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TRM2 - TECHNICAL REQUIREMENTS MANUAL UNIT 2

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SSES MANUAL

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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3.3 Instrumentation

3.3.2 Seismic Monitoring Instrumentation

TRO 3.3.2 The seismic monitoring instrumentation shown in Table 3.3.2-1 shall be OPERABLE.

APPLICABILITY: At all times

ACTIONS

NOTES

1. Separate condition entry is allowed for each monitor or event.
2. The provisions of TRO 3.0.4 are not applicable.

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>A. One or more of the above required seismic monitoring instruments inoperable.</p>	<p>A.1 Restore seismic monitoring instrument to OPERABLE status.</p>	<p>30 days <u>OR</u> At next outage with containment entry, not to exceed the next refueling outage for inaccessible containment component.</p>
<p>B. Instrument channels actuated during a seismic event greater than or equal to 0.05g.</p>	<p>B.1 Initiate action to retrieve all data from actuated instruments and to determine magnitude of the vibratory ground motion. <u>AND</u> B.2 Restore each affected instrument channel to OPERABLE status. <u>AND</u> B.3 Perform CHANNEL CALIBRATION for each affected instrument channel.</p>	<p>Immediately 24 hours 5 days</p>

TECHNICAL REQUIREMENT SURVEILLANCE

-----NOTES-----

1. Refer to Table 3.3.2-1 to determine which TRSs apply for each Seismic Monitoring Channel.
2. When a channel is placed in an inoperable status solely for performance of required Surveillances, entry into associated Conditions and Required Actions may be delayed for up to 6 hours provided either instrument location 1.d or 1.f is OPERABLE.

SURVEILLANCE		FREQUENCY
TRS 3.3.2.1	Perform CHANNEL FUNCTIONAL TEST	184 days
TRS 3.3.2.2	Perform CHANNEL CALIBRATION	24 months

TABLE 3.3.2-1
SEISMIC MONITORING INSTRUMENTATION

INSTRUMENTS AND SENSOR LOCATIONS	MINIMUM MEASUREMENT RANGE	MINIMUM INSTRUMENTS OPERABLE	TEST REQUIREMENTS
1. Triaxial Accelerometers and Triggers			
a. Reactor Equipment, Unit 1	-0.25 to +0.25g	1	TRS 3.3.2.1 TRS 3.3.2.2
b. Reactor Bldg. Floor (RHR), Unit 1	-0.25 to +0.25g	1	TRS 3.3.2.1 TRS 3.3.2.2
c. ESSW Pumphouse Floor	-0.25 to +0.25g	1	TRS 3.3.2.1 TRS 3.3.2.2
d. Containment Foundation, Unit 1	-0.25 to +0.25g	1	TRS 3.3.2.1 TRS 3.3.2.2
e. Containment Structure, Unit 1	-0.25 to +0.25g	1	TRS 3.3.2.1 TRS 3.3.2.2
f. Containment Foundation, Unit 2	-0.25 to +0.25g	1	TRS 3.3.2.1 TRS 3.3.2.2
2. Response-Spectrum Analyzer ^(a) /Recorders ^(b)	1.0 to 32 Hz	1	TRS 3.3.2.1

^(a) One Instrument: on-line capability, with control room annunciation for triggered channels; off-line capability for all channels.

^(b) Receive signals from respective accelerometers.

B 3.3.2 Seismic Monitoring Instrumentation

BASES

TRO The OPERABILITY of the seismic monitoring instrumentation ensures that sufficient capability is available to promptly determine the magnitude of a seismic event and evaluate the response of those features important to safety. This capability is required to permit comparison of the measured response to that used in the design basis for the unit. This instrumentation is consistent with the recommendations of Regulatory Guide 1.12 "Instrumentation for Earthquakes," April 1974. (Reference 1) except for Section C.1.a since no triaxial peak accelerographs are provided.

Table 3.3.2-1 identifies two types of instrument, which monitor seismic activity, and the location where the instruments are positioned. The Unit 1 Containment Foundation, Unit 2 Containment Foundation and ESSW Pumphouse Floor Accelerometer Channels have associated triggers. These triggers provide control room indication and annunciation.

ACTIONS The Actions are defined to ensure proper corrective measures are taken in response to the inoperable components.

Required Action B.1 ensures that an assessment is performed and reviewed to determine an acceptable period of continued operation.

TRS The TRSs are defined to be performed at the specified Frequency to ensure that the Seismic Monitoring Function is maintained OPERABLE.

The Technical Requirement Surveillances (TRS) are modified by two Notes.

Note 1 states that the TRSs for each Seismic Monitoring instrumentation Function are located in the SR column of Table 3.3.2-1.

Note 2 modifies the Surveillances to indicate that when a channel is placed in an inoperable status solely for performance of required Surveillances, entry into associated Conditions and Required Actions may be delayed for up to 6 hours provided either instrumentation location 1.d or 1.f is OPERABLE. Having either instrumentation location 1.d or 1.f OPERABLE provides sufficient instrumentation to detect and analyze seismic activity since they are located on the containment foundation adjacent to bedrock. Upon completion of the Surveillance, or expiration of the 6 hour allowance, the channel must be returned to OPERABLE status or the applicable Condition entered and Required Actions taken.

(continued)

B 3.3.2 Seismic Monitoring Instrumentation

BASES (continued)

REFERENCES 1. Regulatory Guide 1.12 "Instrumentation for Earthquakes" April 1974
