

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No. 50-455/86023(DRS)

Docket No. 50-455

License No. CPPR-131

Licensee: Commonwealth Edison Company
Post Office Box 767
Chicago, Ill 60690

Facility Name: Byron Station, Unit 2

Inspection At: Byron Site, Byron, Ill

Inspection Conducted: July 17 through September 29, 1986

Inspectors: *M. L. McCormick-Barger*
M. L. McCormick-Barger

10/7/86
Date

P. G. Brochman
P. G. Brochman

10/7/86
Date

W. E. Gunther
W. E. Gunther

10/7/86
Date

W. J. Key
for W. J. Key

10/7/86
Date

R. M. Lerch
R. M. Lerch

10/7/86
Date

J. A. Malloy
J. A. Malloy

10/7/86
Date

Approved By: *M. A. Ring*
M. A. Ring, Chief
Test Programs Section

10/7/86
Date

Inspection Summary

Inspection on July 17 through September 29, 1986 (Report No. 50-455/86023(DRS))

Areas Inspected: Routine, announced inspection to review licensee action on previous inspection findings; evaluations of preoperational test results, pre-operational test results verification and reactor coolant system hydrostatic test results evaluation.

Results: No violations or deviations were identified.

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DETAILS

1. Person Contacted

- *R. Querio, Station Manager
- *W. Burkamper, Quality Assurance Supervisor, Operations
- *T. Joyce, Assistant Superintendent, Technical Services
- *E. Falb, Unit 2 Testing Supervisor
- *P. Devine, Unit 2 Assistant Technical Supervisor, Test Review Board
- *G. Grabins, Unit 2 Assistant Testing Supervisor
- *M. Whitmore, GSEP Coordinator
- *A. Chernick, Regulatory Assurance Supervisor
- *J. Pauche, Regulatory Assurance Group Leader
- *J. Langan, Regulatory Assurance Staff
- *J. Snyder, Quality Assurance Inspector
- *K. Yates, Onsite Nuclear Safety

*Denotes personnel present at the exit interview.

Additional station technical and administrative personnel were contacted by the inspectors during the course of the inspection.

2. Licensee Action on Previous Inspection Items

(Closed) Unresolved Item (455/85045-03(DRS)): Testing of runout orifices in the safety injection headers. The inspector reviewed Special Procedure No. SPP-86-003 to verify that the 2A and 2B Safety Injection (SI) and the 2A and 2B Chemical and Volume Control (CV) pumps would be protected against runout by orifices in the branch lines which lead to the Reactor Coolant System (RCS). The system configuration consists of a locked throttle valve downstream of an orifice plate, which are located in each of the branch lines for SI system pipes which connect to the RCS cold and hot legs, and for the CV system pipes which connect to the RCS cold legs. During the test, one throttle valve at a time was fully opened and the pump flow and differential pressure were measured to verify that runout conditions did not exist; the throttle valve was then returned to its original position. A review of the test results indicated that the orifices would protect the pumps from runout should a single failure of the throttle valves occur. Based on the inspector's review, this item is considered closed.

3. Preoperations Test Results Evaluation

The inspectors reviewed the results of the below listed preoperational test procedures to verify all test changes were identified and approved in accordance with administrative procedures; all test deficiencies were appropriately resolved, reviewed by management, and retested as required; test results were evaluated by appropriate engineering personnel and specifically compared with acceptance criteria; data was properly recorded, signed, dated, and documented as test deficiencies if out of tolerance; test packages were reviewed by QA for adequacy of contents; and test results were approved by appropriate personnel:

DO 24.62, "Diesel Fuel Oil-Auxiliary Feedwater Pump Fuel Oil Supply"

RP 68.61, "Reactor Protection and Engineered Safeguards Logic Test"

RP 68.62, "Reactor Protection Turbine Runback"

RH 67.60, "Residual Heat Removal System"

With respect to the results evaluation of RP 68.61, RP 68.62, and RH 67.60, the inspectors had not completed the reviews at the time of the inspection exit interview. These reviews will be documented in a subsequent inspection report.

No violations or deviations were identified.

4. Preoperational Test Results Verification

The inspectors reviewed the following preoperational test procedures and verified that results were reviewed against approved acceptance criteria and an evaluation of the test results had been performed in accordance with Regulatory Guide 1.68 and the licensee's Startup Manual:

VP 93.60, "Containment Ventilation"

EM 28.60, "Thermal Expansion-Primary Side"

FH 32.62, "Fuel Handling Building Crane"

HC 39.60, "Containment Polar Crane"

LM 133.60, "Reactor Loose Parts Monitor"

RY 69.60, "Reactor Coolant Pressurizer"

RF 66.60, "Containment Floor Drain"

With the exception of VP 93.60, the inspectors had not completed the verification reviews at the time of the inspection exit interview. These reviews will be documented in a subsequent inspection report.

No violations or deviations were identified.

5. Reactor Coolant System Hydrostatic Test

The inspectors began a review of the test results for the Unit 2 Reactor Coolant System Hydrostatic Test which was completed on October 11, 1985. The review, which was not complete at the time of the inspection exit interview, will be documented in a subsequent inspection report.

No violations or deviations were identified.

6. Exit Interview

The inspectors met with licensee representatives (denoted in Paragraph 1) on September 26, 1986, to discuss the scope and findings of the inspection. The licensee acknowledged the statements made by the inspectors with respect to items discussed in the report. The inspectors also discussed the likely informational content of the inspection report with regard to documents or processes reviewed by the inspectors during the inspection. The licensee did not identify any such documents/processes as proprietary.