

UNIT NAME Indian Point Unit No. 2

DATE October 6, 1977

COMPLETED BY Lawrence J. Kawula (Test & Performance Engineer)
Telephone No. (914)-694-6000 Ext. 209 at Indian Point
OPERATING STATUS

- 1. REPORTING PERIOD: 770901 THROUGH 770930
GROSS HOURS IN REPORTING PERIOD: 720
- 2. CURRENTLY AUTHORIZED POWER LEVEL MWe 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>718.82</u>	<u>4509.58</u>	<u>18148.22</u>
6. REACTOR RESERVE SHUTDOWN HOURS (5)	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>717.70</u>	<u>4428.59</u>	<u>17521.07</u>
8. UNIT RESERVE SHUTDOWN HOURS (6)	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL POWER GENERATED (MWH)	<u>1921495</u>	<u>11715934</u>	<u>44050231</u>
10. GROSS ELECTRICAL POWER GENERATED (MWH)	<u>599600</u>	<u>3648300</u>	<u>13719116</u>
11. NET ELECTRICAL POWER GENERATED (MWH)	<u>575751</u>	<u>3483027</u>	<u>13063585</u>
12. REACTOR AVAILABILITY FACTOR (1)	<u>99.8</u>	<u>68.8</u>	<u>63.7</u>
13. PLANT AVAILABILITY FACTOR (2)	<u>99.7</u>	<u>67.6</u>	<u>61.5</u>
14. PLANT CAPACITY FACTOR (3)	<u>92.6</u>	<u>61.5</u>	<u>53.0</u>
15. FORCED OUTAGE RATE (4)	<u>0.32</u>	<u>19.26</u>	<u>11.15</u>

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE AND DURATION OF EACH): Refueling outage scheduled for early, 1978.

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	_____	_____	_____
INITIAL ELECTRICAL POWER GENERATION	_____	<u>N.A.</u>	_____
COMMERCIAL OPERATION	_____	_____	_____

- (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.

811120043 771010
PDR ADOCK 05000247
R PDR

UNIT Indian Point Unit No. 2

DATE October 6, 1977

COMPLETED BY Lawrence J. Kawula
Test & Performance Engineer

DAILY PLANT POWER OUTPUT

MONTH September, 1977

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>824</u>	21	<u>833</u>
2	<u>820</u>	22	<u>829</u>
3	<u>813</u>	23	<u>827</u>
4	<u>817</u>	24	<u>819</u>
5	<u>804</u>	25	<u>819</u>
6	<u>811</u>	26	<u>640</u>
7	<u>823</u>	27	<u>508</u>
8	<u>817</u>	28	<u>664</u>
9	<u>819</u>	29	<u>807</u>
10	<u>817</u>	30	<u>822</u>
11	<u>817</u>	31	<u>-</u>
12	<u>833</u>		
13	<u>819</u>		
14	<u>828</u>		
15	<u>818</u>		
16	<u>839</u>		
17	<u>827</u>		
18	<u>819</u>		
19	<u>832</u>		
20	<u>827</u>		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-247
 Indian Point
 UNIT NAME Unit No. 2
 DATE October 6, 1977
 COMPLETED BY Lawrence J. Kawula
 TELEPHONE 914-694-6000
 Ext. 209 @ I.P.

REPORT MONTH September, 1977

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON(1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER(2)	CORRECTIVE ACTIONS/COMMENTS
159	9/26/77	F	2.30	H: Spurious reactor trip caused by disturbance on transmission distribution system.	3	

SUMMARY: First shipment of fuel received for Cycle 3.
 Reactor and plant availability factors for month were highest since initial criticality.

- (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 Ind Point Unit No. 3

DATE October 6, 1977

COMPLETED BY Lawrence J. Kawula (Test & Performance Engineer)

Telephone No. (914)-694-6000 Ext. 209 at Indian Point

OPERATING STATUS

- 1. REPORTING PERIOD: 770901 THROUGH 770930
GROSS HOURS IN REPORTING PERIOD: 720
- 2. CURRENTLY AUTHORIZED POWER LEVEL MWe 2760 MWe-NET 873
- 3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): 873 MWe-NET
- 4. REASONS FOR RESTRICTIONS (IF ANY):

License restriction (91% of rated power)

	THIS MONTH	YR-TO-DATE	CUMULATIVE TO DATE *
5. HOURS REACTOR WAS CRITICAL	<u>716.60</u>	<u>6105.51</u>	<u>8450.39</u>
6. REACTOR RESERVE SHUTDOWN HOURS (5)	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>712.77</u>	<u>6074.27</u>	<u>8355.28</u>
8. UNIT RESERVE SHUTDOWN HOURS (6)	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL POWER GENERATED (MWH)	<u>1897557</u>	<u>16196809</u>	<u>22069591</u>
10. GROSS ELECTRICAL POWER GENERATED (MWH)	<u>625150</u>	<u>5362810</u>	<u>7315820</u>
11. NET ELECTRICAL POWER GENERATED (MWH)	<u>601562</u>	<u>5158409</u>	<u>7031356</u>
12. REACTOR AVAILABILITY FACTOR (1)	<u>99.5</u>	<u>93.2</u>	<u>88.7</u>
13. PLANT AVAILABILITY FACTOR (2)	<u>99.0</u>	<u>92.7</u>	<u>87.7</u>
14. PLANT CAPACITY FACTOR (3)	<u>95.7</u>	<u>90.2</u>	<u>84.5</u>
15. FORCED OUTAGE RATE (4)	<u>1.00</u>	<u>5.04</u>	<u>4.39</u>
16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE AND DURATION OF EACH):	<u>October - Turbine Maintenance (8 weeks)</u>		

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	_____	_____	_____
INITIAL ELECTRICAL POWER GENERATION	_____	<u>N.A.</u>	_____
COMMERCIAL OPERATION	_____	_____	_____

- (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.

* Data from start of commercial operation.

UNIT Indian Point Unit No. 3

DATE October 6, 1977

COMPLETED BY Lawrence J. Kawula
Test & Performance Engineer

DAILY PLANT POWER OUTPUT

MONTH September, 1977

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>851</u>	21	<u>854</u>
2	<u>850</u>	22	<u>855</u>
3	<u>856</u>	23	<u>855</u>
4	<u>856</u>	24	<u>857</u>
5	<u>852</u>	25	<u>858</u>
6	<u>851</u>	26	<u>551</u>
7	<u>852</u>	27	<u>755</u>
8	<u>853</u>	28	<u>845</u>
9	<u>853</u>	29	<u>849</u>
10	<u>830</u>	30	<u>852</u>
11	<u>738</u>	31	<u>-</u>
12	<u>850</u>		
13	<u>842</u>		
14	<u>856</u>		
15	<u>858</u>		
16	<u>859</u>		
17	<u>858</u>		
18	<u>858</u>		
19	<u>856</u>		
20	<u>855</u>		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-286

UNIT NAME Indian Point
Unit No. 3

DATE October 6, 1977

COMPLETED BY Lawrence J. Kawula

REPORT MONTH September, 1977

TELEPHONE 914-694-6000
Ext. 209 @ 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
55	9/26/77	F	7.23	H: Spurious reactor trip caused by disturbance on transmission distribution system.	3	

SUMMARY: Preparations continuing for scheduled October turbine maintenance outage.

(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)