

CSSG TASKING 2007-03

Date Issued 4/5/07

Task Title: Technical review of the document, "Preclosure Criticality Analysis Process Report, Rev.1 [dated – March 08, 2007]" and License Application Section 1.14 [Story Board Draft D] and Resolution of Previous CSSG Comments.

Task Statement: The CSSG is requested to review two documents: "Preclosure Criticality Analysis Process Report, Rev.1 [dated –March 8, 2007]" and Yucca Mountain Repository License Application (LA) Safety Analysis Report section 1.14 [Story Board Draft D]. Given the timetable for the response and the fact that CSSG members are not experts on NRC regulations relative to the Yucca Mountain Project, the review should be performed relative to the expectations of the ANSI/ANS-8 National Consensus Criticality Safety Standards. The review should also evaluate the adequacy of resolution of CSSG identified issues contained in reference (1) memorandum.

The primary reference document for the "Preclosure Criticality Analysis Process Report, Rev.1" is Ref. 2, "Criticality Model" (September 14, 2004) which is provided in order to support the review of the Process Report, Rev.1. Please note that the LA Section 1.14 contains numerous "placeholder" texts which is planned discussion for the "interim draft" to be issued later this Spring 2007.

The CSSG is also requested to provide for the following communications while the review is underway:

1. Weekly E-mail (COB Friday) from A. Garcia (or designated CSSG working group leader) to the NCSP Manager highlighting document review progress and identification of any substantive technical issue developed during that week; and,
2. Set up conference calls as needed between CSSG and RW/YMP.

Task Deliverables:

The CSSG Chairman is requested to forward a memorandum from the CSSG Chairman to the DOE NCSP Manager for subsequent transmittal to James O. Low (DOE RW-5).

The memorandum should contain the following topical items relative to conformance with the expectations of the ANSI/ANS-8 National Consensus Criticality Safety Standards:

- 1- General comments to the process report and LA Section 1.14.
- 2 - Evaluation of the adequacy of resolution of CSSG identified issues contained in the reference (1) memorandum.

3 - Specific comments to the process report and LA Section 1.14; focus should be made on any specific technical issues with suggested solutions, improvements or potential alternatives.

4 - A list of recommendations that will improve the technical defensibility, quality and transparency of the process report and LA Section 1.14.

5 – A statement of the overall assessment of the technical adequacy of YMP pre-closure criticality analysis process in its consistency with best practice in the industry relative to the implementation of the ANSI/ANS-8 Standards.

Task Due Dates:

The memorandum from the CSSG Chairman to the NCSP Manager is due April 27, 2007.

References:

1. DOE-ID Memorandum, A. Garcia to J. McKamy, “CSSG Comments”, August 17, 2006.
2. BSC Report “Criticality Model”, CAL-DS0-NU-000003 Rev00A, September 14, 2004