

December 28, 2006

MEMORANDUM TO: Sher Bahadur
Committee to Review Generic Requirements

FROM: David B. Matthews, Director */RA/*
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: TRANSMITTAL OF PROPOSED NEW STANDARD REVIEW PLAN
NUREG-0800 SECTION, 3.12, REV. 0, "ASME CODE CLASS 1, 2
AND 3 PIPING SYSTEMS, PIPING COMPONENTS AND THEIR
ASSOCIATED SUPPORTS"

The purpose of this memorandum is to transmit the proposed revisions to NUREG-0800, Standard Review Plan (SRP), Section 3.12, Rev. 0, "ASME Code Class 1, 2 and 3 Piping Systems, Piping Components and their Associated Supports" to the CRGR for its consideration. This document is technically complete, reformatted in conformance with LIC-200, "Standard Review Plan Process," and is designated "publically available."

In accordance with the staff requirements memorandum dated May 10, 2005, on the April 6, 2005 Commission meeting, the Office of New Reactors (NRO) and the Office of Nuclear Reactor Regulation (NRR) propose a new SRP Section 3.12 (Enclosure).

This SRP section lists the review responsibilities by function, with the responsible organizations maintained separately from the SRP itself to minimize impacts of office reorganizations, and editorial and formatting changes. Standard paragraphs are added to extend the application of the updated SRP section to prospective submittals by applicants pursuant to 10 CFR Part 52.

SRP Section 3.12 also incorporates generic issues that affect piping design. These generic issues are addressed in NRC Bulletin (BL) 88-08 (Thermal Stresses in Piping Connected to Reactor Coolant Systems), BL 79-13 (Cracking in feedwater system piping), BL-11 (Pressurizer Surge Line Thermal Stratification) and BL 79-02 (Pipe Support Base Plate Designs Using Concrete Expansion Anchor Bolts).

The relevant regulatory guides (RG) have been incorporated by reference. These are RG 1.61 (Damping Values for Seismic Design of Nuclear Power Plants), RG 1.84 (Design, Fabrication, and Materials Code Case Acceptability), RG 1.92 (Combining Modal Responses and Spatial Components in Seismic Response Analysis), and RG 1.122 (Development of Floor Design Response Spectra for Seismic Design of Floor-Supported Equipment or Components).

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In summary, SRP Section 3.12 will be a compilation of existing SRPs, generic communications, Regulatory Guides and issues related to piping design and analyses identified in the SERs of approved design certifications. This SRP also contains acceptance criteria on intersystem loss-of-coolant accidents and issues related to environmental fatigue, as recommended in Regulatory Guide 1.206 (Environmental Fatigue).

However, certain sections related to piping design such as SRP Section 3.6.2 (Determination of Rupture Locations and Dynamic Effects Associated with the Postulated Rupture of Piping), SRP Section 3.6.3 (Leak-Before-Break Evaluation Procedures), SRP Section 5.2.2. (Overpressure Protection), and SRP Section 5.2.4 (Reactor Coolant Pressure Boundary Leakage Detection) have not been incorporated into the new SRP Section 3.12, as these topics are more appropriately addressed in existing sections of the SRP.

The staff requests deferral of the CRGR review of the proposed revision[s] until after obtaining and dispositioning public comments. If the CRGR determines that there is a need to review the proposed revision[s] to the SRP, then please inform the technical contact and NRR will support a subsequent CRGR briefing before requesting public comment

For questions concerning this document please contact John Fair at 301-415-2759 or Manny Comar at 301-415-3863.

Enclosure:
As stated