



U.S. Muon Accelerator Program Memorandum

June 21, 2012

From: Mark Palmer, Director, U.S. Muon Accelerator Program
To: Speakers at the 2012 MuPAC Review
Subject: Guidance and Supporting Information for Your Presentations

This memorandum provides speaker guidance for the 2012 MuPAC Review to be held July 11-13 at Fermilab.

Supporting information for the review is posted at:
<http://map.fnal.gov/reviews/MuPAC/>

The Indico site for the review is located at:
<https://indico.fnal.gov/conferenceDisplay.py?confId=5708>

Practice talks for the review will be held on Thursday and Friday, July 5-6. As the dates approach, we will set up a private Indico site for the practice talks. We are tentatively planning to utilize WebEx for the practice talks and the review itself. Some conflicts have already been noted and we will plan to hold a shorter make-up session on Monday, July 9th. Please contact your L1 manager and myself with any known conflicts as soon as possible.

Recent discussions with the DOE have emphasized the fact that our funding guidance is inconsistent with a total duration of 5 years for the MAP feasibility assessment effort. Our current projections are that, with our likely funding profile from DOE, we will not be able to integrate sufficient effort to achieve the program goals before roughly 2018. This has led to development of the following timeline, which will influence the structure of your presentations. The MAP Feasibility Assessment Phase will be broken into two three-year elements:

- MAP FP I: FY13-15 with major emphases on –
 - Baseline selections for the design approaches and technologies required in each of our major design areas
 - Identification of alternative design approaches which have significant promise for performance gains and/or cost reduction in the final design
 - Utilizing the baseline selections to develop formal specifications for the technologies required to demonstrate conceptual feasibility
 - Carrying out demonstrations of key technologies
 - This includes support for the ongoing MICE experimental program (including hardware deliverables)
 - Support for completion of the IDS-NF Reference Design Report



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- Evaluating the expected performance of the baseline design concepts
- MAP FP II: FY16-18 with major emphases on –
 - Continued development of baseline and *high leverage* alternative design concepts and evaluations of expected performance
 - Technical demonstrations tied to critical feasibility issues
 - A formal assessment of the technical and cost feasibility of the baseline concepts
 - Support for major systems tests
 - Includes MICE Step V/VI
 - 6D ICE planning
 - Preparing for a post-Feasibility Phase effort which will hopefully include
 - The launch of a full conceptual design effort
 - Advanced systems studies
 - A staged R&D program coupled to providing physics at the Intensity and eventually the Energy Frontier

The overall structure of the review is organized in the following way. Talks by the management team will cover the major program thrusts, procedures, key initiatives and overall schedule information. Talks by the Level 1 managers will provide area overviews, important highlights, as well as detailed schedule and budget information. Level 2 managers will focus on key aspects of the R&D effort. In general, talk lengths should be targeted at roughly two-thirds of the allotted time with the remainder being left for discussion. Thus for a typical 35 minute L2 manager presentation, <25 minutes should be used for the talk itself. We plan a special “highlights” session with either talks or posters by some of our younger researchers.

For Level 2 Managers:

It is requested that you address the following issues in your talks:

- R&D progress during all of FY11 and FY12 up to the time of the review (this will cover all work since the time of the MAP proposal review by the DOE).
- Respond to issues raised in your management area during the MAP Proposal Review – please coordinate with your L1 manager on the detailed responses
- R&D plans for the next year
- R&D goals for the whole of MAP FP I
- A first look at likely critical topics for MAP FP II

Please read the Review Committee Charge and tailor your talks accordingly to help the committee complete the requested evaluations.

Powerpoint and LaTeX slide templates are available from the <http://map.fnal.gov/reviews/MuPAC/> link. A preliminary version of the agenda is also available at this location.



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Please do not hesitate to contact me, or a member of the L1 management team, if you have questions.

cc: Rick Fernow, BNL
Rob Ryne, LBNL
Alan Bross, FNAL
Dan Kaplan, IIT
Ron Lipton, FNAL