



**Commonwealth Edison**  
 LaSalle County Nuclear Station  
 Rural Route #1, Box 220  
 Marseilles, Illinois 61341  
 Telephone 815/357-6761

*DMB*

April 19, 1983

**TE HQ FILE COPY**

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

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PRINCIPAL STAFF			
RA		ENF	
D/RA		SCS	
A/RA		PAO	
DPRP		SLO	
DRMA		RC	
DRMSP			
DE			
ML			
OL		FILE	<i>had</i>

Dear Mr. Keppler:

Subject: LaSalle County Station Operating Report, NRC Docket #50-373

Enclosed is an errata to Part 2 of the 1982 LaSalle County Station Operating Report, reporting radioactive effluents for July through December. Part 1 of the 1983 Station Operating Report, reporting radioactive effluent for January through June, will be submitted under separate cover in August.

One copy of this report is provided for your use and 39 copies are being submitted directly to Mr. Edson G. Case, Deputy Director of the Office of Nuclear Reactor Regulation.

Sincerely,

*G. J. Diederich*

G. J. Diederich  
 Superintendent  
 LaSalle County Station

GJD/FRL/LRA/rg

Enclosure

*fi*

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 PDR ADCK 05000373  
 R PDR

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MAY 2 1983

# REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: LASALLE COUNTY NPS UNIT 1

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	
8305040371 830419 PDR ADDCK 05000373 R PDR									
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 (beta-gamma) curries	milli-	1.8E-08	4.43E-03	None Released	None Released	2.56E+00	1.60E+00	4.16E+00	6.6.A.4.b
b. Gross Alpha Radioactivity	mCi	<1.4E-09	<3E-09	1.6E-09	<1E-08	<2E-08	<6E-06	1.6E-09	3.11.2.3
c. Isotopes Released		---	---	---	---	---	---	---	3.11.2.3
Cr-51	mCi	---	---	---	---	---	---	---	
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	<9E-09	6E-09	3.0E-09	6E-09	
Sr-90	mCi	1.8E-08	1.8E-03	<2E-09	<1E-08	4.9E-08	4.0E-09	1.8E-03	
Mn-56	mCi	---	---	---	---	1.20E+00	9.43E-01	2.14E+00	
Na-24	mCi	---	---	---	---	1.31E+00	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	

## REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: LASALLE COUNTY NPS UNIT 1

DOCKET NOS: 50-373

YEAR: 1982

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# REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: LASALLE COUNTY NPS UNIT 1

DOCKET NOS.: 50-373

YEAR: 1982

II. Liquids Effluents	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity ( $\beta$ - $\gamma$ )									
a. Total Release	Curies	5.92E-05	1.29E-04	3.74E-2	1.41E-01	2.21E-01	5.82E-01	9.82E-01	6.6.A.4.b.
b. Avg. Conc. Released	uCi/ml	2.35E-11	5.70E-11	1.13E-08	5.18E-08	1.65E-07	3.19E-07	7.01E-08	
c. Max. Conc. Released	uCi/ml	1.1E-11	1.48E-07	1.7E-05	7.7E-05	1.9E-04	3.1E-04	3.1E-04	
d. Percent of Tech Spec (based on Avg. Conc. Released)	%	1.2E-07	2.22E-07	4.30E-06	7.10E-05	3.16E-05	5.03E-04	6.10E-04	3.11.1.1
2. Tritium									6.6.A.4.b.
a. Total Release	Curies	<1.27E-03	<1.61E-03	3.72E-2	1.35E-01	2.15E-01	5.39E-01	9.26E-01	
b. Avg. Conc. Released	uCi/ml	<5.04E-10	<7.12E-10	1.7E-5	7.7E-05	1.9E-04	3.1E-04	5.94E-04	
c. Percent of Tech Spec	%	<1.32E-07	<1.67E-07	3.87E-06	1.40E-05	2.23E-05	5.60E-05	9.63E-05	
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	6.57E-06	<1.05E-05	7.91E-06	<3.48E-09	1.23E-05	
b. Avg. Conc. Released	uCi/ml	1.73E-12	3.50E-12	3.0E-9	<6E-09	7.0E-09	<2E-09	8.78E-13	
5. Volume of Liquid Waste	Liters	1.27E+06	1.61E+06	2.19E+06	1.75E+06	1.13E+06	1.74E+06	9.69E+06	
6. Volume of Dilution Water	Liters	2.52E+09	2.26E+09	3.30E+09	2.72E+09	1.34E+09	1.82E+09	1.40E+10	

# REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: LASALLE COUNTY NPS UNIT 1

DOCKET NOS.: 50-373

YEAR: 1982

11. Liquid Effluents (cont'd)	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6MO. TOTAL	TECH. SPEC. REF.
7. Isotopes Released	milli-curies	5.92E-02	1.22E-01	2.13E-01	5.86E+00	6.37E+00	4.25E+01	5.51E+01	
Cr-51	mCi	---	---	---	4.78E-01	4.30E-01	3.82E+00	4.73E+00	
Mn-54	mCi	---	---	1.73E-02	5.67E-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	<6.57E-02	<7.0E-03	<3.39E-03	5.22E-02	5.22E-02	
Sr-90	mCi	<5.24E-02	<7.27E-03	<8.76E-02	2.45E-02	3.39E-03	8.7E-02	1.15E-01	
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	---	---	---	---	---	---	---	
Ba-140 / La-140	mCi	---	---	---	---	---	---	---	
As-76	mCi	---	---	---	8.05E-01	7.52E-01	---	1.56E+00	
I-133	mCi	---	---	---	3.5E-03	---	---	3.5E-03	
Fe-55	mCi	5.92E-02	1.1E-01	< 1.10E+0	2.45E+00	<9.04E-1	8.87E+0	1.15E+01	
Na-24	mCi	---	---	1.43E-02	9.59E-01	4.82E+00	---	5.79E+00	
Xe-133	mCi	---	---	---	---	---	---	---	
Xe-133m	mCi	---	---	---	---	---	---	---	
Xe-135	mCi	---	---	---	---	---	---	---	
Tc-99m	mCi	---	---	---	2.55E-01	1.54E-01	---	4.09E-01	

## REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: LASALLE COUNTY NPS UNIT 1

DOCKET NOS.: 50-373

YEAR: 1982

III. Solid Waste Shipped Offsite  
For Burial or Disposal

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