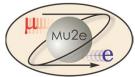


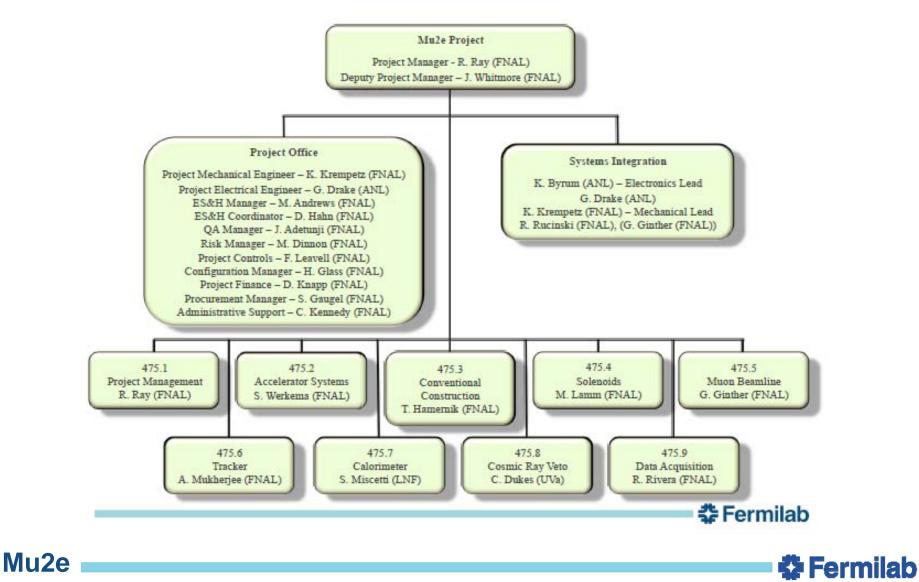


Mu2e Grounding & Shielding Review Charge & Logistics

Gary Drake Mu2e Electronics Integration Engineer For the Mu2e Integration Team May 10, 2016



Project Organization



Mu2e Grounding & Shielding Review - Charge & Logistics - G. Drake - May 10, 2016

Review Logistics

- Review Indico page:
 - https://indico.fnal.gov/conferenceDisplay.py?confld=12067
- Basis for the Review:
 - Mu2e-doc-7254
 Mu2e Electrical Grounding and Shielding Policy Version 1.4
- Reviewers:
 - Steve Chappa
 - Marvin Johnson *
 - Rick Van Berg
 - * Chair





Review Logistics

- The Mu2e Review Process
 - All Mu2e subsystems undergo an external peer review, leading to the CD-3c Review & Construction Readiness Reviews
- Current Status of the Mu2e Grounding & Shielding Plan
 - Overall plan is in place
 - However, the design of the subsystems is not complete
 - Many construction details not yet complete
- This Review
 - We ask that you review the overall plan, and as much of the details that are described
- Subsequent Review
 - We envisage that there will be a final review of the Grounding & Shielding
 Plan once the final subsystem designs are complete



Review Charge

- Charge Preamble
 - The purpose of this review is to evaluate and assess the soundness of the overall plan, and to provide the integration team and project management with any suggestions or concerns that you might identify. Because the designs for the detectors are generally not complete as yet, please note that there remain implementation details for the subsystems that are not yet fully worked out or documented. *As such, the scope of this review is to evaluate the soundness of the overall plan and philosophy for the experiment, identify any technical issues or risks, and to evaluate how safety is integrated into the plan.* We will have a final review of the systems, at which time we expect to have all implementation details described.





Review Charge (Cont.)

- Charge Questions
 - 1. Does the overall plan for the grounding & shielding of the Mu2e experiment adequately address the likely or potential noise problems that the experiment might encounter? Is it likely that the grounding & shielding plan will allow the experiment to achieve the required noise performance for each subsystem?
 - 2. Is the technical design of the grounding & shielding technically sound? Have all the principal issues been addressed in the design? Aside from implementation details that remain to be worked out and documented, are there any outstanding concerns that need to be addressed?
 - 3. Are there any significant risks in the grounding & shielding design? Have mitigation plans been adequately developed?
 - 4. Has electrical safety been adequately addressed and included in the design? Are there any outstanding safety concerns or issues?



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Review Timetable

Mu2e

	Tuesday, Ma	y 10, 2016
ew	08:00 - 08:30	Executive Session (Closed Session) 30' Speaker: Gary Drake (Argonne National Laboratory)
etable	08:30 - 09:10	Overview & Introduction 40' Speaker: Gary Drake (Argonne National Laboratory)
	09:10 - 09:30	Tracker 20' Speaker: Dave Huffman (Fermilab) Material: Slides
	09:30 - 09:50	Calorimeter 20' Speaker: Ivano Sarra (INFN) Material: Slides 🛐 🔂
	09:50 - 10:10	Cosmic Ray Veto 20' Speaker: Sten Hansen (Fermilab) Material: Slides
	10:10 - 10:30	Coffee Break
	10:30 - 10:50	Solenoids 20' Speaker: Dr. Andy Hocker (FNAL) Material: Slides
	10:50 - 11:10	Stopping Target Monitor 20' Speaker: George Ginther (University of Rochester)
	11:10 - 11:30	Extinction Monitor 20' Speaker: Peter Kasper (Fermilab) Material: Slides 🛐
	11:30 - 11:50	TDAQ 20' Speaker: Mr. Ryan Rivera (FNAL) Material: Slides 😰 🕝 🔂
	11:50 - 12:10	Detector Controls & Monitoring 20' Speaker: Glenn Horton-Smith (KSU) Material: Slides 🔂
	12:10 - 12:30	Facilities & Safety 20' Speaker: Mr. David Mertz (Fermi National Accelerator Laboratory) Material: Slides
	12:30 - 13:30	Lunch
Mu2e Grounding & Shieldin	13:30 - 16:00 16:00 - 16:20	Executive Session (Closed Session) 2h30' Closeout 20'

