

U.S. NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT

REGION III

Report No. 50-155/79-09

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 Generating Plant

Inspection At: Big Rock Point Site, Charlevoix, MI

Inspection Conducted: April 24-25, 1979

Inspector: E. W. K. Lee *E. W. K. Lee*

5/9/79

Approved By: *D. H. Danielson*  
D. H. Danielson, Chief  
Engineering Support Section 2

5/10/79

Inspection Summary

Inspection on April 24 and 25, 1979 (Report No. 50-155/79-09)

Areas Inspected: Leakage at Control Rod Drive Penetration No. F2.  
The inspection involved a total of eight inspection-hours onsite by  
one NRC inspector.

Results: No items of noncompliance or deviations were identified.

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## DETAILS

### Persons Contacted

#### Principal Licensee Employees

- R. Abel, Senior Engineer
- \*D. DeMoor, Technical Engineer
- J. Rang, Operations and Maintenance Superintendent

\*Denotes those attending the exit interview.

### Functional or Program Areas Inspected

#### 1. Leakage at Control Rod Drive Penetration No. F2

##### a. Initial Identification by Licensee

During hydrostatic testing of the reactor pressure vessel, the licensee noticed water was leaking at control rod drive penetration No. F2 when the pressure was at 900 psi. The Leakage rate was 8 ml/minute. The hydrostatic test was then abandoned. Leakage appears to cease at ambient condition.

##### b. Actions Being Considered By The Licensee

It is the inspector's understanding that the following actions are being considered by the licensee:

- (1) Take samples of scales on the bottom head of the reactor pressure vessel;
- (2) Perform hydrostatic test at 500 psi; 900 psi and 1500 psi to check for possible leaks of all the CRD penetrations;
- (3) Build a mock-up to qualify nondestructive testing;
- (4) Pressurize penetration F2 from the outside and check for bubbles inside the reactor pressure vessel with a remote camera.

##### c. Visual Examination of CRD Penetrations

The inspector visually inspected the CRD penetrations. It was determined that (1) discoloration is severe around penetration F2; (2) discoloration around other penetrations is evident but not as severe as penetration F2 and (3) leakage is not evident in penetration F2.

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No items of noncompliance or deviations were identified.

Exit Interview

The inspector met with the licensee representatives (denoted in the Persons Contacted paragraph) on April 25, 1979. The inspector summarized the scope and findings of the inspection. The licensee acknowledged the information.

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