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## REACTOR COOLANT SYSTEM

### 3/4.4.7 SPECIFIC ACTIVITY

#### LIMITING CONDITION FOR OPERATION

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3.4.7 The specific activity of the primary coolant shall be limited to:

- a. Less than or equal to 1.0 microcurie/gram DOSE EQUIVALENT I-131, and
- b. Less than or equal to  $100/\bar{E}$  microcuries/gram.

APPLICABILITY: MODES 1, 2, 3, 4, and 5.

#### ACTION:

MODES 1, 2, and 3\*:

- a. With the specific activity of the primary coolant greater than 1.0 microcurie/gram DOSE EQUIVALENT I-131 for more than 48 hours during one continuous time interval or exceeding 60 microcuries/gram DOSE EQUIVALENT I-131, be in at least HOT STANDBY with  $T_{avg}$  less than 500°F within 6 hours.
- b. With the specific activity of the primary coolant greater than  $100/\bar{E}$  microcuries/gram, be in at least HOT STANDBY with  $T_{avg}$  less than 500°F within 6 hours.

MODES 1, 2, 3, 4, and 5:

- c. With the specific activity of the primary coolant greater than 1.0 microcurie/gram DOSE EQUIVALENT I-131 or greater than  $100/\bar{E}$  microcuries/gram, perform the sampling and analysis requirements of item 4 a) of Table 4.4-4 until the specific activity of the primary coolant is restored to within its limits.

#### SURVEILLANCE REQUIREMENTS

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4.4.7 The specific activity of the primary coolant shall be determined to be within the limits by performance of the sampling and analysis program of Table 4.4-4.

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\* With  $T_{avg}$  greater than or equal to 500°F.

TABLE 4.4-4PRIMARY COOLANT SPECIFIC ACTIVITY SAMPLE  
AND ANALYSIS PROGRAM

<u>TYPE OF MEASUREMENT AND ANALYSIS</u>	<u>SAMPLE AND ANALYSIS FREQUENCY</u>	<u>MODES IN WHICH SAMPLE AND ANALYSIS REQUIRED</u>
1. Gross Activity Determination	At least once per 72 hours	1, 2, 3, 4
2. Isotopic Analysis for DOSE EQUIVALENT I-131 Concentration	1 per 14 days	1
3. Radiochemical for $\bar{E}$ Determination	1 per 6 months*	1
4. Isotopic Analysis for Iodine Including I-131, I-133, and I-135	a) Once per 4 hours, whenever the specific activity exceeds 1.0 $\mu\text{Ci/gram}$ , DOSE EQUIVALENT I-131 or 100/ $\bar{E}$ $\mu\text{Ci/gram}$ , and	1#, 2#, 3#, 4#, 5#
	b) One sample between 2 and 6 hours following a THERMAL POWER change exceeding 15 % of the RATED THERMAL POWER within a 1-hour period.	1, 2, 3

\* Sample to be taken after a minimum of 2 EFPD and 20 days of POWER OPERATION have elapsed since reactor was last subcritical for 48 hours or longer.

# Until the specific activity of the primary coolant system is restored within its limits.

Pages 3/4 4-26 and 3/4 4-27 have been deleted.