

REFUELING OPERATIONS

COOLANT CIRCULATION

LIMITING CONDITION FOR OPERATION

3.9.8 At least one decay heat removal loop shall be in operation.

APPLICABILITY MODE 6.

ACTION:

- a. With less than one decay heat removal loop in operation, except as provided in b. below, suspend all operations involving an increase in the reactor decay heat load or a reduction in boron concentration of the Reactor Coolant System. Close all containment penetrations providing direct access from the containment atmosphere to the outside atmosphere within 4 hours.
- b. The decay heat removal loop may be removed from operation for up to 1 hour per 8 hour period during the performance of CORE ALTERATIONS to prevent water turbulence problems.
- c. The provisions of Specification 3.0.3 are not applicable.

SURVEILLANCE REQUIREMENTS

4.9.8 At least once per 24 hours a decay heat removal loop shall be determined to be in operation and circulating reactor coolant.

CRYSTAL RIVER - UNIT 3

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PDR ADOCK 05000302
P PDR

FLORIDA POWER CORPORATION
CRYSTAL RIVER UNIT 3
DOCKET NO. 50-302/LICENSE NO. DPR-72
REQUEST NO. 125, REVISION 0
SIGNIFICANT HAZARDS CONSIDERATION DETERMINATION

DESCRIPTION OF REQUEST:

This submittal requests the deletion of a specific flow rate for Mode 6 (refueling) operation of the decay heat removal system. This deletion will not delete the requirement to maintain one DHR loop in operation or to verify it as such every 24 hours. This change will allow Florida Power to decrease DHR flow rate below 2700 GPM and still be within the limiting condition for operation.

SIGNIFICANT HAZARDS CONSIDERATIONS DETERMINATION:

- (X) Amendment is not likely to involve a significant hazards consideration.
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BASIS FOR DETERMINATION:

This amendment may reduce safety margins in that it could increase the probability of certain Mode 6 accidents. However, this probability increase is considered to be insignificant for the following reasons:

1. Other technical specifications also affect operation of the decay heat removal system during Mode 6. Mode 6 (refueling) is defined in Section 1 as the condition where reactor coolant system temperature is less than or equal to 140°F. This definition assures that sufficient circulation is maintained to provide adequate cooling. Additionally, Specification 3.1.1.2 requires that the decay heat removal system flow rate be greater than or equal to 2700 GPM whenever a reduction in the RCS boron concentration is being made. This requirement decreases the probability of a boron dilution or stratification event.
2. The proposed surveillance requirement is very similar to the standard technical specification requirement for Mode 5 (cold shutdown). Mode 5 operation of DHR can be more critical than Mode 6 with respect to cooling capability (and boron dilution).

Thus we have determined that this amendment is not likely to involve a significant hazards consideration.