

TABLE 3.3-6

RADIATION MONITORING INSTRUMENTATION

INSTRUMENT	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ALARM/TRIP SETPOINT	MEASUREMENT RANGE	ACTION
1. AREA MONITORS					
a. Spent Fuel Pool Area (RM-G8)	1	*	≤ 15 mR/hr	$10^{-1} - 10^4$ mR/hr	25
b. Reactor Building Manipulator Crane Area (RM-G17A or RM-G17B)	1	6	≤ 1 R/hr	$1 - 10^5$ mR/hr	28
c. Reactor Building Area				$10 - 10^7$ R/hr	
i. High Range RM-G7 and High Range RM-G18	2	1, 2, 3 & 4	N/A	$1 - 10^7$ R/hr $10 - 10^8$ R/hr $1 - 10^7$ R/hr	30
2. PROCESS MONITORS					
a. Spent Fuel Pool Exhaust - Ventilation System (RM-A6)					
i. Gaseous Activity	1	**	$< 1 \times 10^{-5}$ μ Ci/cc (Kr-85)	$10 - 10^6$ cpm	27
ii. Particulate Activity	1	**	N/A	$10 - 10^6$ cpm	27
b. Containment					
i. Gaseous Activity - Purge & Exhaust Isolation (RM-A4)	1	6	$\leq 2 \times$ background***	$10 - 10^6$ cpm	28
ii. Particulate Activity (RM-A2) - RCS Leakage Detection	1	1, 2, 3 & 4	N/A	$10 - 10^6$ cpm	26
c. Control Room Isolation (RM-A1)	1	ALL MODES	$\leq 2 \times$ background	$10 - 10^6$ cpm	29

* With fuel in the storage pool or building

** With irradiated fuel in the storage pool

*** Alarm/trip setpoint will be per the Operational Dose Calculation Manual when purge exhaust operations are in progress

TABLE 4.3-3

RADIATION MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

INSTRUMENT	CHANNEL CHECK	CHANNEL CALIBRATION	ANALOG CHANNEL OPERATIONAL TEST	MODES FOR WHICH SURVEILLANCE IS REQUIRED
1. AREA MONITORS				
a. Spent Fuel Pool Area (RM-G8)	S	R	M	*
b. Reactor Building Manipulator Crane Area (RM-G17A or RM-G17B)	S	R	M	6
c. Reactor Building Area				
i. High Range (RM-G7)	S	R ***	M	1, 2, 3 & 4
ii. High Range (RM-G18)	S	R ***	M	1, 2, 3 & 4
2. PROCESS MONITORS				
a. Spent Fuel Pool Exhaust Area - Ventilation System (RM-A6)				
i. Gaseous Activity	S	R	M	**
ii. Particulate Activity	S	R	M	**
b. Containment				
i. Gaseous Activity - Purge & Exhaust Isolation (RM-A4)	S	R	M	6
ii. Particulate Activity - RCS Leakage Detection (RM-A2)	S	R	M	1, 2, 3 & 4
c. Control Room Isolation (RM-A1)	S	R	M	All MODES
d. Noble Gas Effluent Monitors (High Range)				
i. Main Plant Vent (RM-A13)	S	R	M	1, 2, 3 & 4
ii. Main Steam Lines (RM-G19A, B, C)	S	R	M	1, 2, 3 & 4
iii. Reactor Building Purge Supply & Exhaust System (RM-A14)	S	R	M	1, 2, 3 & 4

*With fuel in the storage pool or building

**With irradiated fuel in the storage pool

***Channel calibration will consist of an electronic calibration of the channel, not including the detector, for range decades above 10 R/hr and a one point calibration check of the detector below 10 R/hr with an installed or portable gamma source.

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