

## PLANT SYSTEMS

### 3/4.7.9 HYDRAULIC SNUBBERS

#### LIMITING CONDITION FOR OPERATION

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3.7.9.1 All hydraulic snubbers listed in Table 3.7-3 shall be OPERABLE.\*

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

With one or more hydraulic snubbers inoperable, replace or restore the inoperable snubber(s) to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

#### SURVEILLANCE REQUIREMENTS

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4.7.9.1 Hydraulic snubbers will be demonstrated OPERABLE by performance of the following augmented inservice inspection program and the requirements of Specification 4.0.5.

- a. Each hydraulic snubber with seal material fabricated from ethylene propylene or other materials demonstrated compatible with the operating environment and approved as such by the NRC, shall be determined OPERABLE at least once after not less than 4 months but within 6 months of initial criticality and in accordance with the inspection schedule of Table 4.7-4 thereafter, by a visual inspection of the snubber. Visual inspections of the snubbers shall include, but are not necessarily limited to, inspection of the hydraulic fluid reservoirs, fluid connections, and linkage connections to the piping and anchors. Initiation of the Table 4.7-4 inspection schedule shall be made assuming the unit was previously at the 6 month inspection interval.
- b. Each hydraulic snubber with seal material not fabricated from ethylene propylene or other materials demonstrated compatible with the operating environment shall be determined OPERABLE at least once per 31 days by a visual inspection of the snubber. Visual inspection of the snubbers shall include, but are not necessarily limited to, inspection of the hydraulic fluid reservoirs, fluid connections, and linkage connections to the piping and anchors.

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\* For the duration of cycle four, hydraulic snubbers in locations outside the reactor building shall be considered OPERABLE if analysis has shown that unacceptable stresses will not result from snubber lock-up during operation.

- TABLE 3 -

SNUBBER TEST ACCEPTANCE CRITERIA

Lockup and bleed rates shall be within the limits in Table 3 when the snubber is tested at  $75^{\circ}\text{F} \pm 5^{\circ}$ .

<u>Snubber Operating Temp.</u>	<u>Lockup Velocity (in/min)</u>	<u>Bleed Rate (in/min)</u>
< 120°F	0.5 - 23	0.1 - 15
130°F	0.5 - 23	0.1 - 14
140°F	0.5 - 23	0.1 - 12
150°F	0.5 - 23	0.1 - 10
160°F	0.5 - 23	0.1 - 8

NOTE: If bleed rate is less than 2 in/min., bleed shall continue for greater than 2 in.

- TABLE 4 -

SNUBBER INSTALLATION ACCEPTANCE CRITERIA

No snubber shall be installed unless it has been functionally tested since the last maintenance was performed and the values are within the limits of Table 4 and Table 3.

Locking Velocity (in/min)	: 1.5 - 20
Bleed Rate (in/min)	: 0.5 - 8.0
Shock Load Displacement (in.):	< .25 in.