

**OPERATING DATA REPORT**

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

**OPERATING STATUS**

1. Unit Name: Indian Point No. 3 Nuclear Power Plant
2. Reporting Period: February 1986
3. Licensed Thermal Power (MWt): 3025
4. Nameplate Rating (Gross MWe): 1013
5. Design Electrical Rating (Net MWe): 965
6. Maximum Dependable Capacity (Gross MWe): 1000
7. Maximum Dependable Capacity (Net MWe): 965
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

|       |
|-------|
| Notes |
|-------|

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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  | 672          | 1,416        | 83,281         |
| 12. Number Of Hours Reactor Was Critical   | 657.12       | 1,401.12     | 48,668.50      |
| 13. Reactor Reserve Shutdown Hours   | 0            | 0            | 0              |
| 14. Hours Generator On-Line  | 656.92       | 1,400.92     | 47,034.22      |
| 15. Unit Reserve Shutdown Hours  | 0            | 0            | 0              |
| 16. Gross Thermal Energy Generated (MWH)   | 1,981,394.93 | 4,236,360.82 | 125,014,135.93 |
| 17. Gross Electrical Energy Generated (MWH)  | 659,960      | 1,408,120    | 38,972,655     |
| 18. Net Electrical Energy Generated (MWH)  | 638,105      | 1,361,905    | 37,376,544     |
| 19. Unit Service Factor  | 97.8         | 98.9         | 56.5           |
| 20. Unit Availability Factor   | 97.8         | 98.9         | 56.5           |
| 21. Unit Capacity Factor (Using MDC Net)   | 98.4         | 99.7         | 48.52 *        |
| 22. Unit Capacity Factor (Using DER Net)   | 98.4         | 99.7         | 46.5           |
| 23. Unit Forced Outage Rate  | 2.2          | 1.1          | 19.2           |
| 24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): * Weighted Average<br>Steam Generator Inspection Outage Est. Late April, 1986 |              |              |                |

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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 | _____ | _____ |

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AVERAGE DAILY UNIT POWER LEVEL

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

MONTH February 1986

| DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) |
|-----|--|-----|--|
| 1   | <u>974</u>                             | 17  | <u>973</u>                             |
| 2   | <u>973</u>                             | 18  | <u>972</u>                             |
| 3   | <u>969</u>                             | 19  | <u>971</u>                             |
| 4   | <u>974</u>                             | 20  | <u>971</u>                             |
| 5   | <u>975</u>                             | 21  | <u>970</u>                             |
| 6   | <u>975</u>                             | 22  | <u>972</u>                             |
| 7   | <u>974</u>                             | 23  | <u>970</u>                             |
| 8   | <u>976</u>                             | 24  | <u>969</u>                             |
| 9   | <u>976</u>                             | 25  | <u>969</u>                             |
| 10  | <u>973</u>                             | 26  | <u>967</u>                             |
| 11  | <u>972</u>                             | 27  | <u>971</u>                             |
| 12  | <u>971</u>                             | 28  | <u>344</u>                             |
| 13  | <u>970</u>                             | 29  | <u>-----</u>                           |
| 14  | <u>971</u>                             | 30  | <u>-----</u>                           |
| 15  | <u>972</u>                             | 31  | <u>-----</u>                           |
| 16  | <u>973</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 3-02-86  
 COMPLETED BY L. Kelly  
 TELEPHONE 914-739-8200

REPORT MONTH February 1986

| No. | Date   | Type <sup>1</sup> | Duration (Hours) | Reason <sup>2</sup> | Method of Shutting Down Reactor <sup>3</sup> | Licensee Event Report # | System Code | Component Code <sup>5</sup> | Cause & Corrective Action to Prevent Recurrence  |
|-----|--------|-------------------|------------------|---------------------|--|-------------------------|-------------|-----------------------------|--|
| 01  | 860228 | F                 | 15.08            | A                   | 3  | 86-001-00               | IC          | RELAYX A                    | While conducting a turbine independent electrical overspeed protection system (IEOPS) analog test a stuck blocking relay (LTB-1) in the IEOPS circuit caused main turbine generator steam stop and control valves to close. This caused steam generator levels to shrink below trip set point. |

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 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)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

<sup>4</sup>  
 Exhibit F- Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

<sup>5</sup>  
 Exhibit H- Same Source

## MONTHLY MAINTENANCE CATEGORY I REPORT

February 1986  
MONTH

| WR#  | DATE     | EQUIPMENT  | MALFUNCTION   | CORRECTIVE ACTION                                      |
|------|----------|--|---|--|
| 7601 | 02/03/86 | V.C. Part./Gas Monitors<br>R-11/R-12                           | Gasket on filter housing needs<br>replacement.          | Replaced gasket.                                       |
| 7445 | 02/20/86 | Steam Generator Blowdown<br>Sample Valve PCV-1226              | Limit switch inoperative.                               | Adjusted arm of limit switch.                          |
| 7496 | 02/20/86 | Plant Vent Magnehelic<br>Indicator                             | Leaking indicator fittings.                             | Replaced fitting valves and<br>tubing.                 |
| 7574 | 02/20/86 | Fan Cooler Units Service<br>Water Flow Control Valve<br>1103   | Tap offs leak.  | Tightened hub plates.                                  |
| 7731 | 02/20/86 | Low Pressure Steam Dump<br>Isolation Valve MOV-76              | Valve inoperative.                                      | Reseated valve.  |
| 7792 | 02/20/86 | No. 32 Emergency Diesel<br>Generator Starting Air<br>Regulator | Regulator will not adjust<br>to lower pressure setting. | Disassembled regulator, cleaned<br>and adjusted parts. |
| 7798 | 02/21/86 | No.32 Spent Fuel Pit Pump                                      | High vibration.   | Installed new shaft bearing oil<br>seals.              |
| 7838 | 02/21/86 | Plant Vent Particulate<br>Monitor R-13 Blower                  | Cannot adjust flow.                                     | Rebuilt blower.  |
| 7875 | 02/26/86 | No. 35 Service Water Pump                                      | Broken shaft.   | Replaced pump/motor assembly.                          |
| 9660 | 02/26/86 | No. 35 Service Water Zurn<br>Strainer                          | High pressure differential.                             | Cleaned screen.  |
| 7886 | 02/27/86 | No. 32 Charging Pump   | Packing leak.   | Repacked charging pump No. 32.                         |

## MONTHLY MAINTENANCE CATEGORY I REPORT

February 1986  
MONTH

| <u>WR#</u> | <u>DATE</u> | <u>EQUIPMENT</u>   | <u>MALFUNCTION</u>                    | <u>CORRECTIVE ACTION</u>       |
|------------|-------------|--|---------------------------------------|--------------------------------|
| 7486       | 02/28/86    | No. 33 Condensate Pump   | Packing leakage.                      | Repack No. 33 condensate pump. |
| 7793       | 02/28/86    | Pressure Transmitter-142<br>Stop Valve 229                                   | Weld leak.                            | Rewelded leaking area.         |
| 7864       | 02/28/86    | Instrument Air Hose to<br>No. 33 Main Steam Isolation<br>Valve.              | Air hose leaks.                       | Replaced hose.                 |
| 7882       | 02/28/86    | Instrument Air Hose to<br>No.'s 31, 32 and 34 Main<br>Steam Isolation Valves | Air hoses leak.                       | Replaced hoses.                |
| 7892       | 02/28/86    | No. 34 Main Steam Isolation<br>Valve.  | Air cylinder needs to<br>be replaced. | Installed new air cylinder.    |
| 7898       | 02/28/86    | No. 31 Main Steam Isolation<br>Valve.  | Air cylinder needs to<br>be replaced. | Installed new air cylinder.    |

## MONTHLY I &amp; C CATEGORY I REPORT

February 1986  
MONTH

| WR#  | DATE     | EQUIPMENT  | MALFUNCTION                             | CORRECTIVE ACTION               |
|------|----------|--|---|---------------------------------|
| 5121 | 02-07-86 | Rams Building Area Rad Monitor R-52                | Broken sample control relay.            | Replaced relay.                 |
| 5170 | 02-07-86 | 480 Volt Bus 3A Under-voltage Relay 27-3X-3A       | Relay coil open.                        | Replaced voltage sensing relay. |
| 5038 | 02-11-86 | Component Cooling Water Rad Monitor R-17B Recorder | Recorder indicated low.                 | Replaced drive resistors.       |
| 5040 | 02-11-86 | R-19 Steam Generator Blowdown Monitor              | Recorder out-of-calibration.            | Recalibrated recorder.          |
| 5081 | 02-11-86 | Particulate Rad. Monitor R-45                      | Erratic readings.                       | Recalibrated drawer.            |
| 5139 | 02-11-86 | RE-102 Sample Monitor R-52                         | Paper advance not functioning properly. | Replaced blown fuse.            |
| 5127 | 02-13-86 | Pressurizer Liquid Sample Valve 956D               | Valve will not operate.                 | Replaced blown fuse.            |
| 5060 | 02-14-86 | Channel I Iodine Monitor                           | Recorder indicated high.                | Recalibrated recorder.          |
| 5082 | 02-14-86 | R-45 Particulate Monitor                           | Paper Drive not functioning properly.   | Realigned paper drive.          |
| 5037 | 02-15-86 | Particulate Rad Monitor R-56                       | Audio Alarm inoperable.                 | Adjusted contact.               |
| 5141 | 02-18-86 | Particulate Rad Monitor R-52                       | Ratemeter does not bring up alarms.     | Reset reflash module.           |
| 4827 | 02-20-86 | Steam Generator Blowdown Monitor R-19              | Alarm inoperative.                      | Replaced light and buzzer.      |

## Summary of Operating Experience

February 1986

Indian Point Unit 3 was synchronized to the bus for a total of 656.92 hours producing a gross generation of 659,960 for this reporting period.

On February 28th at 0855 hours while conducting a monthly periodic test (3PT-M12, Turbine Independent Electrical Overspeed Protection System (IEOPS) Analog Test) a stuck blocking relay (LTB-1) in the IEOPS circuit caused main turbine generator steam stop and control valves to close. This caused decreased levels in all steam generators with No. 32 Steam Generator reaching its low level setpoint first and tripping the reactor.

The relay was replaced and retested and the reactor was brought critical at 2348 hours of the same day, but the main generator remained off-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



William A. Josiger  
Resident Manager

March 14, 1986  
IP3-LK-050H  
IP3-WAJ-018Z

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

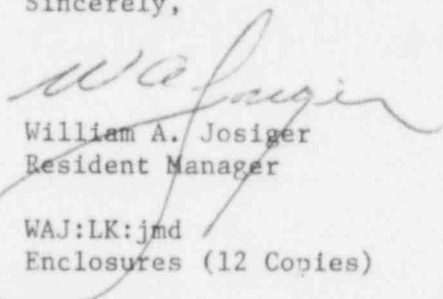
Director, Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

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 February, 1986.

Sincerely,

  
William A. Josiger  
Resident Manager

WAJ:LK:jmd  
Enclosures (12 Copies)

cc: Dr. Thomas E. Murley, Regional Administrator  
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King of Prussia, Pennsylvania 19406

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