

OPERATING DATA REPORT

Docket No. 50-286
 Date 11-01-88
 Completed By L. Kelly
 Telephone 914-736-8340

OPERATING STATUS

- | | | |
|---|-------|--|
| <ol style="list-style-type: none"> 1. Unit Name: <u>Indian Point No. 3 Nuclear Power Plant</u> 2. Reporting Period: <u>October 1988</u> 3. Licensed Thermal Power (MWt): <u>3025</u> 4. Nameplate Rating (Gross MWe): <u>1013</u> 5. Design Electrical Rating (Net MWe): <u>965</u> 6. Maximum Dependable Capacity (Gross MWe): <u>1000</u> 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	745	7,320	106,705
12. Number of Hours Reactor Was Critical	331.87	6,367.37	65,712.7
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	301.25	6,278.85	63,740.4
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	867,954	18,586,446	179,161,039
17. Gross Electrical Energy Generated (MWH)	278,590	6,048,460	54,386,665
18. Net Electrical Generated (MWH)	268,108	5,829,983	52,220,849
19. Unit Service Factor	40.4	85.8	59.7
20. Unit Availability Factor	40.4	85.8	59.7
21. Unit Capacity Factor (Using MDC Net)	37.3	82.5	52.5 *
22. Unit Capacity Factor (Using DER Net)	37.3	82.5	50.7
23. Unit Forced Outage Rate	58.5	8.5	17.7

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): * Weighted Average Cycle 6/7 Refueling Outage scheduled for February 1989 - May 1989

25. If Shut Down At End Of Report Period. Estimated Date of Startup: November 1988

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

8811220386 881031
 PDR ADUCK 05000286
 R PDC

IE24
1/1

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-286
 UNIT IP-3
 DATE 11-01-88
 COMPLETED BY L. Kelly
 TELEPHONE (914) 736-8340

MONTH September 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	935	17	866
2	937	18	938
3	938	19	936
4	940	20	27
5	941	21	0
6	940	22	0
7	942	23	0
8	940	24	0
9	740	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	0
14	0	30	0
15	60	31	0
16	91		

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 11/01/88
 TELEPHONE 914-736-8340

REPORT MONTH OCTOBER 1988

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
08	881009	F	138.40	A	3	88-0007-00	HA	MECFUN	Unit Trip due to loss of auto stop oil in the Main Turbine Generator.
09	881015	S	18.83	B	1	NA	HA	TURBIN	Controlled shutdown in order to perform Main Turbine Overspeed Trip tests.
10	881019	F	286.52	A	1	88-0008-00	XX	HTEXCH F	Controlled shutdown due to two (2) gpm primary-to-secondary leak in No. 31 Steam Generator.

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

MONTHLY I & C CATEGORY I REPORT

October 1988
MONTH

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
9125	9/28/88	Auxiliary Feedwater System, Auxiliary Feedwater Pumps Suction Pressure Indicator, PI-1264.	PI-1264 out of calibration.	Calibrated PI-1264.
9185	10/4/88	Service Water System, Emergency Diesel Generator Outlet Flow Indicator Controller, FIC-1176.	FIC-1176 does not throttle flow.	Cleaned, repaired and calibrated.
9161	10/4/88	Radiation Monitoring System, Central Control Room Area Monitor, R1.	Drawer spiking.	Replaced power supply printed circuit board.
9170	10/5/88	Auxiliary Feedwater System, #32 Auxiliary Feedwater Pump Discharge Pressure Gauge, PI-1294.	Gauge needle bent.	Repaired gauge needle and calibrated.
9032	10/6/88	Radiation Monitoring System, 4th Floor Administration Building, R-48D.	"High" and "Alert" alarms actuate before setpoint.	Correct wiring, repaired broken wire and calibrated.
9157	10/6/88	Waste Disposal System, #31 Waste Gas Compressor Moisture Separator Level Transmitter, LT-1032.	Out of calibration.	Calibrated.
9153	10/7/88	Containment Hydrogen Monitor, Channel "A" Regulators, R1, R2 & R3.	Analyzer flow rate low.	Replace regulators.
9202	10/7/88	Radiation Monitoring System, Central Control Room Monitor, R1.	Failed power supply.	Replaced.
8723	10/10/88	Reactor Coolant System, Pressurizer Spray Valve Controller, PC-455C.	Controller indicator spikes.	Replaced controller and tightened loose connection.

MONTHLY I & C CATEGORY I REPORT

MONTH October 1988

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
9200	10/11/88	Radiation Monitoring System, Central Control Room Area Monitor, R-1.	Faulty connector connections.	Repaired.
8652	10/11/88	Reactor Protection Logic, Central Control Room (CCR) Tavg Defeat Switch, TC-412B.	Switch malfunctions.	Replaced switch.
9204	10/12/88	Reactor Coolant System, Pressurizer Spray Valve, PCV-455B.	PCV-455B responds sluggishly to controller output.	Replaced valve arm on the positioner.
9208	10/12/88	Reactor Coolant System, #34 Reactor Coolant Pump Seal Differential Pressure Transmitter, PT-124.	Improper indication.	Calibrated PT-124.
8306	10/12/88	Reactor Protection Logic, CCR Racks E-2 thru E-6 and F-2 thru F-6.	Dirty racks.	Vacuum racks.
8282	10/13/88	Electrical System, #31,32,& 33 Emergency Diesel Generators.	Dirty relay contacts from unit/parallel switch.	Cleaned relay contacts.
9104	10/13/88	Reactor Coolant System, Pressurizer Pressure Indicator, PI-474.	Indicator needle bent.	Repaired needle and calibrated.
9119	10/13/88	Feedwater System, #31 Steam Generator Feed Flow, FI-418.	Indicator needle sticks.	Cleaned and calibrated indicator.
9203	10/13/88	Electrical System, 480V Normal Supply Breaker, 52/5A.	Fuse clip arcing causes de-energization of reduced voltage sensing relays.	Installed fuse holder clamps per MOD-88-03-166-EL.

MONTHLY I & C CATEGORY I REPORT

October 1988
MONTH

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
9158	10/15/88	Auxiliary Feedwater System, Suction Pressure Transmitter, PT-1264.	Misaligned bracket.	Aligned bracket and calibrate.
9269	10/21/88	Nuclear Instrument System, Flight panel power meter, NI-44.	Flight panel meter does not agree with other instrumentation.	Adjusted isolation amp and calibrated.
9287	10/26/88	Radiation Monitoring System, Technical Support Center, Strip Chart Recorder, R44A,B.	Misaligned cable.	Repositioned cable.
9277	10/27/88	Radiation Monitoring System, Technical Support Center Monitor, R-44D.	Broken detector wire.	Repaired.
9305	10/28/88	Radiation Monitoring System, Plant Vent Activity Recorder, R13 and R14.	Defective amplifier board.	Replaced amplifier board.

MONTHLY MAINTENANCE CATEGORY I REPORT

October 1988
MONTH

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
13250	04/14/88	Containment Building, #31 Fan Cooler Unit Condensate Valve, LCV-1163/SOV-1263.	Valve indicating lights not functioning.	Adjusted limit switches.
13038	10/4/88	Chemical Volume Control System, Boric Acid Heat Trace, Circuit #59.	Corrosion present inside control box.	Cleaned control box.
13039	10/4/88	Chemical Volume Control System, Boric Acid Heat Trace, Circuits #39 and #40.	Corrosion present inside control box.	Cleaned control box.
13040	10/4/88	Chemical Volume Control System, Boric Acid Heat Trace, Circuits #37 and #38.	Corrosion present inside control box.	Cleaned control box.
13041	10/4/88	Chemical Volume Control System, Boric Acid Heat Trace, Circuits 34,35 and 36.	Corrosion present inside control box.	Cleaned control box.
15073	10/4/88	Emergency Diesel Generator, #31 EDG Lube Oil Filter.	Filter Cover Leaks.	Replaced Gasket.
14831	10/4/88	Service Water System, #32 Service Water Pump, Packing Drain Line.	Drain line clogged.	Cleaned drain line.
14637	10/5/88	Service Water System, #33 Service Water Pump.	Packing leaks.	Replaced packing.
13925	10/12/88	Boiler Feedwater System, 34 S/G Feedwater Flow Transmitter FT-448 Drain Valve.	Packing leaks.	Replaced valve.

MONTHLY MAINTENANCE CATEGORY I REPORT

September 1988
MONTH

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
13700	10/13/88	Waste Disposal System, Nitrogen Supply to Reactor Coolant Drains Tank Isolation valve, PCV-1610.	Air supply line not supported.	Installed new supports. (RES-88-03-104-N2)
14974	10/13/88	Emergency Diesel Generator, #32 EDG Air Motor Start Relief Valve.	Relief valve lifts below required setpoint.	Adjusted relief valve setting.
14901	10/13/88	Service Water System, #33 Service Water Pump.	Packing overheats.	Replaced packing.
12411	10/14/88	Electrical System, Motor Control Center 36B, Cubicle 2RH, MOV-856G.	Disconnect switch loose.	Tightened lugs.
14972	10/14/88	Auxiliary Feedwater System, #33 Auxiliary Feedwater Pump, Discharge Pressure Indicator, PI-1262.	Gauge fitting leaks.	Replaced fitting.
13020	10/18/88	Service Water System, #33 Fan Cooler Unit Outlet Isolation Valve, SWN-44-3.	Missing valve position Indicator.	Installed valve position indicator.
13019	10/18/88	Service Water System, #32 Fan Cooler Unit Outlet Isolation Valve, SWN-44-2.	Missing valve position indicator.	Installed valve position indicator.
14318	10/19/88	Safety Injection System, Containment Spray Pumps Discharge Pipe Hangers.	Loose nuts on U-bolt.	Tightened nuts.
14413	10/24/88	Electrical System, #32 Station Battery.	Traces of corrosion on terminals.	Cleaned and greased terminals.

MONTHLY MAINTENANCE CATEGORY I REPORT

September 1988
MONTH

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
15053	10/25/88	Service Water System, #35 Fan Cooler Unit, Inlet Hose.	Flex hose leaks.	Replaced flex hose.
15014	10/26/88	Steam Generator Blowdown, #32 Shell Drain Valve, BD-2-1.	Valve leaks.	Replaced valve.
13849	10/26/88	Reactor Coolant System, #34 Reactor Coolant Pump Thermal Barrier Pressure Transmitter, PT-124.	Isolation valves leak by.	Replaced valves.
13587	10/26/88	Chemical Volume Control System, Reactor Coolant Pump Seal Water Isolation valves, 250A,250B,250C,250D.	Packing leaks.	Replaced Packing.
13465	10/26/88	Auxiliary Coolant System, #31 Spent Fuel Pit Pump Discharge Pressure Indicator, PI-652.	Pressure indicator cannot be be isolated.	Repaired PI-652 Isolation valve.
12610	10/26/88	Weld Channel Penetration Pressurization System, N2 Backup Check Valve, FCV-1129.	Outlet piping of FCV-1129 leaks.	Seal welded pipe to valve.
11953	10/27/88	Chemical Volume Control System, #31 Charging Pump Discharge Valve, 230.	Packing leaks.	Replaced packing.
11990	10/27/88	Weld Channel Penetration Pressurization System, Zone III N2 Backup Regulator, PCV-1198.	Cannot be adjusted.	Replaced valve internals.

MONTHLY MAINTENANCE CATEGORY I REPORT

October 1988
MONTH

WR#	DATE	EQUIPMENT	MALFUNCTION	CORRECTIVE ACTION
13930	10/28/88	Chemical Volume Control System, Demineralizer Diversion Temperature Control Valve, TCV-149.	Valve flanges leaks.	Replaced gaskets.
11508	10/28/88	Main Steam System, Main Steam Isolation Valve, MS-1-32.	Wire insulation damaged.	Applied heat shrink to damaged section of wire.
11546	10/28/88	Primary Sampling System, Valves 956A,B,D,E,G,H, 1526.	Missing exhaust ports on the SOV's.	Installed exhaust ports.
13964	10/31/88	Emergency Diesel Generator, #31 EDG Service Water Inlet Pressure Relief Valve.	3 of 4 flange nuts were cadmium plated.	Replaced nuts.
11441	10/31/88	Component Cooling Water (CCW) System, CCW to Excess Letdown Heat Exchanger Isolation Valve, 798.	Damaged sealtite.	Replaced sealtite.
11560	10/31/88	Safety Injection System, Safety Injection Pump Pressure Transmitter, PT-923.	Instrument tubing bent.	Replaced tubing.
14531	10/31/88	Containment Building, 95ft. Airlock, Door Seals.	Outer door seals leaks.	Replaced seal gaskets.

SUMMARY OF OPERATING EXPERIENCE

OCTOBER 1988

Indian Point Unit No. 3 was synchronized to the bus for a total of 301.25 hours, producing a gross generation of 278,590 MWe.

On October 9, 1988, after 117 days of continuous operation, a unit trip occurred at 1852 hours. The trip was initiated by a loss of auto stop oil in the main turbine generator. After investigation it was determined that fatigue failure of the locking setscrew that restricts movement of the governor impeller assembly led to the displacement of the governor impeller assembly, moving and misaligning the overspeed trip mechanism. This allowed a mechanical drain valve to bleed-off the auto stop oil pressure. The unit then proceeded to a cold shutdown condition and reached cold shutdown on October 11, at 1840 hours.

The main turbine generator was refurbished with a new impeller, sleeve, stub shaft and locking setscrew and was tested satisfactorily. The main turbine generator overspeed trip mechanism was re-assembled, realigned, adjusted and was tested satisfactorily.

The unit was brought above cold shutdown on October 12, at 2256 hours. The reactor was brought critical on October 15, at 0335 hours and the unit was synchronized to the bus at 1216 hours for an eight (8) hour thermal stabilization. At 2128 hours the unit was taken off the bus, in a controlled shutdown, in order to perform necessary main turbine overspeed trip tests.

After the overspeed trip tests were completed, the unit was synchronized to the bus on October 16, at 1618 hours. The unit achieved full load on October 17, at 0900 hours.

On October 19, at 2026 hours, control room operators received a Process Radiation Monitor Alarm for R-15 Steam Jet Air Ejector. After taking samples of the Air Ejector effluent, plant personnel verified that there was a two (2) GPM primary-to-secondary leak in No. 31 Steam Generator. Upon this determination a controlled unit shutdown commenced and a Notification of an Unusual Event (NUE) was declared at 2325 hours.

The unit was taken off the bus on October 20, at 0129 hours, and the reactor was shutdown at 0135 hours. The unit proceeded to a cold shutdown condition in order to facilitate repairs. The NUE was secured at 0710 hours. Cold shutdown was reached at 1100 hours.

The unit remained in a cold shutdown condition for the remainder of the reporting period while maintenance was being performed.

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



November 3, 1988
IP3-88-065
IP3-88-253H

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

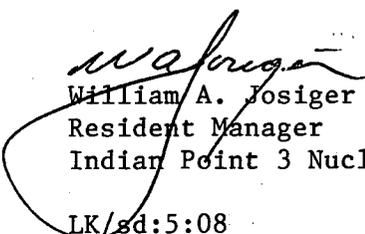
U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Mail Station PI-137
Washington, D.C. 20555

Dear Sir:

Enclosed you will find the monthly operating report relating to
Indian Point 3 Nuclear Power Plant for the month of ~~November~~, 1988.

OCT.

Very truly yours,


William A. Josiger
Resident Manager
Indian Point 3 Nuclear Power Plant

LK/sd:5:08
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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