



GE Nuclear Energy

J. E. Quinn, Projects Manager
LMR and SBWR Programs

General Electric Company
175 Curtner Avenue, M/C 165 San Jose, CA 95125-1014
408 925-1005 (phone) 408 925-3991 (facsimile)

October 24, 1995

MFN 244-95
Docket STN 52-004

Document Control Desk
U. S. Nuclear Regulatory Commission
Washington DC 20555

Attention: Theodore E. Quay, Director
Standardization Project Directorate

Subject: **Transmittal of PANTHERS Test Specification 23A6999, Rev. 5.**

- Reference:
- 1) *GE Letter MFN 007-93 to the NRC, dated January 18, 1993.*
 - 2) *GE Letter MFN 101-94 to the NRC, dated August 31, 1994.*
 - 3) *GE Letter MFN 025-95 to the NRC, dated February 15, 1995.*
 - 4) *GE Letter MFN 064-95 to the NRC, dated April 28, 1995.*

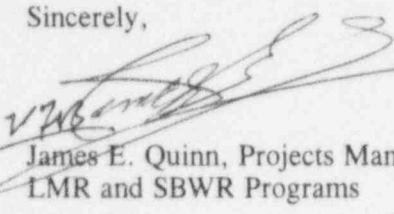
Transmitted herewith is PANTHERS Test Specification 23A6999 Rev. 5. This revision supersedes the earlier versions sent in the above References 1 through 4.

This document specifies the requirements for tests of full-scale prototypes of the isolation condenser (IC) and passive containment condenser (PCC) designed for use in the Simplified Boiling Water Reactor (SBWR). The purpose of the tests is to confirm the thermal hydraulic and structural adequacy of the Ansaldo designed hardware for use in the SBWR.

The major changes are as follows:

1. For the IC structural tests, the duration of maintaining the IC operation at 87 Bar was reduced from 2 hours to 15 minutes. The change was necessary because the ENEL power station, which supplies steam for these tests, is unable to supply the required steam for such a long period. GE reviewed the basis for the requirement, and determined that it could be relaxed and still meet the test objective to capture any inelastic deformations which could cause thermal ratchetting.
2. The allowable heatup and cooldown rates for the IC has been increased from 57°C/hour to 100°C/hour. This rate is conservative relative to the SBWR unit.
3. The required ratio of gases for the IC venting tests has been expanded to include nitrogen/helium mixtures.

Sincerely,



James E. Quinn, Projects Manager
LMR and SBWR Programs

Enclosure: PANTHERS Test Specification 23A6999 Rev. 5.

9511010316 951024
PDR ADDCK 05200004
A PDR

2040
11



cc: (1 paper copy and E-Mail copy
P. A. Boehnert (NRC/ACRS) [w/2 encl.]
I. Catton (ACRS) [w/encl.]
A. Drozd (NRC)) [w/encl.]
S. Q. Ninh (NRC)) [w/2 encl.]
J. H. Wilson (NRC)) [w/encl.]