

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report No. 50-289/84-13

Docket No. 50-289

License No. DPR-50 Priority -- Category C

Licensee: GPU Nuclear Corporation
P.O. Box 480
Middletown, Pennsylvania 17057

Facility Name: Three Mile Island Nuclear Station, Unit 1

Inspection At: Middletown, Pennsylvania 17057

Inspection Conducted: May 1-4, 1984

Inspectors: H. I. Gregg
H. I. Gregg, Lead Reactor Engineer

May 21, 1984
date

Approved by: Clifford J. Anderson
C. J. Anderson, Chief, Plant Systems
Section, EPB

5/23/84
date

Inspection Summary: Inspection on May 1-4, 1984 (Report No. 50-289/84-13)

Areas Inspected: Routine unannounced inspection of licensee's activities involving snubbers. The primary purpose of the inspection was to review the licensee's recent proposed snubber Technical Specification submittal, the surveillance, testing and maintenance procedures, and the snubber installations and testing equipment. The inspection involved 28 inspection hours on site by one region based inspector.

Results: No violations were identified.

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DETAILS

1.0 Persons Contacted

GPU Nuclear Corporation

- *R. Barley, Lead Mechanical Engineer
- *R. Ezzo, Engineer I
- *M. Feary, Preventive Maintenance Senior Foreman
- R. Knight, Senior Licensing Engineer
- *S. Otto, Licensing Engineer
- *J. Pearce, Engineer Senior I
- *S. Pruitt, ISI Supervisor
- *D. Shovlin, Manager Plant Maintenance
- C. Smyth, Supervisor TMI-1 Licensing
- P. Snyder, Preventive Maintenance Manager
- *R. Szczech, Licensing Engineer
- *M. Zeise, QC NDE/Welding Supervisor

U.S. Nuclear Regulatory Commission

- *R. Conte, Senior Resident Inspector
- S. Young, Resident Inspector

*denotes presence at exit meeting.

2.0 Licensee Action on NRC Identified Item

(Closed) NRC IE Circular Item (289/81-CI-05)

The NRC Circular identified the problem of loose bushings in the self aligning ends of snubbers, sway struts and pipe support assemblies. The circular described possible deficiencies where loose bushings could slide out of their mountings due to excessive clearance between the end connection bracket lug arms. The inspector verified that the licensee has completed a snubber inspection and maintenance program to install washers to reduce clearances. The inspector reviewed the licensee's corrective maintenance Job Tickets Nos. CA 064 and CB 873 which completed actions on the snubber end connection clearances. The inspector also reviewed the licensee's Plant Engineering Action Item 81-0307 which provided additional information that snubber bracket clearance shimming was complete and an inspection audit of random pipe struts in the Intermediate and Auxiliary buildings was performed and clearances were determined to be satisfactory. The inspector performed a walkdown audit of installed snubbers and sway struts and verified that clearances were not excessive.

This item is closed.

3.0 Snubbers

The primary objective of this inspection was to review the licensee's proposed snubber Technical Specification (TS) submittal dated February 17, 1984. To accomplish this objective the inspector reviewed the licensee's plant procedures for visual inspection, functional testing and maintenance of hydraulic snubbers; performed a plant walkdown audit of installed snubbers; witnessed the lock up and bleed testing of a repaired snubber; and discussed the proposed TS with cognizant licensee personnel. Each of the inspectors activities during this inspection, including the item described in paragraph 2.0, related to snubbers.

Specific documents reviewed were:

- Surveillance Procedure 1301-9.9, Rev 16, Hydraulic Shock and Sway Suppressors Visual Inspection
- Surveillance Procedure 1303-9.9 Rev. 3, Functional Testing of Hydraulic Snubbers
- Corrective Maintenance Procedures 1410-Y-34 Rev. 4, Repair of Hydraulic Snubbers
- Proposed Snubber TS submittal to NRC dated February 17, 1984.

The inspector reviewed each of these documents and determined that the snubber plant procedures correlated with the existing TS requirements and that a listing of snubbers with snubber number, location, size and stroke and other data is contained in visual inspection procedure 1301.9.9. It was determined that the plant procedures are to undergo further revisions to include changes in snubber load capacity due to new manufacturers information and additional details of the seal replacement program. It was also determined that the procedures would require additional revisions upon approval of the proposed snubber TS submittal. The inspector discussed the proposed snubber TS submittal with cognizant licensee personnel.

The inspectors plant walkdown of installed snubbers and witnessing of the lock-up and bleed testing of a snubber were performed to verify the correlation between the licensee's procedures, TS requirements and installed conditions of the equipment.

No violations were identified during the course of this snubber oriented inspection.

4.0 Exit Meeting

The inspector met with the licensee's representative (identified in paragraph 1.0), at the conclusion of the inspection on May 4, 1984, to summarize the findings of this inspection. The NRC Senior Resident inspector, R. Conte, was also in attendance.

At no time during this inspection was written material provided to the licensee by the inspector.