

PLANT SYSTEM

SECONDARY WATER CHEMISTRY

LIMITING CONDITION FOR OPERATION

3.7.1.6 The secondary water chemistry shall be maintained within the limits of Table 3.7-3.

APPLICABILITY: MODES 1, 2 and 3.

ACTION:

(To be determined in the manner set forth in the bases in approximately six months after commercial operation and to be imposed by a change to this Specification.)

DELETE

SURVEILLANCE REQUIREMENTS

4.7.1.6 The secondary water chemistry shall be determined to be within the limits by analysis of those parameters at the frequencies specified in Table 4.7-3.

DELETE

SECONDARY WATER CHEMISTRY LIMITS

ARKANSAS - UNIT 2

Water Sample  
Location

\*

Parameters \*

\*

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~~DELETE~~

\*Sample locations, parameters and limits to be established in approximately 6 months after commercial operation based upon test program described in bases.

TABLE 4.7-3

SECONDARY WATER CHEMISTRY SURVEILLANCE REQUIREMENTS

Water sample  
Location

\*

Parameters\*

\*

~~DELETE~~

\*Sample locations, parameters and frequencies to be established in approximately 6 months after commercial operation based upon test program described in bases.

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## PLANT SYSTEMS

### BASES

#### 3/4.7.1.4 ACTIVITY

The limitations on secondary system specific activity ensure that the resultant off-site radiation dose will be limited to a small fraction of 10 CFR Part 100 limits in the event of a steam line rupture. This dose also includes the effects of a coincident 1.0 GPM primary to secondary tube leak in the steam generator of the affected steam line and a concurrent loss of offsite electrical power. These values are consistent with the assumptions used in the accident analyses.

#### 3/4.7.1.5 MAIN STEAM ISOLATION VALVES

The OPERABILITY of the main steam isolation valves ensures that no more than one steam generator will blowdown in the event of a steam line rupture. This restriction is required to 1) minimize the positive reactivity effects of the Reactor Coolant System cooldown associated with the blowdown, and 2) limit the pressure rise within containment in the event the steam line rupture occurs within containment. The OPERABILITY of the main steam isolation valves within the closure times of the surveillance requirements are consistent with the assumptions used in the accident analyses.

#### 3/4.7.1.6 SECONDARY WATER CHEMISTRY

A test program will be conducted during approximately the first 6 months of operation after initial criticality to establish the appropriate limits on the secondary water chemistry parameters and the determining the appropriate frequencies for monitoring these parameters. The results of this test program will be submitted to the Commission for review. The Commission will then issue a revision to this specification specifying the limits on the chemistry parameters and the frequencies for monitoring these parameters.

This test program will include an analysis of the chemical constituents of the condenser cooling water. The analysis shall identify the various traces of ions which upon concentration in the condenser may have the potential for inducement for stress corrosion in the steam generator tubing. The test program shall analyze concentration phenomena and the concentration rates in the steam generator and the secondary water system.