

SNUPPS

Standardized Nuclear Unit
Power Plant System

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Nicholas A. Petrick
Executive Director

January 6, 1984

SLNRC 84- 0001 FILE: 0541
SUBJ: Administrative Procedures
for Solid Water Operation

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Docket Nos: STN 50-482 and STN 50-483

Dear Mr. Denton:

Attached is revised SNUPPS FSAR page 5.2-9 which clarifies the precautions for solid water operation. This clarification will be included in Revision 13 to the SNUPPS FSAR scheduled to be submitted in February, 1984.

Very truly yours,


Nicholas A. Petrick

EFB/vas
Attachment

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RCS pressure is less than 425 psi. This precaution assures that there is a relief path from the reactor coolant loop to the residual heat removal suction line relief valves when the RCS is at low pressure and is water solid.

- b. Whenever the plant is water solid and the reactor coolant pressure is being maintained by the low pressure letdown control valve, letdown flow, normally bypasses the normal letdown orifices. In addition, all three letdown orifices normally remain open.
- c. If all reactor coolant pumps have stopped for more than 5 minutes during plant heatup and the reactor coolant temperature is greater than the charging and seal injection water temperature, a steam bubble will be formed in the pressurizer prior to restarting a reactor coolant pump. This precaution minimizes the pressure transient when the pump is started and the cold water previously injected by the charging pumps is circulated through the warmer reactor coolant components. The steam bubble will accommodate the resultant expansion as the cold water is rapidly warmed.
- d. If all reactor coolant pumps are stopped and the RCS is being cooled down by the residual heat exchangers, a nonuniform temperature distribution may occur in the reactor coolant loops. Prior to restarting a reactor coolant pump, a steam bubble will be formed in the pressurizer or an acceptable temperature profile will be demonstrated.
- e. During plant cooldown, all steam generators will normally be connected to the steam header to assure a uniform cooldown of the reactor coolant loops.
- f. At least one reactor coolant pump will normally remain in service until the reactor coolant temperature is reduced to 160 F.

These special precautions back-up the normal operational mode of maximizing periods of steam bubble operation so that cold overpressure transient prevention is continued during periods of transitional operations. ~~These precautions do not apply to reactor coolant system hydrostatic testing.~~ The specific plant configurations of emergency core cooling system testing and alignment will also highlight procedural recommendations to prevent developing cold overpressurization transients. During these limited periods of plant