



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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REGISTRATION
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Docket Nos.: 50-482, 50-483
and 50-486

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Dear Gentlemen:

Subject: SNUPPS FSAR - Request for Additional Information

As a result of our review of your application for operating licenses we find that we need additional information regarding the SNUPPS FSAR. The specific information required is listed in the enclosure. Please provide your responses within six weeks after your receipt of these questions.

If you desire any discussion or clarification of the information requested, please contact, R. M. Stark, Project Manager, (301-492-7238).

Sincerely,

Robert L. Tedesco, Assistant Director
for Licensing
Division of Licensing

Enclosure:
As stated

cc: See next page

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- 450.00
(6.4) In your description of the control room habitability system, include the provisions for emergency food, water and medical supplies.
- 450.01
(6.4) In the evaluation of toxic gas protection, document the degree of leaktightness of the control room isolation dampers.
- 450.02
(6.4) Provide a description and drawing showing the locations of control room outside air inlets relative to potential radiation releases.
- 450.03
(6.4) In your analysis of toxic gas protection for control room personnel, provide the number and type of respiratory devices, the type of operator training for respiratory use, the estimated time for donning or deploying the equipment, the length of time the equipment can be used, and the equipment testing and maintenance provisions.

450.04
(6.4) List the areas, equipment and materials in the zone serviced by the control room emergency ventilation system.

450.05
(6.4) Discuss how the control room design precludes the buildup of noxious gases from control room equipment such as gases from batteries.

450.06
(6.4) In Section 6.4.5, the testing and inspection of the control room habitability systems is described. In particular, the last paragraph states: "The control room is classified as Type B per Regulatory Guide 1.78. Since the air exchange rate exceeds 0.06 air exchanges per hour for the control room, periodic testing of the control room pressurization system is not required per the exclusion provisions of the regulatory guide."

Apparently, there is some confusion as to the applicability of Regulatory Guide 1.95 (and 1.78) to the control room ventilation design for radiological protection. For a control room outside air makeup rate during emergency pressurization less than 0.25 volume change per hour (as in Callaway), SRP Section 6.4 recommends the following:

- (1) acceptance test to verify adequate pressure,
- (2) supporting calculations to verify adequate air flow, and
- (3) periodic verification testing.

If this guidance is not followed, justify the departures.

450.07
(6.5.?)

In Section 6.5.2.2.3 of the SNUPPS FSAR, it stated that the containment spray system recirculation flow is manually initiated. It is the staff's position that the containment spray switchover be automatic. Justify your departure from this position.

450.08
(15.4.8(A))

With respect to rod ejection accident, provide the transient time for the depressurization of the primary system to the termination of primary to secondary leakage.

450.09
(15.6.3)

The following information is currently missing from the Callaway FSAR and is needed to complete our review. For the steam generator tube rupture accident provide the following figures:

- (1) SGTR break flow rate vs Time
- (2) SGTR integrated tube leak mass vs Time
- (3) Primary system pressure vs Time
- (4) Secondary system pressure vs Time
- (5) PORV flow rate vs Time
- (6) MS Safety valve flow rate per steamline vs Time
- (7) Atmospheric dump valve flow rate vs time
- (8) Steam generator steaming rate vs Time
- (9) Reactor coolant temperature vs Time
- (10) Feedwater flow rate into the steam generators vs Time
- (11) Water level in the affected steam generator relative to the top of the tube bundle vs Time.

Also, provide the mass of secondary coolant in a steam generator.