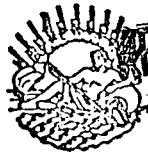


POWER A. URITY OF THE STATE OF W YORK

INDIAN POINT NO. 3 NUCLEAR POWER PLANT

P. O. BOX 215 BUCHANAN, N. Y. 10511

TELEPHONE: 914-739-8200



REGULATORY DOCKET FILE COPY

April 6, 1978
IP-JWK-1548

Re: Docket No. 50-286

1978 MAY 8 PM 12 44
RECEIVED DISTRIBUTION SERVICES UNIT
U.S. NRC
DISTRIBUTION SERVICES
BRANCH

Mr. Boyce Grier, Director
Office of Inspection and Enforcement
Region 1
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Mr. Grier:

In accordance with the reporting requirements of the Environmental Technical Specifications (ETS) of Facility Operating License No. DPR-64, the following is submitted in accordance with the requirements of Appendix B, Section 2.4.2. (f).

On March 28, 1978, at approximately 2000 hours, an unplanned release of 15.3 curies of noble gas occurred during plant operation. The total activity released was within the limits specified in the ETS.

An investigation disclosed the release was caused by a leak in the bonnet joint of the inlet valve to No. 31 Mixed Bed Demineralizer (V-346) and a leak in the No. 31 Residual Heat Removal (RHR) Pump seal gasket.

Upon observation of the leaks, No. 31 RHR Pump was isolated. Valve V-346 was repaired immediately and subsequent repairs to No. 31 RHR Pump have been completed. These corrective actions should prevent recurrence of this event.

A License Event Report for the inoperability of No. 31 RHR Pump will be submitted as a thirty day reportable occurrence. This letter constitutes the ten day written notification required by the Technical Specifications.

Very truly yours,

J. P. Bayne
Resident Manager

JWK/rbb

cc: Director of Nuclear Reactor Regulation
Attn: Mr. William McDonald, Director (2 copies)
Office of Management Information and Program Control
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

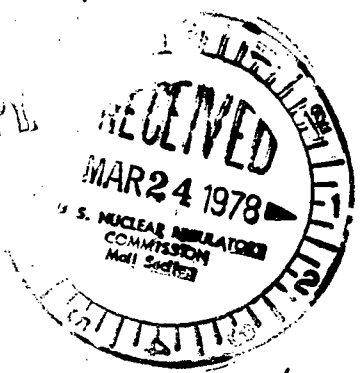
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REGULATORY DOCKET FILE COPY



Consolidated Edison Company of New York, Inc.
4 Irving Place, New York, N Y 10003

50-31-~~57~~
247
286

Indian Point Station
March 15, 1978
File No. 4-879a-

Mr. Peter A. A. Berle, Commissioner
New York State Department of
Environmental Conservation
Albany, New York 12201

Dear Mr. Berle:

Attached is the data specified in Section 401 Certification for
the month of February, 1978.

Very truly yours,

CONSOLIDATED EDISON COMPANY
OF NEW YORK, INC.

Eugene R. McGrath

Eugene R. McGrath, Manager
Nuclear Power Generation Dept.
Indian Point Station
Buchanan, New York 10511

Attach.
AF/daf

- cc/ Mr. Richard Baker (IP-2-NY 0004473 & IP-3-NY 0027605)
- Mr. Harvey Lunenfeld
- ~~Mr. Edson G. Case~~
- Mr. Boyce H. Grier
- Mr. John Blake

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ES
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780830106

SPECIES CODE LIST

01	Alewife	51	Clupeid Larvae
02	Bay Anchovy	52	Morone Larvae
03	American Shad	53	Grass Pickerel
04	Bluefish	54	Sea Horse
05	Bluegill	55	Logperch
06	Brown Bullhead	56	Trout Perch
07	Pumpkinseed	57	Northern Hogsucker
08	Black Crappie	58	Fathead Minnow
09	Carp	59	Cyprinid, Unidentified
10	American Eel	60	Morone (Unidentified)
11	Goldfish	61	Redfin Pickerel
12	Golden Shiner	62	Tautog
13	Hogchocker	63	Four Bearded Rockling
14	Tessellated Darter	64	Striped Cuskeel
15	Banded Killifish	65	Centrarchidae Larvae
16	Emerald Shiner (<u>Notropis antheroides</u>)	66	King Fish
17	Largemouth Bass	67	Spot
18	Mummichog	68	Moonfish
19	Atlantic Menhaden	69	Brook Stickleback
20	Minnow Unidentified	70	Sturgeon Unidentified
21	Chain Pickerel	71	Northern Porgy
22	Blueback Herring	72	Winter Flounder
23	White Sucker	73	Tidewater Silverside
24	Atlantic Silverside	74	Sea Lamprey
25	Rainbow Smelt	75	Gizzard Shad
26	Smallmouth Bass	76	Silver Hake
27	Shortnose Sturgeon	77	Striped Mullet
28	Spottail Shiner (<u>Notropis hudsonius</u>)	78	Threespine Stickleback
29	Atlantic Sturgeon	79	Brown Trout
30	Striped Bass	80	Butterfish
31	Fourspine Stickleback	81	White Crappie
32	Atlantic Tomcod	82	Brook Trout
33	Unidentified at time of capture	83	Northern Pike
34	White Catfish	84	Green Sunfish
35	White Perch	85	Silver Perch
36	Yellow Perch	86	Northern Puffer
37	Satinfin Shiner (<u>Notropis analostanus</u>)	87	Blacknose Dace
38	Rock Bass	88	Bridle Shiner (<i>N. bifrenatus</i>)
39	Northern Pipefish	89	Cyprinidae I
40	Redbreast Sunfish	90	Cutlips Minnow
41	Atlantic Needlefish (Silver Gar)	91	Yearling Striped Bass
42	Crevalle Jack	92	Yearling Blueback Herring
43	Silvery Minnow	93	Yearling American Shad
44	Fallfish	94	Yearling Alewife
45	Weakfish	95	Yearling White Perch
46	Comely Shiner (<i>N. amoenus</i>)	96	Centrarchid Unidentified
47	Common Shiner (<i>N. cornutus</i>)	97	Spotfin Shiner
48	Mimic Shiner (<i>N. volcellus</i>)	98	Squirrel Hake, Red Hake (<i>U. chus</i>)
49	Lookdown	99	Others
50	Clupeid Unidentified		

FEBRUARY 1978

INDIAN POINT STATION

DAILY FISH COUNTS FROM INTAKE SCREENS
UNIT NO. 2

<u>DATE*</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>28</u>	<u>30</u>	<u>32</u>	<u>35</u>	<u>34</u>	<u>36</u>	<u>78</u>	<u>81</u>	<u>96</u>	<u>TOTAL NUMBER</u>	<u>TOTAL WT(LBS)</u>
1		1				3	2			11	8	16	8	241	6					296	62.1
2			2			1		1		3	4	9	6	153	3	1				179	34.0
3			4	1			1		6		4	26	10	89	5		1			147	34.5
4		1	1		1			1		4	3	14	7	91	4	1				128	27.2
5			1		1	1				3	3	12	11	152	9	2	1		1	197	29.3
6	1	1	1		1	2				2	3	23	6	274	15					329	29.5
7			4		1					4	4	23	6	494	7	1		1		545	44.6
8		1	1	1	2	1		1		4	12	23	6	241	7					300	28.2
9			1			1	1			17	10	38	10	1655	9	1	2			1745	69.9
10		2	1				1			9	4	43	3	3808	3		1			3875	117.5
11					1		1			10	3	35	6	2407	3	1	2			2469	142.7
12		1	2			1				16	3	24	12	1944	9		1			2013	197.8
13		3	3					1		10	6	19	6	1503	4	1	2			1558	196.7
14		1			3					4	4	6	4	490	5		2			519	47.2
15					1					2		3		162	3					171	23.9
16					2					3	2	7	4	259	1		1			279	9.7
17			1			1				3		4	1	131	4					145	9.2
18					2					1				19						22	1.6
TOTALS	1	11	22	2	15	11	6	4	6	106	69	325	106	14113	97	8	13	1	1	14917	1106

SEE ATTACHED SHEET FOR SPECIES IDENTIFICATION

* AFTER FEB. 18th, ALL CIRCULATORS SHUTDOWN

FEBRUARY 1978

INDIAN POINT STATION

DAILY FISH COUNTS FROM INTAKE SCREENS
UNIT NO. 3

DATE	01	05	06	07	08	10	11	12	13	15	25	28	30	32	35	34	36	75	78	99	TOTAL NUMBER	TOTAL WT(LBS)
1				1				1			2	1	5	6	62	3	1	1			83	7.4
2				1		2	1	1			1	3	5	1	65	8	1				89	8.4
3				4			1	1			4	1	11	1	77	7	1				108	8.4
4				1							1		3	2	28	8					43	2.0
5													2	1	9	1					13	2.2
6				1							2		1		13	2	1				20	2.4
7												1	2	1	17	7	1				28	1.6
8												1	2		22						25	1.0
9				2			1						16	1	279	6					305	6.2
10	NO COUNT - SCREENS NOT WASHED																					
11				6			1	1			16	8	78	5	4307	36			2		4460	122.4
12	1			3		1	1				7	4	21		1263	14			4		1319	57.7
13			1	1				1			5	3	17	1	897	5					932	52.7
14				6							8	4	18	5	1458	7	1		2		1509	58.8
15				2			3				16	2	24	3	2856	13			2		2921	72.0
16				3		1	3	1			11	5	25	1	2698	6	2		3		2759	56.9
17								1			13	1	18		1942	13					1988	39.8
18						1	1	2			96	9	120		23248	17			1	1	23496	281.4
19				3		1		1	1	1	60	5	98	1	4616	16					4803	66.8
20				1			3				60	7	36		1438	9			1		1555	29.3
21	2			2		1	2			1	74	6	25		542	6	1				664	20.0
22				1		1		1			86	7	43		563	11		1	2		716	24.6
23		1	1	2	1		5			2	45	17	61	1	853	11					1000	45.9
24	1			1	1		4				43	12	223		1166	11			1		1465	61.6
25	1	1					2			1	33	18	275	1	2095	11	1				2439	72.0
26			2	3	1		3				70	21	499	5	2870	20			2		3496	76.1
27	1		2	1			2	1		1	39	15	306	2	1928	26				1	2325	60.5
28				3			3				29	14	177		1604	16					1850	43.6
TOTALS	6	2	6	48	3	8	36	12	1	6	721	164	2111	38	56916	290	13	2	27	1	60411	1282

SEE ATTACHED SHEET FOR SPECIES IDENTIFICATION

CHEMICAL DISCHARGES

Feb. 19 78

	DATE Feb. 1st		DATE Feb. 8		DATE Feb. 15		DATE Feb. 22	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
pH	7.2	7.3	7.4	7.5	7.6	7.5	7.7	7.6
CHROMIUM mg/l	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
BORON mg/l (2)	0.05	0.04	0.01	<.01	<.01	<.01	0.15	0.15
PHOSPHATE mg/l	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
HYDRAZINE mg/l	<.005	<.005	<.005	<.005	<.005	<.005	0.013	0.013
CYCLOHEXYLAMINE mg/l (1)								
LITHIUM HYDROXIDE mg/l (2)								
CHLORINE mg/l (3)								
TOTAL SUSPENDED SOLIDS mg/l	36	24	< 20	< 20	< 20	< 20	< 20	< 20
DISSOLVED OXYGEN mg/l	14.1	10.2	14.0	11.0	14.2	12.0	13.8	14.3

- NOTES: (1) Cyclohexylamine not used at this time.
 (2) Boron and LiOH results are attached.
 (3) No chlorinations performed during February.

CHEMICAL DISCHARGES

Feb., 19 78

DATE	ppm Boron	ppm LiOH	DATE	ppm Boron	ppm LiOH
1	.01	1×10^{-4}	16	.01	1×10^{-4}
2	.01		17	.01	
3	.01		18	.01	
4	.01		19	.01	
5	.01		20	.01	
6	.01		21	.01	
7	.01		22	.01	
8	.01		23	.02	
9	.01		24	.03	
10	.01		25	.03	
11	.01		26	.04	
12	.01		27	.04	
13	.01		28	.04	
14	.01				
15	.01				

NOTES: (1) The Boron and LiOH concentrations were calculated by the following formula:

$$\text{Diluted ppm} = \frac{(\text{ppm of tank}) (\text{ppm, Disch. Rate})}{(\text{Actual circulator flow})}$$

February, 1978

Site Thermal Discharges

DATE	Inlet			Outlet		
	MIN.	MAX.	AVG.	MIN.	MAX.	AVG.
1	32.8	36.5	34.8	60.5	62.0	61.6
2	32.9	37.2	34.3	50.0	62.0	57.6
3	32.9	36.1	34.4	45.0	62.0	51.9
4	32.0	36.5	33.8	46.0	59.0	51.4
5	32.0	35.9	33.6	47.0	58.0	51.2
6	33.0	36.0	34.2	47.0	60.0	53.1
7	32.9	38.0	34.9	51.0	61.0	57.0
8	32.9	36.7	35.0	43.0	58.8	50.1
9	32.9	36.2	34.5	43.0	53.0	46.3
10	33.0	35.5	34.5	40.0	54.0	47.5
11	33.0	36.6	34.5	52.0	55.0	53.5
12	33.0	37.0	34.6	46.0	55.0	52.8
13	32.0	33.0	32.7	41.0	46.0	43.2
14	32.2	33.5	32.7	43.0	50.0	46.4
15	32.5	34.0	33.0	48.0	53.0	51.0
16	32.5	34.1	33.1	51.2	54.8	52.5
17	32.5	34.2	33.2	52.0	59.0	54.1
18	32.8	35.0	33.2	57.0	60.5	57.7
19	32.2	34.2	32.9	56.8	61.8	57.6
20	32.0	35.0	32.6	57.0	61.2	57.9
21	32.0	34.0	32.5	56.8	60.3	57.7
22	32.0	34.2	32.5	57.0	61.0	57.6
23	32.1	34.2	32.8	57.0	61.0	58.1
24	32.3	35.0	33.3	57.0	60.1	57.6
25	32.8	35.0	33.4	57.0	60.2	58.0
26	32.5	35.0	33.4	57.0	60.0	58.1
27	32.5	35.0	33.3	57.0	60.0	58.0
28	32.5	35.0	33.6	57.0	60.0	57.9

February, 1978

Unit No. 2 Electrical Output

Date	Kilowatts			Gross
	Minimum *	Maximum *	Avg.**	Kilowatt Hrs.
1	820,000	840,000	832,500	19,980,000
2	825,000	840,000	827,083	19,850,000
3	700,000	830,000	787,917	18,910,000
4	760,000	840,000	815,000	19,560,000
5	825,000	830,000	815,833	19,580,000
6	825,000	830,000	817,083	19,610,000
7	825,000	830,000	819,583	19,670,000
8	825,000	840,000	820,417	19,690,000
9	830,000	840,000	829,583	19,910,000
10	390,000	830,000	732,917	17,590,000
11	820,000	830,000	810,417	19,450,000
12	160,000	820,000	758,750	18,210,000
13	0	100,000	1,667	40,000
14	0	0	0	0
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	0	0	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
24	0	0	0	0
25	0	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0

*Operating gage reading.

**More accurate watt hour meter reading.

February, 1978

Unit No. 3 Electrical Output

Date	Kilowatts			Gross
	Minimum *	Maximum *	Avg.**	Kilowatt Hrs.
1	910,000	910,000	916,250	21,990,000
2	130,000	910,000	562,500	13,500,000
3	0	130,000	28,333	680,000
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
10	0	420,000	166,250	3,990,000
11	430,000	430,000	437,917	10,510,000
12	430,000	540,000	457,500	10,980,000
13	540,000	580,000	563,333	13,520,000
14	580,000	910,00	723,750	17,370,000
15	910,000	910,000	908,750	21,810,000
16	910,000	910,000	916,250	21,990,000
17	910,000	910,000	916,250	21,990,000
18	910,000	910,000	915,833	21,980,000
19	910,000	910,000	915,000	21,960,000
20	910,000	910,000	912,500	21,900,000
21	910,000	910,000	917,500	22,020,000
22	910,000	910,000	910,417	21,850,000
23	910,000	910,000	911,250	21,870,000
24	910,000	910,000	910,833	21,860,000
25	910,000	910,000	911,250	21,870,000
26	910,000	910,000	908,333	21,800,000
27	910,000	910,000	910,417	21,850,000
28	910,000	910,000	912,500	21,900,000

*Operating gage reading.

**More accurate watt hour meter reading.

February, 1978

Unit 1 River Water Discharge

DATE	Circulator 11			Circulator 12			AVG. TOTAL UNIT DISCH., GPM X10 ³
	ON	OFF	HRS. %FLOW	ON	OFF	HRS. %FLOW	
1	-		0			0	19.0
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27			0			0	19.0
28			0			0	19.0

February, 1978

Unit 2 River Water Discharge

DATE	Circulator 21			Circulator 22			AVG. TOTAL UNIT DISCH., GPM X10 ³
	ON	OFF	HRS.	ON	OFF	HRS.	
1			24			60	435.0
2							435.0
3							
4							
5							
6							440.0
7							
8							
9							
10							
11							
12			24				
13	1450	1450				24	344.2
14		0		0850		8:50	135.1
15						0	104.0
16							104.0
17							70.4
18							20.0
19							
20							
21							
22							
23							
24							
25							
26							
27			0			0	20.0
28			0			0	20.0
29							
30							
31							

February, 1978

Unit 3 River Water Discharge

DATE	Circulator 31			Circulator 32			AVG. TOTAL UNIT DISCH., GPM X 10 ³
	ON	OFF	HRS.	ON	OFF	HRS.	
1			24			24	524.0
2			24				524.0
3		1025	10:25				380.4
4			0				269.0
5			0			24	263.3
6			0	1345		13:45	230.9
7			0			0	183.0
8	0052		23:08			0	294.5
9			24	1411		9:49	474.4
10						24	524.0
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27			24			24	524.0
28			24			24	524.0
29							
30							
31							

