

Indian Point 3  
Nuclear Power Plant  
P.O. Box 215  
Buchanan, New York 10511  
914 739.8200



**New York Power  
Authority**

August 15, 1989  
IP3-89-058  
IP3-89-171H

Docket No. 50-286  
License No. DPR-64

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Mail Station PI-137  
Washington, D.C. 20555

Dear Sir:

Enclosed you will find the monthly operating report relating to  
Indian Point 3 Nuclear Power Plant for the month of July 1989.

Very truly yours,

Joseph E. Russell  
Resident Manager  
Indian Point 3 Nuclear Power Plant

SS/sd:6:09  
Enclosure

cc: Mr. William Russell, Regional Administrator  
Region 1  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, Pennsylvania 19406

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OPERATING DATA REPORT

Docket No. 50-286  
 Date 08-01-89  
 Completed By S. Smith  
 Telephone 914-736-8340

OPERATING STATUS

- |  |       |  |
|--|-------|--|
| 1. Unit Name: <u>Indian Point No. 3 Nuclear Power Plant</u><br>2. Reporting Period: <u>July 1989</u><br>3. Licensed Thermal Power (MWt): <u>3025</u><br>4. Nameplate Rating (Gross MWe): <u>1013</u><br>5. Design Electrical Rating (Net MWe): <u>965</u><br>6. Maximum Dependable Capacity (Gross MWe): <u>1000</u><br>7. Maximum Dependable Capacity (Net MWe): <u>965</u> | Notes |  |
|--|-------|--|

8. If Changes Occur in Capacity Ratings (Items Number 3 through 7) Since Last Report.  
 Give Reasons: \_\_\_\_\_
9. Power Level to Which Restricted, If Any (Net MWe): \_\_\_\_\_
10. Reasons for Restrictions, If Any: \_\_\_\_\_

	This Month	Yr. to Date	Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>5,087</u>	<u>113,256</u>
12. Number of Hours Reactor Was Critical	<u>744</u>	<u>1,776.14</u>	<u>68,434.06</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>744</u>	<u>1,714.21</u>	<u>66,395.23</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,196,511</u>	<u>4,813,840</u>	<u>186,767,408</u>
17. Gross Electrical Energy Generated (MWH)	<u>726,020</u>	<u>1,583,420</u>	<u>56,882,845</u>
18. Net Electrical Generated (MWH)	<u>699,464</u>	<u>1,525,256</u>	<u>54,628,024</u>
19. Unit Service Factor	<u>100</u>	<u>33.7</u>	<u>58.6</u>
20. Unit Availability Factor	<u>100</u>	<u>33.7</u>	<u>58.6</u>
21. Unit Capacity Factor (Using MDC Net)	<u>97.4</u>	<u>31.1</u>	<u>51.6 *</u>
22. Unit Capacity Factor (Using DER Net)	<u>97.4</u>	<u>31.1</u>	<u>50.0</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0.8</u>	<u>17.6</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): \* Weighted Average

25. If Shut Down At End Of Report Period. Estimated Date of Startup: \_\_\_\_\_

26. Units In Test Status (Prior to Commercial Operation):	Forecast	Achieved
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-286  
 UNIT IP-3  
 DATE 08-01-89  
 COMPLETED BY S. Smith  
 TELEPHONE (914) 736-8340

MONTH July 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	858
2	869
3	866
4	867
5	865
6	866
7	929
8	964
9	965
10	964
11	964
12	963
13	964
14	930
15	961
16	963

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	966
18	966
19	965
20	965
21	966
22	963
23	945
24	958
25	956
26	956
27	955
28	955
29	957
30	957
31	957

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.

**UNIT SHUTDOWNS AND POWER REDUCTIONS**

DOCKET NO. 50-286  
 UNIT NAME Indian Point 3  
 DATE 08/01/89  
 TELEPHONE (914) 736-8000

REPORT MONTH JULY 1989

No.	Date	Type	Duration (Hours)	Reason 2	Method of Shutting Down Reactor 3	Licensee Event Report #	System Code	Component Code 5	Cause & Corrective Action to Prevent Recurrence
4	890714	F	NA	A	NA	NA	IF	CKTBRK A	At 1350 hours, No's 32, 34 and 36 CWF's tripped as a result of lost excitation. Load was reduced to 800 MWe to maintain vacuum.

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 F - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)**

5  
**Exhibit H - Same Source**

## SUMMARY OF OPERATING EXPERIENCE

JULY 1989

Indian Point Unit No. 3 was synchronized to the bus for a total of 744 hours, producing a gross generation of 726,020 MWe.

Following a June 25 start-up, the unit began a load increase on July 1 at 0333 hours. The unit achieved 90% reactor power at 0530 hours and held that power level for plant testing. On July 6, at 2133 hours, power escalation to full load began. On July 7, at 0440 hours full load was achieved.

On July 7 at 1410 hours No.'s 31, 33 and 35 Circulating Water Pump's (CWP's) tripped and the unit load was reduced to 810 MWe in order to maintain condenser vacuum. It was determined that the main breaker on the 480 Vac panel, "PCE-A", which supplies the exciters in No's 31, 33 and 35 CWP's, had tripped causing the CWP's to lose excitation. After repairs were made the CWP's were restarted and the unit achieved full load at 2100 hours.

On July 14, at 1350 hours, No's 32, 34 and 36 CWP's tripped. In order to maintain proper operating condenser vacuum load was reduced to 800 MWe. Investigation determined that PCE Power Panel, "PCE-B", which supplies the exciters in No's 32, 34 and 36 CWP's, was in a reduced voltage condition, and its supply from MCC-33 was found to have a blown "B" phase fuse. After repairs were made, the CWP's were re-started at 1410 hours. At 1540 hours, a load escalation to full load commenced and the unit achieved full load at 2200 hours.

The unit experienced no further significant load transients for the remainder of the reporting period.

## MONTHLY MAINTENANCE CATEGORY I REPORT

MONTH July 1989

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
13764	4/19/89	Chemical and Volume Control System, #33 Charging Pump Discharge Check Valve, CH-405.	Leaking bonnet clamp.	Replaced bonnet clamp.
18077	6/7/89	Instrument Air System.	Miscellaneous fitting leaks.	Repaired leak.
17549	6/12/89	Ventilation System, #32 Fan Cooler Unit.	Defective damper air regulator.	Replaced air regulator.
10450	6/13/89	Weld Channel and Containment Penetration Pressurization System, Zone #1 Pressure Indicator, PI-1307 Isolation Valve.	Valve leaks across seat.	Replaced valve.
18508	6/21/89	Main Steam System, #32 Auxiliary Boiler Feedwater Pump Steam Supply Valve, MS-52.	Less than full thread engagement on inlet flange studs.	Replaced studs.
18545	6/21/89	Reactor Coolant System, Pressurizer Level Indication Root Stop Valve, 534.	Packing leak.	Adjusted packing.
18565	6/23/89	Containment Building, 95' Equipment Airlock.	Defective interior door gasket.	Replaced gasket.
18580	6/27/89	Supports and Restraints, Chemical and Volume Control Support, CH-H&R-214-1-U.	Grout missing.	Applied grout.
18582	6/27/89	Chemical and Volume Control System, #31 Charging Pump Room.	Broken U-bolt.	Replaced bolt.
18584	6/27/89	Chemical and Volume Control System, Seal Water to Reactor Coolant Pump Line #41.	Loose U-bolt.	Replaced nuts.

## MONTHLY I &amp; C CATEGORY I REPORT

July 1989  
MONTH

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
10937	6/21/89	Auxiliary Feedwater System, #33 and #34 Steam Generators Auxiliary Feedwater Flow Indicators, FI-1202 and 1203.	Out of calibration.	Calibrated flow indicators.
9577	6/22/89	Computer System, Qualified Safety Parameter Display System, Channel A&B.	Missing covers and screws. Units not secured to cabinet.	Replaced covers and screws. Secured units to cabinet.
10960	6/29/89	Radiation Monitoring System, Steam Generator Blowdown Flow Radiation Monitor, R-19.	Defective power isolation board.	Replaced board.
10992	7/3/89	Electrical System, #31 Electrical Panel Exhaust Fan Switch, W-2.	Defective switch.	Replaced switch.
11025	7/5/89	Reactor Coolant System Pressurizer Temperature Bistable, TC-453.	Out of calibration.	Calibrated bistable.
11034	7/10/89	Radiation Monitoring System, Sampling Room Area Radiation Monitor, R-6.	Defective power supply board.	Replaced power supply board.
10892	7/11/89	Reactor Protection System, Loop #33 Overtemperature Delta-Temperature.	Indication out of calibration.	Calibrated indicator.
11080	7/14/89	Rod Position Indication, Control Rods E13 and C11.	Rod position indication voltages out of calibration.	Re-calibrated.
11127	7/28/89	Main Feedwater System, #32 Steam Generator Feedwater Flow Transmitter, FT-428.	Defective transmitter.	Replaced transmitter.

## MONTHLY MAINTENANCE CATEGORY I REPORT

July 1989  
MONTH

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
18585	6/27/89	Chemical and Volume Control System, #32 Charging Pump Room.	Various U-bolts missing.	Replaced U-bolts.
18601	6/28/89	Chemical and Volume Control System, #31 Boric Acid Filter to Charging Pumps, Line 204 Heating Circuit, CKT-63.	Open circuited.	Repaired circuit.
18573	7/10/89	Sampling System, Refueling Water Storage Tank Sample Isolation Valve, 151.	Leaking swagelock fitting.	Tightened fitting.
15264	7/11/89	Boiler Feedwater System, #31 Steam Generator Flow Control Valve, 417L.	Packing leaks.	Replaced packing.
15265	7/11/89	Boiler Feedwater System, #32 Steam Generator Feedwater Flow Control Valve, 427L.	Packing leak.	Replaced packing.
17457	7/11/89	Auxiliary Coolant System, Spent Fuel Pit Demineralizer Stop Valve, 727B.	Packing leak.	Replaced packing.
18700	7/13/89	Containment Building, 95' Equipment Airlock.	Inner door seal leaks.	Replaced inner door seal.
18721	7/13/89	Auxiliary Coolant System, #32 Component Cooling Pump.	Suction drain line damaged.	Fabricated and installed new pipe.
18732	7/13/89	Ventilation System, #32 Central Control Room Air Conditioner.	Defective compressor.	Replaced compressor.

## MONTHLY MAINTENANCE CATEGORY I REPORT

July 1989  
MONTH

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
18759	7/24/89	Safety Injection System, #33 Safety Injection Pump Discharge Line Heating Circuit, CKT-6.	Corroded terminals in control box.	Cleaned terminals.
18760	7/24/89	Chemical and Volume Control System, Boric Acid Storage Tank #31 to Tank #32, Lines 235 and 236 Heating Circuit, CKT-59.	Corroded terminals in control box.	Cleaned terminals.
18788	7/24/89	Ventilation System, #32 Central Control Room Air Conditioner.	Fill fitting leaked.	Charged unit and installed cap.
18811	7/24/89	Emergency Diesel Generator Starting Air System, #31 Diesel Generator Air Start Valve, 18-2.	Dirty valve internals.	Cleaned valve.
18821	7/24/89	Emergency Diesel Generator Starting Air System, #31 Diesel Generator Air Start Valve, 18-2.	Valve binds.	Cleaned valve internals and replaced coil and plunger.
18818	7/25/89	Service Water System, #31 Emergency Diesel Generator Heat Exchanger.	Heat exchanger clogged with marine growth.	Cleaned heat exchanger.
13406	7/27/89	Emergency Diesel Generator Jacket Water System, #31 Diesel Generator Jacket Water Expansion Tank.	Float valve leaks across seat.	Replaced valve.
13954	7/27/89	Emergency Diesel Generator Lube Oil System, #31 Diesel Generator Lube Oil Strainer.	Various pet cocks leak.	Replaced pet cocks.

## MONTHLY MAINTENANCE CATEGORY I REPORT

July 1989  
MONTH

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
18237	7/27/89	Emergency Diesel Generator Fuel Oil System, #31 Diesel Generator Fuel Oil Differential Pressure Switch, DPC-1119S.	Damaged switch.	Replaced switch.