

OPERATING DATA REPORT

DOCKET NO. 50-286
 DATE May 2, 1978
 COMPLETED BY Mark Tagliamonte
 TELEPHONE 914-739-5002

OPERATING STATUS

1. Unit Name: Indian Point No. 3 Nuclear Power Plant
2. Reporting Period: April 1978
3. Licensed Thermal Power (MWt): 2760
4. Nameplate Rating (Gross MWe): 1013
5. Design Electrical Rating (Net MWe): 965
6. Maximum Dependable Capacity (Gross MWe): 910
7. Maximum Dependable Capacity (Net MWe): 873
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report. Give Reasons:

Notes
 Present refueling outage date set for June 1, 1978.

9. Power Level To Which Restricted, If Any (Net MWe): 873
10. Reasons For Restrictions, If Any: License Restriction of 91% Rated Power.

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>720</u>	<u>2,880</u>	<u>14,617</u>
12. Number Of Hours Reactor Was Critical	<u>716.5</u>	<u>2,713</u>	<u>11,694.62</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>687.22</u>	<u>2,668.76</u>	<u>11,509.49</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,616,402</u>	<u>6,685,309</u>	<u>29,959,869</u>
17. Gross Electrical Energy Generated (MWH)	<u>549,541</u>	<u>2,275,281</u>	<u>9,978,921</u>
18. Net Electrical Energy Generated (MWH)	<u>526,102</u>	<u>2,183,194</u>	<u>9,574,573</u>
19. Unit Service Factor	<u>95.4</u>	<u>92.7</u>	<u>78.7</u>
20. Unit Availability Factor	<u>95.4</u>	<u>92.7</u>	<u>78.7</u>
21. Unit Capacity Factor (Using MDC Net)	<u>83.7</u>	<u>86.8</u>	<u>75.0</u>
22. Unit Capacity Factor (Using DER Net)	<u>75.7</u>	<u>78.6</u>	<u>67.9</u>
23. Unit Forced Outage Rate	<u>20.5</u>	<u>11.8</u>	<u>6.1</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Refueling Outage tentatively scheduled for June, 1978

25. If Shut Down At End Of Report Period, Estimated Date of Startup: _____
26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

Forecast	Achieved
_____ _____ _____	_____ _____ _____
N/A	

8110300531 780512
 PDR ADOCK 05000286
 R PDR

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-286
 UNIT Indian Point
No. 3
 DATE May 1, 1978
 COMPLETED BY M. Tagliamonte
 TELEPHONE 914-739-5002

MONTH April 1978

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>859</u>	17	<u>800</u>
2	<u>855</u>	18	<u>852</u>
3	<u>859</u>	19	<u>866</u>
4	<u>766</u>	20	<u>874</u>
5	<u>653</u>	21	<u>876</u>
6	<u>676</u>	22	<u>875</u>
7	<u>677</u>	23	<u>871</u>
8	<u>659</u>	24	<u>869</u>
9	<u>667</u>	25	<u>867</u>
10	<u>758</u>	26	<u>855</u>
11	<u>860</u>	27	<u>861</u>
12	<u>697</u>	28	<u>312</u>
13	<u>454</u>	29	<u>247</u>
14	<u>843</u>	30	<u>398</u>
15	<u>782</u>	31	<u>N/A</u>
16	<u>433</u>		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

SUMMARY OF OPERATING EXPERIENCE - April 1978

Indian Point No. 3 Nuclear Power Plant was synchronized to the bus for a total of 687.22 hours producing a gross generation of 549,541 mwe for this reporting period.

During the reporting period, the unit experienced two load reductions, which were caused by problems with no 32 Main Boiler Feed Pump, one at 1445 hours on April 4, 1978 and the other at 0835 hours on April 10, 1978. The April 4th load reduction was caused when no. 32 Main Boiler Feed Pump was removed from service due to high vibration on the inboard pump bearing. No. 32 MBFP was returned to service on April 10, 1978 after replacing the coupling and realigning the pump. At 0835 while increasing load to 91% reactor power no. 32 MBFP tripped due to control oil problems causing a unit load reduction to 550 mwe. A subsequent investigation revealed dirt in the cup valve. No. 32 MBFP was returned to service on April 10, 1978 at 0855 and the unit load reached 90% or 91% reactor power at 1600 hours on the 10th of April.

Unit No. 3 experienced a plant trip from 91% reactor power on the 12th of April, 1978 at 1934 hours when a protection relay in the Buchanan substation failed causing a ground fault indication. The reactor was brought critical and the protection relay was repaired. The unit was synchronized to the bus at 0758 hours on April 13, 1978 and reached 91% reactor power at 1500 hours the same day.

Due to a mechanical seal failure, no. 31 heater drain pump was removed from service at 2042 hours on April 15, 1978 and unit load was reduced at a rate of 9 mwe per minute until the unit output reached 360 mwe. Repairs to no. 31 heater drain pump were completed and the pump returned to service at 0545 hours on April 16, 1978. The unit achieved 91% reactor power at 1030 hours on April 17, 1978.

At 0906 hours on April 28, 1978 the unit tripped from 91% reactor power. The unit trip occurred when work on a leak in the heater drain tank level column was in progress. The level column level control circuits were affected when the flexatalic gasket in the top of the level column blew out causing the level to flash and both heater drain pumps to trip. The reactor tripped due to low steam generator level in no. 33 steam generator. The reactor was brought critical at 1050 hours, but due to the boron concentration at this point in core life, the unit was not synchronized to the bus until 0529 hours on April 29, 1978. As Xenon was burned out the reactor was brought up in power and reached 65% reactor power at 2400 hours on April 30, 1978.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH April 1978

DOCKET NO. 50-286
 UNIT NAME T.P. No. 3
 DATE May 2, 1978
 COMPLETED BY M. Tagliamonte
 TELEPHONE 914-739-5002

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
4	780404		134.72	B	1		HHF	PUMPXX B	Load reduction due to required maintenance on no. 32 MBFP. Realigned pump coupling and returned pump to service. No further corrective action necessary.
5	780410		.33	H	1		HHF	PUMPXX	Load reduction due to required maintenance on no. 32 MBFP. Dirt clogged the control oil cup passage. The passage was cleaned and the pump returned to service. No further corrective action taken.
6	780412		12.4	H	3		EBF	CKTBRK X	Plant trip caused when a protection relay in the Buchanan Substation failed. Replace relay, failure contributed to normal end of life, and returned unit to service.

1
 F: Forced
 S: Scheduled

2
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance of Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

3
 Method:
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
 4-Other (Explain)

4
 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

5
 Exhibit I - Same Source

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH April 1978

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No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
7	780415	F	9.05	B	1		HHE	PUMPXX B	Load reduction due to required maintenance on #31 heater drain pump. Mechanical seal failure attributed to normal end of service life. Seal replaced and returned pump to service.
8	780428	F	20.38	A	3		HHE	INSTRU L	Unit tripped on low steam generator level in No. 33 steam generator. The low level was caused by loss of feed-water, when the flexitalic gasket in the top of the level column on the heater drain tank blew out causing the heater drain pumps to trip. The flexitalic gasket was replaced and the unit returned to service.

¹
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²
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³
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 1-Manual
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⁴
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REFUELING INFORMATION REQUEST

- 1) Indian Point No. 3 Nuclear Power Plant
- 2) June 1, 1978
- 3) August 14, 1978
- 4) A technical Specification change was submitted in the area of Power Distribution Control on April 7, 1978. Changes in the areas of administrative controls on Axial Flux Difference and the Fq (Z) envelope as presently outlined in the Unit No. 3 Technical Specification, will be submitted in the near future.
- 5) May 18, 1978
- 6) Change in K(Z) third line segment coordinates new rod insertion limits
- 7) a) 193 assemblies
b) 0
- 8) 837 assemblies - approved capacity
- 9) a) June, 1986 (Full Core Reserve)
b) June, 1989 (without Full Core Reserve)

MONTHLY I & C CATEGORY I REPORT

April 1978

DATE	W.R. #	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
1-30-78	3C2-1348I	#32 battery charger	Air flow switch is intermittent	Replaced switch
2-6-78	3N5-1335I	Relay LC-427K-X, Reactor protection, Train A	Relay will not reset	Replaced relay, performed appropriate surveillance test steps to verify proper operation
2-17-78	3N2-1277I	Primary water flow integrator/low flow bistable	Integrator not working below 40 GPM	Found FM-111, low flow bistable out of calibration, recalibrated same, integrator functioned properly
2-22-78	3N2-1371I	PI-1189W, weld channel	Gauge reads low	Recalibrated Gauge
2-28-78	3NI-1380I	All S.I. accum. level alarms	Set points inappropriate for	Reset alarm setpoints to reflect change in calibration data
3-1-78	I&C-I-00005	TC-454 Prez. Hi Temp Alarm bistable, TC-453 bistable	TC 454 drifting, TC-453 damaged during trouble shooting	Replaced both TC-454 and TC-453 with new, recalibrated each
3-29-78	I&C-I-00011	#32 Inst. air dryer	Input and output pressure gauges need calibration	Calibrated gauges as requested
4-4-78	I&C-I-00004	PAB charcoal bed exhaust dampers	Position indication showed malfunction	Replaced lamps, performed operational check, verified auto functions

MONTHLY MAINTENANCE REPORT

MARCH
Month

W. R. #	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
M-1-0016	#31 RHR Pump	Mechanical Seal Gasket Leak	Replaced Gasket 3-30-78
M-1-0012	#31 Comp. Cooling Pump	I.B. Mechanical Seal Leak	Adjusted Mechanical Seal 3-28-78
3N2-1627	#31 B.A. Transfer Pump	Flange Leak	Tightened Flange 3-14-78
N2-1506	Ckt 40	Stripe Heater not working	Adjusted Current Transformers 3-21-78