

January 8, 2020



TO: Distribution  
FROM: M. Quinn  
SUBJECT: Radiation Safety Subcommittee Meeting of December 4, 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	A	T. Busch	P	M. Zientarski	A	K. Gollwitzer	A
R. Madiar	A	D. Newhart	P	C. Mansfield	A		

**New Business:**

1. **ARR Muon Campus 13 W Beam** to the Diagnostic Absorber scheduled for February 18-20, 2020.
2. **Mixed Waste Shipment** D. Hockin reported that HCTT is planning on shipping out some mixed waste this year. Would like to use micro shield to survey. T. Busch has 2-3 drums of equipment, including phones that will need to be dismantled, and D. Hockin has a few pallets (CDF detector, lead shot from Meson Shield building across from SBSB, material from IB-2 Boneyard). Would like to have this shipment by mid-summer. Will need to coordinate time with RPO RCTs for their portion before start of 2020 shutdown, starting in June.
3. **10 CFR 835 Assessment** M. Quinn will schedule time in early February with D. Hahn, W. Schmitt, D. Newhart, and J. Compton to start planning this review.

**Old Business Carried Forward from the December 2019 Meeting**

4. **LBNF** S. McGimpsey reported that silt fence is installed. Meeting with LBNF project to discuss signage, job-specific training, escorts, survey frequency requirements, what to do with activated soil/material, etc.
5. **Safety Assessment Document reviews** –M. Schoell reported Muon Campus SAD chapter being edited, will go to SAD Review Committee soon. Other chapters under review: MTA->ITA, 1039.
6. **MI-40 sump pump failure** - The HPI for the MI-40 region sump pump failure is complete. J. Compton reported that he's doing HPI presentation for IPS tomorrow. ~12 recommendations that need to get assigned in iTrack.
7. **Origins of Alignment Surveys** –W. Schmitt reported that there will be some changes to FRCM Ch 8 Article 811 to clarify requirements for personnel outside of alignment group to perform alignment measurements. Adds in an approval requirement, by FESS & ESH combined, on how information is obtained to ensure drawings are compliant with all requirements (rad and facility).

8. **IERC** –N. Chelidze reported that TLM studies were completed successfully, TLMs were interlocked and Running Conditions updated. Work allowed when beam running. Currently no work going on outside by contractors.
9. **Shutdown** –N. Chelidze reported that total dose for the shutdown, July 7 through October 20, was 4053 person-mrem. This was presented at the December FESHCom. Work continues on memo. M. Schoell & N. Chelidze will have something to share for February meeting.
10. **Review of Radiological Training** – K. Graden sent final draft out for final review for comments and then will be ready to roll out. M. Schoell reported that new Practical Factors going well: new trainers and more rad material to survey (no more plate!), and that feedback is positive.
11. **Contamination in Enclosures** – Check sources for Be-7wipe counter have been ordered. RPO is reviewing where to locate these sources. M. Schoell reported that we're still waiting for the purchased sources, but are using FNAL sources to calibrate. T. Busch reported that well 6 did not function correctly. RPO is in communication with the manufacturer to get the issue fixed. May need to have vendor come on site to take a look.
12. **Revisions to Manual Chapters on Water and Air** – D. Cossairt reported that FESHM 8025 and 8026 and FRCM Chapter 3 and 11 are coming up to the end of a one year effort between Tritium Task Force, RP and EP to update all chapters simultaneously. Moving environmental aspects from FRCM Ch 3 to FRCM Ch 11. Ch 3 will also have articles on how to handle density gauges. Chapters will be out for review soon.

Other chapters being updated: FRCM Ch 8 (updates mentioned above) and Ch 9 to allow for non-radiological workers to declare nuclear medicine tests

13. **SARP** – W. Schmitt reported that SARP has given provisional approval for 1039, awaiting SRSO signature. Currently working on Muon Campus 13W Beam to the Diagnostic Absorber Addendum. RPS is working with ITA to craft their Shielding Assessment, significant modifications are required to the spreadsheets, before having something that is in a place for submitting to RPS for review.
14. **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. An ARR chair has been secured. M. Quinn and M. Schoell will meet with them this week to discuss the review team make up and preliminary LOIs. Discussion with the Mu2e project and AD Muon Dept, about CRADs, LOIs and presentations have been ongoing.
15. **ITA** - Work on the planned Irradiation Test Area is progressing. The facility will need a new shielding assessment, SAD and ASE update. Still waiting for shielding assessment and SAD. Work is progressing on these items, but there are no documents ready for review yet. S. McGimpsey reported that we're working out logistics of material receipt, storage and shipment. Material will need to be refrigerated, and they're looking into a lead lined fridge that could be stored in the counting room. Need to understand where rails go to move material in and out of the cave, and process for if material is to be irradiated outside of the cave. Also understanding what the process would be if material needs to go to FTBF. Still waiting for Shielding Assessment.

## ALARA Topics

**Operations**

Beam everywhere except NM, back up to full power and tuning for efficiency.

**PLACE AND DATE FOR THE NEXT MEETING: THE NEXT MEETING WILL BE ON FEBRUARY 5, 2020 AT 2:00 PM IN THE CROSS GALLERY HUDDLE.**

**Distribution via E-Mail-**

Amber Kenney – Chief Safety Officer	Mike Bonkalski – Deputy Chief Safety Officer
Eric McHugh	Bridget Iverson
Raymond Lewis	Nicole Gee
Others Present	Subcommittee Members