

December 11, 2006

MEMORANDUM TO: Douglas W. Weaver, Chief
Guidance, Infrastructure, and Financial Review Branch
Division of New Reactor Licensing
Office of New Reactors

FROM: Michele G. Evans, Director */RA/*
Division of Component Integrity
Office of Nuclear Reactor Regulation

SUBJECT: TRANSMITTAL OF PROPOSED REVISION TO STANDARD REVIEW
PLAN NUREG-0800 SECTION 5.4.1.1, REV. 2, PUMP FLYWHEEL
INTEGRITY (PWR)

The purpose of this memorandum is to transmit the proposed revision to NUREG-0800, Standard Review Plan (SRP), Section 5.4.1.1, Rev. 2, "Pump Flywheel Integrity (PWR). 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) has revised SRP Section 5.4.1.1 (Enclosure). The revised portions of the SRP Section have been highlighted to aid in identifying the technical information that has been added or revised.

The present revision updates Revision 1, dated July 1981, and includes changes introduced in the draft Revision 2 of April 1996. Several specific technical changes subsequent to the 1996 draft that are worth noting:

- a. addressed the fracture mechanics analysis required by RG 1.14, Revision 1;
- b. addressed direct and indirect fracture toughness properties in a comprehensive, logic way; and
- c. revised the inservice inspection requirements in accordance with the staff evaluation of two industry topical reports.

The proposed changes are consistent with the staff positions in licensing nuclear plants since the 1980's and do not represent new staff positions. Accordingly, the proposed acceptance criteria and review procedure sections of the SRP are revised.

The revision also adds standard paragraphs to extend application of the updated SRP section to the advanced reactor design certification reviews as well as to extend implementation of this section to submittals by applicants pursuant to 10 CFR Part 50 or 10 CFR Part 52.

CONTACT: Simon Sheng, CFEB/DCI/NRR
301-415-2702

Additional changes are summarized on the last page of the SRP section.

The staff has determined that the changes do not involve any new staff positions. I understand, that most of the SRP sections will be issued as final versions without publishing them as draft and requesting comment. The staff is revising the SRP in this manner to provide a more up-to-date SRP in light of the requirement in 10 CFR 50.34(h) for an applicant to evaluate its facility against the SRP revision in effect six months before the docket date of the application. In addition, this memo and its enclosure will be made publicly available as a preliminary SRP section revision. It will be formally published following reconciliation against the ongoing Part 52 rulemaking and regulatory guide updates including Regulatory Guide 1.206, "Combined License Applications for Nuclear Power Plants (LWR Edition)." After formal issuance, the SRP will be available for public comment. Comment resolution will be addressed in subsequent SRP revisions. Prior to revision to individual sections, comment resolution may establish a basis for how alternatives to the NUREG-0800 acceptance criteria provide an acceptable method of complying with the NRC's regulations.

For questions concerning this document, please contact Simon Sheng at 301-415-2702.

Enclosure:

As stated