



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

August 26, 1977

Docket No. 50-219-1135

Licensee

Gentlemen:

The NRC is presently preparing a summary of radioactive effluents released from commercial nuclear power plants during 1976. The report will be similar to NUREG-0218, "Radioactive Materials Released from Nuclear Power Plants (1975)".

In order to verify the accuracy of the information before its publication, a draft copy of the data with respect to your plant(s) is enclosed for your review. We would appreciate receiving your comments and suggested changes by September 16, 1977. If there are changes to the enclosure that result from other than our transcription error, we request that you file an amendment to your semi-annual reports which includes a reason for the change. Also, please provide answers to any questions attached to or on the enclosed data sheets, the name and telephone number of the individual we should contact in the event that we find it necessary to clarify your comments in answer to this request. Please provide a written response even if no changes to the data are required. Responses should be addressed to:

U. S. Nuclear Regulatory Commission  
Office of Management Information & Program Control  
Operating Data Branch, 12105 MNBB  
Washington, D. C. 20555

Any questions should be referred to T. R. Decker (301-492-7735). A copy of the final report will be sent to you.

Sincerely,

A handwritten signature in cursive script that reads "George Lear".

George Lear, Chief  
Operating Reactors Branch #3  
Division of Operating Reactors

Enclosure:  
Draft Copy of Data

cc w/enclosure:  
See next page

Jersey Central Power & Light Company - 2 -

cc: G. F. Trowbridge, Esquire  
Shaw, Pittman, Potts and Trowbridge  
Barr Building  
910 17th Street, N. W.  
Washington, D. C. 20006

Jersey Central Power & Light Company  
ATTN: Mr. Thomas M. Crimmins, Jr.  
Safety and Licensing Manager  
GPU Service Corporation  
260 Cherry Hill Road  
Parsippany, New Jersey 07054

Anthony Z. Roisman, Esquire  
Roisman, Kessler and Cashdan  
1025 15th Street, N. W.  
5th Floor  
Washington, D. C. 20005

Steven P. Russo, Esquire  
248 Washington Street  
P. O. Box 1060  
Toms River, New Jersey 08753

Ocean County Library  
Brick Township Branch  
401 Chambers Bridge Road  
Brick Town, New Jersey 08723

Joseph W. Ferraro, Jr., Esquire  
Deputy Attorney General  
State of New Jersey  
Department of Law and Public Safety  
1100 Raymond Boulevard  
Newark, New Jersey 07012

FACILITY: OYSTER CREEK  
 TYPE: BWR  
 LOCATION: 9 MI S TOMS RIVER NJ  
 COOLING WATER SOURCE: BARNEGAT BAY

DOCKET NO: 50-219  
 LICENSED POWER (MWT): 1930.0 0.0 0.0  
 INITIAL CRITICALITY: 05/03/69

OPERATION

GROSS THERMAL GENERATION	11797821.0	MWHT
NET ELECTRICAL	3860347.0	MWHE
THERMAL CAPACITY FACTOR (DURING COMMERCIAL OPERATION)	69.6	PER CENT

SUMMARY OF EFFLUENTS

AIRBORNE

A) TOTAL NOBLE GASES	<1.67E+05	CURIES
B) TOTAL I-131	6.17E+00	CURIES
C) TOTAL HALOGENS (INCLUDING I-131)	4.64E+01	CURIES
D) TOTAL PARTICULATES	<2.20E-01	CURIES
E) TOTAL TRITIUM	1.11E+00	CURIES

LIQUID

A) TOTAL MIXED FISSION AND ACTIVATION PRODUCTS	<2.21E-01	CURIES
B) TOTAL TRITIUM	3.86E+01	CURIES
C) DISSOLVED NOBLE GASES	4.64E-02	CURIES
D) VOLUME OF LIQUID WASTE RELEASED	3.11E+06	LITERS
E) VOLUME OF DILUTION WATER	1.60E+12	LITERS

SOLID WASTE

A) VOLUME	1.20E+03	CUBIC METERS
B) ACTIVITY	1.29E+03	CURIES
C) NUMBER OF SHIPMENTS	1.46E+02	

*\* IF SUMMARY  
 VALUES ARE  
 DIFFERENT THAN  
 THE SUM OF  
 ISOTOPES PLEASE  
 EXPLAIN DISCREPANCY.*

**AIRBORNE EFFLUENTS (CURIES)**

---

**NOBLE GAS**

KR-85M	7.71E+03
KR-87	2.49E+04
KR-88	2.17E+04
KR-89	<1.00E+01
XE-133	8.80E+03
XE-133M	7.90E+01
XE-135	4.75E+04
XE-135M	1.53E+04
XE-137	<4.00E+01
XE-138	4.07E+04

**HALOGENS**

I-131	6.17E+00
I-133	2.05E+01
I-135	1.98E+01

**PARTICULATES**

CR-51	3.00E-04
MN-54	1.44E-02
FE-59	1.10E-03
CO-58	8.40E-03
CO-60	2.80E-02
SR-89	4.31E-02
SR-90	<1.20E-03
SR-91	7.57E-01
ZR-95	ND
NH-95	2.00E-04
MO-99	6.15E-02
TC-99M	6.15E-02
I-131	3.71E-02
I-133	3.80E-01
CS-134	<2.50E-03
I-135	7.41E-01
CS-137	3.47E-02
CF-141	<7.00E-04
CE-144	2.00E-03
BA-140	3.72E-02
LA-140	4.93E-02
BA/LA-140	9.10E-03
NP-239	4.70E-03
SM-113	3.00E-04

**TRITIUM**

H-3	1.11E+00
-----	----------

LIQUID EFFLUENTS (CURIES)

KR-85	ND
KR-85M	ND
KR-88	ND
XE-133	1.17E-02
XE-135	3.47E-02
I-131	9.00E-04
I-132	ND
I-133	1.10E-03
I-134	ND
I-135	3.10E-03
CR-51	1.13E-02
MN-54	1.15E-02
CO-58	<7.00E-04
FE-59	4.00E-04
CO-60	5.36E-02
ZN-65	7.00E-04
SR-89	<1.20E-03
SR-90	<8.00E-04
SR-91	ND
Y-91M	ND
SR-92	Nil
ZR-95	<1.00E-04
ND-95	<7.00E-04
MO-99	2.00E-04
TC-99M	2.00E-04
CS-134	1.67E-02
CS-137	4.32E-02
CS-138	ND
BA-140	<2.94E-02
LA-140	<4.23E-02
CE-141	<1.90E-03
CE-144	1.90E-03
NP-239	2.00E-04

TRITIUM

H-3	3.86E+01
-----	----------

**END**

**DATE FILMED**

**1 / 25 / 78**