



May 6, 2020

TO: Distribution

FROM: M. Quinn

SUBJECT: Radiation Safety Subcommittee Meeting of May 6, 2020

MEMBERS (P=Present, A=Absent):

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

Others Present: T. Busch

New Buisness

- MI-65 Roof Repair** - M.Quinn reported that a leak was discovered in MI-65 roof last week. Samples of the water showed low (~16 pCi/mL) levels of tritium. Repair work planned for tomorrow (5/7). T. Busch noted that they won't be removing any material from the roof, will only be adding boards/tar to repair. With no agitation of material and low tritium levels, RP on board with work proceeding.
- Electronic RWPs** – M. Schoell reported work on new website to allow for electroni signatures of general enclosure RWPs.
- New Cameras for RPCF** – M. Zientarski was notified by Joe Rogers that part of their security upgrades included upgrades to FIRUS and removing antiquated sensors. RPCF has end-of-life systems in place, so will be removed and replaced with motion sensing cameras and AI system to monitor ground floor exterior doors, nothing added internally on the cave doors. M. Zientarski's concern is that the current system won't let you make up the alarm if the cave door is left open, this layer of control would not be maintained in new system. K. Graden reviewed updated system and confirm that we're protected and will still fall under the needed safeguards for RPCF. K. Graden coordinated with Joe Rogers to update Safeguards & Security and MC&A Plan, which is currently under revision. The MC&A plan will include both the previous FIRUS system and the new AI system, in order to cover both methods.
- Analyst** – M. Zientarski reported that the Instrumentation team receiving multiple calls about Analyst instruments not working properly. Appears that users have the switch in the wrong position. They're proposing to add a sticker with instructions for proper knob locations. Will likely do something similar for Friskers. Please let M. Quinn and M. Zientarski know if you have any questions/suggestions.
- Expired Friskers/Wallflowers in Building 327** – M. Zientarski reported that some instruments (dosimeter charger & 1 wallflower) in Building 327, used for Practical Factors training, are expired. There are two other wallflowers within calibration. M. Schoell reported that since we're not

currently giving training, and have other calibrated instruments available, calibration of these instruments can be a lower priority.

Old Business Carried Forward

6. **COVID-Safe Mode** – M. Schoell reported that the lab is currently in a COVID-safe state due to the COVID-19 pandemic, with limited operations on site.:
 - Accelerators have been locked off. Beam Permits & Running Conditions were rescinded by AD Division Head April 10, 2020.
 - Q1 dosimeters will be picked up tomorrow (5/7).
 - Practical Factors training classes have been cancelled. 10 CFR 835 does not require hands training for requalifying radiological workers, so we've been working with individuals on a case-by-case basis to renew qualifications as needed. If they've taken the updated RW-C(V) (on or after February 6, 2020) and have taken RW-PF within the last 25 months (within 2 year requalification or just expired in the previous month), they will be asked to review updated PF slides (available online) and RSO will give updated qualification.
 - Kathy G. working with the Training Group to make this a more permanent change within the TRAIN system – allowing for a requalification test for individuals within
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 - Received a waiver to current MC&A plan for forgoing quarterly report (required internally, regulations require annually) and postponing annual physical inventory until MBA custodians are back on site (required annually internally, regulations require every 2 years). K. Graden also working on updating MC&A plan to make these changes permanent. Thanks FSO for moving that forward!
 - R. Madiar recommened (at the April meeting) working with FSO on if any exemptions are needed. J. Blakie available for consultation if needed.
 - Secretary of Energy did issue a memo allowing for some relief of some safety & health regulations. ES&H is reviewing that memo now to see what relief we will take advantage of.
 - MC&A plan waiver appears to be the only relief needed/asked for by RP.
 - Lab is working on developing return to on-site work plan
 - ESH reviewing D/S/P planned work to understand ESH/RP support. Will continue to monitor to coordinate/provide support as plans change.
7. **MI-40 Sump Pump Failure** – M. Schoell reported that RAF results showed low activity levels in the water, proceeded with pumping water out prior to work. No contamination found in the non-posted hallway after water removed. Repair work completed. Continuing to follow-up with AD and FESS on getting more complete repair work completed.
8. **BODA Alpha Meter** – Currently due for calibration at the end of April. M. Zientarski is aware and working on plans to calibrate it. Work delayed due to COVID-19. Will have to be addressed when Instrumentation returns to the Lab.
9. **Request from FESS to bring U. Florida x-ray Field System on site** – K. Graden reported that she was contacted by FESS with this request to study tree root mass through “our National Environmental Research Park program”. Additional follow-up with RP and ES&H will be needed. K. Graden provided TSW website to FESS, waiting for response. K. Graden will be delayed at least until the fall, pending issues with their grant. Also depends on return to normal work.

10. **JULIE Expiration Question** –W. Schmitt continuing to work the FESS on resolving questions about JULIE closure/extensions. There are some questions beyond RP concerns, so FESS and ESH Construction Group need to continue to discuss, unclear if this has happened. W. Schmitt will continue to follow-up on.
11. **NEXUS DD Neutron Generator** – In April, N. Chelidze reported that it's still in the Mu2e alcove 3 pit, off and in safe state (keys for the deuterium bottle and interlock reset are locked in RSO key cabinet). Still need to work with vendor to finalize acceptance testing. Work paused during COVID-safe state. Will need to confirm next steps when back to normal operations. D. Hahn reported that it's still there and still hasn't passed it's acceptance test. On hold while we're in COVID-safe mode.
12. **Instruments** – Working on OWL specifications. Will meet with “Future Radiological Instrument Needs” group soon. M. Zientarski reported that work is progressing. M. Zientarski waiting to meet with A. Olson to discuss new OWL specifications. Will then need to bring up to “Future Radiological Instruments” subcommittee.
13. **10 CFR 835 Assessment** - - W. Schmitt reported that they're on track to submitting a final report by May 15th, as scheduled. It was a pretty thorough review of the regulations and our program and found no major findings. Thank you Dee, Wayne, Duane and Joe!
14. **LBNF**
 - a. Site Prep/work planning: S. McGimpsey reported work ongoing.
 - b. Sue working on soil management plan/documentation.
 - c. Signs for “no excavation” line put in place.
 - d. New job-specific training generated for workers within the “no excavation” line, and S. McGimpsey has started providing training to subcontractors.
15. **Safety Assessment Document reviews** –MTA SAD waiting for SA to be approved.
16. **IERC** –M. Schoell reported that we're still waiting for IERC alignment to mark the “no excavation line”. Have been asking every week or so with no response. Will need to follow-up again.
17. **Contamination in Enclosures** – S. McGimpsey working on bringing multi-cell wipe counter online. One cell is still broken, will need to continue working with manufacturer to repair, but will still be able to use with other cells. S. McGimpsey also reported that the MI-30 collimator aisle was deconed. RPO looking into permanently posting just the beamline components, and having aisle postings removed/replaces as needed.
18. **SARP** – W. Schmitt reported SARP is currently working on the MTA assessment, specifically sky shine analysis.
19. **Mu2e Diagnostic Absorber ARR** –M. Schoell reported that the final report was received and all items entered into iTrack. Pre-start for self-identified enclosure/beam things. Post-start for program improvements.

20. **MTA -** Work on the planned MTA (400 MeV Test Area)/ITA (Irradiation Test Area) is progressing. The facility will need a new shielding assessment, SAD and ASE update. SARP currently reviewing shielding assessment. SAD being worked on. Activity of equipment is being calculated and analyzed to better understand requirements/process for sample retrieval, storage, shipment, etc. S. McGimpsey working on procedures for handling equipment, etc. for work once the facility is approved to start. On hold during COVID-safe.

ALARA Topics

21. Summer shutdown planning. Still need job plans for RSO review. Schedules being re-worked due to work group availability. Job plans being re-worked including COVID-19 restrictions.
- NuMI target module job being planned for shutdown. Anticipated to be a higher dose job. The crew is thinking about doing mock-ups.
 - NuMI may have additional horn & target change outs planned for shutdown.
 - MI collimator work being planned for shutdown.
 - NuMI work will depend on NTSB crane repair work being completed (currently on hold during essential work mode). Will also depend on machine shop availability to create parts.

Operations

MCR reconfigured with enhanced exposure controls.

PLACE AND DATE FOR THE NEXT MEETING: THE NEXT MEETING WILL BE ON JUNE 3, 2020 AT 2:00 PM IN THE CROSS GALLERY HUDDLE OR VIA ZOOM (MEETING INFORMATION WITHIN OUTLOOK CALENDAR EVENT).

FY2020 Minutes: ESH DocDB 5337

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