

OPERATING DATA REPORT

Docket No. 50-286
 Date 6-2-86
 Completed By L. Kelly
 Telephone 914-739-8200

OPERATING STATUS

<p>1. Unit Name: <u>Indian Point No. 3 Nuclear Power Plant</u></p> <p>2. Reporting Period: <u>May 1986</u></p> <p>3. Licensed Thermal Power (MWt): <u>3025</u></p> <p>4. Nameplate Rating (Gross MWe): <u>1013</u></p> <p>5. Design Electrical Rating (Net MWe): <u>965</u></p> <p>6. Maximum Dependable Capacity (Gross MWe): <u>1000</u></p> <p>7. Maximum Dependable Capacity (Net MWe): <u>965</u></p>	<p>Notes</p>
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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	744	3,623	85,488
12. Number of Hours Reactor Was Critical	215.25	2,961.57	50,228.95
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	176.20	2,917.56	48,550.53
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	261,216.32	8,462,386.47	129,240,161.6
17. Gross Electrical Energy Generated (MWH)	77,420	2,794,250	40,358,785
18. Net Electrical Generated (MWH)	71,930	2,698,078	38,712,717
19. Unit Service Factor	23.7	81.7	56.8
20. Unit Availability Factor	23.7	81.7	56.8
21. Unit Capacity Factor (Using MDC Net)	10.0	77.2	48.90 *
22. Unit Capacity Factor (Using DER Net)	10.0	77.2	46.9
23. Unit Forced Outage Rate	42.6	4.9	18.9

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: _____

<p>26. Units In Test Status (Prior to Commercial Operation):</p> <p style="padding-left: 40px;">INITIAL CRITICALITY</p> <p style="padding-left: 40px;">INITIAL ELECTRICITY</p> <p style="padding-left: 40px;">COMMERCIAL OPERATION</p>	<p>Forecast</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>Achieved</p> <p>_____</p> <p>_____</p> <p>_____</p>
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IE24
 111

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-286
UNIT IP-3
DATE 6-2-86
COMPLETED BY L. Kelly
TELEPHONE (914) 739-8200

MONTH May 1986

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>0</u>
18	<u>0</u>
19	<u>37</u>
20	<u>0</u>
21	<u>3</u>
22	<u>213</u>
23	<u>203</u>
24	<u>0</u>
25	<u>389</u>
26	<u>448</u>
27	<u>0</u>
28	<u>299</u>
29	<u>468</u>
30	<u>469</u>
31	<u>467</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.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-286
 UNIT NAME Indian Point No. 3
 DATE June 2, 1986
 COMPLETED BY I. Kelly
 TELEPHONE (914) 739-8200

REPORT MONTH May 1986

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
02	860426	S	437.05	H	1	NA	ZZ	ZZZZZZ	Unit in a scheduled mid-cycle steam generator inspection outage.
03	860519	F	58.75	A/H	3	86-003-00	CH	VALVEX C	Experienced Hi-Hi level in #34 Steam Generator while placing #32 Main Boiler feed pump in service. The unit delayed its return to service and remained shutdown until questions covering the validity of some cable's environmental qualifications were addressed.
04	860523	F	17.83	A	3	86-005-00	IC	RELAYX A	While performing 3PT-M12 Independent Electrical Overspeed Protection System IEOPS Test on channel 1 a failed relay in channel 3 of IEOPS circuitry caused a unit trip.
05	860524	F	22.02	A	1	NA	ZZ	ZZZZZZ	Unit taken off line due to high indicated turbine vibrations.

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

⁵
 Exhibit - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-286
 UNIT NAME Indian Point No. 3
 DATE 6-2-86
 COMPLETED BY L. Kelly
 TELEPHONE 914-739-8200

REPORT MONTH May 1986

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
06	860526	F	32.15	A	3	86-006-00	ZZ	ZZZZZZ	While removing the unit from service in order to inspect #32 Main Transformer, #32 Condensate Pump was taken off line due to high indicated motor current. Condensate Polisher Facility booster pumps A and B subsequently started and feedwatersystem perturbation occurred, causing a low level in 34 Steam Generator.

¹
 F: Forced
 S: Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or 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 (IFR) File (NUREG-
 0161)

⁵
 Exhibit H- Same Source

MONTHLY I & C CATEGORY I REPORT

May 1986
MONTH

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
5564	5/03/86	Reactor Protection, Train A Relay 350 X	Relay does not pick up.	Replaced defective relay.
4888	5/05/86	#31 Containment Spray Pump	Second start time delay out of specification.	Adjusted relay.
5565	5/08/86	Radiation Monitoring System, Waste Gas Radiation Monitor R-20	Ionization chamber over pressurized.	Replaced ionization chamber.
5584	5/08/86	Radiation Monitoring System, Waste Gas Radiation Monitor R-20, Valve PCV-1069A	Inlet valve to R-20 out of calibration.	Adjusted pressure regulator PCV-1069A.
5544	5/09/86	Demineralized Water, Containment Isolation Valves DW-AOV-1, DW-AOV-2, Pressure Switches PS1 and PS2	Switches out of calibration.	Calibrated pressure switches.
5581	5/10/86	Reactor Coolant System, Pressurizer Spray Valve PCV-455B	Electro-pneumatic transducer does not respond.	Replaced transducer.
5604	5/13/86	Safety Injection, Loop 34 High Head Non BIT Injection Flow Indicator - 982	No flow indicated.	Replaced amplifier and calibrated.
5206	5/13/86	Battery Charger, 33 Inverter Circuits 1C and 2C	Bad electrolytic capacitors.	Replaced capacitors.
4867	5/14/86	Reactor Protection Train B, Test Switches 42 P and 43 P	Contacts do not fully make up.	Replaced switches.
5583	5/14/86	Service water system, 32 Zurn Strainer D/P Switch	D/P switch inoperative.	Replaced delta/P switch and calibrated.
5635	5/23/86	Electrical Independent Overspeed Protection System Relay 0-38 and F-1A	0-3B relay was hanging up and and F-1A relay had high contact resistance.	Replaced relays.

MONTHLY MAINTENANCE CATEGORY I REPORT

May 1986
MONTH

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
7906	5/12/86	Chemical and Volume Control #31, #32 and #33 Charging Pump Recirculation Valves: 8106, 8107, 8108	Valves leak by	Replaced valves.
6813	5/15/86	Service Water, Instrument Air Closed Cooling Valves 70-1, 70-2, 27-1 and 27-2	Valves leak by.	Replaced valves.
7989	5/15/86	#31 Steam Generator Blowdown Sample Valve BD-3-31	Swagelock fitting leaks.	Replaced tee.
7743	5/16/86	#31 Steam Generator Blowdown Sample Valve BD-3-31	Body to bonnet leak.	Replaced bonnet on valve.
8340	5/16/86	No. 32 Instrument Air Component Cooling Heat Exchanger	Leaks service water to component cooling.	Replaced gaskets.
7988	5/17/86	#33 Steam Generator Blowdown Sample Valve BD-3-33	Body to bonnet leak.	Replaced valve.
7991	5/20/86	Chemical and Volume Control System R.C.S. Letdown Isolation Valve 342	Packing leak.	Repacked valve.
6416	5/29/86	#31 Instrument Air Closed Cooling Pump	Pump seal leaks by.	Replaced packing and tightened-up gland.

MONTHLY MAINTENANCE CATEGORY I REPORT

May 1986
MONTH

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
8250	5/01/86	#34 Steam Generator Blowdown Isolation Valves BD-1-34 (2 Valves)	Body to bonnet leaks.	Replaced body to bonnet gaskets.
7830	5/01/86	Chemical and Volume Control System #32 Boric Acid Storage Tanks	Leaks at heater penetrations.	Replaced gaskets.
7689	5/01/86	Residual Heat Removal Heat Exchanger #31 Outlet Flow Control Valve FCV-638	Valve receiving improper % open signal.	Adjusted rheostat.
7790	5/02/86	Primary Sampling System Hot Leg Sample Line	Leak in sample line.	Replaced damaged tubing.
8235	5/02/86	High Head Safety Injection valves 856 C, F and K	Packing leaks.	Repacked valves.
8234	5/02/86	High Head Safety Injection Valves 856 D, G and J	Packing leaks.	Repacked valves.
7992	5/02/86	Chemical and Volume Control System Letdown Isolation Valve LCV-460	Packing leak.	Repacked valve.
6901	5/02/86	RCP Seal Injection Isolation Valves 239A, 239B, 240 A and 240B	Packing leaks.	Repacked valves.
7996	5/03/86	Reactor Coolant System Pressurizer Spray Valve PCV-455B	Body to bonnet leak.	Replaced body to bonnet gasket.
8239	5/03/86	Accumulator Check Valves Valves 894A, C and D	Packing leaks.	Repack valves.
8040	5/04/86	Vapor Containment Pressure Relief Valve PCV-1190	Stroke time is high.	Disassembled and cleaned.

MONTHLY MAINTENANCE CATEGORY I REPORT

May 1986
MONTH

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
7998	5/05/86	#32 Steam Generator Blowdown Isolation Valves BD-1-32 (Two Valves)	Body to bonnet leaks.	Replaced body to bonnet gaskets.
7984	5/05/86	Chemical and Volume Control System Letdown Orifice Valves 200A, B and C	Packing leaks.	Repacked valves.
8074	5/05/86	Blended Makeup Flow Control Valve FCV-110B	Constant air leak on its vent.	Replaced solenoid.
8228	5/05/86	Pressurizer Spray Valve PCV-455A	Packing leak.	Valve rebuilt.
7995	5/06/86	Chemical Volume Control System Charging Isolation Valve 204A	Packing leak.	Repacked valve.
5188	5/06/86	#31 and #32 Seal Injection Valves 249 A-D and Filter and Drain Valves 239H and 239G	Valves leak.	Replaced valves 239H & 239G. Repacked valves 249A-D.
8272	5/06/86	No. 35 Service Water Pump	Packing leak.	Repacked pump.
8237	5/06/86	Drain Valve to Reactor Coolant Drain Tank 508A	Packing leak.	Repacked valve.
6714	5/07/86	Service Water, #34 Zurn Strainer D/P Switch	D/P Switch Inoperative.	Replaced D/P switch.
7183	5/07/86	#32 Hydrogen Recombiner	Ignitor fails to light.	Repaired ignitor.
7800	5/07/86	#33 Fan Cooler Unit	High vibrations on inboard bearing.	Replaced bearing.
8229	5/07/86	#31 Fan Cooler Unit	High vibrations.	Replaced fan and motor bearings.

MONTHLY MAINTENANCE CATEGORY I REPORT

May 1986
MONTH

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
7997	5/08/86	#33 Steam Generator Blowdown Isolation Valve BD-1-33 (1 Valve)	Body to bonnet leak.	Replaced valve.
7987	5/08/86	Primary Sampling Pressurizer Liquid Space Sample Isolation Valve 953	Body to bonnet leak.	Replaced valve body and packing.
6904	5/08/86	Auxiliary Feedwater System #32 Steam Generator Flow Control Valve FCV-406B	Packing leak.	Replaced valve.
7999	5/08/86	#31 Steam Generator Blowdown isolation valves BD-1-31 (2 Valves)	Body to bonnet leaks.	Replaced valves.
6830	5/09/86	Chemical and Volume Control System Non Regenerative Heat Exchanger Temperature Control Valve TCV-130	Packing leak.	Replaced packing.
7233	5/09/86	Demineralization System Valve 310	Flange leak.	Replaced flange gasket.
7683	5/10/86	#31 Containment Spray Pump Discharge Stop Valve MOV-866A	Declutch handle inoperable.	Repaired valve.
8238	5/10/86	Power Operated Relief Valve Not Fully Closed Annunciator	Alarm did not come up.	Re-connected wiring in junction box.
8313	5/10/86	#32 Steam Generator Blowdown Isolation Valve BD-1-32 (Cold Leg)	Body to bonnet leak.	Replaced valve body.
7113	5/12/86	Residual Heat Removal Pumps Recirculation Line to RWST Valve 883	Improper indication.	Adjusted limit switch.

Summary of Operating Experience

May 1986

Indian Point Unit #3 was synchronized to the bus for a total of 176.20 hours, producing a gross generation of 77,420 MWe for this reporting period.

On May 19, at 0503 hours Indian Point Unit 3 was returned to service after a 23 day mid-cycle Steam Generator inspection outage.

On May 19, at 1204 hours while placing #32 Main Boiler Feed Pump in service, a feedwater flow perturbation caused a high level in #34 Steam Generator, reaching its high level setpoint and causing a unit trip. Investigation determined that a check valve in the discharge line of #32 Main Boiler Feed Pump was open, allowing a feedwater recirculation path to develop during pump start-up. The unit delayed its return to service and remained shutdown until questions concerning the validity of some cable's environmental qualifications were addressed. The unit was returned to service on May 21, at 2249 hours.

On May 23, at 0840 hours a unit trip was caused when two out of three IEOPS (Independent Electrical Overspeed Protection System) channels were tripped. The first channel to make-up part of the trip signal was from a previously unknown failed relay contact in channel 3 of IEOPS. The unit trip logic was completed and unit trip occurred when a test signal was injected into channel I of IEOPS during the periodic monthly test 3PT-M12 Turbine Electrical Overspeed Analog Channel Functional Test. The failed relay was replaced and other relays of the same type were inspected. The generator was brought back to service at 0230 hours on May 24.

On May 24, at 0320 hours the unit was taken off line in a controlled shutdown due to high turbine vibrations. Turbine inspection was performed and no problems were found. The unit was returned to service on May 25, at 0121 hours after a slow turbine roll up and additional turbine vibration checks.

On May 26, at 1920 hours while taking the unit off line in order to perform inspections on #32 Main Transformer, #32 condensate pump was manually tripped because of high indicated motor amperage. Condensate polisher facility booster pumps A and B subsequently started and a feedwater system perturbation occurred. This perturbation caused a low level in #34 Steam Generator and a subsequent low Steam Generator level unit trip. The unit was returned to service on May 28, at 0329 hours after #32 Main Transformer was disconnected for inspection. The unit remained on the line for the remainder of the reporting period.

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



June 13, 1986
WAJ-IP3-030Z
LK-IP3-035H

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

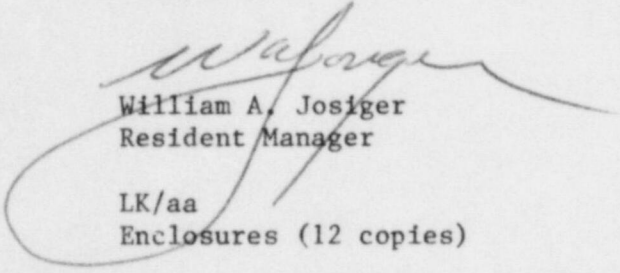
Director, Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Document Control Desk

Dear Sir:

Enclosed you will find twelve copies of the monthly operating report relating to Indian Point 3 Nuclear Power Plant for the month of May, 1986.

Very truly yours,



William A. Josiger
Resident Manager

LK/aa
Enclosures (12 copies)

cc: Dr. Thomas E. Murley, Regional Administrator
Region 1
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

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