

REPORT OF RADIOACTIVE EFFLUENTS

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Revision 0
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FACILITY: LASALLE COUNTY NPS UNIT 1

DOCKET NOS.: 50-373

YEAR: 1983

I. Gaseous Effluents	UNITS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6MO. TOTAL	TECH.SPEC. REF
1. Gross Radioactivity Releases									
a) Noble Gas Release: Main Stack	Curies	4.60E-5	NONE RELEASED	NONE RELEASED	NONE RELEASED	NONE RELEASED	9.0E-01	9.0E-01	6.6.A.4.b.
b. Maximum Release Rate									3.11.2.1
(grab sample)	uCi/sec	4.60E+1	N/A	N/A	N/A	N/A	5.0E+03	5.0E+03	
c. Isotopes Released									3.11.2.2
Kr-85m	Curies	---	---	---	---	---	---	---	
Kr-87	Curies	---	---	---	---	---	---	---	
Kr-88	Curies	---	---	---	---	---	---	---	
Xe-133	Curies	---	---	---	---	---	9.0E-01	9.0E-01	
Xe-135	Curies	---	---	---	---	---	---	---	
Xe-135m	Curies	---	---	---	---	---	---	---	
Xe-138	Curies	---	---	---	---	---	---	---	
Kr-85	Curies	4.60E-5	---	---	---	---	---	4.60E-5	
d. Percent of Stack Limit	%	4.73E-10	N/A	N/A	N/A	N/A	8.77E-6	8.77E-6	
e. Average Release Rate	uCi/sec	1.72E-6	N/A	N/A	N/A	N/A	3.47E-1	5.76E-2	3.11.2.1.a
2. Main Stack Iodine Release		None	None	None	None	NONE			6.6.A.4.b
a. Isotopes Released		Released	Released	Released	Released	RELEASED			3.11.2.3
I-131	Curies	---	---	---	---	---	---	---	
I-133	Curies	---	---	---	---	---	4.85E-4	4.85E-4	
I-134	Curies	---	---	---	---	---	2.38E-4	2.38E-4	
b. Percent of Stack Limit	%	N/A	N/A	N/A	N/A	N/A	9.20E-5	9.20E-5	
c. Average Release Rate	uCi/sec	N/A	N/A	N/A	N/A	N/A	2.79E-4	4.62E-05	3.11.2.1.b.

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11. Liquid Effluents	UNITS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity (β - γ)									
a. Total Release	Curies	1.90E-01	1.20E-01	6.28E0	2.62E0	5.19E-02	5.01E-03	9.27E0	6.6.A.4.b.
b. Avg. Conc. Released	uCi/ml	3.45E-07	1.50E-07	7.44E-7	1.42E-6	1.84E-08	2.40E-09	5.60E-07	
c. Max. Conc. Released	uCi/ml	2.7E-04	1.7E-04	4.4E-04	1.96E-6	7.10E-08	3.37E-08	4.4E-04	
d. Percent of Tech Spec (based on Avg. Conc. Released)	%	9.24E-05	6.90E-05	5.99E-02	2.82E-02	6.59E-04	8.13E-05	8.91E-02	3.11.1.1
2. Tritium									6.6.A.4.b.
a. Total Release	Curies	1.82E-01	1.12E-01	5.74E-01	*	*	*	8.68E-01	
b. Avg. Conc. Released	uCi/ml	2.7E-04	1.7E-04	2.21E-04	*	*	*	2.21E-04	
c. Percent of Tech Spec	%	1.89E-05	1.16E-05	5.97E-05	*	*	*	9.00E-05	
3. Dissolved Noble Gases		None	None	None	None	NONE			6.6.A.4.b.
a. Total Release	Curies	Released	Released	Released	Released	RELEASED	1.59E-5	1.59E-5	
b. Avg. Conc. Released	uCi/ml	N/A	N/A	N/A	N/A	N/A	7.60E-12	9.63E-13	
c. Percent of Tech Spec	%	N/A	N/A	N/A	N/A	N/A	≈ 0.0	≈ 0.0	3.11.1.1.
4. Gross Alpha Radioactivity									6.6.A.4.b.
a. Total Release	Curies	<3.37E-06	<1.31E-06	<7.8E-06	*	*	*	<7.8E-06	
b. Avg. Conc. Released	uCi/ml	<5.0E-09	<2.0E-09	<3.0E-09	*	*	*	<5.0E-09	
5. Volume of Liquid Waste	Liters	6.73E05	6.57E5	2.60E06	1.41E06	1.75E06	1.03E+06	8.12E06	
6. Volume of Dilution Water	Liters	5.50E08	8.01E8	8.44E09	1.84E09	2.82E09	2.09E09	1.65E10	

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ATTACHMENT A

FACILITY: LASALLE COUNTY NPS UNIT 1

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III. Solid Waste Shipped Offsite
for Burial or Disposal

	UNITS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6MO. TOTAL	TECH. SPEC. REF.
1. Spent Resins, Filter Sludges, Evaporator Bottoms, etc.		NONE SHIPPED	NONE SHIPPED						6.6.A.4.b.
a. Quantity Shipped	Cu. meters	N/A	N/A	3.38E+1	6.77E+1	7.93E+1	3.39E+01	2.15E+02	
b. Type of Waste		N/A	N/A	Evaporator Bottoms	Evaporator Bottoms	Evaporator Bottoms	Evaporator Bottoms	---	
c. Radioactivity - Total	curies	N/A	N/A	1.37E-1	2.87E-01	7.04E-1	6.60E-1	1.79E+0	
Measured or Estimated?		N/A	N/A	Measured	Measured	Measured	Measured	---	
d. Principle Radionuclides		N/A	N/A	Cr-51, Fe-59, Mn-54, Co-58	Cr-51, Mn-54, Co-58, Co-60	Cr-51, Mn-54, Co-58, Co-60	Cr-51, Mn-54, Co-58, Co-60	---	
Measured or Estimated?		N/A	N/A	Measured	Measured	Measured	Measured	---	
e. Type of Container (LSA, Type A, Type B, Lge. Quantity)		N/A	N/A	LSA	LSA	LSA	LSA	---	
Container Volume	Cu. meters	N/A	N/A	2.12E-1	2.12E-1	2.12E-1 or 3.20E-1	2.12E-1 or 3.29E-1	---	
f. Solidification Agent		N/A	N/A	Cement	Cement	Cement	Cement	---	
2. Dry Compressible Waste, Contaminated Equipment, etc.				None		None			6.6.A.4.b.
a. Quantity Shipped	Cu. meters	1.76E+01	1.53E+01	N/A	1.56E+01	N/A	3.70E+01	8.55E+1	
b. Radioactivity - Total	Curies	1.73E-02	4.19E-02	N/A	3.98E-02	N/A	7.37E-02	1.73E-1	
Measured or Estimate?		Measured	Measured	N/A	Measured	N/A	Measured	---	
c. Principle Radionuclides		Cr-51, Fe-59, Mn-54, Co-60	Cr-51, Fe-59, Mn-54, Co-60	N/A	Cr-51, Mn-54, Co-58, Co-60	N/A	Cr-51, Mn-54, Co-58, Co-60	---	
Measured or Estimate?		Measured	Measured	N/A	Measured	N/A	Measured	---	
d. Type of Container (LSA, Type A, Type B, Lge. Quantity)		LSA	LSA	N/A	LSA	N/A	LSA	---	
Container Volume	Cu. meters	2.12E-1	2.12E-1	N/A	2.12E-01	N/A	2.12E-1 or 2.72E0	---	
e. Type of waste		DAW	DAW	N/A	DAW	N/A	DAW	---	

BSC - Barnwell, South Carolina
 CN - Chem Nuclear Co.
 HN - Hittman Nuclear & Development Co.

SOLID RADIOACTIVE WASTE SUMMARY
 UNITS 1/2
 LASALLE COUNTY NUCLEAR POWER STATION

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DATE	DISPOSITION OF MATERIAL		Type of Waste	Type of Container	Solidification Agent	Principal Nuclides	Shipment Volume (ft ³)	Shipment Activity (mCi)	Volume per Month (ft ³)	Activity Per Month (mCi)
	TRANS CO.	BURIAL SITE								
21 January 83	Tri-State M.T.	RWA	DAW	LSA	N/A	Cr-51, Fe-59	622.5	17.29	622.5	17.29
18 February 83	Tri-State M.T.	RWA	DAW	LSA	N/A	Mn-54, Co-60	540.0	41.86	540.0	41.86
16 March 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Cr-51, Fe-59	397.5	47.8	397.5	47.8
23 March 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Mn-54	397.5	41.8	795.0	89.6
25 March 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Co-58	397.5	47.8	1192.5	137.4
01 April 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Cr-51	390.	34.7	390.	34.7
11 April 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Fe-59	397.5	18.6	787.5	53.3
14 April 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Mn-54	390	19.4	1177.5	72.7
15 April 83	Tri-State M.T.	RWA	DAW	LSA	N/A	Co-58	552	39.8	1729.5	112.5
20 April 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Co-60	397.5	61.2	2127	173.7
22 April 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Zn-65	397.5	88.9	2524.5	262.6
29 April 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	↓	416.9	64.3	2941.4	326.9
04 May 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Cr-51	393.9	84.8	393.9	84.8
06 May 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Fe-59	390.0	102.0	783.9	186.8
11 May 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Mn-54	397.5	27.0	1181.4	213.8
13 May 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Co-58	409.8	25.9	1591.2	239.7
19 May 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Co-60	397.5	6.36	1988.7	246.1
25 May 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Zn-65	420.0	6.72	2408.7	252.8
27 May 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	↓	390.0	450.7	2798.7	703.5
03 June 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Cr-51	418.0	327.7	418.0	327.7
10 June 83	Tri-State M.T.	RWA	DAW	LSA	N/A	Co-58	706.5	36.66	1124.5	364.4
16 June 83	Tri-State M.T.	RWA	DAW	LSA	N/A	Co-60	600.0	37.0	1724.5	401.4
21 June 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Mn-54	390.0	197.6	2114.5	599.0
24 June 83	Tri-State M.T.	RWA	Evap. Bottoms	LSA	Cement	Zn-65	390.0	135.0	2504.5	734.0