



TO: Distribution  
 FROM: M. Quinn  
 SUBJECT: Radiation Safety Subcommittee Meeting of November 6, 2019

## MEMBERS (P=Present, A=Absent):

S. Borton	A	M. Quinn, Chair	P	K. Graden	P	N. Chelidze	P
D. Cossairt	P	J. Compton	P	D. Hockin	P	D. Reitzner	P
D. Hahn	P	S. McGimpsey	P	W. Schmitt	P	M. Schoell, Deputy Chair	P
K. Vaziri	P	T. Busch	P	M. Zientarski	P	K. Gollwitzer	P
R. Madiar	P	D. Newhart	P	C. Mansfield	P		

**New Business:**

- New Triennial Assessment Plan** – M. Quinn proposed a plan to have RSSC members perform triennial assessments per 10 CFR 835, Occupational Radiation Protection. Four subparts would be reviewed each year, with one subcommittee member would take the lead on a particular subpart, The review team will then deliver a report to RSSC. The first planned subparts are E, I, J, and N. M. Quinn will meet with the first four reviewers early in CY20 to kick off the effort.
- Safety Assessment Document reviews** – The SAD review subcommittee is reviewing Chapters 1-10 of the SAD, along with the FAST chapter and the Accelerator Safety Envelope. The proposed changes will be sent to the Director and FSO for approval.
- MI-40 sump pump failure** - A sump pump in the MI-40 region failed, causing a flood in the area. The pump was outside of the absorber room, but water made its way into the absorber room, which is posted as a contamination area. Because of the concern for possible contamination on people, workers washed their hands in the MI-40 service building and had clothing removed. Workers were taken to Site 39 so that further washing could be done and personnel wipes could be taken. All samples of water and wipes of people and areas showed no gamma emitting radioactivity. Joe Compton is the lead on the HPI.

**Old Business Carried Forward from the September 4, 2019 Meeting**

- Origins of Alignment Surveys** – W. Schmitt brought a potential problem that has come to his attention. There appears to be no written policies written anywhere that set forth what alignment surveys are acceptable. Most alignment surveys in the past have originated from the Fermilab Alignment Group. However, Wayne discovered that there are now surveys being performed by construction contractors that are being handed over to the Laboratory. While it is believed that all surveys of beamline/accelerator components have been conducted and results maintained by the Alignment Group, this might not apply to surveys of final shielding configurations, etc. This needs

to be pursued further in view of the potential significant ramifications. This may be even more important as construction activities continue to “ramp up”.

5. **Access Confusion to MI-65** –J. Compton reported that two shifts of the Fire Department have been LOTO trained as recommended by the review of FD access into MI-65.
6. **IERC** – M. Schoell reported that RCTs continue to provide coverage and oversight. The project is nearing the end of RCT soil surveying requirements.
7. **IERC Soil Density Gauge** – K. Graden reported that proposed requirements are being added to FRCM chapter 3. The chapter will be sent out for lab-wide review.
8. **Shutdown** – Return to regular operations is nearly here. Beam is being delivered to BNB, while NuMI is still performing target scans with per operating note. The target hall dehumidifiers have been fixed. Once the scans are finished, the shielding wall will be replaced and normal running will resume.
9. **Mu2e** –M. Schoell reported that the M4 line post-assessment memo has been approved, and the USID has been signed by Nigel. The start-up check list still has to be completed before beam can be sent to g-2.
10. **Review of Radiological Training** –K. Graden reported that she and N. Gee are working on knowledge check questions that will be put into the revision. This is the last step before the updated training is rolled out.
11. **Contamination in Enclosures** – M. Schoell reported that the wipe counter sensitive to Be-7 has arrived. Check sources are being ordered. S. McGimpsey is compiling survey results for Be-7, and will use this shutdown’s post decon results as a baseline going forward. Regular wipes will be taken to check for the presence of Be-7, and the results will continue to be monitored.
  - a. **Revisions to Manual Chapters on Water and Air** – D. Cossairt reported that FRCM Chapters (3 and 11) and two FESHM Chapters (8025 and 8026) should appear for labwide review soon. Chapter 3 is almost ready to be issued for review. Ch 11 has action levels for water and air, and will be sent to Tritium Task Force for review and then for lab-wide review.
  - b. **Nuclear Medicine Treatment Self-Identification** –K. Graden is reviewing proposed changes to CH 9.
  - c. **SARP** –K. Gollwitzer reported that the 3 items currently being reviewed by SARP; E1039, PIP2IT, and the P3 Switchyard addition are nearly through review. Two should be done in a week, the third should be done soon as well.
12. **Mu2e Diagnostic Absorber ARR** -An accelerator readiness review (ARR) for running to the Mu2e diagnostic absorber is being planned. The review is likely to be held in February or March.

13. **ITA** - Work on the planned Irradiation Test Area is progressing progressing. The facility will need a new shielding assessment, SAD and ASE update.

**ALARA Topics**

- a. **NuMI Target Hall Crane** – T. Busch reported that a failed controller of this crane was replaced shortly after the last RSSC meeting. The Neutrino Division DSO reported via email that using the target hall as an emergency escape from MINOS would be very unlikely.

**PLACE AND DATE FOR THE NEXT MEETING: THE NEXT MEETING WILL BE ON DECEMBER 4, 2019 AT 2:00 PM IN THE CROSS GALLERY HUDDLE.**

**Distribution via E-Mail–**

Amber Kenney – Chief Safety Officer	Mike Bonkalski – Deputy Chief Safety Officer
John Anderson	Bridget Iverson
Eric McHugh	Joel Kofron
Raymond Lewis	Subcommittee Members
Others Present	