

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

REGION III

Report No. 50-155/77-16

Docket No. 50-155

License No. DPR-6

License: Consumers Power Company
212 W. Michigan Avenue
Jackson, MI 59201

Facility Name: Big Rock Point Nuclear Plant

Inspection at: Big Rock Site, Charlevoix, MI

Inspection Conducted: October 20 and 21, 1977

Inspector: C. M. *C. M. Erb*

11/8/77

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

11/8/77

Inspection Summary

Inspection on October 20 and 21, 1977 (Report No. 50-155/77-16)

Areas Reviewed: In Service inspection activities, including qualification and records, pipe hangers and snubbers; NDE records for Class I and high energy piping; nonconformance and repair action resulting from the in service inspection; preservice inspection records for the Core Spray System modification. This inspection involved a total of 9 onsite inspector hours by one NRC inspector.

Results: No items of noncompliance or deviations were identified.

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DETAILS

Persons Contacted

Consumers Power Company (CP)

R. E. Schrader, Technical Superintendent
J. P. Flynn, Operations Superintendent
G. D. Gilbody, Quality Assurance Engineer
D. E. DeMoor, Technical Engineer

All the above people were present at the exit interview.

Functional or Program Areas Inspected

1. Inservice Inspection Activities

The RIII inspector reviewed inservice inspection records and area pipe restraints, hangers and mechanical seismic shock arresters. Due to a containment leak rate test and initiation of power cycle, hardware examination was not performed by the inspector.

- a. The reactor depressurization system (RDS), was installed utilizing mechanical shock arresters procured from Pacific Scientific Company. Qualification results for a 500 lb arrester S/N 002, Model 1801104-03 were examined. The ultimate load, acceleration arrest (.02G max) load cycling and response to environment conform to the specification requirements. Site personnel visually examined two installed arresters during this outage. No evidence of wear, deformation or deterioration was observed.
- b. The following corrective action reports relating to welds and pipe supports requiring rework or repair were reviewed.

<u>Number</u>	<u>System</u>	<u>Action</u>
D-ROP-083077-1	RCS pipe support	Weld cracks, repaired
D-RRS-082377-1	MRS pipe restraints	Loose bolts, tighten double nuts
D-RRS-092077-1	Pipe weld, emerg. cond.	Cut out, rewelded, NDE O.K.
077-111	Lug weld	Approved Engineer Review
A-BRP-77-4	10 year ISI plan	Revision 3, to present Class 1 and 2 system plan

All corrective actions appear to have been completed prior to startup of the plant.

Within the areas examined, no items of noncompliance or deviations were identified.

2. Modification of Core Spray System

In order to attain proper head for the core spray system pumps, two 4" valves and associated pipe were raised several feet. This involved making seven 4" welds and one 1" socket weld. The system is made of 4" diameter carbon steel (.437" wall thickness) pipe. The Core Spray System welds are categorized for preservice examination with six welds being Class 1 and four welds Class 2. The applicable requirements for construction are ANSI B 31.1.0 and Quality Control acceptance is to ND5000 of ASME Code Section III, 1974 Edition. Welding procedure GT-1-1 was used for the root pass and SM-1-1 for completion. Pipe materials are SA106-B. Seven welders were involved in the modification.

The hydrotest was performed at 1485 psi and 100^oF which is acceptable to Section XI. Procedure NDT-PT-01, Revision 0, was used to penetrant test the welds. Certifications for pipe and welding materials are acceptable. All procedures and personnel were properly qualified to ASME Code Section IX and SNT-TC-1A requirements. Within the areas examined, no items of noncompliance or deviations were identified.

3. Exit Interview

The inspector met with licensee representatives (denoted in the Persons Contacted paragraph) at the conclusion of the inspection on October 21, 1977. The inspector summarized the purpose and findings of the inspection. The licensee acknowledged the findings as reported.