

CSSG Periodic Telecon
April 1, 2015
Agenda

Participants:

CSSG: Erickson, Trumble, Kimball, Wilson,

Others: McKamy, Hicks, Dunn, Fergus, Garrett Smith, Sam Rosenbloom, Terry Foppe,

Old Business:

Discuss status of taskings:

2015-03: AA Handbook Ch4 Revision (with DOE/Task Team)

AA Handbook Scope – acceptable methods to demonstrate compliance with 3009-2014. Make a portion of the AA handbook be methods to implement 3009-2014, Chapter 4 is focused on criticality safety. 3010 can be used to demonstrate compliance, but the AA handbook can point to other methods that are available. Goal is for this Ch 4 to not fix the ills of 3010. Work through methods that are useful to users of 3009-2014. The new 3009 does allow approaches different than 3010. Developing more appropriate facility conditions is allowed.

General feedback is that Ch 4 not liked due to issues with 3010. Also new information is now available (old may be no longer available). NCS community recognized that 3010 may have issues, there is not clear guidance on how to evaluate consequences from a criticality. Good to allow for historic information to be utilized in place of 3010. Would like allowances of what can be done, not necessarily how. 8.23 helps identify a reasonable conservative dose to support, but 'truly bounding' is not as helpful for CS.

3010 was written as how it impacts the public. For CS the bounding values were increased to estimate release to public, but in doing so it increases the dose (fission yield) to the co-located beyond reasonable. Want allowance for them (fission yields) to be facility specific, but 3010 does not provide that guidance.

CS and NS have to work together to address the dose issue. Needs to back off from the prescriptive portions, and provide more generic guidance.

Come up with a process to appropriately protect the co-located worker (100m), a narrow scenario. Therefore the truly bounding value is lost. Reasonably conservative is better.

Recap – guidance to the analyst on how to conservatively estimate the total fissions, and resulting fission products, transport is left to usual methods. This is only for CS and to work with NS to protect the co-located by utilizing a reasonably conservative dose. Add cautions to use of 3010 because not designed for that method.

Fission yield should be the focus. Trouble is that this is for unmitigated, and knowing what the unexpected is, is difficult. Use of an integrated dose takes the time consideration out of it.

Action: Foppe/Hicks draft revise Tasking, target revision date April 10, send to other team members for review, then provide to Chair/Deputy to finalize and have re-approved (Target for re-approval April 20).

Action: Foppe will make first cut at revising Chapter 4 then send to Hicks/Wilson for review. Will share with rest of team and then with CSSG. Target draft date by end of April.

2014-02: Validation (Trumble)

Discussed example, not needed as should be included to revision of ANS-8.24. Note sent to Glenn Christenbury for concurrence, then tasking should be wrapped in the next few weeks.

2014-03: Pu Handbook (Erickson/McLaughlin)

Draft was provided to the CSSG, but have received comments from only a few people. A question regarding problem with Pu forming a gel if acid molarity is insufficient arose. While Pu polymerization should be covered in the chemistry section – words in this section should be added to state that Pu-polymerization should be considered as a potential failure if concentration is used as a control as it can take a solution to a slurry in very little time.

Action: CSSG comments NLT COB April 8.

Action: Erickson share Pu gel issue with coordinator for consideration by Chemistry author(s)

Action: Erickson – incorporate any received comments, finalize draft of chapter and 'issue'. Target April 13,

2015-01: UPF CTF Interpretation (TBD)

Tasking signed today, and will be shared. Kickoff telecon by Team April 7th. Earliest first draft is appreciated.

2015-02: 3007 Revision (Erickson)

Engaging CSCT and EFCOG/SAWG chairs to get input on scope of revision and volunteers to support writing effort. Process will then begin with smaller team drafting the 1st stage of the tasking to identify scope/schedule for revision. Tasking will support identifying membership for writing group, i.e., some from CSSG, CSCT and EFCOG. All three groups will be involved in review for consensus

Action: Kimball has the lead. Erickson to provide input from other groups.

2015-04: STD-1020 Revision (Kimball)

After Tasking response/letter received some welcome editorial assistance from Trumble, the Tasking has been sent to Jerry for approval. (during call he approved issuance.)

New Business:

Thoughts/Actions from CSSG Leadership Telecon

CSSG/NCSP leadership has telecon every 6 weeks, the week prior to the full CSSG telecon, so last week. Minutes are posted post on the NCSP website. (Also generate minutes from this meeting.) There was nothing contentious and you should have heard about most if not

everything discussed before. However, please visit the website and read these and other new documents.

Minutes from the LLNL meeting have been finalized and will be posted soon.

New member committee (Erickson, Mormon, Wilson)

Requesting nominations for replacement for Adolf Garcia. Feel free to re-nominate people nominated before. Also, we want to increase the pool size, so we also have the opportunity to mentor people, so think 'outside' the normal box. Nominations requested by the end of April.

Committee will be discussing the capabilities needed, to help during review of nominees.

LANL Status – Jerry McKamy being re-engaged at request of LANL (visiting last week of April). T2 Lathe eval has stirred up some significant issues. Several identified: causes of incorrect validation use raises questions regarding author/reviewer capabilities; labeling is still an issue. (Additional discussion not shared due to sensitivities)