

UNIT NAME Indian Point Unit No. 2  
 DATE January 6, 1978  
 COMPLETED BY Lawrence J. Kawula (Test & Performance Engineer)  
Telephone 914-694-6000 Ext. 209 at Indian Point  
 OPERATING STATUS

1. REPORTING PERIOD: 77 12 01 THROUGH 77 12 31  
 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 . . . . .	744	6715.66	20,354.30
6. REACTOR RESERVE SHUTDOWN HOURS (5) . . . . .	-	-	-
7. HOURS GENERATOR ON-LINE . . . . .	744	6631.49	19,723.97
8. UNIT RESERVE SHUTDOWN HOURS (6) . . . . .	-	-	-
9. GROSS THERMAL POWER GENERATED (MWH) . . . . .	2,028,928	17,617,598	49,951,895
10. GROSS ELECTRICAL POWER GENERATED (MWH) . . . . .	614,960	5,447,710	15,518,526
11. NET ELECTRICAL POWER GENERATED (MWH) . . . . .	590,568	5,210,299	14,790,857
12. REACTOR AVAILABILITY FACTOR (1) . . . . .	100	76.7	66.3
13. PLANT AVAILABILITY FACTOR (2) . . . . .	100	75.7	64.2
14. PLANT CAPACITY FACTOR (3) . . . . .	91.9	68.8	55.7
15. FORCED OUTAGE RATE (4) . . . . .	0	13.81	10.06

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE AND DURATION OF EACH): Refueling Outage scheduled to commence in February, 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	_____	N/A	_____
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.

811120026 780110  
 PDR ADCK 05000247  
 R PDR

UNIT Indian Point Unit No. 2

DATE January 6, 1978

COMPLETED BY Lawrence J. Kawula  
Test & Performance Engineer

DAILY PLANT POWER OUTPUT

MONTH December 1977

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>708</u>	21	<u>801</u>
2	<u>755</u>	22	<u>797</u>
3	<u>766</u>	23	<u>797</u>
4	<u>794</u>	24	<u>805</u>
5	<u>803</u>	25	<u>790</u>
6	<u>791</u>	26	<u>795</u>
7	<u>809</u>	27	<u>798</u>
8	<u>805</u>	28	<u>796</u>
9	<u>799</u>	29	<u>797</u>
10	<u>809</u>	30	<u>799</u>
11	<u>803</u>	31	<u>796</u>
12	<u>802</u>		
13	<u>798</u>		
14	<u>804</u>		
15	<u>799</u>		
16	<u>797</u>		
17	<u>798</u>		
18	<u>800</u>		
19	<u>798</u>		
20	<u>799</u>		

DOCKET NO. 50-247

UNIT NAME Indian Point Unit #2

DATE January 6, 1978

COMPLETED BY Lawrence J. Kawula

TELEPHONE 914-694-6000  
Ext. 209 at I.P.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December 1977

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER (2)	CORRECTIVE ACTIONS/COMMENT
NONE						

SUMMARY: Monthly gross and net electrical generation highest since start of commercial operation.

- (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 January 6, 1978  
 COMPLETED BY Lawrence J. Kawula (Test & Performance Engineer)  
Telephone 914-694-6000 Ext. 209 at Indian Point

OPERATING STATUS

1. REPORTING PERIOD: 77 12 01 THROUGH 77 12 31  
 GROSS HOURS IN REPORTING PERIOD: 744
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 . . . . .	388.02	6,636.73	8,981.61
6. REACTOR RESERVE SHUTDOWN HOURS (5) . . . . .	-	-	-
7. HOURS GENERATOR ON-LINE . . . . .	342.25	6,559.72	8,840.73
8. UNIT RESERVE SHUTDOWN HOURS (6) . . . . .	-	-	-
9. GROSS THERMAL POWER GENERATED (MWH) . . . . .	833,079	17,401,778	23,274,560
10. GROSS ELECTRICAL POWER GENERATED (MWH) . . . . .	264,320	5,750,630	7,703,640
11. NET ELECTRICAL POWER GENERATED (MWH) . . . . .	248,581	5,518,432	7,391,379
12. REACTOR AVAILABILITY FACTOR (1) . . . . .	52.2	75.8	76.5
13. PLANT AVAILABILITY FACTOR (2) . . . . .	46.0	74.9	75.3
14. PLANT CAPACITY FACTOR (3) . . . . .	38.3	72.2	72.1
15. FORCED OUTAGE RATE (4) . . . . .	2.00	4.78	4.23

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: \_\_\_\_\_

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

	DATE LAST FORECAST	DATE ACHIEVED	REASON FOR DIFFERENCE
INITIAL CRITICALITY	<del>_____</del>	<del>_____</del>	<del>_____</del>
INITIAL ELECTRICAL POWER GENERATION	_____	N/A	_____
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 January 6, 1978

COMPLETED BY Lawrence J. Kawula  
Test & Performance Engineer

DAILY PLANT POWER OUTPUT

MONTH December 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>826</u>
2	<u>0</u>	22	<u>617</u>
3	<u>0</u>	23	<u>836</u>
4	<u>0</u>	24	<u>867</u>
5	<u>0</u>	25	<u>870</u>
6	<u>0</u>	26	<u>862</u>
7	<u>0</u>	27	<u>861</u>
8	<u>0</u>	28	<u>864</u>
9	<u>0</u>	29	<u>866</u>
10	<u>0</u>	30	<u>873</u>
11	<u>0</u>	31	<u>889</u>
12	<u>0</u>		
13	<u>0</u>		
14	<u>0</u>		
15	<u>0</u>		
16	<u>0</u>		
17	<u>35</u>		
18	<u>243</u>		
19	<u>397</u>		
20	<u>620</u>		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December 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
56	10/06/77	S	391.98	B	1	
57	12/17/77	S	2.80	B	1	Testing turbine overspeed trip
58	12/18/77	F	6.97	A: Unit Trip due to spur- ious redund- ant overspeed trip signal.	3	
NA	12/22/77	NA	NA	A: Load Re- duction to approx. 250 MWe, due to inadvertant closure of two turbine stop valves.	NA	

SUMMARY: Unit returned to service on 12/17/77 following a 10 week outage for turbine maintenance.

- (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)