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

Region I

Report No. 50-333/79-06

Docket No. 50-333

License No. DPR-59 Priority Category C

Licensee: Power Authority of the State of New York
10 Columbus Circle
New York, New York 10019

Facility Name: James A. Fitzpatrick Nuclear Power Plant

Inspection at: Scriba, New York

Inspection conducted: April 30-May 4, 1979

Inspectors: J. P. Durr 6/13/79
J. P. Durr, Reactor Inspector date signed

Approved by: L. E. Tripp 6/13/79
L. E. Tripp, Chief Engineering Support Section No. 1, RC&ES Branch date signed

Inspection Summary:

Inspection on April 30-May 4, 1979 (Report No. 50-333/79-06)

Areas Inspected: Routine, unannounced inspection by a regional based inspector of licensee pipe support verification program in support of the Show Cause Order; preliminary activities regarding expansion anchor testing per Bulletin 79-02; and verification of the licensee's findings per Bulletin 79-03. The inspection involved 27.5 inspector-hours on-site by one NRC inspector.

Results: Of the three areas inspected, no items of noncompliance were identified.

DETAILS

1. Persons Contacted

Power Authority of the State of New York

*R. Baker, Maintenance Supervisor
*R. Burns, Acting Superintendent of Power
*M. Cosgrove, Site Quality Assurance Engineer
*H. Fish, Technical Services Superintendent
*J. Hoddy, Plant Reliability and Performance Supervisor
J. Leonard, Resident Manager
*R. Liseno, Plant Engineer
*G. Nott, Outage Coordinator

*Denotes those persons present at the exit interview.

2. Pipe Support Verification Program

The NRC issued the Show Cause Order, dated March 13, 1979, addressing potential piping support deficiencies in safety-related systems. The purpose of this inspection was to monitor the licensee's activities to verify the "as built" configuration of pipe supports in the systems identified for reanalysis. To accomplish this verification, the licensee divided the plant into 168 areas consisting of 103 piping isometric drawings designated MSK's. Each accessible pipe support within the individual MSK was measured to establish its relative location and its conformance with the design drawing. At the time of this inspection, the licensee had completed 150 of 168 areas, 85 of 103 MSK's, and drafted 41 of the 85 drawing changes.

The NRC inspector selected 15 pipe supports in 3 systems completed by the licensee for verification of the installed configuration. The inspection consisted of visual examination for condition and comparison of selected dimensional characteristic with those specified by the applicable drawings. Deviations from the specified drawing dimensions were checked against the data compiled by the licensee to confirm the effectiveness of the licensee's program. The following supports were examined:

System	Support Number	Remarks
RHR	H10-24	Item No. 1, 1/2" x 9" x 2' plate, corner missing
RHR	H10-25	Item Nos. 4 and 5, specifies 1-3/8" x 1/2" x 8", actual 1-7/8" x 1/2" x 14"; section C-C is not constructed per drawing.

RHR	H10-38	Section B-B, top-right nut loose; base plate is not grouted.
RHR	H10-39	Item 11 specifies an 8" channel, actual 4" channel.
RHR	H10-40	Base plate is not grouted.
RHR	H10-41	Base plate is not grouted.
RHR	H10-42	No comment.
RHR	H10-43	No comment.
RHR	H10-500	Section A-A shows a pipe clamp welde "all-around", clamp is not welded.
CS	H14-21	No comment.
CS	H14-26	Item 3 specifies 16-3/8", actual 21"; Item 6 specifies 18-1/2", actual 17-3/4"; assembly of box frame not per drawing.
CS	H14-42	Base plate bolts loose; trunnion to base plate weld exhibits undercut, porosity, undersize, and nonuniformity; 1/4" gap between base plate and wall.
CS	H14-42A	Item 9 is bent; Item 8 to 6 gap is 1/4"; specified is 1/16"; base plate is pulled away from wall.
CLCW	H15-2	Two pipes supported by hanger, only one shown; base plate to wall has 3/8" shim.
CLCW	H15-5	Box frame members specify "weld all-around", members not fully welded.

Comparison of the foregoing data with that compiled by the licensee showed acceptable correlation. This matter is considered unresolved pending evaluation and disposition of the foregoing deficiencies (333/79-06-01).

During the examination of the core spray piping system supports, H14-42 and H14-42A, it appears from the bent components, loose bolts, hangers pulled away from the wall, and crushed insulation that the piping had experienced a dynamic transient such as a water hammer. A review of past event reports and plant records by the licensee could not establish if this condition had been identified

and evaluated previously. The licensee issued Work Requests Nos. 1425 and 1426 describing the condition. This matter is considered unresolved pending evaluation, disposition, and correction of the conditions (333/79-06-02).

The licensee stated that, due to the similar nature of Bulletin 79-04, Incorrect Weights for Velan Swing Check Valves, this bulletin would be addressed concurrently with the pipe stress analysis.

3. Pipe Support Base Plate Designs Using Concrete Expansion Anchor Bolts (Bulletin 79-02)

The licensee has developed a preliminary procedure for testing the adequacy of installed concrete expansion anchor bolts. The licensee was evaluating the feasibility of the procedure at the time of this inspection. The licensee stated that the testing phase for inaccessible pipe supports would be accomplished prior to the facility returning to power operation.

4. Longitudinal Weld Defects in ASME SA-312 Type 304 Stainless Steel Pipe (Bulletin 79-03)

Bulletin 79-03 identified longitudinal welded stainless steel pipe manufactured by the Youngstown Welding and Engineering Company as possibly containing defects. The licensee performed a document review to verify that the aforementioned manufactured pipe was not used at the Fitzpatrick facility.

The NRC inspector reviewed the original pipe construction specification, AP-23 Specification for Furnishing, Delivering, and Erection of Piping, and determined that SA-312 Type 304 piping was not specified for use at Fitzpatrick. He reviewed 192 pipe material certifications and verified that Youngstown Welding and Engineering Company was not a supplier of pipe to the Fitzpatrick facility. The inspector had no further questions concerning this matter.

5. Unresolved Items

Unresolved items are items about which more information is required to ascertain whether they are acceptable items, items of noncompliance, or deviations. Two unresolved items disclosed during this inspection are discussed in Section 2.

6. Exit Interview

The inspector met with the licensee representatives (denoted in Section 1) on May 4, 1979. The inspector summarized the purpose and scope of the inspection and findings.