

October 9, 2014

To: J. N. McKamy, Director, NA-00-10, Manager US DOE NCSP

From: E. F. Trumble, Chair US DOE NCSP CSSG



Subject: CSSG Tasking 2014-01 Response

The CSSG has completed its action on Tasking 2014-01, Technical Support to Los Alamos National Laboratory.

This Tasking was supported by a sub-team of the CSSG, as listed in the attached report.

The attached report was reviewed by the entire CSSG sub-team and their comments incorporated. The summary is provided separately from the attachments to facilitate posting on the NCSP website, as the attachments are considered official use only, and will not be posted on the website.

Cc: CSSG Members  
G. O. Udent  
M. E. Dunn  
A. N. Ellis

## Response to CSSG Tasking 2014-01

### Technical Support to Los Alamos National Laboratory

September 29, 2014

#### Executive Summary

In tasking 2014-01, a subgroup of the CSSG was tasked to provide technical support to the Los Alamos National Laboratory as they recovered from the criticality and conduct of operations issues and prepared for the resumption process. The Subteam provided support to Dr. Jerry McKamy who was detailed as a technical advisor to LANL from December 2013 to September 2014. The tasking was initially scoped to run thru April 30, 2014, but the tasking was extended to September 30, 2014 when Dr. McKamy's detail was extended. During this time period the subgroup provided advice, performed reviews, and evaluated approaches associated with LANL pre-resumption activities. The subgroup held several telecons to discuss pertinent issues and to craft responses to questions posed to the subgroup. The attachments 2-6 document these telecons and the subjects discussed. Where appropriate, information provided by the CSSG to LANL and Dr. McKamy are included as part of that attachment.

**Discussion:** In November of 2013, Dr. Jerry McKamy was detailed from NNSA headquarters to LANL in a technical assistance role. In order to provide additional credibility to direction proposed by Dr. McKamy a subset of the CSSG was utilized to provide additional perspective and advice. A Subteam approach was used in order to retain a portion (slightly more than ½) of the CSSG independent from direct laboratory operations so that they could perform independent effectiveness reviews if needed. Output from the subgroup was provided to Dr. McKamy and LANL NCS Management.

As was indicated above, there are six attachments. The subject for each is as follows.

Attachment 1: A copy of the CSSG subgroup tasking.

Attachment 2: December 5, 2013 Telecon minutes

Attachment 3: January 8, 2014 Telecon minutes

Attachment 4: January 15, 2014 Telecon minutes

Attachment 5: February 5, 2014 Telecon minutes

Attachment 6: March 5, 2014 Telecon minutes

Attachments 2-6 provide discussions of the subjects, the resolution and any deliverables or actions recommended by the subgroup to LANL. As can be seen from the attachments a wide ranging array of items were covered by the subgroup including: evaluation of recent changes to the LANL T&Q program, commenting on the proposed approach for Criticality Safety Officers, selection and justification of a margin of subcriticality, membership and organization of a newly stood up Criticality Safety Review Committee, and use of limits and controls more restrictive than those in Criticality Safety Evaluations.

The CSSG subgroup was comprised of:

Jerry McKamy, team co-lead (ex-officio)

Fitz Trumble (URS), team co-lead

David Erickson (SRNS)

David Hayes (LANL)

Jim Morman (ANL)

Bob Wilson (DOE-EM)

Kevin Kimball (Y-12)