUMMARY FOR RELEASE NUMBER 602

RELEASE START DATE 41082. TIME 1447.
RELEASE COMPLETION DATE 41182. TIME 200.

RELEASE DURATION 673 MINUTES OR 11.22 HOURS

TANK PRESSURES INITIAL 345 PSIG FINAL 50 PSIG

TANK TEMPERATURE 80 DEG-F

AVERAGE RELEASE RATE 19.09 CFM

TOTAL VOLUME OF GAS RELEASED 3.64E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 102 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.020 TRITIUM 35.020

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.84E-05	2.00E-07	9.20E 01	6.69E-03
133XE	5.11E-06	3.00E-07	1.70E 01	1.86E-03

TOTAL CURIES OF NOBLE GAS RELEASED 1.86E-03

AVERAGE RELEASE RATE 7.63E-04 CI/HR OR 2.12E-01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 3.27E-03 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	16.0	2.0	16.0	0.0	12.0	8.5	18.0	0.0
PERCENT	8.3	8.3	8.3	0.0	8.3	16.7	8.3	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	4.0	0.0	0.0	5.0	0.0	0.0	0.0
PERCENT	0.0	8.3	0.0	0.0	8.3	0.0	0.0	0.0

PERCENT CALM 25.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 603

RELEASE START DATE 41482. TIME 0.
RELEASE COMPLETION DATE 41482. TIME 1128.

RELEASE DURATION 688 MINUTES OR 11.47 HOURS

TANK PRESSURES INITIAL 385 PSIG FINAL 80 PSIG

TANK TEMPERATURE 80 DEG-F

AVERAGE RELEASE RATE 19.31 CFM

TOTAL VOLUME OF GAS RELEASED 3.76E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 106 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY

RC-NUMBERS GRAB 34.021 TRITIUM 35.021

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	2.14E-05	2.00E-07	1.07E 02	8.05E-03
133XE	3.42E-05	3.00E-07	1.14E 02	1.29E-02
135XE	4.95E-07	1.00E-07	4.95E 00	1.86E-04

TOTAL CURIES OF NOBLE GAS RELEASED 1.31E-02

AVERAGE RELEASE RATE 1.84E-03 CI/HR OR 5.11E-01 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 6.86E-03 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	8.0	0.0	0.0	0.0	0.0	3.0	8.0
PERCENT	0.0	7.7	0.0	0.0	0.0	0.0	7.7	7.7

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	7.0	2.0	3.7	0.0	2.0	0.0	0.0	0.0
PERCENT	7.7	7.7	30.8	0.0	7.7	0.0	0.0	0.0

PERCENT CALM 23.1

GAS WASTE SUMMARY FOR RELEASE NUMBER 604

RELEASE START DATE 41482. TIME 2300.
RELEASE COMPLETION DATE 41582. TIME 1212.

RELEASE DURATION 792 MINUTES OR 13.20 HOURS

TANK PRESSURES INITIAL 425 PSIG FINAL 55 PSIG

TANK TEMPERATURE 80 DEG-F

AVERAGE RELEASE RATE 20.35 CFM

TOTAL VOLUME OF GAS RELEASED 4.56E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 103 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.022 TRITIUM 35.022

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.93E-05	2.00E-07	9.65E 01	8.81E-03
133XE	8.43E-05	3.00E-07	2.81E 02	3.85E-02
85KR	3.97E-04	3.00E-07	1.32E 03	1.81E-01

TOTAL CURIES OF NOBLE GAS RELEASED 2.20E-01

AVERAGE RELEASE RATE 1.73E-02 CI/HR OR 4.81E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 5.44E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	8.0	8.0	14.0	0.0	7.0	0.0
PERCENT	0.0	0.0	6.7	13.3	6.7	0.0	6.7	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	6.0	6.0	6.0	0.0	4.0	6.0	0.0	0.0
PERCENT	6.7	6.7	6.7	0.0	6.7	6.7	0.0	0.0

PERCENT CALM 33.3

GAS WASTE SUMMARY FOR RELEASE NUMBER 605

RELEASE START DATE 41582. TIME 2150.
RELEASE COMPLETION DATE 41682. TIME 1148.

RELEASE DURATION 838 MINUTES OR 13.97 HOURS

TANK PRESSURES INITIAL 345 PSIG FINAL 45 PSIG

TANK TEMPERATURE 83 DEG-F

AVERAGE RELEASE RATE 15.51 CFM

TOTAL VOLUME OF GAS RELEASED 3.68E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 108 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.023 TRITIUM 35.023

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	2.81E-04	2.00E-07	1.40E 03	1.03E-01
133XE	3.03E-05	3.00E-07	1.01E 02	1.11E-02
135XE	1.70E-06	1.00E-07	1.70E 01	6.26E-04

TOTAL CURIES OF NOBLE GAS RELEASED 1.18E-02

AVERAGE RELEASE RATE 8.25E-03 CI/HR OR 2.29E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 3.72E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	23.8	14.6	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT	43.8	31.2	0.0	0.0	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	0.0	5.0	0.0	5.0	0.0	0.0	24.0
PERCENT	0.0	0.0	6.2	0.0	12.5	0.0	0.0	6.2

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 606

RELEASE START DATE 41782. TIME 318.
RELEASE COMPLETION DATE 41782 TIME 1339.

RELEASE DURATION 621 MINUTES OR 10.35 HOURS

TANK PRESSURES INITIAL 270 PSIG FINAL 35 PSIG

TANK TEMPERATURE 80 DEG-F

AVERAGE RELEASE RATE 16.48 CFM

TOTAL VOLUME OF GAS RELEASED 2.90E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 100 DEG-F. FLOWRATE 32000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.024 TRITIUM 35.024

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	4.89E-05	2.00E-07	2.44E 02	1.42E-02
133XE	4.00E-04	3.00E-07	1.33E 03	1.16E-01
135XE	2.73E-06	1.00E-07	2.73E 01	7.91E-04
85KR	8.77E-04	3.00E-07	2.92E 03	2.54E-01

TOTAL CURIES OF NOBLE GAS RELEASED 3.71E-01

AVERAGE RELEASE RATE 3.72E-02 CI/HR OR 1.03E 01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 1.17E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	3.5	0.0	0.0	0.0	0.0	3.0	0.0
PERCENT	0.0	18.2	0.0	0.0	0.0	0.0	9.1	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	3.2	0.0	4.0	0.0	1.0	10.0	0.0	0.0
PERCENT	45.5	0.0	9.1	0.0	9.1	9.1	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 607

RELEASE START DATE 42082. TIME 415.
RELEASE COMPLETION DATE 42082. TIME 1725.

RELEASE DURATION 790 MINUTES OR 13.17 HOURS

TANK PRESSURES INITIAL 445 PSIG FINAL 50 PSIG

TANK TEMPERATURE 82 DEG-F

AVERAGE RELEASE RATE 21.70 CFM

TOTAL VOLUME OF GAS RELEASED 4.85E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 106 DEG-F. FLOWRATE 32000. ACFM

STABILITY CATAGORY G

RC-NUMBERS GRAB 34.025 TRITIUM 35.025

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	3.79E-05	2.00E-07	1.89E 02	1.84E-02
133XE	2.87E-05	3.00E-07	9.57E 01	1.39E-02
135XE	5.10E-07	1.00E-07	5.10E 00	2.48E-04

TOTAL CURIES OF NOBLE GAS RELEASED 1.42E-02

AVERAGE RELEASE RATE 2.47E-03 CI/HR OR 6.87E-01 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 9.91E-03 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	13.0	6.0	8.0	0.0	0.0	0.0	0.0	17.0
PERCENT	14.3	7.1	7.1	0.0	0.0	0.0	0.0	7.1

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	14.2	0.0	0.0	0.0	0.0	0.0	15.5	0.0
PERCENT	50.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 608

RELEASE START DATE 42282. TIME 2300.
RELEASE COMPLETION DATE 42382. TIME 1130.

RELEASE DURATION 750 MINUTES OR 12.50 HOURS

TANK PRESSURES INITIAL 300 PSIG FINAL 50 PSIG

TANK TEMPERATURE 82 DEG-F

AVERAGE RELEASE RATE 14.47 CFM

TOTAL VOLUME OF GAS RELEASED 3.07E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 105 DEG-F. FLOWRATE 30000. ACFM

STABILITY CATAGORY E

RC-NUMBERS GRAB 34.026 TRITIUM 35.026

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	3.08E-05	2.00E-07	1.54E 02	9.46E-03
85KR	1.79E-04	3.00E-07	5.97E 02	5.50E-02
133XE	8.63E-05	3.00E-07	2.88E 02	2.65E-02
135XE	8.35E-07	1.00E-07	8.35E 00	2.57E-04

TOTAL CURIES OF NOBLE GAS RELEASED 8.18E-02

AVERAGE RELEASE RATE 7.30E-03 CI/HR OR 2.03E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 2.38E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	9.0	2.0	0.0	0.0	0.0	0.0	9.0	5.0
PERCENT	7.7	7.7	0.0	0.0	0.0	0.0	7.7	15.4

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	14.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0
PERCENT	7.7	0.0	15.4	0.0	0.0	0.0	0.0	0.0

PERCENT CALM 38.5

GAS WASTE SUMMARY FOR RELEASE NUMBER 609

RELEASE START DATE 42482. TIME 2036.
RELEASE COMPLETION DATE 42482. TIME 655.

RELEASE DURATION 619 MINUTES OR 10.32 HOURS

TANK PRESSURES INITIAL 385 PSIG FINAL 72 PSIG

TANK TEMPERATURE 85 DEG-F

AVERAGE RELEASE RATE 21.82 CFM

TOTAL VOLUME OF GAS RELEASED 3.82E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 102 DEG-F. FLOWRATE 29000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.027 TRITIUM 35.027

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	4.84E-04	2.00E-07	2.42E 03	1.85E-01
133XE	4.95E-05	3.00E-07	1.65E 02	1.89E-02
135XE	3.82E-06	1.00E-07	3.82E 01	1.46E-03

TOTAL CURIES OF NOBLE GAS RELEASED 2.04E-02

AVERAGE RELEASE RATE 1.99E-02 CI/HR OR 5.53E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 9.01E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	10.0	0.0	0.0	7.0
PERCENT	0.0	0.0	0.0	0.0	10.0	0.0	0.0	10.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	2.0	0.0	7.0	10.0	0.0	0.0	0.0
PERCENT	0.0	10.0	0.0	30.0	10.0	0.0	0.0	0.0

PERCENT CALM 30.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 610

RELEASE START DATE 42582. TIME 1653.
RELEASE COMPLETION DATE 42682. TIME 615.

RELEASE DURATION 802 MINUTES OR 13.37 HOURS

TANK PRESSURES INITIAL 455 PSIG FINAL 50 PSIG

TANK TEMPERATURE 83 DEG-F

AVERAGE RELEASE RATE 21.87 CFM

TOTAL VOLUME OF GAS RELEASED 4.97E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 100 DEG-F. FLOWRATE 29000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.028 TRITIUM 35.028

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.20E-04	2.00E-07	6.00E 02	5.96E-02
85KR	2.03E-04	3.00E-07	6.93E 02	1.03E-01
133XE	5.89E-05	3.00E-07	1.96E 02	2.93E-02
135XE	7.99E-07	1.00E-07	7.99E 00	3.97E-04

TOTAL CURIES OF NOBLE GAS RELEASED 1.33E-01

AVERAGE RELEASE RATE 1.44E-02 CI/HR OR 4.00E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 5.15E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	6.0	0.0	7.0	19.0	6.5	0.0	12.0	0.0
PERCENT	7.1	0.0	14.3	14.3	42.9	0.0	14.3	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 611

RELEASE START DATE 42682. TIME 1850.
RELEASE COMPLETION DATE 42782. TIME 610.

RELEASE DURATION 680 MINUTES OR 11.33 HOURS

TANK PRESSURES INITIAL 440 PSIG FINAL 50 PSIG

TANK TEMPERATURE 80 DEG-F

AVERAGE RELEASE RATE 24.98 CFM

TOTAL VOLUME OF GAS RELEASED 4.81E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 94 DEG-F. FLOWRATE 30000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.029 TRITIUM 35.029

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.37E-04	2.00E-07	6.85E 02	6.59E-02
133XE	4.42E-05	3.00E-07	1.47E 02	2.13E-02
135XE	1.14E-06	1.00E-07	1.14E 01	5.48E-04

TOTAL CURIES OF NOBLE GAS RELEASED 2.18E-02

AVERAGE RELEASE RATE 7.74E-03 CI/HR OR 2.15E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 3.32E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	0.0	5.0	8.0	8.6
PERCENT	0.0	0.0	0.0	0.0	0.0	7.7	7.7*****	

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	5.3	7.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT	23.1	38.5	0.0	0.0	0.0	0.0	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 612

RELEASE START DATE 42882. TIME 1900.
RELEASE COMPLETION DATE 42982. TIME 947.

RELEASE DURATION 887 MINUTES OR 14.78 HOURS

TANK PRESSURES INITIAL 430 PSIG FINAL 40 PSIG

TANK TEMPERATURE 78 DEG-F

AVERAGE RELEASE RATE 19.22 CFM

TOTAL VOLUME OF GAS RELEASED 4.83E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 91 DEG-F. FLOWRATE 29000. ACFM

STABILITY CATAGORY E

RC-NUMBERS GRAB 34.030 TRITIUM 35.030

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.86E-04	2.00E-07	9.30E 02	8.98E-02
85KR	8.99E-04	3.00E-07	3.00E 03	4.34E-01
133XEM	1.67E-04	3.00E-07	5.57E 02	8.06E-02
133XE	1.36E-02	3.00E-07	4.53E 04	6.57E 00
135XE	4.04E-06	1.00E-07	4.04E 01	1.95E-03

TOTAL CURIES OF NOBLE GAS RELEASED 7.08E 00

AVERAGE RELEASE RATE 4.85E-01 CI/HR OR 1.35E 02 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 1.51E 00 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	7.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0
PERCENT	6.2	0.0	0.0	0.0	0.0	0.0	0.0	18.7

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	17.5	0.0	9.0	0.0	8.2	16.0	7.0	7.5
PERCENT	12.5	0.0	6.2	0.0	25.0	6.2	12.5	12.5

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 613

RELEASE START DATE 50282. TIME 412.
RELEASE COMPLETION DATE 50282. TIME 1340.

RELEASE DURATION 568 MINUTES OR 9.47 HOURS

TANK PRESSURES INITIAL 380 PSIG FINAL 85 PSIG

TANK TEMPERATURE 73 DEG-F

AVERAGE RELEASE RATE 22.92 CFM

TOTAL VOLUME OF GAS RELEASED 3.69E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 90 DEG-F. FLOWRATE 30000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.031 TRITIUM 35.031

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	2.56E-05	2.00E-07	1.28E 02	9.44E-03
133XEM	2.37E-05	3.00E-07	7.90E 01	8.74E-03
133XE	3.24E-03	3.00E-07	1.08E 04	1.19E 00
131XEM	1.66E-05	4.00E-07	4.15E 01	6.12E-03

TOTAL CURIES OF NOBLE GAS RELEASED 1.21E 00

AVERAGE RELEASE RATE 1.29E-01 CI/HR OR 3.58E 01 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 3.98E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	4.0	0.0	2.0	0.0	4.0	0.0	0.0	2.0
PERCENT	9.1	0.0	9.1	0.0	9.2	0.0	0.0	18.2

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	0.0	2.0	0.0	5.0	6.0	0.0	0.0
PERCENT	0.0	0.0	9.1	0.0	9.1	18.2	0.0	0.0

PERCENT CALM 18.2

GAS WASTE SUMMARY FOR RELEASE NUMBER 614

RELEASE START DATE 50482. TIME 2020.
RELEASE COMPLETION DATE 50582. TIME 1258.

RELEASE DURATION 998 MINUTES OR 16.63 HOURS

TANK PRESSURES INITIAL 430 PSIG FINAL 50 PSIG

TANK TEMPERATURE 77 DEG-F

AVERAGE RELEASE RATE 16.68 CFM

TOTAL VOLUME OF GAS RELEASED 4.71E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 94 DEG-F. FLOWRATE 29000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.042 TRITIUM 35.042

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.10E-04	2.00E-07	5.50E 02	5.18E-02
133XE	1.80E-03	3.00E-07	6.00E 03	8.48E-01

TOTAL CURIES OF NOBLE GAS RELEASED 8.48E-01

AVERAGE RELEASE RATE 5.41E-02 CI/HR OR 1.50E 01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 1.72E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0
PERCENT	0.0	0.0	0.0	0.0	29.4	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	18.4	20.2	0.0	0.0	6.0	0.0	0.0	0.0
PERCENT	29.4	29.4	0.0	0.0	5.9	0.0	0.0	0.0

PERCENT CALM 5.9

GAS WASTE SUMMARY FOR RELEASE NUMBER 615

RELEASE START DATE 50782. TIME 420.
RELEASE COMPLETION DATE 50782. TIME 1316.

RELEASE DURATION 536 MINUTES OR 8.93 HOURS

TANK PRESSURES INITIAL 425 PSIG FINAL 75 PSIG

TANK TEMPERATURE 77 DEG-F

AVERAGE RELEASE RATE 28.60 CFM

TOTAL VOLUME OF GAS RELEASED 4.34E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 91 DEG-F. FLOWRATE 27000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.033 TRITIUM 35.033

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	9.39E-05	2.00E-07	4.69E 02	4.08E-02
133XE	9.35E-04	3.00E-07	3.12E 03	4.06E-01

TOTAL CURIES OF NOBLE GAS RELEASED 4.06E-01

AVERAGE RELEASE RATE 5.00E-02 CI/HR OR 1.39E 01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 1.61E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	4.0	5.6	0.0	3.0	5.0	0.0	0.0	0.0
PERCENT	40.0	30.0	0.0	10.0	10.0	0.0	0.0	0.0

PERCENT CALM 10.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 616

RELEASE START DATE 50882. TIME 1436.
RELEASE COMPLETION DATE 50982. TIME 335.

RELEASE DURATION 779 MINUTES OR 12.98 HOURS

TANK PRESSURES INITIAL 455 PSIG FINAL 50 PSIG

TANK TEMPERATURE 77 DEG-F

AVERAGE RELEASE RATE 22.77 CFM

TOTAL VOLUME OF GAS RELEASED 5.02E 08

REACTOR BU. DING VENTILLATION SYSTEM:
EXHAUST TE .PERATURE 96 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY E

RC-NUMBERS GRAB 34.034 TRITIUM 35.034

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	8.16E-05	2.00E-07	4.08E 02	4.10E-02
133XE	9.56E-04	3.00E-07	3.19E 03	4.80E-01

TOTAL CURIES OF NOBLE GAS RELEASED 4.80E-01

AVERAGE RELEASE RATE 4.01E-02 CI/HR OR 1.12E 01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 1.29E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	16.6	0.0	0.0	0.0	2.0	0.0	0.0	0.0
PERCENT	20.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	15.0	0.0	0.0	13.0	7.3	18.5	0.0	0.0
PERCENT	6.7	0.0	0.0	13.3	40.0	13.3	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 617

RELEASE START DATE 50982. TIME 1318.
RELEASE COMPLETION DATE 51082. TIME 305.

RELEASE DURATION 827 MINUTES OR 13.78 HOURS

TANK PRESSURES INITIAL 430 PSIG FINAL 50 PSIG

TANK TEMPERATURE 73 DEG-F

AVERAGE RELEASE RATE 20.28 CFM

TOTAL VOLUME OF GAS RELEASED 4.75E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 98 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY E

RC-NUMBERS GRAB 34.035 TRITIUM 35.035

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.37E-04	2.00E-07	6.85E 02	6.51E-02
133XE	5.38E-04	3.00E-07	1.79E 03	2.55E-01
135XE	6.37E-07	1.00E-07	6.37E 00	3.02E-04

TOTAL CURIES OF NOBLE GAS RELEASED 2.56E-01

AVERAGE RELEASE RATE 2.33E-02 CI/HR OR 6.47E 00 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 7.93E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0
PERCENT	0.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	18.7	27.5	0.0	16.0	10.8	8.0	0.0	2.0
PERCENT	26.6	13.3	0.0	6.7	33.3	6.7	0.0	6.7

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 618

RELEASE START DATE 51182. TIME 2045.
RELEASE COMPLETION DATE 51282. TIME 935.

RELEASE DURATION 770 MINUTES OR 12.83 HOURS

TANK PRESSURES INITIAL 395 PSIG FINAL 50 PSIG

TANK TEMPERATURE 77 DEG-F

AVERAGE RELEASE RATE 19.62 CFM

TOTAL VOLUME OF GAS RELEASED 4.28E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 98 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY G

RC-NUMBERS GRAB 34.036 TRITIUM 35.036

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	7.05E-04	2.00E-07	3.52E 03	3.02E-01
133XE	4.55E-04	3.00E-07	1.52E 03	1.95E-01

TOTAL CURIES OF NOBLE GAS RELEASED 1.95E-01

AVERAGE RELEASE RATE 3.87E-02 CI/HR OR 1.07E 01 UCI/SEC

PERCENT OF TECH. SPEC LIMIT 1.56E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	3.0	0.0	7.0	0.0	0.0
PERCENT	0.0	0.0	0.0	6.7	0.0	6.7	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	2.0	6.0	10.6	5.0	14.0	0.0	0.0
PERCENT	0.0	6.7	26.6	20.0	6.7	6.7	0.0	0.0

PERCENT CALM 20.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 619

RELEASE START DATE 51482. TIME 27.
RELEASE COMPLETION DATE 51482. TIME 1220.

RELEASE DURATION 713 MINUTES OR 11.88 HOURS

TANK PRESSURES INITIAL 400 PSIG FINAL 55 PSIG

TANK TEMPERATURE 78 DEG-F

AVERAGE RELEASE RATE 21.15 CFM

TOTAL VOLUME OF GAS RELEASED 4.27E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 102 DEG-F. FLOWRATE 32000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.037 TRITIUM 35.037

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.43E-03	2.00E-07	7.15E 03	6.11E-01
133XE	2.06E-04	3.00E-07	6.87E 02	8.80E-02
135XE	6.05E-06	1.00E-07	6.05E 01	2.58E-03

TOTAL CURIES OF NOBLE GAS RELEASED 9.06E-02

AVERAGE RELEASE RATE 5.90E-02 CI/HR OR 1.64E 01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 2.63E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	23.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT	28.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	18.3	0.0	0.0	0.0	0.0	0.0	16.0	19.2
PERCENT	21.4	0.0	0.0	0.0	0.0	0.0	21.4	28.5

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 620

RELEASE START DATE 51482. TIME 2125.
RELEASE COMPLETION DATE 51582. TIME 850.

RELEASE DURATION 685 MINUTES OR 11.42 HOURS

TANK PRESSURES INITIAL 460 PSIG FINAL 58 PSIG

TANK TEMPERATURE 78 DEG-F

AVERAGE RELEASE RATE 25.66 CFM

TOTAL VOLUME OF GAS RELEASED 4.98E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 102 DEG-F. FLOWRATE 30000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.038 TRITIUM 35.038

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.18E-04	2.00E-07	5.90E 02	5.87E-02
133XE	1.70E-04	3.00E-07	5.67E 02	8.46E-02
135XE	1.13E-05	1.00E-07	1.13E 02	5.62E-03
85KR	3.21E-03	3.00E-07	1.07E 04	1.60E 00

TOTAL CURIES OF NOBLE GAS RELEASED 1.69E 00

AVERAGE RELEASE RATE 1.53E-01 CI/HR OR 4.25E 01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 4.83E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	16.0	0.0	1.5	0.0	0.0	0.0	2.0	0.0
PERCENT	23.1	0.0	15.4	0.0	0.0	0.0	7.7	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	8.5	8.0	4.0	0.0	0.0	4.0	0.0	0.0
PERCENT	15.4	7.7	7.7	0.0	0.0	15.4	0.0	0.0

PERCENT CALM 7.6

GAS WASTE SUMMARY FOR RELEASE NUMBER 621

RELEASE START DATE 51582. TIME 1438.
RELEASE COMPLETION DATE 51682. TIME 54.

RELEASE DURATION 616 MINUTES OR 10.27 HOURS

TANK PRESSURES INITIAL 320 PSIG FINAL 50 PSIG

TANK TEMPERATURE 78 DEG-F

AVERAGE RELEASE RATE 19.16 CFM

TOTAL VOLUME OF GAS RELEASED 3.34E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 100 DEG-F. FLOWRATE 28000. ACFM

STABILITY CATAGORY G

RC-NUMBERS GRAB 34.039 TRITIUM 35.039

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.38E-03	2.00E-07	6.90E 03	4.61E-01
133XE	1.53E-04	3.00E-07	5.10E 02	5.11E-02
135XE	8.12E-06	1.00E-07	8.12E 01	2.71E-03

TOTAL CURIES OF NOBLE GAS RELEASED 5.39E-02

AVERAGE RELEASE RATE 5.02E-02 CI/HR OR 1.39E 01 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 2.26E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	3.0	8.0	2.0	0.0	14.0	0.0	7.0	0.0
PERCENT	8.3	8.3	8.3	0.0	8.3	0.0	8.3	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	9.0	6.5	0.0	4.0	0.0	0.0	0.0	0.0
PERCENT	25.0	16.7	0.0	8.3	0.0	0.0	0.0	0.0

PERCENT CALM 8.3

GAS WASTE SUMMARY FOR RELEASE NUMBER 622

RELEASE START DATE 51782. TIME 1831.
RELEASE COMPLETION DATE 51882. TIME 705.

RELEASE DURATION 754 MINUTES OR 12.57 HOURS

TANK PRESSURES INITIAL 440 PSIG FINAL 50 PSIG

TANK TEMPERATURE 73 DEG-F

AVERAGE RELEASE RATE 22.82 CFM

TOTAL VOLUME OF GAS RELEASED 4.87E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 100 DEG-F. FLOWRATE 29000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.040 TRITIUM 35.040

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	5.24E-04	2.00E-07	2.62E 03	2.55E-01
133XEM	4.34E-06	3.00E-07	1.45E 01	2.11E-03
133XE	1.40E-04	3.00E-07	4.67E 02	6.82E-02
135XE	9.41E-06	1.00E-07	9.41E 01	4.59E-03

TOTAL CURIES OF NOBLE GAS RELEASED 7.49E-02

AVERAGE RELEASE RATE 2.63E-02 CI/HR OR 7.30E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 1.15E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0
PERCENT	0.0	0.0	0.0	0.0	7.7	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	17.5	5.0	8.5	0.0	7.0	0.0	0.0	0.0
PERCENT	15.4	23.1	15.4	0.0	30.8	0.0	0.0	0.0

PERCENT CALM 7.6

GAS WASTE SUMMARY FOR RELEASE NUMBER 623

RELEASE START DATE 51982. TIME 1903.
RELEASE COMPLETION DATE 52082. TIME 1015.

RELEASE DURATION 912 MINUTES OR 15.20 HOURS

TANK PRESSURES INITIAL 440 PSIG FINAL 50 PSIG

TANK TEMPERATURE 82 DEG-F

AVERAGE RELEASE RATE 18.56 CFM

TOTAL VOLUME OF GAS RELEASED 4.79E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 103 DEG-F. FLOWRATE 27000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.041 TRITIUM 35.041

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.17E-04	2.00E-07	5.85E 02	5.61E-02
85KR	7.43E-04	3.00E-07	2.48E 03	3.56E-01
131XEM	1.83E-04	4.00E-07	4.57E 02	8.77E-02
133XEM	1.25E-04	3.00E-07	4.17E 02	5.99E-02
133XE	1.28E-02	3.00E-07	4.27E 04	6.13E 00
135XE	7.59E-06	1.00E-07	7.59E 01	3.64E-03

TOTAL CURIES OF NOBLE GAS RELEASED 6.64E 00

AVERAGE RELEASE RATE 4.41E-01 CI/HR OR 1.22E 02 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 1.36E 00 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	11.5	0.0	2.0	0.0	0.0	0.0	4.0	4.0
PERCENT	37.5	0.0	6.2	0.0	0.0	0.0	6.2	6.2

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	8.0	0.0	0.0	12.0	7.0	0.0	0.0	0.0
PERCENT	12.5	0.0	0.0	6.2	18.8	0.0	0.0	0.0

PERCENT CALM 6.2

GAS WASTE SUMMARY FOR RELEASE NUMBER 624

RELEASE START DATE 52282. TIME 915.
RELEASE COMPLETION DATE 52282. TIME 2241.

RELEASE DURATION 806 MINUTES OR 13.43 HOURS

TANK PRESSURES INITIAL 430 PSIG FINAL 45 PSIG

TANK TEMPERATURE 84 DEG-F

AVERAGE RELEASE RATE 20.65 CFM

TOTAL VOLUME OF GAS RELEASED 4.71E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 103 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.042 TRITIUM 35.042

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	4.56E-05	2.00E-07	2.28E 02	2.15E-02
133XE	2.32E-04	3.00E-07	7.73E 02	1.09E-01
135XE	5.80E-06	1.00E-07	5.80E 01	2.73E-03

TOTAL CURIES OF NOBLE GAS RELEASED 1.12E-01

AVERAGE RELEASE RATE 9.94E-03 CI/HR OR 2.76E 00 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 3.44E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	15.0	1.0	12.0	0.0
PERCENT	0.0	0.0	0.0	0.0	7.1	7.1	7.1	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	3.0	4.0	10.0	7.3	3.0	2.0	0.0
PERCENT	0.0	14.3	7.1	7.1	21.4	14.3	7.1	0.0

PERCENT CALM 7.1

GAS WASTE SUMMARY FOR RELEASE NUMBER 625

RELEASE START DATE 52382. TIME 2000.
RELEASE COMPLETION DATE 52482. TIME 934.

RELEASE DURATION 814 MINUTES OR 13.57 HOURS

TANK PRESSURES INITIAL 370 PSIG FINAL 45 PSIG

TANK TEMPERATURE 84 DEG-F

AVERAGE RELEASE RATE 17.26 CFM

TOTAL VOLUME OF GAS RELEASED 3.98E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 107 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.043 TRITIUM 35.043

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	7.70E-05	2.00E-07	3.85E 02	3.06E-02
133XEM	2.37E-05	3.00E-07	7.90E 01	9.43E-03
133XE	4.48E-03	3.00E-07	1.49E 04	1.78E 00
135XE	1.80E-06	1.00E-07	1.80E 01	7.16E-04
85KR	5.77E-04	3.00E-07	1.92E 03	2.30E-01

TOTAL CURIES OF NOBLE GAS RELEASED 2.02E 00

AVERAGE RELEASE RATE 1.51E-01 CI/HR OR 4.20E 01 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 4.71E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	11.6	16.0	0.0	0.0	10.0	0.0	0.0	0.0
PERCENT	71.4	7.1	0.0	0.0	7.1	0.0	0.0	0.0

PERCENT CALM 7.1

GAS WASTE SUMMARY FOR RELEASE NUMBER 626

RELEASE START DATE 52482. TIME 1815.
RELEASE COMPLETION DATE 52582. TIME 600.

RELEASE DURATION 705 MINUTES OR 11.75 HOURS

TANK PRESSURES INITIAL 450 PSIG FINAL 50 PSIG

TANK TEMPERATURE 84 DEG-F

AVERAGE RELEASE RATE 24.53 CFM

TOTAL VOLUME OF GAS RELEASED 4.90E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 104 DEG-F. FLOWRATE 28000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.044 TRITIUM 35.044

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	8.15E-05	2.00E-07	4.07E 02	3.99E-02
133XE	2.65E-04	3.00E-07	8.83E 02	1.30E-01
135XE	5.12E-06	1.00E-07	5.12E 01	2.51E-03

TOTAL CURIES OF NOBLE GAS RELEASED 1.32E-01

AVERAGE RELEASE RATE 1.47E-02 CI/HR OR 4.07E 00 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 5.18E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	4.0	10.0	8.0	9.0	8.6	0.0	0.0	0.0
PERCENT	7.7	7.7	15.4	30.8	23.1	0.0	0.0	0.0

PERCENT CALM 15.3

GAS WASTE SUMMARY FOR RELEASE NUMBER 627

RELEASE START DATE 52682. TIME 2225.
RELEASE COMPLETION DATE 52782. TIME 1132.

RELEASE DURATION 787 MINUTES OR 13.12 HOURS

TANK PRESSURES INITIAL 410 PSIG FINAL 50 PSIG

TANK TEMPERATURE 84 DEG-F

AVERAGE RELEASE RATE 19.78 CFM

TOTAL VOLUME OF GAS RELEASED 4.41E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 103 DEG-F. FLOWRATE 28000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.045 TRITIUM 35.045

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.08E-04	2.00E-07	5.40E 02	4.76E-02
85KR	3.53E-04	3.00E-07	1.18E 03	1.56E-01
131XEM	1.40E-04	4.00E-07	3.50E 02	6.17E-02
133XEM	1.73E-04	3.00E-07	5.77E 02	7.62E-02
133XE	2.03E-02	3.00E-07	6.77E 04	8.95E 00
135XE	4.39E-06	1.00E-07	4.39E 01	1.93E-03

TOTAL CURIES OF NOBLE GAS RELEASED 9.24E 00

AVERAGE RELEASE RATE 7.08E-01 CI/HR OR 1.97E 02 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 2.19E 00 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0
PERCENT	0.0	0.0	0.0	0.0	13.3	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	3.5	5.7	4.3	3.0	4.0	0.0	0.0	1.0
PERCENT	13.3	20.0	20.0	13.3	6.7	0.0	0.0	6.7

PERCENT CALM 6.7

GAS WASTE SUMMARY FOR RELEASE NUMBER 628

RELEASE START DATE 52782. TIME 1910.
RELEASE COMPLETION DATE 52882. TIME 740.

RELEASE DURATION 750 MINUTES OR 12.50 HOURS

TANK PRESSURES INITIAL 365 PSIG FINAL 50 PSIG

TANK TEMPERATURE 84 DEG-F

AVERAGE RELEASE RATE 18.16 CFM

TOTAL VOLUME OF GAS RELEASED 3.86E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 106 DEG-F. FLOWRATE 28000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.046 TRITIUM 35.046

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.12E-04	2.00E-07	5.60E 02	4.32E-02
85KRM	1.84E-06	1.00E-07	1.84E 01	7.10E-04
88KR	2.80E-06	2.00E-08	1.40E 02	1.08E-03
133XEM	1.18E-05	3.00E-07	3.93E 01	4.55E-03
133XE	1.26E-03	3.00E-07	4.20E 03	4.86E-01
135XE	1.16E-05	1.00E-07	1.16E 02	4.47E-03

TOTAL CURIES OF NOBLE GAS RELEASED 4.97E-01

AVERAGE RELEASE RATE 4.32E-02 CI/HR OR 1.20E 01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 1.45E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	6.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
PERCENT	7.1	0.0	0.0	7.1	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	10.0	4.0	11.0	0.0	7.3	0.0	8.0	0.0
PERCENT	28.6	14.3	14.3	0.0	21.4	0.0	7.1	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 629

RELEASE START DATE 52882. TIME 2025.
RELEASE COMPLETION DATE 52982. TIME 1005.

RELEASE DURATION 820 MINUTES OR 13.67 HOURS

TANK PRESSURES INITIAL 290 PSIG FINAL 30 PSIG

TANK TEMPERATURE 85 DEG-F

AVERAGE RELEASE RATE 13.68 CFM

TOTAL VOLUME OF GAS RELEASED 3.18E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 106 DEG-F. FLOWRATE 27000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.047 TRITIUM 0.000

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	3.21E-04	2.00E-07	1.60E 03	1.02E-01
85KRM	4.11E-06	1.00E-07	4.11E 01	1.31E-03
85KR	1.82E-03	3.00E-07	6.07E 03	5.78E-01
131XEM	1.29E-04	4.00E-07	3.22E 02	4.10E-02
133XEM	7.97E-05	3.00E-07	2.66E 02	2.53E-02
133XE	1.57E-02	3.00E-07	5.23E 04	4.99E 00
135XE	3.95E-05	1.00E-07	3.95E 02	1.26E-02

TOTAL CURIES OF NOBLE GAS RELEASED 5.65E 00

AVERAGE RELEASE RATE 4.21E-01 CI/HR OR 1.17E 02 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 1.31E 00 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	7.5	8.0	16.0	0.0	0.0	6.0	0.0	5.0
PERCENT	13.3	6.7	13.3	0.0	0.0	6.7	0.0	6.7

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	3.0	7.3	12.0	0.0	3.0	0.0	0.0	0.0
PERCENT	6.7	20.0	6.7	0.0	20.0	0.0	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 630

RELEASE START DATE 52982. TIME 752.
RELEASE COMPLETION DATE 53082. TIME 810.

RELEASE DURATION 1458 MINUTES OR 24.30 HOURS

TANK PRESSURES INITIAL 410 PSIG FINAL 50 PSIG

TANK TEMPERATURE 82 DEG-F

AVERAGE RELEASE RATE 10.71 CFM

TOTAL VOLUME OF GAS RELEASED 4.42E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 105 DEG-F. FLOWRATE 28000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.048 TRITIUM 35.047

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	8.70E-05	2.00E-07	4.35E 02	3.85E-02
85KRM	1.68E-05	1.00E-07	1.68E 02	7.43E-03
87KR	6.79E-06	2.00E-08	3.39E 02	3.00E-03
88KR	1.52E-05	2.00E-08	7.60E 02	6.72E-03
133XEM	2.04E-05	3.00E-07	6.80E 01	9.02E-03
133XE	1.90E-03	3.00E-07	6.33E 03	8.40E-01
135XE	1.36E-04	1.00E-07	1.36E 03	6.02E-02

TOTAL CURIES OF NOBLE GAS RELEASED 9.27E-01

AVERAGE RELEASE RATE 3.97E-02 CI/HR OR 1.10E 01 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 1.60E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	10.0	0.0	10.0	0.0	2.0	0.0	0.0	0.0
PERCENT	15.4	0.0	7.7	0.0	7.7	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	16.8	0.0	0.0	0.0	8.0	10.0	0.0	0.0
PERCENT	53.8	0.0	0.0	0.0	7.7	7.7	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 631

RELEASE START DATE 53182. TIME 1707.
RELEASE COMPLETION DATE 60182. TIME 608.

RELEASE DURATION 781 MINUTES OR 13.02 HOURS

TANK PRESSURES INITIAL 425 PSIG FINAL 46 PSIG

TANK TEMPERATURE 82 DEG-F

AVERAGE RELEASE RATE 21.06 CFM

TOTAL VOLUME OF GAS RELEASED 4.66E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 100 DEG-F. FLOWRATE 28000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.049 TRITIUM 35.048

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	4.75E-05	2.00E-07	2.37E 02	2.21E-02
85KRM	1.95E-06	1.00E-07	1.95E 01	9.08E-04
133XEM	1.71E-05	3.00E-07	5.70E 01	7.96E-03
133XE	2.88E-03	3.00E-07	9.60E 03	1.34E 00
135XE	5.65E-05	1.00E-07	5.65E 02	2.63E-02

TOTAL CURIES OF NOBLE GAS RELEASED 1.38E 00

AVERAGE RELEASE RATE 1.07E-01 CI/HR OR 2.98E 01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 3.47E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	11.4	7.5	7.0	0.0
PERCENT	0.0	0.0	0.0	0.0	35.7	14.3	14.3	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	6.0	6.0	0.0	6.0	4.0	0.0	0.0	0.0
PERCENT	7.1	14.3	0.0	7.1	7.1	0.0	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 632

RELEASE START DATE 60182. TIME 2025.
RELEASE COMPLETION DATE 60282. TIME 942.

RELEASE DURATION 797 MINUTES OR 13.28 HOURS

TANK PRESSURES INITIAL 440 PSIG FINAL 45 PSIG

TANK TEMPERATURE 92 DEG-F

AVERAGE RELEASE RATE 21.12 CFM

TOTAL VOLUME OF GAS RELEASED 4.77E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 101 DEG-F. FLOWRATE 28000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.050 TRITIUM 35.049

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	6.26E-05	2.00E-07	3.13E 02	2.98E-02
85KRM	6.90E-06	1.00E-07	6.90E 01	3.29E-03
85KR	1.64E-04	3.00E-07	5.47E 02	7.82E-02
87KR	9.36E-06	2.00E-08	4.68E 02	4.46E-03
88KR	1.35E-05	2.00E-08	6.75E 02	6.43E-03
133XEM	9.20E-06	3.00E-07	3.07E 01	4.38E-03
133XE	1.35E-03	3.00E-07	4.50E 03	6.43E-01
135XE	1.77E-05	1.00E-07	1.77E 02	8.44E-03

TOTAL CURIES OF NOBLE GAS RELEASED 7.49E-01

AVERAGE RELEASE RATE 5.86E-02 CI/HR OR 1.63E 01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 2.25E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	16.5	15.0	4.0	0.0	0.0	0.0	4.0
PERCENT	0.0	14.3	7.1	7.1	0.0	0.0	0.0	14.3

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	3.0	5.0	8.0	5.6	0.0	0.0	0.0	0.0
PERCENT	7.1	14.3	7.1	21.4	0.0	0.0	0.0	0.0

PERCENT CALM 7.1

GAS WASTE SUMMARY FOR RELEASE NUMBER 633

RELEASE START DATE 60382. TIME 1845.
RELEASE COMPLETION DATE 60482. TIME 208.

RELEASE DURATION 443 MINUTES OR 7.38 HOURS

TANK PRESSURES INITIAL 460 PSIG FINAL 125 PSIG

TANK TEMPERATURE 92 DEG-F

AVERAGE RELEASE RATE 32.22 CFM

TOTAL VOLUME OF GAS RELEASED 4.04E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 104 DEG-F. FLOWRATE 28000. ACFM

STABILITY CATAGORY E

RC-NUMBERS GRAB 34.051 TRITIUM 35.050

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	8.13E-05	2.00E-07	4.06E 02	3.29E-02
85KR	1.97E-04	3.00E-07	6.57E 02	7.96E-02
131XEM	1.64E-05	4.00E-07	4.10E 01	6.63E-03
133XEM	9.44E-06	3.00E-07	3.15E 01	3.82E-03
133XE	1.44E-03	3.00E-07	4.80E 03	5.82E-01
135XE	1.56E-05	1.00E-07	1.56E 02	6.31E-03

TOTAL CURIES OF NOBLE GAS RELEASED 6.78E-01

AVERAGE RELEASE RATE 9.63E-02 CI/HR OR 2.68E 01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 3.09E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	0.0	0.0	10.0	9.7
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	25.0	50.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
PERCENT	0.0	0.0	0.0	12.5	0.0	0.0	0.0	0.0

PERCENT CALM 12.5

GAS WASTE SUMMARY FOR RELEASE NUMBER 634

RELEASE START DATE 60482. TIME 1225.
RELEASE COMPLETION DATE 60482. TIME 2328.

RELEASE DURATION 663 MINUTES OR 11.05 HOURS

TANK PRESSURES INITIAL 450 PSIG FINAL 50 PSIG

TANK TEMPERATURE 84 DEG-F

AVERAGE RELEASE RATE 26.08 CFM

TOTAL VOLUME OF GAS RELEASED 4.90E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 104 DEG-F. FLOWRATE 28000. ACFM

STABILITY CATAGORY D

RC-NUMBERS GRAB 34.052 TRITIUM 35.051

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	6.56E-05	2.00E-07	3.28E 02	3.21E-02
85KRM	3.45E-06	1.00E-07	3.45E 01	1.69E-03
133XE	6.48E-04	3.00E-07	2.16E 03	3.17E-01
135XE	3.49E-05	1.00E-07	3.49E 02	1.71E-02

TOTAL CURIES OF NOBLE GAS RELEASED 3.36E-01

AVERAGE RELEASE RATE 3.33E-02 CI/HR OR 9.26E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 1.18E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	0.0	0.0	0.0	0.0	0.0	21.2	14.7
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	58.3	33.3

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 635

RELEASE START DATE 60582. TIME 2245.
RELEASE COMPLETION DATE 60682. TIME 955.

RELEASE DURATION 670 MINUTES OR 11.17 HOURS

TANK PRESSURES INITIAL 455 PSIG FINAL 55 PSIG

TANK TEMPERATURE 80 DEG-F

AVERAGE RELEASE RATE 26.00 CFM

TOTAL VOLUME OF GAS RELEASED 4.93E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 98 DEG-F. FLOWRATE 30000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.053 TRITIUM 35.052

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	7.67E-05	2.00E-07	3.83E 02	3.78E-02
133XEM	8.08E-06	3.00E-07	2.69E 01	3.99E-03
133XE	1.80E-03	3.00E-07	6.00E 03	8.88E-01
135XE	4.43E-06	1.00E-07	4.43E 01	2.19E-03

TOTAL CURIES OF NOBLE GAS RELEASED 8.94E-01

AVERAGE RELEASE RATE 8.35E-02 CI/HR OR 2.32E 01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 2.64E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
PERCENT	0.0	0.0	9.1	0.0	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	0.0	10.0	22.4	0.0	0.0	0.0	0.0
PERCENT	0.0	0.0	27.3	63.6	0.0	0.0	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 636

RELEASE START DATE 60782. TIME 1435.
RELEASE COMPLETION DATE 60782. TIME 2225.

RELEASE DURATION 470 MINUTES OR 7.83 HOURS

TANK PRESSURES INITIAL 430 PSIG FINAL 100 PSIG

TANK TEMPERATURE 82 DEG-F

AVERAGE RELEASE RATE 30.47 CFM

TOTAL VOLUME OF GAS RELEASED 4.05E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 92 DEG-F. FLOWRATE 32000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.054 TRITIUM 35.053

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	8.04E-05	2.00E-07	4.02E 02	3.26E-02
133XEM	2.16E-06	3.00E-07	7.20E 00	8.76E-04
133XE	7.04E-04	3.00E-07	2.35E 03	2.85E-01
135XE	7.22E-07	1.00E-07	7.22E 00	2.93E-04

TOTAL CURIES OF NOBLE GAS RELEASED 2.87E-01

AVERAGE RELEASE RATE 4.08E-02 CI/HR OR 1.13E 01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 1.32E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 637

RELEASE START DATE 60882. TIME 1245.
RELEASE COMPLETION DATE 60882. TIME 1922.

RELEASE DURATION 397 MINUTES OR 6.62 HOURS

TANK PRESSURES INITIAL 415 PSIG FINAL 120 PSIG

TANK TEMPERATURE 81 DEG-F

AVERAGE RELEASE RATE 32.31 CFM

TOTAL VOLUME OF GAS RELEASED 3.63E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 95 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.055 TRITIUM 35.054

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	8.80E-05	2.00E-07	4.40E 02	3.20E-02
133XEM	7.60E-06	3.00E-07	2.53E 01	2.76E-03
133XE	5.98E-04	3.00E-07	1.99E 03	2.17E-01
135XE	2.07E-06	1.00E-07	2.07E 01	7.52E-04

TOTAL CURIES OF NOBLE GAS RELEASED 2.21E-01

AVERAGE RELEASE RATE 3.82E-02 CI/HR OR 1.06E 01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 1.26E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	2.0	0.0	0.0	0.0	0.0	0.0	23.3
PERCENT	0.0	12.5	0.0	0.0	0.0	0.0	0.0	37.5

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	0.0	0.0	15.3	20.0	0.0	0.0	0.0
PERCENT	0.0	0.0	0.0	37.5	12.5	0.0	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 638

RELEASE START DATE 60982. TIME 1630.
RELEASE COMPLETION DATE 60982. TIME 1800.

RELEASE DURATION 90 MINUTES OR 1.50 HOURS

TANK PRESSURES INITIAL 450 PSIG FINAL 340 PSIG

TANK TEMPERATURE 81 DEG-F

AVERAGE RELEASE RATE 53.14 CFM

TOTAL VOLUME OF GAS RELEASED 1.35E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 93 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.056 TRITIUM 35.055

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.74E-04	2.00E-07	8.70E 02	2.36E-02
133XE	7.84E-02	3.00E-07	2.61E 05	1.06E 01
133XEM	4.44E-04	3.00E-07	1.48E 03	6.01E-02
131XEM	6.40E-04	4.00E-07	1.60E 03	8.67E-02

TOTAL CURIES OF NOBLE GAS RELEASED 1.08E 01

AVERAGE RELEASE RATE 7.19E 00 CI/HR OR 2.00E 03 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 2.22E 01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.0
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	33.3	33.3

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0
PERCENT	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 639

RELEASE START DATE 60982. TIME 2113.
RELEASE COMPLETION DATE 61082. TIME 208.

RELEASE DURATION 295 MINUTES OR 4.92 HOURS

TANK PRESSURES INITIAL 460 PSIG FINAL 170 PSIG

TANK TEMPERATURE 78 DEG-F

AVERAGE RELEASE RATE 42.98 CFM

TOTAL VOLUME OF GAS RELEASED 3.59E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 94 DEG-F. FLOWRATE 32000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.057 TRITIUM 35.056

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	3.67E-05	2.00E-07	1.83E 02	1.32E-02
133XEM	4.05E-05	3.00E-07	1.35E 02	1.45E-02
133XE	7.10E-03	3.00E-07	2.37E 04	2.55E 00

TOTAL CURIES OF NOBLE GAS RELEASED 2.56E 00

AVERAGE RELEASE RATE 5.24E-01 CI/HR OR 1.46E 02 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 1.62E 00 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	10.0	10.0	9.3	12.0
PERCENT	0.0	0.0	0.0	0.0	16.7	16.7	50.0	16.7

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 640

RELEASE START DATE 61082. TIME 1019.
RELEASE COMPLETION DATE 61082. TIME 2155.

RELEASE DURATION 696 MINUTES OR 11.60 HOURS

TANK PRESSURES INITIAL 430 PSIG FINAL 50 PSIG

TANK TEMPERATURE 79 DEG-F

AVERAGE RELEASE RATE 23.82 CFM

TOTAL VOLUME OF GAS RELEASED 4.70E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 94 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.058 TRITIUM 35.057

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	5.26E-05	2.00E-07	2.63E 02	2.47E-02
133XEM	3.36E-04	3.00E-07	1.12E 03	1.58E-01
131XEM	5.84E-04	4.00E-07	1.46E 03	2.74E-01
133XE	6.65E-02	3.00E-07	2.22E 05	3.12E 01
85KR	8.30E-04	3.00E-07	2.77E 03	3.90E-01

TOTAL CURIES OF NOBLE GAS RELEASED 3.20E 01

AVERAGE RELEASE RATE 2.76E 00 CI/HR OR 7.68E 02 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 8.52E 00 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	1.0	1.0	20.0	0.0	0.0	0.0	5.0	25.0
PERCENT	7.7	7.7	7.7	0.0	0.0	0.0	7.7	7.7

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	4.0	1.0	2.5	2.5	0.0	0.0	3.0
PERCENT	0.0	7.7	15.4	15.4	15.4	0.0	0.0	7.7

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 641

RELEASE START DATE 61182. TIME 1332.
RELEASE COMPLETION DATE 61282. TIME 105.

RELEASE DURATION 693 MINUTES OR 11.55 HOURS

TANK PRESSURES INITIAL 440 PSIG FINAL 50 PSIG

TANK TEMPERATURE 79 DEG-F

AVERAGE RELEASE RATE 24.56 CFM

TOTAL VOLUME OF GAS RELEASED 4.82E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 94 DEG-F. FLOWRATE 32000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.059 TRITIUM 35.058

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.27E-04	2.00E-07	6.35E 02	6.12E-02
131XEM	2.08E-04	4.00E-07	5.20E 02	1.00E-01
133XEM	1.05E-04	3.00E-07	3.50E 02	5.06E-02
133XE	2.37E-02	3.00E-07	7.90E 04	1.14E 01

TOTAL CURIES OF NOBLE GAS RELEASED 1.16E 01

AVERAGE RELEASE RATE 1.01E 00 CI/HR OR 2.80E 02 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 3.11E 00 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	9.6	12.6	0.0	10.0	0.0	0.0	0.0	0.0
PERCENT	23.1	23.1	0.0	7.7	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	0.0	0.0	3.0	0.0	0.0	8.0	0.0
PERCENT	0.0	0.0	0.0	15.4	0.0	0.0	7.7	0.0

PERCENT CALM 23.1

GAS WASTE SUMMARY FOR RELEASE NUMBER 642

RELEASE START DATE 61282. TIME 1735.
RELEASE COMPLETION DATE 61382. TIME 525.

RELEASE DURATION 710 MINUTES OR 11.83 HOURS

TANK PRESSURES INITIAL 460 PSIG FINAL 50 PSIG

TANK TEMPERATURE 82 DEG-F

AVERAGE RELEASE RATE 25.06 CFM

TOTAL VOLUME OF GAS RELEASED 5.04E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 95 DEG-F. FLOWRATE 32000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.060 TRITIUM 35.059

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	8.13E-05	2.00E-07	4.06E 02	4.10E-02
85KR	6.70E-04	3.00E-07	2.23E 03	3.38E-01
131XEM	4.47E-04	4.00E-07	1.12E 03	2.25E-01
133XEM	1.54E-04	3.00E-07	5.13E 02	7.76E-02
133XE	4.81E-02	3.00E-07	1.60E 05	2.42E 01

TOTAL CURIES OF NOBLE GAS RELEASED 2.49E 01

AVERAGE RELEASE RATE 2.11E 00 CI/HR OR 5.85E 02 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 6.49E 00 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
PERCENT	0.0	0.0	0.0	7.7	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	2.0	2.0	20.0	10.0	6.0	10.0	2.0
PERCENT	0.0	7.7	7.7	23.1	7.7	30.8	7.7	7.7

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 643

RELEASE START DATE 61482. TIME 2010.
RELEASE COMPLETION DATE 61582. TIME 957.

RELEASE DURATION 827 MINUTES OR 13.78 HOURS

TANK PRESSURES INITIAL 410 PSIG FINAL 50 PSIG

TANK TEMPERATURE 81 DEG-F

AVERAGE RELEASE RATE 18.93 CFM

TOTAL VOLUME OF GAS RELEASED 4.43E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 103 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.061 TRITIUM 35.060

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	2.66E-05	2.00E-07	1.33E 02	1.18E-02
133XE	2.29E-03	3.00E-07	7.63E 03	1.01E 00
135XE	2.73E-06	1.00E-07	2.73E 01	1.21E-03

TOTAL CURIES OF NOBLE GAS RELEASED 1.02E 00

AVERAGE RELEASE RATE 7.46E-02 CI/HR OR 2.07E 01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 2.32E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	11.0	0.0	0.0	0.0	0.0	0.0	14.0
PERCENT	0.0	46.7	0.0	0.0	0.0	0.0	0.0	13.3

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	6.0	12.6	0.0	5.0	0.0	0.0	0.0	0.0
PERCENT	6.7	20.0	0.0	13.3	0.0	0.0	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 644

RELEASE START DATE 61782. TIME 1816.
RELEASE COMPLETION DATE 61882. TIME 625.

RELEASE DURATION 729 MINUTES OR 12.15 HOURS

TANK PRESSURES INITIAL 430 PSIG FINAL 52 PSIG

TANK TEMPERATURE 81 DEG-F

AVERAGE RELEASE RATE 22.54 CFM

TOTAL VOLUME OF GAS RELEASED 4.65E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 106 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.062 TRITIUM 35.061

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	6.30E-05	2.00E-07	3.15E 02	2.93E-02
131XEM	5.16E-05	4.00E-07	1.29E 02	2.40E-02
133XEM	7.25E-06	3.00E-07	2.42E 01	3.37E-03
133XE	4.21E-03	3.00E-07	1.40E 04	1.96E 00
135XE	1.16E-05	1.00E-07	1.16E 02	5.40E-03

TOTAL CURIES OF NOBLE GAS RELEASED 1.99E 00

AVERAGE RELEASE RATE 1.66E-01 CI/HR OR 4.62E 01 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 5.18E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	4.0	0.0	0.0	4.0	0.0	1.0	0.0	16.0
PERCENT	7.7	0.0	0.0	7.7	0.0	7.7	0.0	7.7

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	6.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT	53.8	15.4	0.0	0.0	0.0	0.0	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 645

RELEASE START DATE 61982. TIME 2141.
RELEASE COMPLETION DATE 62082. TIME 1040.

RELEASE DURATION 779 MINUTES OR 12.98 HOURS

TANK PRESSURES INITIAL 420 PSIG FINAL 50 PSIG

TANK TEMPERATURE 85 DEG-F

AVERAGE RELEASE RATE 20.50 CFM

TOTAL VOLUME OF GAS RELEASED 4.52E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 99 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.063 TRITIUM 35.062

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	4.32E-05	2.00E-07	2.16E 02	1.95E-02
133XEM	9.05E-06	3.00E-07	3.02E 01	4.09E-03
133XE	8.20E-04	3.00E-07	2.73E 03	3.71E-01
135XE	1.37E-05	1.00E-07	1.37E 02	6.19E-03

TOTAL CURIES OF NOBLE GAS RELEASED 3.81E-01

AVERAGE RELEASE RATE 3.09E-02 CI/HR OR 8.57E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 1.00E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
PERCENT	0.0	0.0	0.0	15.4	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	4.0	0.0	4.3	0.0	0.0	0.0	0.0
PERCENT	0.0	7.7	0.0	23.1	0.0	0.0	0.0	0.0

PERCENT CALM 53.8

GAS WASTE SUMMARY FOR RELEASE NUMBER 646

RELEASE START DATE 62182. TIME 145.
RELEASE COMPLETION DATE 62182. TIME 1430.

RELEASE DURATION 765 MINUTES OR 12.75 HOURS

TANK PRESSURES INITIAL 445 PSIG FINAL 50 PSIG

TANK TEMPERATURE 84 DEG-F

AVERAGE RELEASE RATE 22.32 CFM

TOTAL VOLUME OF GAS RELEASED 4.84E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 110 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.064 TRITIUM 35.063

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
85KRM	2.13E-05	1.00E-07	2.13E 02	1.03E-02
87KR	7.98E-07	2.00E-08	3.99E 01	3.86E-04
88KR	1.91E-05	2.00E-08	9.55E 02	9.24E-03
133XEM	9.54E-06	3.00E-07	3.18E 01	4.61E-03
133XE	4.66E-04	3.00E-07	1.55E 03	2.25E-01
135XE	1.07E-04	1.00E-07	1.07E 03	5.17E-02
3H	1.53E-05	2.00E-07	7.65E 01	7.40E-03

TOTAL CURIES OF NOBLE GAS RELEASED 3.02E-01

AVERAGE RELEASE RATE 2.42E-02 CI/HR OR 6.73E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 1.38E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	2.0	0.0	0.0	0.0	2.0	0.0
PERCENT	0.0	0.0	7.1	0.0	0.0	0.0	7.1	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	8.0	2.0	5.5	3.0	8.0	0.0	2.0
PERCENT	0.0	7.1	7.1	14.3	14.3	7.1	0.0	7.1

PERCENT CALM 28.6

GAS WASTE SUMMARY FOR RELEASE NUMBER 647

RELEASE START DATE 62282. TIME 30.
RELEASE COMPLETION DATE 62282. TIME 1145.

RELEASE DURATION 675 MINUTES OR 11.25 HOURS

TANK PRESSURES INITIAL 385 PSIG FINAL 50 PSIG

TANK TEMPERATURE 83 DEG-F

AVERAGE RELEASE RATE 21.50 CFM

TOTAL VOLUME OF GAS RELEASED 4.11E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 99 DEG-F. FLOWRATE 30000. ACFM

STABILITY CATAGORY E

RC-NUMBERS GRAB 34.065 TRITIUM 35.064

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.29E-05	2.00E-07	6.45E 01	5.30E-03
85KRM	2.90E-06	1.00E-07	2.90E 01	1.19E-03
88KR	2.09E-06	2.00E-08	1.04E 02	8.59E-04
133XEM	7.76E-06	3.00E-07	2.59E 01	3.19E-03
133XE	5.09E-04	3.00E-07	1.70E 03	2.09E-01
135XE	2.25E-05	1.00E-07	2.25E 02	9.24E-03

TOTAL CURIES OF NOBLE GAS RELEASED 2.24E-01

AVERAGE RELEASE RATE 2.03E-02 CI/HR OR 5.65E 00 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 7.26E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0
PERCENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	10.0	5.0	12.0	5.0	2.0	0.0	0.0	0.0
PERCENT	8.3	25.0	16.7	8.3	8.3	0.0	0.0	0.0

PERCENT CALM 25.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 648

RELEASE START DATE 62382. TIME 1830.
RELEASE COMPLETION DATE 62482. TIME 705.

RELEASE DURATION 755 MINUTES OR 12.58 HOURS

TANK PRESSURES INITIAL 430 PSIG FINAL 50 PSIG

TANK TEMPERATURE 84 DEG-F

AVERAGE RELEASE RATE 21.76 CFM

TOTAL VOLUME OF GAS RELEASED 4.65E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 108 DEG-F. FLOWRATE 30000. ACFM

STABILITY CATAGORY E

RC-NUMBERS GRAB 34.066 TRITIUM 35.065

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	1.01E-05	2.00E-07	5.05E 01	4.70E-03
85KRM	1.31E-07	1.00E-07	1.31E 00	6.09E-05
133XEM	4.65E-06	3.00E-07	1.55E 01	2.16E-03
133XE	4.24E-04	3.00E-07	1.41E 03	1.97E-01
135XE	1.24E-05	1.00E-07	1.24E 02	5.77E-03

TOTAL CURIES OF NOBLE GAS RELEASED 2.05E-01

AVERAGE RELEASE RATE 1.67E-02 CI/HR OR 4.63E 00 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 5.49E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	10.5	0.0	0.0	10.0	10.0
PERCENT	0.0	0.0	0.0	13.3	0.0	0.0	6.7	6.7

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	11.5	9.8	0.0	14.0	10.0	0.0	0.0	0.0
PERCENT	26.7	33.3	0.0	6.7	6.7	0.0	0.0	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 649

RELEASE START DATE 62582. TIME 1241.
RELEASE COMPLETION DATE 62682. TIME 150.

RELEASE DURATION 789 MINUTES OR 13.15 HOURS

TANK PRESSURES INITIAL 430 PSIG FINAL 50 PSIG

TANK TEMPERATURE 84 DEG-F

AVERAGE RELEASE RATE 20.82 CFM

TOTAL VOLUME OF GAS RELEASED 4.65E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 106 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.067 TRITIUM 35.066

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	6.15E-06	2.00E-07	3.07E 01	2.86E-03
85KRM	1.02E-06	1.00E-07	1.02E 01	4.75E-04
133XEM	4.16E-05	3.00E-07	1.39E 02	1.94E-02
133XE	1.71E-03	3.00E-07	5.70E 03	7.96E-01
135XE	3.29E-05	1.00E-07	3.29E 02	1.53E-02

TOTAL CURIES OF NOBLE GAS RELEASED 8.31E-01

AVERAGE RELEASE RATE 6.34E-02 CI/HR OR 1.76E 01 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 2.03E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	22.2	15.0	17.0	10.0	0.0	0.0	0.0	0.0
PERCENT	33.3	13.3	6.7	13.3	0.0	0.0	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	10.0	9.0	0.0	0.0	23.0	18.0	0.0
PERCENT	0.0	6.7	6.7	0.0	0.0	13.3	6.7	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 650

RELEASE START DATE 62682. TIME 1920.
RELEASE COMPLETION DATE 62,[illegible]. TIME 754.

RELEASE DURATION 754 MINUTES OR 12.57 HOURS

TANK PRESSURES INITIAL 415 PSIG FINAL 45 PSIG

TANK TEMPERATURE 83 DEG-F

AVERAGE RELEASE RATE 21.26 CFM

TOTAL VOLUME OF GAS RELEASED 4.54E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 105 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.068 TRITIUM 35.067

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	5.77E-05	2.00E-07	2.88E 02	2.62E-02
133XEM	4.98E-06	3.00E-07	1.66E 01	2.26E-03
133XE	2.18E-04	3.00E-07	7.27E 02	9.89E-02
135XE	5.22E-06	1.00E-07	5.22E 01	2.37E-03

TOTAL CURIES OF NOBLE GAS RELEASED 1.04E-01

AVERAGE RELEASE RATE 1.03E-02 CI/HR OR 2.87E 00 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 3.62E-02 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	4.6	6.0	7.0	8.0	0.0	0.0
PERCENT	0.0	0.0	21.4	35.7	14.3	7.1	0.0	0.0

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	2.0	0.0	0.0	5.0	0.0	6.0	0.0
PERCENT	0.0	7.1	0.0	0.0	7.1	0.0	7.1	0.0

PERCENT CALM 0.0

GAS WASTE SUMMARY FOR RELEASE NUMBER 651

RELEASE START DATE 62782. TIME 1840.
RELEASE COMPLETION DATE 62882. TIME 640.

RELEASE DURATION 720 MINUTES OR 12.00 HOURS

TANK PRESSURES INITIAL 390 PSIG FINAL 50 PSIG

TANK TEMPERATURE 84 DEG-F

AVERAGE RELEASE RATE 20.42 CFM

TOTAL VOLUME OF GAS RELEASED 4.16E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 106 DEG-F. FLOWRATE 31000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.069 TRITIUM 35.068

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	3.39E-04	2.00E-07	1.69E 03	1.41E-01
85KRM	1.36E-06	1.00E-07	1.36E 01	5.66E-04
131XEM	1.06E-03	4.00E-07	2.65E 03	4.41E-01
133XEM	1.01E-03	3.00E-07	3.37E 03	4.20E-01
133XE	8.59E-02	3.00E-07	2.86E 05	3.58E 01
135XE	3.50E-05	1.00E-07	3.50E 02	1.46E-02

TOTAL CURIES OF NOBLE GAS RELEASED 3.66E 01

AVERAGE RELEASE RATE 3.06E 00 CI/HR OR 8.51E 02 UCI/SEC

PERCENT OF TECH.SPEC.LIMIT 9.46E 00 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	0.0	0.0	0.0	0.0	14.0	14.0	13.0
PERCENT	0.0	0.0	0.0	0.0	0.0	15.4	15.4	30.8

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	10.0	3.0	10.0	0.0	0.0	0.0	0.0
PERCENT	0.0	7.7	7.7	7.7	0.0	0.0	0.0	0.0

PERCENT CALM 15.4

GAS WASTE SUMMARY FOR RELEASE NUMBER 652

RELEASE START DATE 62982. TIME 1840.
RELEASE COMPLETION DATE 63082. TIME 803.

RELEASE DURATION 803 MINUTES OR 13.38 HOURS

TANK PRESSURES INITIAL 425 PSIG FINAL 50 PSIG

TANK TEMPERATURE 88 DEG-F

AVERAGE RELEASE RATE 20.04 CFM

TOTAL VOLUME OF GAS RELEASED 4.56E 08

REACTOR BUILDING VENTILLATION SYSTEM:
EXHAUST TEMPERATURE 107 DEG-F. FLOWRATE 30000. ACFM

STABILITY CATAGORY F

RC-NUMBERS GRAB 34.070 TRITIUM 35.069

ACTIVITY RELEASED BY NUCLIDE

ISOTOPE	ACTIVITY UCI/SCC	MPC(A) UCI/SCC	ACTIVITY/ MPC(A)	TOTAL CURIES
3H	4.88E-05	2.00E-07	2.44E 02	2.22E-02
85KRM	1.49E-06	1.00E-07	1.49E 01	6.79E-04
131XEM	3.14E-05	4.00E-07	7.85E 01	1.43E-02
133XEM	3.03E-05	3.00E-07	1.01E 02	1.38E-02
133XE	2.93E-03	3.00E-07	9.77E 03	1.34E 00
135XE	4.95E-05	1.00E-07	4.95E 02	2.26E-02

TOTAL CURIES OF NOBLE GAS RELEASED 1.39E 00

AVERAGE RELEASE RATE 1.05E-01 CI/HR OR 2.92E 01 UCI/SEC

PERCENT OF TECH. SPEC. LIMIT 3.37E-01 %

METEORLOGICAL DATA COLLECTED DURING RELEASE:

DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE
MPH	0.0	24.0	38.0	8.0	0.0	0.0	8.0	6.0
PERCENT	0.0	14.3	7.1	7.1	0.0	0.0	7.1	21.4

DIRECTION	S	SSW	SW	WSW	W	WNW	NW	NNW
MPH	0.0	0.0	12.0	9.0	0.0	0.0	10.0	0.0
PERCENT	0.0	0.0	7.1	28.6	0.0	0.0	7.1	0.0

PERCENT CALM 0.0

TABLE 3.1 - RADIOCHEMISTRY SUMMARY FOR 2nd QUARTER, 1982

SYSTEM	BETA/GAMMA	ALPHA	TRITIUM	
FARM POND				
	9.35E-08	6.09E-08	5.93E-05	MAXIMUM
	5.50E-08	9.57E-09	1.10E-05	MINIMUM
	6.48E-08 (13)	2.79E-08 (13)	2.87E-05 (13)	AVERAGE
COOLING TOWER B/D-During				
	8.74E-08	4.83E-08	1.94E-03	MAXIMUM
	4.10E-08	1.62E-08	6.53E-06	MINIMUM
	6.15E-08 (32)	2.58E-08 (32)	6.31E-04 (32)	AVERAGE
COOLING TOWER B/D-After				
	7.78E-08	5.79E-08	5.16E-05	MAXIMUM
	5.50E-08	1.49E-08	5.63E-07	MINIMUM
	6.09E-08 (30)	2.58E-08 (30)	5.24E-06 (30)	AVERAGE
COOLING TOWER B/D-Weekly				
	9.68E-08	5.11E-08	7.77E-06	MAXIMUM
	5.28E-08	1.64E-08	5.63E-07	MINIMUM
	6.26E-08 (13)	2.74E-08 (13)	1.85E-06 (13)	AVERAGE
REACTOR BLDG. SUMP				
	1.23E-07	3.35E-08	3.94E-03	MAXIMUM
	4.10E-08	9.38E-09	1.40E-05	MINIMUM
	6.27E-08 (108)	2.10E-08 (108)	2.02E-04 (108)	AVERAGE
TURBINE BLDG. SUMP				
	8.35E-08	4.79E-08	1.23E-04	MAXIMUM
	5.28E-08	1.32E-08	6.84E-06	MINIMUM
	6.11E-08 (39)	2.34E-08 (39)	3.45E-05 (39)	AVERAGE
SYSTEM 21, Loop 1				
	7.71E-08	2.90E-08	1.46E-04	MAXIMUM
	5.62E-08	1.32E-08	3.90E-06	MINIMUM
	6.14E-08 (14)	2.26E-08 (14)	6.43E-05 (14)	AVERAGE

NOTES: 1. All activities expressed in units of UCI/ML
2. ( ) Represents the number of samples represented by the average value.

TABLE 3.1 - RADIOCHEMISTRY SUMMARY FOR 2nd QUARTER, 1982

SYSTEM	BETA/GAMMA	ALPHA	TRITIUM	
SYSTEM 21, Loop 2				
	7.75E-08	2.89E-08	1.49E-04	MAXIMUM
	5.38E-08	9.41E-09	3.42E-06	MINIMUM
	6.17E-08 (13)	2.09E-08 (13)	6.53E-05 (13)	AVERAGE
SYSTEM 31				
	8.67E-08	3.39E-08	1.75E-04	MAXIMUM
	5.50E-08	1.44E-08	9.78E-06	MINIMUM
	6.20E-08 (12)	2.19E-08 (12)	7.68E-05 (12)	AVERAGE
SYSTEM 41				
	6.26E-08	2.31E-08	6.49E-07	MAXIMUM
	5.83E-08	1.44E-08	5.63E-07	MINIMUM
	5.98E-08 (3)	1.89E-08 (3)	6.08E-07 (3)	AVERAGE
SYSTEM 42				
	7.43E-08	4.81E-08	3.08E-06	MAXIMUM
	5.83E-08	1.92E-08	5.63E-07	MINIMUM
	6.51E-08 (3)	3.01E-08 (3)	1.43E-06 (3)	AVERAGE
SYSTEM 46, Loop 1				
	9.05E-08	4.83E-07	1.35E-04	MAXIMUM
	5.50E-08	9.46E-09	7.18E-05	MINIMUM
	6.24E-08 (49)	2.13E-08 (49)	1.09E-04 (49)	AVERAGE
SYSTEM 46, Loop 2				
	8.36E-08	2.87E-08	1.61E-04	MAXIMUM
	5.50E-08	9.41E-09	1.05E-04	MINIMUM
	6.16E-08 (30)	2.09E-08 (30)	1.44E-04 (31)	AVERAGE
SYSTEM 47, Loop 1				
	2.63E-07	2.81E-08	1.81E-04	MAXIMUM
	5.62E-08	9.41E-09	1.25E-04	MINIMUM
	7.99E-08 (13)	2.12E-08 (13)	1.46E-04 (13)	AVERAGE
SYSTEM 47, Loop 2				
	6.54E-08	3.36E-08	1.56E-04	MAXIMUM
	5.50E-08	9.65E-09	1.28E-04	MINIMUM
	6.06E-08 (13)	2.21E-08 (13)	1.46E-04 (13)	AVERAGE

NOTES: 1. All activities expressed in units of UCI/ML
2. ( ) Represents the number of samples represented by the average value.

TABLE 4.1 - SOLID WASTE (LOW LEVEL) FOR 1982

		UNITS	JAN	FEB	MARCH	APRIL	MAY	JUNE	TOTAL
1.	Total Volume of Titanium From Hydrogen Getter Shipped	ft^3	0	0	0	0	0	0	0
2.	Curies of Tritium Item 1	Ci	0	0	0	0	0	0	0
3.	Total Volume of Wastes (Not Getters) Shipped For Offsite Disposal	ft^3	0	0	0	0	0	0	0
4.	Curies Involved in Item 3	ft^3	0	0	0	0	0	0	0
5.	Description / Shipping Date	Ci	0	0	0	0	0	0	0
6.	Total Curies Involved In Offsite Shipments	Ci	0	0	0	0	0	0	0

NOTE: 1.5E+09 means $1.5 \times 10^{+9}$.

Similarly, 2.7E-07 means 2.7×10^{-7}.

Public Service Company of Colorado

16805 WCR 19 1/2, Platteville, Colorado 80651-9298

50-267

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SEP 3 1982

August 26, 1982
Fort St. Vrain
Unit #1
P-82360

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

SUBJECT: Semi-Annual Effluent Release Report

Dear Mr. Collins:

Attached please find the Semi-Annual Effluent Release Report for the Fort St. Vrain Nuclear Generating Station.

This report covers the period January 1, 1982 through June 30, 1982, and is submitted pursuant to the requirements of 10CFR 50.36 a (a) (2).

Very truly yours,

Frederick J Borst

Frederick J. Borst
Radiation Protection Manager
Fort St. Vrain Nuclear
Generating Station

FJB/skd

H005 1/1
Return original to RIV

IIIE

cc w/attachment:

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Washington, DC 20555
(6 Copies)

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