

ENCLOSURE 4

SHEARON HARRIS NUCLEAR POWER PLANT
NRC DOCKET NO. 50-400
OPERATING LICENSE NPF-63
REQUEST FOR LICENSE AMENDMENT
REACTOR COOLANT SYSTEM SPECIFIC ACTIVITY

TECHNICAL SPECIFICATION PAGES

8905120195 890505
PDR ADOCK 05000400
P PDC

3/4 4-31

TABLE 4.4-4

<u>TYPE OF MEASUREMENT AND ANALYSIS</u>	<u>SAMPLE AND ANALYSIS FREQUENCY.</u>	<u>MODES IN WHICH SAMPLE AND ANALYSIS REQUIRED</u>
1. Gross Radioactivity 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	<p>a. Once per 4 hours, whenever the specific activity exceeds 1 $\mu\text{Ci}/\text{gram}$ DOSE EQUIVALENT I-131 or 100/\bar{E} $\mu\text{Ci}/\text{gram}$ of gross radioactivity, and</p> <p>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.</p>	<p>1H, 2H, 3H, 4H, 5H</p> <p>1, 2, 3</p>

TABLE 4.4-4 (Continued)

TABLE NOTATIONS

~~^A gross radioactivity analysis shall consist of the quantitative measurement of the total specific activity of the reactor coolant except for radionuclides with half-lives less than 15 minutes and all radioiodines. The total specific activity shall be the sum of the degassed beta gamma activity and the total of all identified gaseous activities in the sample within 2 hours after the sample is taken and extrapolated back to when the sample was taken. Determination of the contributors to the gross specific activity shall be based upon those energy peaks identifiable with a 95% confidence level. The latest available data may be used for pure beta emitting radionuclides.~~

**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 Reactor Coolant System is restored within its limits.

