

ATTACHMENT A

LRP-1110-3  
Revision 3  
November 19, 1986  
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REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: LASALLE COUNTY NPS UNIT 1 & 2 DOCKET NOS.: 50-373, 50-374

YEAR: 1987

I. Gaseous Effluents	UNITS	JAN	FEB	MAR	1ST QTR TOT	APR	MAY	JUN	2ND QTR TOT	6 MO TOTAL
1. Gross Radioactivity Release										
a. Noble Gas Release			None	None		None	None	None		
Main Stack	Curies	1.59E+01	Detected	Detected	1.59E+01	Detected	Detected	Detected	0	1.59E+01
b. Maximum Release Rate (grab sample)	uCi/sec	3.80E+03	N/A	N/A	3.80E+03	N/A	N/A	N/A	0	9.10E-01
c. Isotopes Released										
Kr-85m	Curies	2.50E-03	-	-	2.50E-03	-	-	-	-	2.50E-03
Kr-87	Curies	2.40E-01	<8.00E-08	+	2.40E-01	<8.00E-08	+	+	-	2.40E-01
Kr-88	Curies	3.80E-01	<8.30E-08	+	3.80E-01	<8.30E-08	+	+	-	3.80E-01
Xe-133	Curies	9.10E+00	<4.10E-08	+	9.10E+00	<4.10E-08	+	+	-	9.10E+00
Xe-135	Curies	4.60E+00	<1.70E-08	+	4.60E+00	<1.70E-08	+	+	-	4.60E+00
Xe-135m	Curies	8.60E-01	-	-	8.60E-01	-	-	-	-	8.60E-01
Xe-138	Curies	6.70E-01	<1.40E-05	+	6.70E-01	<1.40E-05	+	+	-	6.70E-01
d. Percent of Stack Limit										
Limit	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
e. Average Release Rate	uCi/sec	6.00E+00	N/A	N/A	-	N/A	N/A	N/A	-	-
2. Main Stack Iodine Release										
a. Isotopes Released										
I-131	Curies	4.63E-04	2.90E-04	3.16E-04	1.07E-03	9.20E-03	9.38E-04	<2.40E-12	1.01E-02	1.12E-02
I-132	Curies	2.37E-03	1.55E-03	-	3.92E-03	7.19E-02	4.23E-03	7.34E-04	7.69E-02	8.08E-02
I-133	Curies	3.75E-03	2.93E-03	2.61E-03	9.29E-03	4.01E-02	5.14E-03	1.66E-04	4.54E-02	5.47E-02
I-134	Curies	2.93E-03	-	-	2.93E-03	1.27E-03	2.24E-03	-	3.51E-03	6.44E-03
I-135	Curies	8.50E-04	5.07E-03	5.86E-03	1.18E-02	3.75E-03	8.15E-03	2.16E-04	1.21E-02	2.39E-02
b. Percent of Stack Limit										
Limit	%	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00
c. Average Release Rate	uCi/sec	3.90E-03	4.10E-03	2.85E-03	-	2.00E-03	2.84E-03	3.92E-03	-	-

\*Data to be presented in an errata to this report.

+Activity of each sample is less than LLD given (uCi/cc).

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PDR ADCK 05000373  
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YEAR: 1987

I. Gaseous Effluents(Cont)	UNITS	JAN	FEB	MAR	1ST QTR TOT	APR	MAY	JUN	2ND QTR TOT	6 MO TOTAL
3. Main Stack Particulate Release										
a. Gross Radioactivity (B- )	milli-curies	2.29E-01	1.20E+00	1.44E-01	1.57E+00	9.05E-01	1.85E-01	2.57E-01	1.35E+00	2.92E+00
b. Gross Alpha Radioactivity	mCi	2.00E-09	4.00E-09	3.00E-09	9.00E-09	2.00E-09	*	*	2.00E-09	1.10E-09
c. Isotopes Released										
Cr-51	mCi	-	8.80E-01	-	8.80E-01	-	-	-	-	8.80E-01
Mn-54	mCi	2.80E-02	1.50E-01	5.12E-02	2.29E-01	1.54E-02	1.89E-03	1.53E-02	3.26E-02	2.62E-01
Co-58	mCi	<1.20E-12	+	+	-	+	+	+	-	-
Fe-59	mCi	<3.00E-12	+	+	-	+	+	+	-	-
Co-60	mCi	2.01E-01	1.73E-01	9.31E-02	4.67E-01	8.90E-01	1.70E-01	2.42E-01	1.30E+00	1.77E+00
Zn-65	mCi	<2.50E-12	+	+	-	+	+	+	-	-
Sr-89	mCi	<4.00E-09	1.10E-02	<3.00E-09	1.10E-02	<3.00E-09	*	*	-	1.10E-02
Sr-90	mCi	<2.00E-09	<2.00E-09	<2.00E-09	-	<2.00E-09	*	*	-	-
Zr-95	mCi	-	-	-	-	-	-	-	-	-
Nb-95	mCi	-	-	-	-	-	-	-	-	-
Ru-103	mCi	-	-	-	-	-	-	-	-	-
Ag-110m	mCi	-	-	-	-	-	1.32E-02	-	1.32E-02	1.32E-02
Sb-124	mCi	-	-	-	-	-	-	-	-	-
Cs-134	mCi	<1.20E-12	+	+	-	+	+	+	-	-
Cs-136	mCi	7.60E-05	-	-	7.60E-05	-	-	-	-	7.60E-05
Cs-137	mCi	<1.60E-12	+	+	-	+	+	+	-	-
Ba-140/La-140	mCi	-	-	-	-	-	-	-	-	-
Ce-141	mCi	<2.00E-12	+	+	-	+	+	+	-	-
Ce-144	mCi	<8.40E-12	+	+	-	+	+	+	-	-

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FACILITY: LASALLE COUNTY NPS UNIT 1 & 2 DOCKET NOS.: 50-373, 50-374

YEAR: 1987

I. Gaseous Effluents(Cont)	UNITS	JAN	FEB	MAR	1ST QTR TOT	APR	MAY	JUN	2ND QTR TOT	6 MO TOTAL
3. Main Stack Particulate Release										
d. Percent Main Stack Limit	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
e. Average Release Rate	uCi/sec	3.20E-02	1.40E-02	2.27E-03	-	4.82E-03	4.67E-03	1.31E-04	-	-
4. Sum of Iodine and Particulate										
a. Percent Main Stack Limit	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
a. Release	Curies	1.06E-02	1.10E-02	8.93E-03	3.05E-02	1.27E-01	2.09E-02	1.37E-03	1.49E-01	1.80E-01
b. Average Release Rate	uCi/sec	2.30E-01	4.60E-01	2.50E+01	-	N/A	2.10E-02	N/A	-	-
c. Percent Tech Spec Limit	%	0.00	0.01	0.02	0.03	0.00	0.05	0.00	0.05	0.04

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## REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: LASALLE COUNTY NPS UNIT 1 &amp; 2 DOCKET NOS.: 50-373, 50-374

YEAR: 1987

II. Liquid Effluents (Cont)	UNITS	JAN	FEB	MAR	1ST QTR TOT	APR	MAY	JUN	2ND QTR TOT	6 MO TOTAL
1. Gross Radioactivity (B- )			None				None	None		
a. Total Release	Curies	1.00E-03	Released	3.07E-02	3.17E-02	5.00E-03	Released	Released	5.00E-03	3.67E-02
b. Avg. Conc. Released	uCi/ml	9.10E-09	N/A	2.74E-05	-	5.33E-05	N/A	N/A	5.33E-05	-
c. Max. Conc. Released	uCi/ml	9.10E-09	N/A	1.90E-04	-	4.60E-05	N/A	N/A	4.60E-05	-
d. Percent of Tech Spec	%	0.00	N/A	0.00	0.00	0.00	N/A	N/A	0.00	0.0
2. Tritium										
a. Total Release	Curies	3.10E-02	N/A	7.14E-02	1.02E-01	3.80E-02	N/A	N/A	3.80E-02	1.40E-01
b. Avg. Conc. Released	uCi/ml	3.90E-04	N/A	3.63E-04	-	5.20E-04	N/A	N/A	5.20E-04	-
c. Percent of Tech Spec	%	0.00	N/A	0.00	0.00	0.00	N/A	N/A	0.00	0.00
3. Dissolved Noble Gases										
a. Total Release	Curies	+	N/A	+	-	+	N/A	N/A	-	-
b. Avg. Conc. Released	uCi/ml	N/A	N/A	N/A	-	N/A	N/A	N/A	-	-
c. Percent of Tech Spec	%	-	N/A	-	-	-	N/A	N/A	-	-
4. Gross Alpha Radioactivity										
a. Total Release	Curies	4.80E-08	N/A	2.07E-07	2.55E-07	1.20E-07	N/A	N/A	1.20E-07	3.75E-07
b. Avg. Conc. Released	uCi/ml	4.40E-13	N/A	6.90E-05	-	5.33E-05	N/A	N/A	5.33E-05	-
5. Volume of Liquid Waste	Liters	7.30E+04	N/A	1.99E+05	2.72E+05	7.45E+04	N/A	N/A	7.45E+04	3.47E+05
6. Volume of Dilution Water	Liters	8.20E+07	N/A	1.32E+08	2.14E+08	7.63E+07	N/A	N/A	7.63E+07	2.88E+08

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YEAR: 1987

II. Liquid Effluents (Cont)	UNITS	JAN	FEB	MAR	1ST QTR TOT	APR	MAY	JUN	2ND QTR TOT	6 MO TOTAL
7. Isotopes Released	milli-		None				None	None		
Total	curies	1.00E+00	Released	3.07E+01	3.17E+01	4.30E+01	Released	Released	4.30E+01	7.47E+01
Cr-51	mCi	-	N/A	-	-	1.50E-01	N/A	N/A	1.50E-01	1.50E-01
Mn-54	mCi	3.30E-01	N/A	1.26E+00	1.59E+00	8.70E-01	N/A	N/A	8.70E-01	2.46E+00
Co-58	mCi	-	N/A	2.80E-02	2.80E-02	2.30E-01	N/A	N/A	2.30E-01	2.58E-01
Fe-59	mCi	<9.40E-08	N/A	+	-	+	N/A	N/A	-	-
Co-60	mCi	6.20E-01	N/A	2.39E+00	3.01E+00	3.30E+00	N/A	N/A	3.30E+00	6.31E+00
Zn-65	mCi	<9.00E-08	N/A	+	+	1.20E-01	N/A	N/A	1.20E-01	1.20E-01
Sr-89	mCi	1.80E-03	N/A	1.15E-03	2.95E-03	4.40E-04	N/A	N/A	4.40E-04	3.39E-03
Sr-90	mCi	1.00E-04	N/A	3.04E-04	4.04E-04	1.40E-04	N/A	N/A	1.40E-04	5.44E-04
Cs-134	mCi	<4.30E-08	N/A	+	-	+	N/A	N/A	-	-
Cs-137	mCi	<5.70E-08	N/A	+	-	2.80E-02	N/A	N/A	2.80E-02	2.80E-02
Ce-141	mCi	<7.60E-08	N/A	+	-	+	N/A	N/A	-	-
Ce-144	mCi	<3.10E-07	N/A	+	-	+	N/A	N/A	-	-
Xe-133	mCi	<3.40E-07	N/A	+	-	+	N/A	N/A	-	-
Xe-133m	mCi	<3.40E-07	N/A	+	-	+	N/A	N/A	-	-
Xe-135	mCi	<4.00E-08	N/A	+	-	+	N/A	N/A	-	-
Fe-55	mCi	4.30E-02	N/A	2.70E+01	2.70E+01	5.00E-02	N/A	N/A	5.00E-02	2.71E+01
Cs-137	mCi	1.40E-02	N/A	<5.70E-08	1.40E-02	+	N/A	N/A	-	1.40E-02

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YEAR: 1987

III. Solid Waste Shipped  
Offsite for Burial  
or Disposal

	UNITS	JAN	FEB	MAR	1ST QTR TOT	APR	MAY	JUN	2ND QTR TOT	6 MO TOTAL
1. Spent Resins, Filter Sludges, Evaporator Bottoms, etc.										
a. Quantity Shipped	Cu. meters	6.30E+01	2.85E+01	1.19E+01	1.03E+02	3.97E+01	9.59E+00	3.94E+00	5.32E+01	1.56E+02
b. Type of Waste		EB+SR	EB+SR	EW	-	EW+SR	EW	SR	-	-
c. Activity - Total Measured	Curies	5.80E+01	9.07E+02	1.76E+01	9.83E+02	7.63E+01	5.52E+01	7.14E+01	2.03E+02	1.19E+03
d. Principle Nuclides Measured/%										
Mn-54		32	23	33	-	32	32	09	-	-
Cr-51		22	16	22	-	22	22	64	-	-
Co-60		19	14	19	-	19	20	23	-	-
e. Type of Container (LSA, Type A, Type B, Lge Quantity)		LSA	LSA	LSA		LSA	LSA	LSA		
Container Volume	Cu. meters	2.12E-01 2.72E+00	2.18E-01 3.80E+00	2.12E-01		2.12E-01 3.28E-01	2.12E-01 2.15E+00	3.94E+00		
f. Solidification Agent		Cement	Cement	Cement	-	Cement	Cement	Cement	-	-
2. Dry Compressible Waste, Contaminated Equipment, etc.										
a. Quantity Shipped	Cu. meters	1.69E+01	1.80E+01	1.73E+01	5.22E+01	1.95E+01	1.97E+01	1.78E+01	5.70E+01	1.09E+02
b. Activity - Total Measured	Curies	1.58E-01	3.73E-01	3.53E-01	8.84E-01	3.46E-01	8.69E-01	1.57E+00	2.79E+00	3.67E+00
c. Principle Nuclides Measured/%										
Mn-54		32	31	27	-	28	27	16	-	-
Cr-51		22	6	5	-	5	5	5	-	-
Co-60		20	31	28	-	28	27	50	-	-
d. Type of Container (LSA, Type A, Type B, Lge Quantity)		LSA	LSA	LSA		LSA	LSA	LSA		
Container Volume	Cu. meters	2.10E-01 2.70E+00	2.10E-01 3.30E-01	2.10E-01 3.30E-01		2.12E-01	2.12E-01 2.72E+00	2.12E-01 2.72E+00		
e. Type of Waste		DAW	DAW	DAW	-	DAW	DAW	DAW	-	-

RWA - Richland, Washington  
 BSC - Barnwell, South Carolina  
 CN - Chem Nuclear Co.  
 HN - Hittman Nuclear & Development Co.  
 TSMT - Tri-State Motor Transit  
 USE - U.S. Ecology

ATTACHMENT A  
REPORT OF 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	Shipment Volume (ft3)	Shipment Activity (mCi)	Volume Per Month (ft3)	Activity Per Month (mCi)
	TRANS CO.	BURIAL SITE							
1-2-87	HN	BSC	EB	LSA	CEMENT	105	2709.15		
1-5-87	HN	USE	EB	LSA	CEMENT	105	3460.28		
1-6-87	HN	BSC	EB	LSA	CEMENT	105	3287.69		
1-7-87	HN	USE	EB	LSA	CEMENT	105	3472.76		
1-8-87	HN	BSC	EB	LSA	CEMENT	105	3323.84		
1-9-87	HN	BSC	EB	LSA	CEMENT	135	2451.48		
1-12-87	HN	BSC	EB	LSA	CEMENT	105	3394.70		
1-13-87	HN	BSC	EB	LSA	CEMENT	105	3454.97		
1-14-87	HN	USE	EB	LSA	CEMENT	105	2884.15		
1-15-87	HN	BSC	EB	LSA	CEMENT	135	2723.48		
1-16-87	HN	BSC	SR	LSA	N/A	168.5	766.77		
1-16-87	HN	USE	EB	LSA	CEMENT	105	3069.93		
1-19-87	HN	USE	EB	LSA	CEMENT	105	2992.54		
1-20-87	HN	USE	EB	LSA	CEMENT	105	3471.13		
1-22-87	TSMT	USE	DAW	LSA	N/A	598.5	157.97		

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REPORT OF 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	Shipment Volume (ft3)	Shipment Activity (mCi)	Volume Per Month (ft3)	Activity Per Month (mCi)
	TRANS CO.	BURIAL SITE							
1-22-87	HN	USE	EB	LSA	CEMENT	105	3125.55		
1-23-87	HN	USE	EB	LSA	CEMENT	105	2959.08		
1-26-87	HN	USE	EB	LSA	CEMENT	105	2604.66		
1-28-87	HN	USE	EB	LSA	CEMENT	105	2691.79		
1-29-87	HN	USE	EB	LSA	CEMENT	105	2652.80		
1-30-87	HN	USE	EB	LSA	CEMENT	105	2483.75	2822	58138.47
2-3-87	HN	USE	EB	LSA	CEMENT	105	1752.80		
2-4-87	HN	USE	EB	LSA	CEMENT	105	2482.25		
2-4-87	HN	USE	EB	LSA	CEMENT	105	2099.95		
2-5-87	HN	USE	EB	LSA	CEMENT	105	1339.97		
2-6-87	HN	USE	EB	LSA	CEMENT	105	1312.64		
2-10-87	HN	BSC	SR	LSA	N/A	135	228790.0		
2-10-87	HN	USE	EB	LSA	CEMENT	105	1879.64		
2-24-87	HN	BSC	SR	LSA	N/A	135	664610.0		
2-25-87	TSMT	USE	DAW	LSA	N/A	635.2	373.88		



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DATE	DISPOSITION OF MATERIAL		Type of Waste	Type of Container	Solidification Agent	Shipment Volume (ft3)	Shipment Activity (mCi)	Volume Per Month (ft3)	Activity Per Month (mCi)
	TRANS CO.	BURIAL SITE							
2-27-87	HN	USE	EB	LSA	CEMENT	105	2742.16	1640.2	907383.3
3-6-87	TSMT	USE	DAW	LSA	N/A	609.6	353.32		
3-27-87	HN	USE	EW	LSA	CEMENT	105	4018.54		
3-30-87	HN	USE	EW	LSA	CEMENT	105	4865.83		
3-31-87	HN	USE	EW	LSA	CEMENT	105	5004.02		
3-31-87	HN	USE	EW	LSA	CEMENT	105	3743.13	1029.6	17984.84
4-3-87	TSMT	USE	EW DAW	LSA	CEMENT	692.6	271.93		
4-7-87	HN	BSC	SR	LSA	CEMENT	76	21000.00		
4-8-87	HN	USE	EW	LSA	CEMENT	105	3687.83		
4-10-87	HN	USE	EW	LSA	CEMENT	105	4217.78		
4-14-87	HN	BSC	SR	LSA	N/A	163	1070.5		
4-14-87	HN	USE	EW	LSA	CEMENT	105	3912.87		
4-16-87	HN	BSC	SR	LSA	N/A	163	11112.0		
4-16-87	HN	USE	EW	LSA	CEMENT	105	2710.44		
4-20-87	HN	USE	EW	LSA	CEMENT	105	3039.32		

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	TRANS CO.	BURIAL SITE							
4-22-87	HN	USE	EW	LSA	CEMENT	105	3008.99		
4-24-87	HN	BSC	SR	LSA	N/A	163	10716.0		
4-24-87	HN	USE	EW	LSA	CEMENT	105	2282.86		
4-28-87	HN	USE	EW	LSA	CEMENT	98.9	1702.88	2091.5	68733.4
5-4-87	TSMT	USE	DAW	LSA	N/A	642	182.91		
5-7-87	HN	USE	SR	LSA	CEMENT	76	36000.0		
5-5-87	HN	USE	EW	LSA	CEMENT	105	6303.36		
5-7-87	HN	USE	EW	LSA	CEMENT	105	8981.28		
5-13-87	HN	USE	DAW EW	LSA	CEMENT	105	4562.32	1033	56029.87
6-4-87	TSMT	USE	DAW	LSA	N/A	628.5	1576.12		
6-17-87	HN	USE	DAW	LSA	CEMENT	139	71407.13	767.5	7298.25



**Commonwealth Edison**  
 72 West Adams Street, Chicago, Illinois  
 Address Reply to: Post Office Box 767  
 Chicago, Illinois 60690 - 0767

*DAB*

August 20, 1987

Mr. Bert Davis  
 Regional Administrator  
 Directorate of Inspection and Enforcement  
 Region III  
 U.S. Nuclear Regulatory Commission  
 799 Roosevelt Road  
 Glen Ellyn, IL 60137

PRIORITY ROUTING	
First	Second
RA	RC
DRA	ETC
DRP	SGA
DRS	MI
DRSS	MA
DRMA	PAO
FILE <i>W</i>	

*orig + 2*

Subject: LaSalle County Station Operation Report, NRC Dockets 50-373 & 50-374

Dear Mr. Davis,

Enclosed is the radioactive report for January through June, 1987 for LaSalle County Nuclear Power Station.

One copy of each report is provided for your use and eight copies are being distributed per the rules and regulations outlined in the November '86 Federal Register.

Sincerely yours,

N. Kalivianakis  
 General Manager

Enclosure

*IE 48*  
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SEP 15 1987