

INSTRUMENTATION

TABLE 3.3-7

SEISMIC MONITORING INSTRUMENTATION

INSTRUMENTS AND SENSOR LOCATIONS	MEASUREMENT RANGE	MINIMUM INSTRUMENTS OPERABLE
1. Triaxial Time-History Accelerographs System, including the following components:		
a. Reactor Building Foundation Mat Accelerometer	0.1 to 40 Hz 0.01 to 1.0g	1
b. Reactor Building Ring Girder Accelerometer	0.1 to 40 Hz 0.01 to 1.0g	1
c. Reactor Building Foundation Mat Trigger	1 to 10 Hz 0.005 to 0.02g	1*
2. Triaxial Peak Accelerographs ACCELEROGROPHS		
a. Side of Steam Generator	0-32 Hz -5g to +5g	1
b. Pressurizer Surge Line ACCUMULATOR SAFETY INJECTION LINE	0-32 Hz -5 to +5g	1
c. RHR System Heat Exchanger	0-20 Hz -2g to +2g	1
3. Triaxial Seismic Switches		
a. Reactor Building Foundation Mat	0.1 to 30 Hz 0.01 to 0.25 g	1*
4. Triaxial Response-Spectrum Recorders		
a. Reactor Building Foundation Mat	(1)	1*
b. Steam Generator Support	(1)	1
c. Intermediate Bldg., Elev. 463'	(1)	1
d. Auxiliary Bldg. Foundation	(1)	1

* With control room indication and/or alarm.

(1) Range varies for the multiple elements of the instrument, i.e., 1.6g at 2 Hz, 10g at 5 Hz, 34g at 10 Hz, 12g at 16 Hz.

INSTRUMENTATIONTABLE 4.3-4SEISMIC MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

<u>INSTRUMENTS AND SENSOR LOCATIONS</u>	<u>CHANNEL CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>ANALOG CHANNEL OPERATIONAL TEST</u>
1. Triaxial Time-History Accelerographs, including the following components:			
a. Reactor Building Foundation Mat Accelerometer	M	R	SA
b. Reactor Building Ring Girder Accelerometer	M	R	SA
c. Reactor Building Foundation Mat Trigger*	M	R	SA
2. Triaxial Peak Accelerographs			
a. Side of Steam Generator	NA	R	NA
b. Pressurizer Surge Line	NA	R	NA
c. ACCUMULATOR SAFETY INJECTION LINE RHR System Heat Exchanger	NA	R	NA
3. Triaxial Seismic Switches			
a. Reactor Building Foundation Mat*	M	R	SA
4. Triaxial Response-Spectrum Recorders			
a. Reactor Building Foundation Mat*	M	R	SA
b. Steam Generator Support	NA	R	NA
c. Intermediate Bldg. Elev. 463'	NA	R	NA
d. Auxiliary Bldg. Foundation	NA	R	NA

* With control room indications and/or alarm.