	UNIT NAME	Inden Point Unit No. 2
•	DATE	November 7, 1977
	COMPLETED BY	Lawrence J. Kawula (Test & Performance Engineer) Telephone No. (914)-694-6000 Ext. 209 @ Indian Point
	OPERAT	ING STATUS
	1. REPORTIN	NG PERIOD: 771001 THROUGH 771031
	GROSS H	OURS IN REPORTING PERIOD: 745

	GROSS HOURS IN REPOR	TING PERIOD:	/45	
2.	CURRENTLY AUTHORIZED	POWER LEVEL MW	Nt 2758 MWe-NET	864*
3.	POWER LEVEL TO WHICH	RESTRICTED (IF	ANY): None	MWe-NET

REASONS FOR RESTRICTIONS (IF ANY): 4.

2

		THIS MONTH	YR-TO-DATE	CUMULATIVE **
5.	HOURS REACTOR WAS CRITICAL	742.08	5251.66	<u>18890.</u> 30
6.	REACTOR RESERVE SHUTDOWN HOURS (5)	<u></u>		
7.	HOURS GENERATOR ON-LINE	738.90	5167.49	18259.97
8.	UNIT RESERVE SHUTDOWN HOURS (6)	-	-	-
9	CROSS THERMAL POWER GENERATED (MWH) 1	899725	13615659	45949956
10	CROSS FLECTRICAL POWER GENERATED (MWH)	587210	4235510	14306326
10.	NET ELECTRICAL POWER GENERATED (NWH)	563227	4046254	13626812
12	REACTOR AVAILABILITY FACTOR (1)	99.6	72.0	64.6
12.	DIANT AVAILABILITY FACTOR (2)	99.2	70.8	62.4
1	NENT CADACTEV PACEOR (3)	87.5	64.2	53.9
14.	PLANE CAPACITE FACTOR $(2)$	0.82	17.05	10.78
12.	, FORCED OUTAGE EATE (47			

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 DATE REASON FOR FORFCAST ACHIEVED DIFFERENCE	
	INITIAL CRITICALITY	
	INITIAL ELECTRICAL N.A.	
	COMMERCIAL OPERATION	
(1)	REACTOR AVAILABILITY FACTOR = HOURS REACTOR WAS CRITICAL X100 GROSS HOURS IN REPORTING PERIOD	
(2)	PLANT AVAILABILITY FACTOR = HOURS GENERATOR ON-LINF X 100 GROSS HOURS IN REPORTING PERIOD	
(3)	PLANT CAPACITY FACTOR = NET ELECTRICAL POWER GENERATED CURRENTLY LICENSED POWER LEVEL X GROSS HOURS IN REPORTING PERIOD	X
(4)	FORCED OUTAGE RATE = FORCED OUTAGE HOURS (100	

100

FORCED OUTAGE RATE = FORCED OUTAGE HOURS HOURS GENERATOR ON-LINE + FORCED OUTAGE HOURS (4)

REACTOR RESERVE SHUTDOWN HOURS = THE DUPATION IN HOURS THAT THE REACTOR WAS REMOVED (5) 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 8111120038 771110 PDR ADUCK 05000247

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UNIT Indian Point Unit No. 2

DATE November 7, 1977

COMPLETED BY Lawrence J. Kawula Test & Performance Engineer

## DAILY PLANT POWER OUTPUT

MONTH October, 1977

DAY	AVERAGE DAILY MWe-net	DAY	AVERAGE DAILY MWe-net
1	818	21	821
2	809	22	801
3	812	23	823
4	819	24	819
5	810	25	807
6	. 816	26	811
7	826	27	795
8	818	28	639
9	778	29	512
10	806	30	811
11	577	31	814
12	536		
13	669		
14	799		
15	816		
16	813		
17	504		
18	542		
19	804		
20	809		

#### UNIT SHUTDOWNS AND POWER REDUCTIONS

UNIT NAME Unit No. 2 DATE November 7, 1977

50-247

Indian Point

COMPLETED BY Lawrence J. Kawula

DOCKET NO.

REPORT MONTH October, 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 RFACTOR OR REDUCING POWER(2)	CORRECTIVE ACTIONS/COMMENTS
160	10/11/77	F	2.78	A: Spurious trip, #21 RCP breaker open signal.	3	
161	10/17/77	F	3.32	A: Hi-vibra- tion #11 turbine bearing.	3	

SUMMARY:

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Capacity factor adversely affected by load reductions due to environmental considerations. (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)
- AND N THEFT A CHARTER AND A CAREFORNIA

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

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UNIT NAME	Ind	Point_Unit	: No. 3		i	
DATE	November	<u>r 7, 19</u> 77				
COMPLETED BY	Lawrence	<u>e J. Ka</u> wul	.a (Test	& Perfor	mance Engi	ineer)
OPERATI	Telephon ING STA	ne No. (91 TUS	.4)-694-6	5000 Ext.	209 @ I.H	?•
1. REPORTIN	NG PERIOD:	771001	THROUGH	771031		
GROSS HO	OURS IN REPOR	TING PERIOD:	745			

2. CURRENTLY AUTHORIZED POWER LEVEL MWL 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	YR-TO-DATE	CUMULATIVE * TO DATE
5.	HOURS REACTOR WAS CRITICAL	143.20	6248.71	8593.59
6.	REACTOR RESERVE SHUTDOWN HOURS (5)	•		<b></b>
7.	HOURS GENERATOR ON-LINE	.143.20	6217.47	8498.48
8.	UNIT RESERVE SHUTDOWN HOURS (6)	•		
9.	GROSS THERMAL POWER GENERATED (MWH)	.371890	16568699	22441481
10.	GROSS ELECTRICAL POWER GENERATED (MWH)	.123500	5486310	<u>    743932</u> 0
11.	NET ELECTRICAL POWER GENERATED (MWH)	.11 <u>3763</u>	<u>5272172</u>	<u>    714511</u> 9
12.	REACTOR AVAILABILITY FACTOR (1)	. 19.2	85.6	83.7
13.	PLANT AVAILABILITY FACTOR (2)	. 19.2	85.2	82.7
14.	PLANT CAPACITY FACTOR (3)	17.5	82.8	79,7
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): None

17.

IF	SHUTDOWN	λТ	END	OF	REPORT	PERIOD,	ESTIMATED	DATE	OF	STARTUP:	12-6-77
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18. PLANTS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:

		DATE LAST FORFCAST	DATE ACHIEVED	REASON FOR DIFFERENCE	
	INITIAL CRITICALITY	$\sim$			
	INITIAL ELECTRICAL POWER GENERATION		<u>N.A.</u>		
	COMMERCIAL OPERATION				
(1)	REACTOR AVAILABILITY FACTOR = HOURS REACT GROSS HOURS	TOR WAS CRITI 5 IN REPORTIN	CAL G PERIOD	x 100	
(2)	PLANT AVAILABILITY FACTOR = HOURS GENERAL GROSS HOURS 1	TOR ON-LINF	PERIOD	(100	
(3)	PLANT CAPACITY FACTOR = NET ELECTRICAL PO CURRENTLY LICENSI	OWER GENERATE	D L X GROSS HOUR	RS IN REPORTING PERIOD	× 100
(4)	FORCED OUTAGE RATE = FORCED OUTAGE HOURS HOURS GENERATOR ON-1	LINE + FORCED	OUTAGE HOURS	۲ 100	
(5)	REACTOR RESERVE SHUTDOWN HOURS = THE DURI FROM SFI BUT WAS	ATION IN HOUR RVICE FOR ADM AVAILABLE FO	S THAT THE RE. INISTRATIVE OF R OPERATION.	ACTOR WAS REMOVED R OTHER REASONS	
(6)	UNIT RESERVE SHUTDOWN HOURS = THE DURATIC SERVICE FOL AVAILABLE 1	ON IN HOURS T R ECONOMIC OR FOR OPERATION	HAT THE UNIT SIMILAR REAS	WAS REMOVED FROM ONS, BUT WAS	

\* Data from start of commercial operation.

	UNIT	Indian	Point	Unit	No.	- 3
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DATE November 7, 1977

COMPLETED BY Lawrence J. Kawula Test & Performance Engineer

### DAILY PLANT POWER OUTPUT

MONTH October, 1977

DAY	AVERAGE DAILY MWe-net	DAY	AVERAGE DAILY MWe-net
1	858	21	0
2	855	22	0
3	863	23	0
4	840	24	0
5	838	25	0
6	. 693	26	0
7	0	27	0
8	0	28	0
9	0	29	0
10	0	30	0
11	0	31	0
12	0		
13	0		
14	0		·
15	0		
16	0	<i>`</i>	
17	0		
18	0		
19	0		
20	0		

DOCKET NO 50-286 Indian Point UNIT NAME Unit No. '3"

### UNIT SHUTDOWNS AND POWER REDUCTIONS

November 7., 1977 DATE

COMPLETED BY Lawrence J. Kawul

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

October, 1977

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REPORT MONTH

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	10/6/77	S	601.80	В	1	
			• .			
			· ·			·
		×				

SUMMARY:

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Unit removed from service on October 6, 1977 for a scheduled eight week 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)
  - AMERICAN (TRUTHE & TAT)

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