

1979 ANNUAL OPERATING REPORTCHANGES, TESTS AND EXPERIMENTS PURSUANTTO 10 CFR 50.59

- 1.0 As permitted by 10 CFR 50.59 (a) (1), changes were made at the Robinson Plant that changed the facility as described in the Safety Analysis Report but did not constitute an unreviewed safety question. They did not require a change to the Technical Specifications, or a change to the Technical Specifications was obtained prior to initiation. The changes did not adversely affect the safety of the plant or the health and safety of the general public. These changes are as follows:
- 1.1 A facility change completed in 1979 was the installation of two new 3-hour rated fire walls for the charging pumps room and the safety injection pump room. This was installed to ensure complete separation of fire zones as specified by APCSB 9.5.1.
- 1.2 A facility change completed in 1979 was to the Isolation Valve Seal Water System (IVSW); the modification provided: (a) a redundant supply of N₂ for pressurization of the IVSW system (b) redundant regulating valves to avoid loss of the IVSW system due to a simple failure of one active component (c) a bypass around each IVSW header's flow indicators.
- 1.3 A facility change completed in 1979 was to the Battery Room Ventilation System. An installation of a 3-hour fire door on a different modification to be initiated would close off the fresh air supply to the Battery Room. Therefore, in order to maintain the temperature and ventilation necessary to prevent excess hydrogen buildup from the batteries, the following modifications were made: closing the HVS-1 battery room air outlets, closing the existing exterior wall fan opening, adding two fresh air inlets, adding two exhaust fans on the exterior wall and provide for annunciation of the exhaust fan operation in the Control Room.
- 1.4 A facility change completed in 1979 resulted in the deletion of pressurizer level as an input to safety injection actuation and requires actuation of safety injection based on two out of three channels of low pressurizer pressure. A change to the Technical Specifications was approved prior to initiation of the change.
- 1.5 A facility change completed in 1979 was removal of the part length control rods. A change to the Technical Specifications was approved prior to its initiation.
- 1.6 No other facility changes require reporting pursuant to 10 CFR 50.59.

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- 2.0 As permitted by 10 CFR 50.59 (a) (1), tests or experiments were performed which were not described in the Safety Analysis Report but did not constitute an unreviewed safety question nor required a change to the Technical Specifications. The changes did not adversely affect the safety of the plant or the health and safety of the general public. These tests are as follows:
- 2.1 The new Emergency Plan contained some safety related items which were contrary to the description given in the FSAR. Specifically, these deviations are:
- a. The basis for offsite doses to the general public in the FSAR is 10 CFR 100. The new plan's offsite dose limits are based on the State of South Carolina Protective Action Guides which are based, in part, on 10 CFR 20. The new dose guidelines are more conservative than those described in the FSAR and are more consistent with the current regulatory position on emergency plans.
 - b. The FSAR describes the overlay method for evaluating emergency off-site doses to the general public. The new plan employs a nomogram - isopleth method which for all intents and purposes is equivalent to the overlay method. The nomogram - isopleth method is simpler and faster to use and provides less chance for calculational errors.
- 2.2 Procedure changes resulted in the fourth cycle carryover of fuel bundles for an extended burnup demonstration program. This constituted a test not described in the FSAR, but did not require a Technical Specification change. The benefits of an extended burnup of discharged fuel are reduced fuel cycle costs, lower uranium requirements per unit of energy production, reduced spent fuel storage requirements, and if the cycle length can be extended beyond twelve months, an increase in operating capacity factor.
- 2.3 No other tests or experiments require reporting pursuant to 10 CFR 50.59.