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PLANT PIPING SYSTEMS

3/4.7.11 SEISMIC RESTRAINTS EXCLUDING SNUBBERS

LIMITING CONDITION FOR OPERATION

- 3.7.11 Seismic restraints shall be OPERABLE on all systems required by the Technical Specifications.

Applicability:

All MODES for seismic restraints located on systems required OPERABLE in those MODES.

Action

With one or more seismic restraints inoperable, restore or replace the inoperable restraint(s) to OPERABLE status within 72 hours and perform an engineering evaluation to determine if the components supported by the subject restraint(s) remain capable of meeting the designed service, or declare the attached system inoperable and follow the appropriate ACTION STATEMENT for that system.

SURVEILLANCE REQUIREMENTS

- 4.7.11 Seismic restraints shall be verified OPERABLE in accordance with the requirements of Specification 4.0.5.

PLANT PIPING SYSTEMS

3/4.7.12 SEISMIC QUALIFICATION

LIMITING CONDITION FOR OPERATION

- 3.7.12 The structural aspects of seismic qualification shall be maintained for all seismically qualified piping systems required by Technical Specifications.

APPLICABILITY

All MODES for seismically qualified piping systems required OPERABLE in those MODES. Prior to entering Action (c) or (d) below, perform an evaluation to verify that the structurally decoupled piping system (i) does not otherwise violate the applicable System Technical Specification, (ii) meets code requirements for pressure, deadweight, thermal, and other static loading conditions as applicable, and reviewed for seismic anchor movements and seismic interaction, and (iii) does not affect the structural qualification of containment penetrations* and buried piping systems, if any.

ACTION

- (a) All Systems: The requirements as delineated in Specifications 3/4.7.8 and 3/4.7.11 apply. Additional action, if required, is as noted below.
- (b) ASME Class 1 Systems and Containment Penetrations:*
With full seismic qualification not maintained, comply with the action statement for that system.
- (c) ANSI B31.7 or ASME Class 2 Systems: With seismic qualification not maintained on an otherwise OPERABLE and functional system in order to perform essential maintenance activities requiring structural decoupling, restore full seismic qualification within 24 hours or comply with applicable ACTION STATEMENT for that system.
- (d) ANSI B31.7 or ASME Class 3 and B31.1 Systems: With seismic qualification not maintained on an otherwise OPERABLE and functional system in order to perform essential maintenance activities requiring structural decoupling, restore full seismic qualification within 72 hours or comply with the applicable ACTION STATEMENT for that system.

*Includes associated isolation valving (FSAR Table 5.2-11), interconnecting piping and the piping penetration assembly considered necessary to ensure containment integrity when required.

SURVEILLANCE REQUIREMENTS

- 4.7.12 Structural aspects of all seismically qualified systems, components, or equipment shall be verified adequate in accordance with the requirement of Specification 4.0.5.

3/4.7.11 SEISMIC RESTRAINTS EXCLUDING SNUBBERS

All seismic restraints are required OPERABLE to ensure that the structural integrity of all safety related systems is maintained during and following a seismic or other event-initiating dynamic loads. When a seismic restraint is found inoperable, an engineering evaluation is performed to determine if any safety related component or system has been adversely affected by inoperability of the restraint.

The surveillance and inservice inspection of component supports are required to be performed in accordance with ASME Section XI and applicable addenda.

3/4.7.12 SEISMIC QUALIFICATION

Seismic qualification of all safety related plant piping systems is required to be maintained during and following a seismic or other event initiating dynamic loads. This implies that all safety related components, equipment, and component supports maintain structural integrity at all times as required by applicable codes and standards.

An engineering evaluation is performed to verify that the structurally decoupled piping system: (i) does not otherwise violate the applicable System Technical Specification, (ii) meets code requirements for pressure, deadweight, thermal, and other static loading conditions as applicable, and reviewed for seismic anchor movements and seismic interaction, and (iii) does not affect the structural qualification of containment penetrations and buried piping systems, if any.

The surveillance and inservice inspection of piping components, equipment, pipe supports, including snubbers is required to be performed in accordance with ASME Section XI and applicable addenda to ensure that all safety related systems are structurally adequate and meet applicable code requirements.