

UNIT NAME Indian Point Unit No. 2  
 DATE December 5, 1977  
 COMPLETED BY Lawrence J. Kawula (Test & Performance Engineer)  
Tele. 914-694-6000 Ext. 209 @ Indian Point  
 OPERATING STATUS

1. REPORTING PERIOD: 771101 THROUGH 771130  
 GROSS HOURS IN REPORTING PERIOD: 720  
 2. CURRENTLY AUTHORIZED POWER LEVEL MWT 2758 MWe-NET 864\*  
 3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): None MWe-NET  
 4. REASON FOR RESTRICTIONS (IF ANY):

	THIS MONTH	YR-TO-DATE	CUMULATIVE TO DATE **
5. HOURS REACTOR WAS CRITICAL . . . . .	<u>720</u>	<u>5971.66</u>	<u>19610.30</u>
6. REACTOR RESERVE SHUTDOWN HOURS (5) . . . . .	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE . . . . .	<u>720</u>	<u>5887.49</u>	<u>18979.97</u>
8. UNIT RESERVE SHUTDOWN HOURS (6) . . . . .	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL POWER GENERATED (MWH) . . .	<u>1973011</u>	<u>15588670</u>	<u>47922967</u>
10. GROSS ELECTRICAL POWER GENERATED (MWH) . . .	<u>597240</u>	<u>4832750</u>	<u>14903566</u>
11. NET ELECTRICAL POWER GENERATED (MWH) . . . . .	<u>573477</u>	<u>4619731</u>	<u>14200289</u>
12. REACTOR AVAILABILITY FACTOR (1) . . . . .	<u>100.0</u>	<u>74.5</u>	<u>65.4</u>
13. PLANT AVAILABILITY FACTOR (2) . . . . .	<u>100.0</u>	<u>73.4</u>	<u>63.3</u>
14. PLANT CAPACITY FACTOR (3) . . . . .	<u>92.0</u>	<u>66.7</u>	<u>54.8</u>
15. FORCED OUTAGE RATE (4) . . . . .	<u>0</u>	<u>15.29</u>	<u>10.41</u>

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE AND DURATION OF EACH): Refueling outage scheduled to commence February 1, 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

811120032 771208  
 PDR ADDOCK 05000247  
 R PDR

UNIT Indian Point Unit No. 2

DATE December 5, 1977

COMPLETED BY Lawrence J. Kawula  
Test & Performance Engineer

DAILY PLANT POWER OUTPUT

MONTH November, 1977

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>812</u>	21	<u>797</u>
2	<u>809</u>	22	<u>792</u>
3	<u>813</u>	23	<u>804</u>
4	<u>808</u>	24	<u>803</u>
5	<u>806</u>	25	<u>795</u>
6	<u>807</u>	26	<u>794</u>
7	<u>813</u>	27	<u>801</u>
8	<u>753</u>	28	<u>801</u>
9	<u>782</u>	29	<u>801</u>
10	<u>790</u>	30	<u>797</u>
11	<u>779</u>	31	<u>-</u>
12	<u>799</u>		
13	<u>795</u>		
14	<u>782</u>		
15	<u>798</u>		
16	<u>792</u>		
17	<u>792</u>		
18	<u>794</u>		
19	<u>793</u>		
20	<u>793</u>		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-247

UNIT NAME Indian Point  
Unit No. 2

DATE December 5, 1977

COMPLETED BY Lawrence J. Kawula

REPORT MONTH November, 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
				NONE		

SUMMARY: Reactor and plant availability factors of 100%, set a record high for any month 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 Indian Point Unit No. 3  
 DATE December 5, 1977  
 COMPLETED BY Lawrence J. Kawula (Test & Performance Engineer)  
Tele. 914-694-6000 Ext. 209 @ I.P.  
 OPERATING STATUS

1. REPORTING PERIOD: 771101 THROUGH 771130  
 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 . . . . .	0	6248.71	8593.59
6. REACTOR RESERVE SHUTDOWN HOURS (5) . . . . .	-	-	-
7. HOURS GENERATOR ON-LINE . . . . .	0	6217.47	8498.48
8. UNIT RESERVE SHUTDOWN HOURS (6) . . . . .	-	-	-
9. GROSS THERMAL POWER GENERATED (MWH) . . . . .	0	16568699	22441481
10. GROSS ELECTRICAL POWER GENERATED (MWH) . . . . .	0	5486310	7439320
11. NET ELECTRICAL POWER GENERATED (MWH) . . . . .	-2321	5269851	7142798
12. REACTOR AVAILABILITY FACTOR (1) . . . . .	0	78.0	78.2
13. PLANT AVAILABILITY FACTOR (2) . . . . .	0	77.6	77.3
14. PLANT CAPACITY FACTOR (3) . . . . .	0	75.3	74.4
15. FORCED OUTAGE RATE (4) . . . . .	0	4.93	4.32

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

17. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: 12-11-77

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 December 5, 1977

COMPLETED BY Lawrence J. Kawula  
Test & Performance Engineer

DAILY PLANT POWER OUTPUT

MONTH November, 1977

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>0</u>	21	<u>0</u>
2	<u>0</u>	22	<u>0</u>
3	<u>0</u>	23	<u>0</u>
4	<u>0</u>	24	<u>0</u>
5	<u>0</u>	25	<u>0</u>
6	<u>0</u>	26	<u>0</u>
7	<u>0</u>	27	<u>0</u>
8	<u>0</u>	28	<u>0</u>
9	<u>0</u>	29	<u>0</u>
10	<u>0</u>	30	<u>0</u>
11	<u>0</u>	31	<u>-</u>
12	<u>0</u>		
13	<u>0</u>		
14	<u>0</u>		
15	<u>0</u>		
16	<u>0</u>		
17	<u>0</u>		
18	<u>0</u>		
19	<u>0</u>		
20	<u>0</u>		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-286  
 UNIT NAME Indian Point  
Unit No. 3  
 DATE December 5, 1977  
 COMPLETED BY Lawrence J. Kawula  
 TELEPHONE 914-694-6000  
Ext. 209 @ I.P.

REPORT MONTH November, 1977

NO.	DATE	TYPE		DURATION (HOURS)	REASON(1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER(2)	CORRECTIVE ACTIONS/COMMENTS
		F: FORCED	S: SCHEDULED				
56	10/6/77		S	720	B	1	

SUMMARY:

Unit shutdown for entire month for 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)