

William J. Cahill, Jr.
Vice President

Consolidated Edison Company of New York, Inc.
4 Irving Place, New York, N Y 10003
Telephone (212) 460-3819

February 10, 1977

Re: Indian Point Station
Unit Nos. 2 & 3
Docket Nos. 50-247
50-286

Director of Nuclear Reactor Regulation
Att: Dr. Ernst Volgenau, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555



Dear Dr. Volgenau

Enclosed you will find 10 copies of the monthly operating report relating to Indian Point Unit Nos. 2 and 3 for the month of January, 1977.

Very truly yours

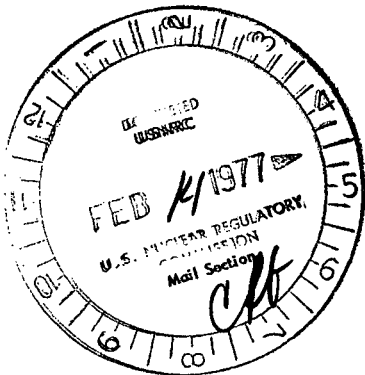
A handwritten signature in cursive script that reads "William J. Cahill, Jr.".

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Copy to: Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pa. 19406

Mr. William G. McDonald (2 copies)
Office of Management Information and
Program Control
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Regulatory Docket File



1559

UNIT NAME Indian Point Unit No. 2

DATE February 7, 1977

COMPLETED BY S. D. Julias

Performance General Supervisor Tele. #914-694-6000

OPERATING STATUS

Ext. 231 @ I.P.

- 1. REPORTING PERIOD: 770101 THROUGH 770131
GROSS HOURS IN REPORTING PERIOD: 744
- 2. CURRENTLY AUTHORIZED POWER LEVEL Mwt 2758 MWe-NET 864*
- 3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): None MWe-NET
- 4. REASONS FOR RESTRICTIONS (IF ANY):

	THIS MONTH	YR-TO-DATE	CUMULATIVE TO DATE **
5. HOURS REACTOR WAS CRITICAL	<u>682.68</u>	<u>682.68</u>	<u>14321.32</u>
6. REACTOR RESERVE SHUTDOWN HOURS (5)	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON-LINE	<u>675.52</u>	<u>675.52</u>	<u>13767.85</u>
8. UNIT RESERVE SHUTDOWN HOURS (6)	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL POWER GENERATED (MWH)	<u>1805742</u>	<u>1805742</u>	<u>34140039</u>
10. GROSS ELECTRICAL POWER GENERATED (MWH)	<u>549570</u>	<u>549570</u>	<u>10620386</u>
11. NET ELECTRICAL POWER GENERATED (MWH)	<u>526510</u>	<u>526510</u>	<u>10107068</u>
12. REACTOR AVAILABILITY FACTOR (1)	<u>91.8</u>	<u>91.8</u>	<u>63.1</u>
13. PLANT AVAILABILITY FACTOR (2)	<u>90.8</u>	<u>90.8</u>	<u>60.6</u>
14. PLANT CAPACITY FACTOR (3)	<u>81.9</u>	<u>81.9</u>	<u>51.5</u>
15. FORCED OUTAGE RATE (4)	<u>0.17</u>	<u>0.17</u>	<u>7.67</u>

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE AND DURATION OF EACH): Steam Generator Inspection Outage (5 weeks) in April, 1977

17. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: -

18. PLANTS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:

	DATE LAST FORECAST	DATE ACHIEVED	REASON FOR DIFFERENCE
INITIAL CRITICALITY	<u> </u>	<u> </u>	<u> </u>
INITIAL ELECTRICAL POWER GENERATION	<u> </u>	<u>N/A</u>	<u> </u>
COMMERCIAL OPERATION	<u> </u>	<u> </u>	<u> </u>

- (1) REACTOR AVAILABILITY FACTOR = $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{GROSS HOURS IN REPORTING PERIOD}} \times 100$
- (2) PLANT AVAILABILITY FACTOR = $\frac{\text{HOURS GENERATOR ON-LINE}}{\text{GROSS HOURS IN REPORTING PERIOD}} \times 100$
- (3) PLANT CAPACITY FACTOR = $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{CURRENTLY LICENSED POWER LEVEL} \times \text{GROSS HOURS IN REPORTING PERIOD}} \times 100$
- (4) FORCED OUTAGE RATE = $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON-LINE} + \text{FORCED OUTAGE HOURS}} \times 100$
- (5) REACTOR RESERVE SHUTDOWN HOURS = THE DURATION IN HOURS THAT THE REACTOR WAS REMOVED FROM SERVICE FOR ADMINISTRATIVE OR OTHER REASONS BUT WAS AVAILABLE FOR OPERATION.
- (6) UNIT RESERVE SHUTDOWN HOURS = THE DURATION IN HOURS THAT THE UNIT WAS REMOVED FROM SERVICE FOR ECONOMIC OR SIMILAR REASONS, BUT WAS AVAILABLE FOR OPERATION.

* Maximum Dependable Capacity
 ** See March, 1975 Report

UNIT Indian Point Unit No. 2

DATE February 7, 1977

COMPLETED BY S. D. Julias
Performance General
Supervisor

Tele. #914-694-6000

Ext. 231 @ I.P.

DAILY PLANT POWER OUTPUT

MONTH January, 1977

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>770</u>	25	<u>779</u>
2	<u>774</u>	26	<u>716</u>
3	<u>785</u>	27	<u>401</u>
4	<u>760</u>	28	<u>0</u>
5	<u>768</u>	29	<u>0</u>
6	<u>778</u>	30	<u>373</u>
7	<u>786</u>	31	<u>814</u>
8	<u>791</u>		
9	<u>778</u>		
10	<u>795</u>		
11	<u>793</u>		
12	<u>794</u>		
13	<u>778</u>		
14	<u>800</u>		
15	<u>791</u>		
16	<u>791</u>		
17	<u>785</u>		
18	<u>779</u>		
19	<u>776</u>		
20	<u>760</u>		
21	<u>777</u>		
22	<u>811</u>		
23	<u>832</u>		
24	<u>826</u>		



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UNIT SHUTDOWNS AND POWER REDUCTIONS

UNIT NAME Indian Point Unit

No. 2

DATE February 7, 1977COMPLETED BY S. D. JuliasREPORT MONTH January, 1977TELEPHONE #914-694-6000

Ext. 231 @ I.P.

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON(1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER(2)	CORRECTIVE ACTIONS/COMMENTS
139	1-27-77	*F	68.48	A: No. 22 Loop MSIV Closure	3	One of the two series-solenoid valves in the air supply to the MSIV inadvertently closed resulting in closure of the MSIV. No cause for solenoid trip identified. * After trip, decision was made to keep Unit down for scheduled maintenance outage which had been scheduled for 1-28-77. Therefore, of total duration 1 Hr. 10 Min. is attributed to forced outage, 67 Hrs. 19 Min. is attributed to maintenance outage.

SUMMARY:

On 1-25-77, electrical output reduced to approximately 760 MWe due to environmental regulatory restrictions (high fish collections).

(1) REASON

A: EQUIPMENT FAILURE (EXPLAIN)
 B: MAINT. OR TEST
 C: REFUELING
 D: REGULATORY RESTRICTION
 E: OPERATOR TRAINING AND
 LICENSE EXAMINATION
 F: ADMINISTRATIVE
 G: OPERATIONAL ERROR (EXPLAIN)
 H: OTHER (EXPLAIN)

(2) METHOD

1: MANUAL
 2: MANUAL SCRAM
 3: AUTOMATIC SCRAM
 4: OTHER (EXPLAIN)

UNIT NAME Indian Point Unit No. 3

DATE February 7, 1977

COMPLETED BY S. D. Julias

Performance General Supervisor Tele. #914-694-6000

OPERATING STATUS

Ext. 231 @ I.P.

1. REPORTING PERIOD: 770101 THROUGH 770131
GROSS HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL Mwt 2760* MWe-NET 873
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): None MWe-NET
4. REASONS FOR RESTRICTIONS (IF ANY):

	THIS MONTH	YR-TO-DATE	CUMULATIVE TO DATE **
5. HOURS REACTOR WAS CRITICAL	<u>474.9</u>	<u>474.9</u>	<u>2819.78</u>
6. REACTOR RESERVE SHUTDOWN HOURS (5)	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON-LINE	<u>457.88</u>	<u>457.88</u>	<u>2738.89</u>
8. UNIT RESERVE SHUTDOWN HOURS (6)	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL POWER GENERATED (MWH)	<u>1158756</u>	<u>1158756</u>	<u>7031538</u>
10. GROSS ELECTRICAL POWER GENERATED (MWH)	<u>381810</u>	<u>381810</u>	<u>2334820</u>
11. NET ELECTRICAL POWER GENERATED (MWH)	<u>363560</u>	<u>363560</u>	<u>2236507</u>
12. REACTOR AVAILABILITY FACTOR (1)	<u>63.8</u>	<u>63.8</u>	<u>75.8</u>
13. PLANT AVAILABILITY FACTOR (2)	<u>61.5</u>	<u>61.5</u>	<u>73.6</u>
14. PLANT CAPACITY FACTOR (3)	<u>56.0</u>	<u>56.0</u>	<u>68.8</u>
15. FORCED OUTAGE RATE (4)	<u>38.5</u>	<u>38.5</u>	<u>11.3</u>

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE AND DURATION OF EACH): NONE

17. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: -

18. PLANTS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:

	DATE LAST FORECAST	DATE ACHIEVED	REASON FOR DIFFERENCE
INITIAL CRITICALITY	<u> </u>	<u> </u>	<u> </u>
INITIAL ELECTRICAL POWER GENERATION	<u> </u>	<u>N/A</u>	<u> </u>
COMMERCIAL OPERATION	<u> </u>	<u> </u>	<u> </u>

- (1) REACTOR AVAILABILITY FACTOR = $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{GROSS HOURS IN REPORTING PERIOD}} \times 100$
- (2) PLANT AVAILABILITY FACTOR = $\frac{\text{HOURS GENERATOR ON-LINE}}{\text{GROSS HOURS IN REPORTING PERIOD}} \times 100$
- (3) PLANT CAPACITY FACTOR = $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{CURRENTLY LICENSED POWER LEVEL} \times \text{GROSS HOURS IN REPORTING PERIOD}} \times 100$
- (4) FORCED OUTAGE RATE = $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON-LINE} + \text{FORCED OUTAGE HOURS}} \times 100$
- (5) REACTOR RESERVE SHUTDOWN HOURS = THE DURATION IN HOURS THAT THE REACTOR WAS REMOVED FROM SERVICE FOR ADMINISTRATIVE OR OTHER REASONS BUT WAS AVAILABLE FOR OPERATION.
- (6) UNIT RESERVE SHUTDOWN HOURS = THE DURATION IN HOURS THAT THE UNIT WAS REMOVED FROM SERVICE FOR ECONOMIC OR SIMILAR REASONS, BUT WAS AVAILABLE FOR OPERATION.

* Operation at reactor core power levels not in excess of 3025 MWT authorized for startup testing program.
 ** Data from start of commercial operation.

UNIT Indian Point Unit No. 3

DATE February 7, 1977

COMPLETED BY S. D. Julias
Performance General
Supervisor

Tele. #914-694-6000

Ext. 231 @ I.P.

DAILY PLANT POWER OUTPUT

MONTH January, 1977

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>877</u>	25	<u>0</u>
2	<u>883</u>	26	<u>78</u>
3	<u>933</u>	27	<u>820</u>
4	<u>606</u>	28	<u>778</u>
5	<u>904</u>	29	<u>876</u>
6	<u>789</u>	30	<u>873</u>
7	<u>779</u>	31	<u>848</u>
8	<u>791</u>		
9	<u>864</u>		
10	<u>758</u>		
11	<u>716</u>		
12	<u>245</u>		
13	<u>611</u>		
14	<u>806</u>		
15	<u>411</u>		
16	<u>0</u>		
17	<u>0</u>		
18	<u>0</u>		
19	<u>0</u>		
20	<u>0</u>		
21	<u>0</u>		
22	<u>0</u>		
23	<u>0</u>		
24	<u>0</u>		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. _____

UNIT NAME Indian Point Unit
No. 3

DATE February 7, 1977

COMPLETED BY S. D. Julias

REPORT MONTH January, 1977

TELEPHONE #914-694-6000

Ext. 231 @ I.P.

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON(1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER(2)	CORRECTIVE ACTIONS/COMMENTS
47	1-4-77	F	4.80	A	3	Unit trip due to loss of flow spurious instrumentation trip.
48	1-10-77	F	3.48	A	3	Unit trip due to lo-level #34 S/G.
49	1-12-77	F	9.52	A	3	Unit trip due to spurious instrumentation trip - steam line ΔP.
50	1-12-77	F	2.09	A	3	Unit trip due to #31 S/G Hi-Level.
51	1-15-77	F	266.23	A	1	Unit taken off due to R.C.S. leak at packing gland of spray control valve PCV-455B. Valve gland repacked.

SUMMARY:

Load swing tests from 100% of licensed power completed on 1-10-77.

(1) REASON

- A: EQUIPMENT FAILURE (EXPLAIN)
- B: MAINT. OR TEST
- C: REFUELING
- D: REGULATORY RESTRICTION
- E: OPERATOR TRAINING AND LICENSE EXAMINATION
- F: ADMINISTRATIVE
- G: OPERATIONAL ERROR (EXPLAIN)

(2) METHOD

- 1: MANUAL
- 2: MANUAL SCRAM
- 3: AUTOMATIC SCRAM
- 4: OTHER (EXPLAIN)



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