

October 23, 2006

MEMORANDUM TO: Douglas W. Weaver, Chief  
New Reactor Infrastructure Guidance Development Branch  
Division of New Reactor Licensing  
Office of Nuclear Reactor Regulation

FROM: William H. Bateman, Director **/RA/**  
Division of Component Integrity  
Office of Nuclear Reactor Regulation

SUBJECT: TRANSMITTAL OF PROPOSED REVISION TO STANDARD REVIEW  
PLAN NUREG-0800 SECTION 5.4.8, REV 3, "REACTOR WATER  
CLEANUP SYSTEM"

The purpose of this memorandum is to transmit the proposed revision to NUREG-0800, Standard Review Plan (SRP), Section 5.4.8, Rev 3, "Reactor Water Cleanup System (BWR)" to you for consideration. This document is technically complete, reformatted in conformance with LIC-200, and may be designated "publically available."

In accordance with staff requirements memorandum dated May 10, 2005, on the April 6, 2005, Commission meeting the Office of Nuclear Reactor Regulation (NRR) has revised SRP Section 5.4.8, Rev 3 (Enclosure). The revised technical 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 2, dated July 1981, and includes changes introduced in the draft Revision 3 of April 1996. Several specific technical changes are worth noting:

- a. Removed reference to Regulatory Guide 1.56 and replaced with reference to the Electric Power Research Institute (EPRI) "BWR Water Chemistry Guidelines."
- b. Added provision for preventing inadvertent opening of the filter / demineralizer backwash valves.
- c. Clarified requirement that instrumentation for monitoring effluent conductivity should have sufficient range to measure conductivities up to the value requiring immediate shutdown of the reactor.

Additional changes are summarized at the end of the SRP section revision, itself.

In addition, this revision has been administratively updated in accordance with NRR Office Instruction, LIC-200, Standard Review Plan Process. The administrative update is comprised of assigning 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. The revision also adds standard paragraphs to extend application of the updated SRP section to prospective submittals by applicants pursuant to 10 CFR Part 52.

CONTACT: Krzysztof Parczewski, DCI/CSGB  
301-415-2705

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 DG-1145, "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 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 Krzysztof Parczewski of my staff at 301-415-2705.

Enclosure:  
As stated