

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No. 50-155/82-20(DPRP)

Docket No. 50-155

License No. DPR-6

Licensee: Consumers Power Company  
212 West Michigan Avenue  
Jackson, MI 49201

Facility Name: Big Rock Point Nuclear Plant

Inspection At: Charlevoix, MI

Inspection Conducted: November 23 through December 31, 1982

Inspectors: *D.C. Boyd for*  
G. C. Wright

1-21-83

*M.E. Parker*  
M. E. Parker

1-21-83

Approved By: *D.C. Boyd*  
D. C. Boyd, Chief  
Projects Section 2A

1-21-83

Inspection Summary

Inspection on November 23 through December 31, 1982 (Report No. 50-155/82-20(DPRP))

Areas Inspected: Routine, unannounced inspection by resident inspectors of followup on outstanding inspection items; operational safety verification; monthly maintenance observation; monthly surveillance observation; follow up on LER and plant trips. The inspection involved a total of 253 inspector-hours onsite by two NRC inspectors including 10 inspector-hours onsite during off-shifts.

Results: In the areas inspected no items of noncompliance or deviations were identified.

## DETAILS

### 1. Persons Contacted

- \*D. P. Hoffman, Plant Superintendent
- \*A. C. Sevener, Operations Supervisor
  - D. E. DeMoor, Technical Engineer
  - R. Andrews, Training Supervisor
- \*G. H. R. Petitjean, Technical Superintendent
- \*R. Abel, Operations and Maintenance Superintendent
- \*G. Withrow, Maintenance Supervisor
- \*R. Barnhart, Q.A. Analyst
- \*C. Axtell, Chemistry and Health Physics Superintendent

The inspectors also contacted other licensee personnel including: Shift Supervisors, Control Operators and Maintenance Personnel.

\*Denotes those present at the exit interview.

### 2. Followup on Outstanding Inspection Items

Through direct observations, discussions with licensee personnel and review of records, the following items were reviewed to determine that appropriate actions have been accomplished.

- a. (Closed) Open Item (50-155/81-10-13): NUREG-0737 Item II.K.3(25B) Per letter dated October 27, 1982 from D. M. Crutchfield (NRR) to D. Vandewalle (CPCo) the modifications proposed by this item are not required at Big Rock Point.
- b. (Closed) Open Item (50-155/80-17-01): The licensee's response to IE Bulletin 79-03 indicated that no welded SA-312 type 304 stainless steel piping is used at Big Rock Point. Since Bulletin 79-03A asked for further information on the same subject as Bulletin 79-03, Bulletin 79-03A is considered to be not applicable to Big Rock Point. This open item and Bulletin 79-03A are both considered closed.

### 3. Operational Safety Verification

The inspector observed control room operations, reviewed applicable logs and conducted discussions with control room operators during the months of November and December. The inspector verified the operability of selected emergency systems, reviewed tagout records and verified proper return to service of affected components. Tours of the reactor buildings and turbine buildings were conducted to observe plant equipment conditions, including potential fire hazards, fluid leaks, and excessive vibrations and to verify that maintenance requests had been initiated for equipment in need of maintenance. The inspector by observation verified that the physical security plan was being implemented in accordance with the station security plan.

The inspector observed plant housekeeping/cleanliness conditions and verified implementation of radiation protection controls. During the months of November and December, the inspector walked down the accessible portions of the core spray, containment spray and RDS systems to verify operability.

These reviews and observations were conducted to verify that facility operations were in conformance with the requirements established under technical specifications, 10 CFR, and administrative procedures.

No items of noncompliance were identified.

#### 4. Monthly Maintenance Observation

Station maintenance activities of safety related systems and components listed below were observed/reviewed to ascertain that they were conducted in accordance with approved procedures, regulatory guides and industry codes or standards and in conformance with technical specifications.

The following items were considered during this review: the limiting conditions for operation were met while components or systems were removed from service; approvals were obtained prior to initiating the work; activities were accomplished using approved procedures and were inspected as applicable; functional testing and/or calibrations were performed prior to returning components or systems to service; quality control records were maintained; activities were accomplished by qualified personnel; parts and materials used were properly certified; radiological controls were implemented; and, fire prevention controls were implemented.

Work requests were reviewed to determine status of outstanding jobs and to assure that priority is assigned to safety related equipment maintenance which may affect system performance.

The following maintenance activities were observed/reviewed:

P.M. on control rod drive selector valves.

Following completion of maintenance on the control rod drive selector valves, the inspector verified that these systems had been returned to service properly.

#### 5. Monthly Surveillance Observation

The inspector observed technical specifications required surveillance testing on the area radiation monitors and RDS system and verified that testing was performed in accordance with adequate procedures, that test instrumentation was calibrated, that limiting conditions for operation were met, that removal and restoration of the affected components were accomplished, that test results conformed with technical specifications and procedure requirements and were reviewed by personnel other than the individual directing the test, and that any deficiencies identified

during the testing were properly reviewed and resolved by appropriate management personnel.

The inspector also witnessed portions of the following test activities: turbine bypass valve

No items of noncompliance were identified.

6. Licensee Event Reports Followup

Through direct observations, discussions with licensee personnel, and review of records, the following event reports were reviewed to determine that reportability requirements were fulfilled, immediate corrective action was accomplished, and corrective action to prevent recurrence had been accomplished in accordance with technical specifications.

- a. (Closed) LER 81-13: "Removal of 1 RDS channel from operation for trouble shooting."
- b. (Closed) LER 81-25: "Leak in cation tank"
- c. (Closed) LER 81-27: "Contamination of demineralized tank water"
- d. (Closed) LER 82-05: "Leak in Relief Valve fitting in CRD System"
- e. (Closed) LER 82-13: "Inadequate filling of Steam Drum Level Monitor reference legs."
- f. (Closed) LER 82-14: "Leak in chemical waste tank recycle line."
- g. (Closed) LER 82-16: "Low specific gravity on UPS 'C' battery cell"
- h. (Closed) LER 82-18: "Containment Heating and Cooling System Heat exchanger tube leak"
- i. (Closed) LER 82-19: "Emergency Diesel Generator failure to start"
- j. (Closed) LER 82-20: "Personnel error resulting in 2 of 4 RDS loops not returned to service"
- k. (Closed) LER 82-22: "Code violation on firewater system"
- l. (Closed) LER 82-24: "RDS Timer failure to trip"

No items of noncompliance were identified.

7. Plant Trips

Following the plant trip on December 7, 1982, the inspector ascertained the status of the reactor and safety systems by observation of control room indicators and discussions with licensee personnel concerning plant

parameters, emergency system status and reactor coolant chemistry. The inspector verified the establishment of proper communications and reviewed the corrective actions taken by the licensee.

All systems responded as expected, and the plant was returned to operation on December 9, 1982.

8. Exit Interview

The inspector met with licensee representatives (denoted in Paragraph 1) throughout the month and at the conclusion of the inspection on January 3, 1983 and summarized the scope and findings of the inspection activities.