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### 3.14 SHOCK SUPPRESSORS (SNUBBERS)

#### Applicability

Applies to the operability of shock suppressors which are related to plant safety.

#### Objective

To ensure that shock suppressors, which are used to restrain safety related piping under dynamic load conditions, are functional during reactor operation.

#### Specification

- a. The reactor shall not be made critical unless all safety related shock suppressors are operable except as noted in 3.14.b. 6
  
- b. During power operation or recovery from inadvertent trip, if any safety related shock suppressor is found inoperable one of the following actions shall be taken within 72 hours: 6
  1. The inoperable shock suppressor shall be restored to an operable condition or replaced with a spare shock suppressor of similar specifications; or
  2. The fluid line restrained by the inoperable shock suppressor shall, if feasible, be isolated from other safety related systems if otherwise permitted by the Technical Specifications and thereafter operation may continue subject to any limitations by the Technical Specifications for that fluid line; or
  3. Actions shall be initiated to shut down the reactor and the reactor shall be in a hot shutdown condition within 36 hours.

All hydraulic shock suppressors whose seal materials are other than ethylene propylene or other material that has been demonstrated to be compatible with the operating environment shall be visually inspected for operability every 31 days.

Shock suppressors are categorized as "accessible" or "inaccessible". For the purpose of this inspection these two groups may be considered independently and scheduled accordingly.

- b. A representative sample of 10% of the safety related shock suppressors shall be functionally tested for operability including verification of proper piston movement, lockup, and bleed at each refueling. For each shock suppressor or subsequent shock suppressor found inoperable by this testing requirement, an additional 10% shall be tested until no more failures are found or all shock suppressors have been tested. Those shock suppressors designated to be difficult to remove or in a high radiation area during shutdown need not be selected for functional testing. The Anchor Halth suppressors used on the steam generators are exempt from functional testing requirements.

Basis

All safety related hydraulic shock suppressors are visually inspected for overall integrity and operability. The inspection will include verification of proper orientation, adequate hydraulic fluid level and proper attachment of snubber to piping and structures.

To further increase the assurance of snubber reliability, functional tests should be performed once each refueling cycle. These tests will include stroking of the snubbers to verify proper piston movement and snubbing action. Ten percent of the safety-related snubbers represents an adequate sample for such tests. Observed failures on these samples should require testing of additional units. The Anchor Holth suppressors used on the steam generators are exempt from the functional test requirement due to the impracticability of functionally testing 900 Kip suppressors.

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