

UNIT NAME Indian Point Unit No. 2

DATE November 8, 1976

COMPLETED BY S. D. Julias

Performance General Supervisor Tele. #914-694-6000

OPERATING STATUS

Ext. 231 @ I.P.

- 1. REPORTING PERIOD: 761001 THROUGH 761031
GROSS HOURS IN REPORTING PERIOD: 745
- 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>692.25</u>	<u>2770.37</u>	<u>13161.72</u>
6. REACTOR RESERVE SHUTDOWN HOURS (5)	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON-LINE	<u>689.5</u>	<u>2611.33</u>	<u>12647.21***</u>
8. UNIT RESERVE SHUTDOWN HOURS (6)	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL POWER GENERATED (MWH)	<u>1690529</u>	<u>6643942</u>	<u>31375688</u>
10. GROSS ELECTRICAL POWER GENERATED (MWH)	<u>533310</u>	<u>2117996</u>	<u>9789586</u>
11. NET ELECTRICAL POWER GENERATED (MWH)	<u>510782</u>	<u>2008621</u>	<u>9321525</u>
12. REACTOR AVAILABILITY FACTOR (1)	<u>92.9</u>	<u>37.8</u>	<u>64.2</u>
13. PLANT AVAILABILITY FACTOR (2)	<u>92.6</u>	<u>35.7</u>	<u>61.7</u>
14. PLANT CAPACITY FACTOR (3)	<u>79.4</u>	<u>31.8</u>	<u>52.6</u>
15. FORCED OUTAGE RATE (4)	<u>0</u>	<u>5.93</u>	<u>8.08</u>

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE AND DURATION OF EACH): Unit shutdown at end of report period for scheduled maintenance outage.

17. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: 12/15/76

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

	DATE LAST FORECAST	DATE ACHIEVED	REASON FOR DIFFERPNCE
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
 *** Sept. 1976 data reduced by 1 hr.

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 PDR ADCK 05000247
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UNIT Indian Point Unit No. 2

DATE November 8, 1976

COMPLETED BY S. D. Julias
Performance General
Supervisor

Tele. #914-694-6000
Ext. 231 @ I.P.

DAILY PLANT POWER OUTPUT

MONTH October, 1976

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>235</u>	25	<u>854</u>
2	<u>530</u>	26	<u>848</u>
3	<u>514</u>	27	<u>846</u>
4	<u>539</u>	28	<u>836</u>
5	<u>536</u>	29	<u>694</u>
6	<u>536</u>	30	<u>0</u>
7	<u>560</u>	31	<u>0</u>
8	<u>693</u>		
9	<u>763</u>		
10	<u>754</u>		
11	<u>763</u>		
12	<u>825</u>		
13	<u>824</u>		
14	<u>826</u>		
15	<u>842</u>		
16	<u>846</u>		
17	<u>853</u>		
18	<u>826</u>		
19	<u>822</u>		
20	<u>842</u>		
21	<u>821</u>		
22	<u>828</u>		
23	<u>825</u>		
24	<u>824</u>		

A new on line record of 689 hours and 26 minutes was established during the month.

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DATE November 8, 1976

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Tele.#914-694-6000 Ext. 231 @ I.P.

REPORT MONTH October, 1976

PLANT SHUTDOWNS

DATE	TYPE OF SHUTDOWN	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	COMMENTS
128 9/30/76	S	3.75*	B	C	To check setting of turbine overspeed trip mechanism.
129 10/29/76	S	51.75**	B	A	Unit shutdown for <u>inspection of steam generators and miscellaneous maintenance work.</u>

* October only.

** October only, outage still in progress.

(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 (SEE PAGE)

(2) METHOD:

- A-...
- B-...
- C-...

UNIT NAME Indian Point Unit No. 3

DATE November 8, 1976

COMPLETED BY S. D. Julias

Performance General Supervisor Tele. #914-694-6000

OPERATING STATUS

Ext. 231 @ I.P.

- 1. REPORTING PERIOD: 761001 THROUGH 761031
GROSS HOURS IN REPORTING PERIOD: 745
- 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>684.5</u>	<u>968.0</u>	<u>968.0</u>
6. REACTOR RESERVE SHUTDOWN HOURS (5)	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON-LINE	<u>642.5</u>	<u>923.75</u>	<u>923.75</u>
8. UNIT RESERVE SHUTDOWN HOURS (6)	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL POWER GENERATED (MWH)	<u>1613060</u>	<u>2325783</u>	<u>2325783</u>
10. GROSS ELECTRICAL POWER GENERATED (MWH)	<u>531570</u>	<u>758080</u>	<u>758080</u>
11. NET ELECTRICAL POWER GENERATED (MWH)	<u>509024</u>	<u>723743</u>	<u>723743</u>
12. REACTOR AVAILABILITY FACTOR (1)	<u>91.9</u>	<u>64.0</u>	<u>64.0</u>
13. PLANT AVAILABILITY FACTOR (2)	<u>86.2</u>	<u>61.1</u>	<u>61.1</u>
14. PLANT CAPACITY FACTOR (3)	<u>78.3</u>	<u>54.8</u>	<u>54.8</u>
15. FORCED OUTAGE RATE (4)	<u>5.65</u>	<u>4.00</u>	<u>4.00</u>

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE AND DURATION OF EACH):

- 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>4/6/76</u>	<u>-</u>
INITIAL ELECTRICAL POWER GENERATION	<u>-</u>	<u>4/25/76</u>	<u>-</u>
COMMERCIAL OPERATION	<u>-</u>	<u>8/30/76</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 on 8/30/76 @ 001 hours.

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DATE November 8, 1976

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DAILY PLANT POWER OUTPUT

Ext. 231 @ I.P.

MONTH October, 1976

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>0</u>	25	<u>874</u>
2	<u>0</u>	26	<u>878</u>
3	<u>53</u>	27	<u>878</u>
4	<u>12</u>	28	<u>878</u>
5	<u>308</u>	29	<u>878</u>
6	<u>475</u>	30	<u>878</u>
7	<u>504</u>	31	<u>915</u>
8	<u>529</u>		
9	<u>809</u>		
10	<u>968</u>		
11	<u>971</u>		
12	<u>968</u>		
13	<u>958</u>		
14	<u>627</u>		
15	<u>694</u>		
16	<u>751</u>		
17	<u>968</u>		
18	<u>968</u>		
19	<u>934</u>		
20	<u>878</u>		
21	<u>462</u>		
22	<u>654</u>		
23	<u>768</u>		
24	<u>811</u>		

Unit operated satisfactorily with the exception of the outages noted below.

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REPORT MONTH October, 1976

PLANT SHUTDOWNS

NO.	DATE	TYPE OF SHUTDOWN	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	COMMENTS
37	9/10/76	S	60.5*	B	A	Unit tripped manually for maintenance outage.
38	10/3/76	F	1.50	A	C	Unit trip due to low-level #33 S/G
39	10/4/76	S	3.25	B	**	Overspeed trip test.
40	10/4/76	F	3.0	A	C	Unit trip Hi-Level #31 S/G
41	10/4/76	F	21.75	B	**	Outage to repair feedwater system.
42	10/21/76	F	12.25	A	C	Unit trip due to loss of Bus 2A.
NA	10/14/76	NA	NA	NA	NA	Load reduction due to loss of #31 heater drain pump.

* October only

** Rx. remained critical.

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

(2) METHOD:
 A- MANUAL
 B- MANUAL
 C- AUTOMATIC