

15.4.11 Hydraulic Snock Suppressors (Snubbers) Inspection

Applicability

Applies to hydraulic shock suppressors (snubbers) in the following systems:

- a. Decay Heat Removal
- b. Makeup and Purification
- c. Core Flood
- d. Reactor Building Emergency Cooling
- e. Reactor Building Spray
- f. Main steam up to and including main steam isolation valves.
- g. Reactor Coolant System

Objective

To specify the frequency and type of examination which assures the continued integrity of the hydraulic snubbers.

Specification

- A. Inspection will be visual.
- B. Ten percent of the snubbers in each system will be inspected each refueling outage.
- C. Any seals found leaking will be replaced.
- D. At the end of five years, 50% of the snubbers in each system will have been inspected.
- E. At the end of 10 years, 100% of the snubbers in each system will have been inspected.
- F. The results of all inspections and any action taken will be reported to the AEC Directorate of Licensing.

Bases

Inspection of hydraulic shock suppressors (snubbers) in nuclear power plants has revealed that a large percentage of the seals were defective and that defects can recur.

Defects have occurred when a millable gum polyurethane containing plasticizers and additives has been used as a seal in conjunction with silicone based hydraulic fluid. Although these materials are not used in the Crystal River safety-related systems, inspection of all snubbers is required.

References

AEC letter to Mr. J.T. Rodgers dated December 5, 1973.

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