

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: LASALLE COUNTY NPS UNIT I

DOCKET NOS.: 50-373

YEAR: 1982

I. Gaseous Effluents	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity Release									
a) Total Release Main Stack	Curies	1.8E-11	4.43E-06	1.6E-12	None Released	2.56E-03	1.61E-03	4.17E-03	6.6.A.4.b.
b. Maximum Release Rate									3.11.2.1
(grab sample)	uCi/sec	1.8E-05	1.46E-02	1.6E-06	N/A	6.68E-03	1.0E+01	1.0E+01	
c. Isotopes Released									3.11.2.2
Kr-85m	Curies	---	---	---	---	---	---	---	
Kr-87	Curies	---	---	---	---	---	---	---	
Kr-88	Curies	---	---	---	---	---	---	---	
Xe-133	Curies	---	---	---	---	---	---	---	
Xe-135	Curies	---	---	---	---	---	---	---	
Xe-135m	Curies	---	---	---	---	---	---	---	
Xe-138	Curies	---	---	---	---	---	---	---	
Ar-41	Curies	---	---	---	---	---	1.0E-05	1.0E-05	
d. Percent of Stack Limit	%	6.27E-11	6.27E-06	0.00	N/A	6.93E-07	5.7E-07	6.41E-06	3.11.2.2.b.
e. Average Release Rate	uCi/sec	6.72E-12	1.65E-06	6.17E-13	N/A	9.87E-04	6.01E-04	2.63E-04	3.11.2.1.a
2. Main Stack Iodine Releases		None	None	None	None	None	None	None	6.6.A.4.b.
a. Isotopes Released		Released	Released	Released	Released	Released	Released	Released	3.11.2.3.
I-131	Curies	---	---	---	---	---	---	---	
I-133	Curies	---	---	---	---	---	---	---	
I-135	Curies	---	---	---	---	---	---	---	
b. Percent of Stack Limit	%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
c. Average Release Rate	uCi/sec	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.11.2.1.b.

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REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: LASALLE COUNTY NPS UNIT 1

DOCKET NOS.: 50-373

YEAR: 1982

1. Gaseous Effluents (cont)	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
3. Main Stack Particulate Release									
a. Gross Radioactivity (β - γ)	millicuries	1.8E-08	4.43E-03	None Released	None Released	2.56E+00	1.60E00	4.16E+00	6.6.A.4.b
b. Gross Alpha Radioactivity	mCi	<1.4E-8	<3E-09	1.6E-09	*	*	*	1.6E-09	3.11.2.3
c. Isotopes Released					None Released				3.11.2.3
Cr-51	mCi	---	---	---	Released	---	---	---	
Mn-54	mCi	---	---	---	---	1.52E-02	1.49E-02	3.01E-02	
Co-58	mCi	---	---	---	---	---	---	---	
Fe-59	mCi	---	---	---	---	---	---	---	
Co-60	mCi	---	---	---	---	---	9.2E-03	9.2E-03	
Zn-65	mCi	---	---	---	---	---	---	---	
Sr-89	mCi	<4E-08	<1E-08	<1E-09	*	*	*	<1E-08	
Sr-90	mCi	1.8E-08	1.8E-03	<2E-09	*	*	*	1.8E-03	
Mn-56	mCi	---	---	---	---	1.20E00	9.43E-01	2.14E+00	
Na-24	mCi	---	---	---	---	1.31E00	6.37E-01	1.95E+00	
Ru-103	mCi	---	---	---	---	---	---	---	
Ag-110m	mCi	---	---	---	---	---	---	---	
As-76	mCi	---	---	---	---	3.38E-02	---	3.38E-02	
I-131	mCi	---	---	---	---	---	---	---	
Cs-134	mCi	---	---	---	---	---	---	---	
Cs-136	mCi	---	---	---	---	---	---	---	
Cs-137	mCi	---	---	---	---	---	---	---	
Ba-140 / La-140	mCi	---	---	---	---	---	---	---	
Ce-141	mCi	---	---	---	---	---	---	---	
Ce-144	mCi	---	---	---	---	---	---	---	
Cs-138	mCi	---	2.63E-03	---	---	---	---	2.63E-03	

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1. Gaseous Effluents (cont'd)	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6MO. TOTAL	TECH. SPEC. REF.
3. Main Stack Particulate Release				1					6.6.A.4.b.
1. Percent Main Stack									
Limit	%	6.27E-11	6.27E-06	0.00	N/A	6.93E-07	5.7E-07	6.41E-06	
3. Average Release Rate	uCi/sec	6.72E-12	1.65E-06	6.17E-13	N/A	9.87E-04	5.97E-04	2.62E-04	3.11.2.1.b.
4. Sum of Iodine and Particulate	Curies	1.8E-11	4.43E-06	1.6E-12	Released	2.56E-03	1.6E-03	4.16E-03	6.6.A.4.b. 3.11.2.3.
a. Percent Main Stack									
Limit	%	6.27E-11	6.27E-06	0.00	N/A	6.93E-07	5.7E-07	6.41E-06	
5. Gaseous Tritium		NONE		NONE	NONE	NONE	NONE	NONE	6.6.A.4.b.
a. Release	Curies	Released	<1E-12	Released	Released	Released	Released	Released	
b. Average Release Rate	uCi/sec	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
c. Percent Tech Spec									
Limit	%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
*Data to be presented in an errata to this report.									

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11. Liquids Effluents	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity (β-γ)									
a. Total Release	Curies	5.92E-05	1.29E-04	2.13E-04	3.39E-03	6.37E-03	3.27E-02	4.30E-02	6.6.A.4.b.
b. Avg. Conc. Released	uCi/ml	2.35E-11	5.70E-11	6.45E-11	1.25E-09	4.75E-09	1.79E-08	3.05E-06	
c. Max. Conc. Released	uCi/ml	1.1E-07	1.48E-07	1.37E-06	8.35E-06	4.62E-05	1.28E-04	1.28E-04	
d. Percent of Tech Spec (based on Avg. Conc. Released)	%	1.2E-07	2.22E-07	2.12E-06	1.06E-05	2.34E-06	3.89E-04	4.03E-04	3.11.1.1
2. Tritium									6.6.A.4.b.
a. Total Release	Curies	<1.27E-03	<1.61E-03	*	*	*	*	<2.88E-03	
b. Avg. Conc. Released	uCi/ml	<5.04E-10	<7.12E-10	*	*	*	*	<2.06E-10	
c. Percent of Tech Spec	%	<1.32E-07	<1.67E-07	*	*	*	*	<2.99E-07	
3. Dissolved Noble Gases		NONE	NONE	NONE	NONE	NONE	NONE	NONE	6.6.A.4.b.
a. Total Release	Curies	Released	Released	Released	Released	Released	Released	Released	
b. Avg. Conc. Released	uCi/ml	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
c. Percent of Tech Spec	%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.11.1.1.
4. Gross Alpha Radioactivity									6.6.A.4.b.
a. Total Release	Curies	4.35E-06	7.90E-06	*	*	*	*	1.23E-05	
b. Avg. Conc. Released	uCi/ml	1.73E-12	3.50E-12	*	*	*	*	8.78E-13	
5. Volume of Liquid Waste	Liters	1.27E+06	1.61E06	2.19E06	1.75E06	1.13E06	1.74E06	9.69E06	
6. Volume of Dilution Water	Liters	2.52E09	2.26E09	3.30E09	2.72E09	1.34E09	1.82E09	1.40E10	

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II. Liquid Effluents (cont'd)	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6MO. TOTAL	TECH. SPEC. REF
7. Isotopes Released	mCi	5.92E-02	1.22E-01	2.13E-01	3.39E+0	6.37E+0	3.27E+01	4.30E+01	
Cr-51	mCi	---	---	---	4.78E-01	4.30E-01	3.82E+00	4.73E+00	
Mn-54	mCi	---	---	1.73E-02	5.672E-01	1.07E-01	1.71E+01	1.78E+01	
Co-58	mCi	---	1.2E-02	1.82E-01	2.51E-01	6.00E-03	6.77E+00	7.22E+00	
Fe-59	mCi	---	---	---	3.36E-02	7.70E-03	1.1E-01	1.54E-01	
Co-60	mCi	---	---	---	3.47E-02	---	2.86E+00	2.89E+00	
Zn-65	mCi	---	---	---	---	---	2.05E+00	2.05E+00	
Sr-89	mCi	<4.46E-02	<5.66E-03	*	*	*	*	<4.46E-02	
Sr-90	mCi	<5.24E-02	<7.27E-03	*	*	*	*	<5.24E-02	
Mo-99	mCi	---	---	---	---	7.4E-02	---	7.4E-02	
Sb-122	mCi	---	---	---	---	1.79E-02	---	1.79E-02	
Sb-124	mCi	---	---	---	---	2.00E-03	---	2.00E-03	
I-131	mCi	---	---	---	---	---	---	---	
Cs-134	mCi	---	---	---	---	---	---	---	
Cs-137	mCi	---	---	---	---	---	---	---	
As-76	mCi	---	---	---	8.05E-01	7.52E-01	---	1.56E+00	
I-133	mCi	---	---	---	3.5E-03	---	---	3.5E-03	
Ba-140/La-140	mCi	---	---	---	---	---	---	---	
Fe-55	mCi	5.92E-02	1.1E-01	*	*	*	*	1.70E-01	
Na-24	mCi	---	---	1.43E-02	9.59E-01	4.82E+0	---	5.79E+00	
Xe-133	mCi	---	---	---	---	---	---	---	
Xe-133m	mCi	---	---	---	---	---	---	---	
Xe-135	mCi	---	---	---	---	---	---	---	
Tr-99m	mCi	---	---	---	2.55E-01	1.54E-01	---	4.09E-01	

LaSalle County Station

19 82 Report of Occupational Personnel Radiation Doses*
Commonwealth Edison Company

Station Employees

<u>Job Function</u>	<u>Work Function</u>						
	<u>Reactor Operations & Surveillance</u> # of People/Man-Rem	<u>Routine Maint.</u> # of People/Man-Rem	<u>Inservice Inspection</u> # of People/Man-Rem	<u>Waste Processing</u> # of People/Man-Rem	<u>Refueling</u> # of People/Man-Rem	<u>Special Maint. (NRC Mandated)</u> # of People/Man-Rem	<u>Total By Job Function</u> # of People/Man-Rem
Maintenance	-----	3/0.340	-----	-----	-----	-----	3/0.340
Operating	4/0.460	-----	-----	-----	-----	-----	4/0.460
Health Physics	8/1.70	-----	-----	-----	-----	-----	8/1.700
Supervision	3/0.820	1/0.110	4/0.460	-----	-----	-----	8/1.390
Engineering	5/0.680	-----	-----	-----	-----	-----	5/0.680

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LaSalle County Station

1982 Report of Occupational Personnel Radiation Doses*
Commonwealth Edison Company

Company Employee Other than Station Employees

<u>Job Function</u>	<u>Work Function</u>						
	<u>Reactor Operations & Surveillance # of People/Man-Rem</u>	<u>Routine Maint. # of People/ Man-Rem</u>	<u>Inservice Inspection # of People/Man-Rem</u>	<u>Waste Processing # of People/ Man-Rem</u>	<u>Refueling # of People/ Man-Rem</u>	<u>Special Maint. (NRC Mandated) # of People/Man-Rem</u>	<u>Total By Job Function # of People/Man-Rem</u>
Maintenance	-----	-----	-----	-----	-----	-----	-----
Operating	-----	-----	-----	-----	-----	-----	-----
Health Physics	-----	-----	-----	-----	-----	-----	-----
Supervision	-----	-----	-----	-----	-----	-----	-----
Engineering	2/0.360	-----	-----	-----	-----	-----	2/0.360

LaSalle County Station

1982 Report of Occupational Personnel Radiation Doses*
Commonwealth Edison Company

Contract Workers

<u>Job Function</u>	<u>Work Function</u>						
	<u>Reactor Operations & Surveillance</u> # of People/Man-Rem	<u>Routine Maint.</u> # of People/ Man-Rem	<u>Inservice Inspection</u> # of People/Man-Rem	<u>Waste Processing</u> # of People/ Man-Rem	<u>Refueling</u> # of People/ Man-Rem	<u>Special Maint. (NRC Mandated)</u> # of People Man-Rem	<u>Total By Job Function</u> # of People/Man-Rem
Maintenance	-----	1/0.110	-----	-----	-----	-----	1/0.110
Operating	-----	-----	-----	-----	-----	-----	-----
Health Physics	-----	-----	-----	-----	-----	-----	-----
Supervision	-----	-----	1/0.130	-----	-----	-----	1/0.130
Engineering	-----	-----	2/0.290	-----	-----	-----	2/0.290