



Review Committee for the

Muon g-2 Project

Fermi National Accelerator Laboratory

September 17-18, 2013

Kurt W. Fisher
Review Committee Chair
Office of Science, U.S. Department of Energy
<http://www.science.doe.gov/opa/>



DOE EXECUTIVE SESSION AGENDA

Tuesday, September 17, 2013—Wilson Hall, Comitium

8:00 a.m.	DOE Executive Session.....	K. Fisher
8:10 a.m.	Program Perspective.....	T. Lavine
8:20 a.m.	Federal Project Director Perspective.....	P. Philp
8:40 a.m.	Questions	
8:45 a.m.	Adjourn	

Project and Review Documents may be accessed at:

[Muon g-2 Project review documentation webpage](#)

USERID: G2Mreviewer PASSWORD: g2mrev



Kurt Fisher, DOE/SC, Chairperson

SC1

Beamline

* Rod Gerig, ANL

SC2

Storage Ring

* Marc Ross, SLAC

SC3

Detectors

* Bill Wisniewski, SLAC

SC4

Engineering

* Ken Fouts, SLAC

SC5

Cost and Schedule

* Ethan Merrill, DOE/SC
Frank Gines, DOE/ASO

SC6

Project Management

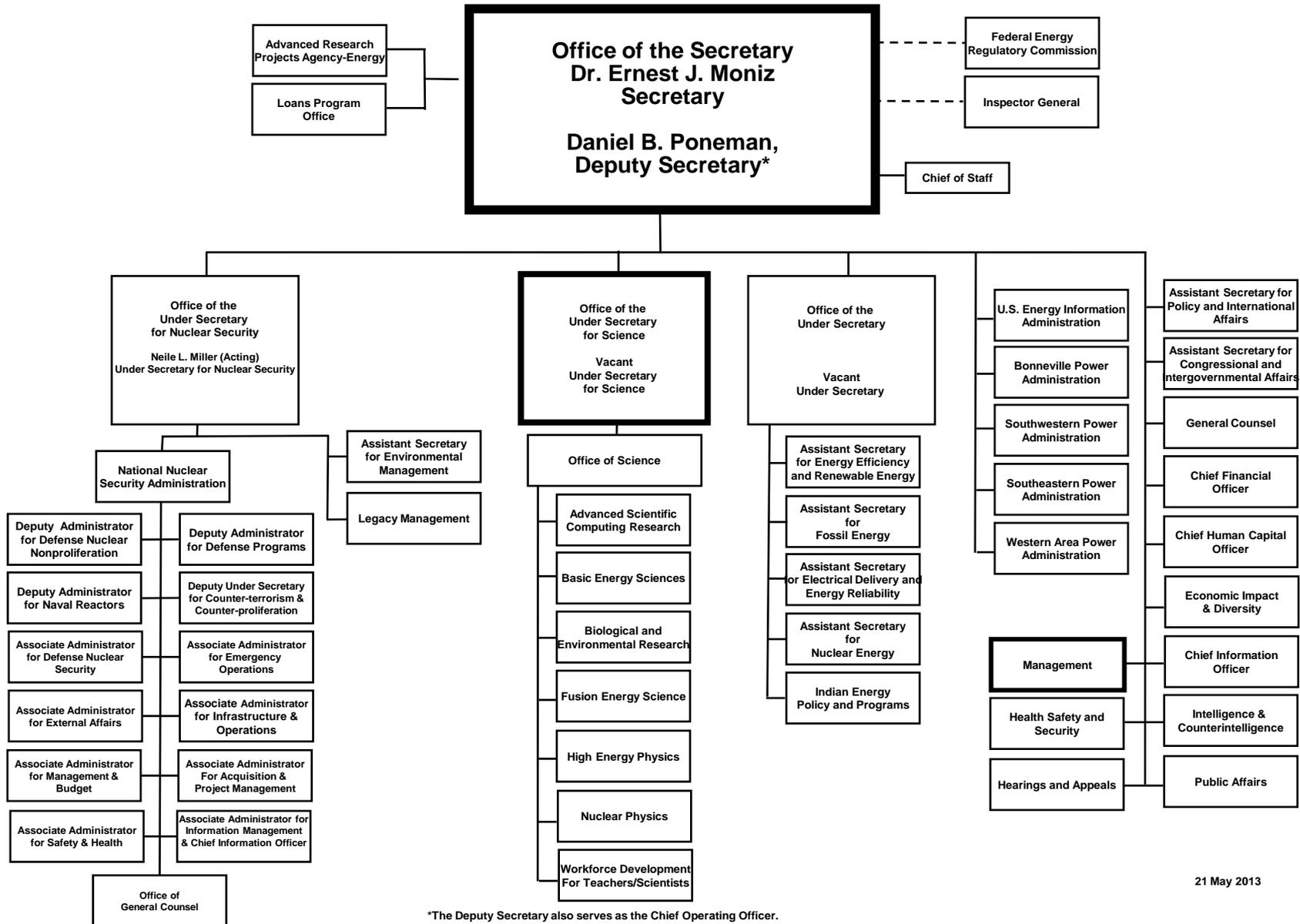
* Dan Green, Retired, FNAL
Jeff Sims, ANL

Observers

- Jim Siegrist, DOE/SC
- Mike Procaro, DOE/SC
- Alan Stone, DOE/SC
- Ted Lavine, DOE/SC
- Tim Bolton, DOE/SC
- John Kogut, DOE/SC
- Paul Philp, DOE/FSO
- Pepin Carolan, DOE/FSO
- Alan Harris, DOE/SC
- Mark Bollinger, DOE/FSO
- Michael Weis, DOE/FSO
- Robin Noyes, DOE/APM

LEGEND

- SC Subcommittee
- * Chairperson



*The Deputy Secretary also serves as the Chief Operating Officer.



Office of the Director (SC-1) Patricia M. Dehmer (A)

Deputy Director for Field Operations (SC-3) Joseph McBrearty

- Ames SO Cynthia Baebler, Argonne SO Joanna Livengood, Berkeley SO Aundra Richards, Brookhaven SO Frank Crescenzo, Fermi SO Michael Weis, Oak Ridge SO Johnny Moore, Princeton SO Maria Dikeakos, Pacific NWest SO Roger Snyder, Stanford SO Paul Golan, Thomas Jeff. SO Joe Arango, Chicago Office Roxanne Purucker, Office of Lab Policy & Evaluat. (SC-32) D. Streit, Office of Safety, Security & Infra. (SC-31) D. Streit (A), Oak Ridge Office Larry Kelly, SC Integrated Support Center

Deputy Director for Science Programs (SC-2) Patricia M. Dehmer

- Advanced Scientific Comp. Research (SC-21) Barbara Helland (A), Basic Energy Sciences (SC-22) Harriet Kung, Biological & Environ. Research (SC-23) Sharlene Weatherwax, Fusion Energy Sciences (SC-24) Edmund Synakowski, High Energy Physics (SC-25) James Siegrist, Nuclear Physics (SC-26) Timothy Hallman, Workforce Development for Teachers/ Scientists (SC-27) P. Dehmer, Office of Project Assessment (SC-28) Daniel Lehman, Small Business Innovation Research (SC-29) Manny Oliver

Deputy Director for Resource Management (SC-4) Jeffrey Salmon

- Office of Budget (SC-41) Kathleen Klausing, Office of Business Policy & Ops (SC-45) V. Kountouris, Office of Grants/ Cont. Support (SC-43) Linda Shariati, Office of SC Program Direction (SC-46) Daniel Division, Office of Scientific and Tech. Info. (SC-44) Walt Warnick, SC Communications & Public Affairs (SC-47) Dolline Hatchett, Human Resources & Admin. (SC-48) Cynthia Mays

(A) Acting



1. Does the conceptual design satisfy the performance requirements?
2. Do the conceptual design report and supporting documentation appropriately support the stated cost range and project duration?
3. Does the proposed project team have adequate management experience, design skills, and Laboratory support to produce a credible technical, cost and schedule baseline?
4. Are ES&H aspects being properly addressed and are future plans sufficient given the project's current stage of development?
5. Is the documentation required by DOE, satisfying Order 413.3B, ready for approval of CD-1?



Tuesday, September 17, 2013—Wilson Hall Comitium and One West

8:00 am	DOE Executive Session— Comitium (WH2SE)	K. Fisher
8:50 am	Welcome— One West (WH1W)	J. Anderson
9:00 am	Introduction and the Fermilab Context.....	S. Henderson
9:25 am	Project Overview	C. Polly
10:15 am	Break	
10:30 am	WBS 476.2 Accelerator	M. Convery
11:00 am	WBS 476.3 Ring	H. Nguyen
11:30 am	WBS 476.4 Detectors	B. Casey
12:00 pm	Lunch	
1:00 pm	Subcommittee Breakout Sessions	
	—Project Management	Comitium (WH2SE)
	—Accelerators	Snake Pit (WH2NE)
	—Ring	Black Hole (WH2NW)
	—Detectors	Racetrack (WH7XO)
3:00 pm	Break	
3:15 pm	Subcommittee Breakout Sessions Continued	
5:00 pm	DOE Full Committee Executive Session.....	K. Fisher
6:30 pm	Adjourn	



Wednesday, September 18, 2013

- 8:00 am Subcommittee Breakout Sessions Continued
- 10:00 am Break
- 10:15 am Response to Questions—**Comitium (WH2SE)**
- 12:00 pm Working Lunch (Executive Session/Report Writing)
- 2:00 pm DOE Full Committee Executive Session Dry RunK. Fisher
- 4:00 pm Closeout Presentation—**Curia II (WH2SW)**
- 5:00 pm Adjourn



Executive Summary Merrill*

1. Introduction Lavine*

2. Technical Systems Evaluation (Charge Questions 1, 3, 5)

 2.1 Detectors..... Wisniewski*/SC-1

 2.1.1 Findings

 2.1.2 Comments

 2.1.3 Recommendations

 2.2 Cryogenics..... Fuerst*/SC-2

 2.3 Engineering Fouts*/SC-3

 2.4 Accelerator Zisman*/SC-4

3. Cost and Schedule (Charge Questions 2, 3, 5)Merrill*/SC-5

4. Project Management (Charge Questions 3, 4, 5) Green*/SC-6

*Lead



Closeout Presentation and Final Report Procedures



(PowerPoint; No Smaller than 18 pt Font)

2.1 Use Section Number/Title corresponding to writing assignment list.

List Review Subcommittee Members

List Assigned Charge Questions and Review Committee Answers

2.1.1 Findings

- In bullet form, include an assessment of technical, cost, schedule, and management.

2.1.2 Comments

- In bullet form, list descriptive material assessing the findings and the conclusions based on the findings. This is narrative material and is often omitted as a separate heading and the narrative included either under Findings or Recommendations as appropriate. This heading carries more emphasis than the Findings, but does not require an action as do the Recommendations. Do not number your comments.

2.1.3 Recommendations

- 1. Begin with action verb and identify a due date.**
- 2.**



(MSWord; 12 pt Font)

2.1 Use Section Number/Title corresponding to writing assignment list.

2.1.1 Findings

Include an assessment of technical, cost, schedule, and management. **Within the text of the Findings Section, include the answers to the review questions.**

2.1.2 Comments

Descriptive material assessing the findings and the conclusions based on the findings. This is narrative material and is often omitted as a separate heading and the narrative included either under Findings or Recommendations as appropriate. This heading carries more emphasis than the Findings, but does not require an action as do the Recommendations. Do not number your comments.

2.1.3 Recommendations

- 1. Begin with action verb and identify a due date.**
- 2.**
- 3.**



Expectations

- **Present closeout reports in PowerPoint.**
- **Forward your sections for each review report (in MSWord format) to Casey Clark, casey.clark@science.doe.gov, by September 23, 8:00 a.m. (EDT).**



Closeout Report on the Review Committee for the

Muon g-2 Project **Fermi National Accelerator Laboratory**

September 18, 2013

Kurt W. Fisher
Review Committee Chair
Office of Science, U.S. Department of Energy

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5. Is the documentation required by DOE, satisfying Order 413.3B, ready for approval of CD-1?

- **Findings**
- **Comments**
- **Recommendations**



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- **Findings**
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- **Recommendations**



PROJECT STATUS		
Project Type	MIE / Line Item / Cooperative Agreement	
CD-1	Planned:	Actual:
CD-2	Planned:	Actual:
CD-3	Planned:	Actual:
CD-4	Planned:	Actual:
TPC Percent Complete	Planned: _____%	Actual: _____%
TPC Cost to Date		
TPC Committed to Date		
TPC		
TEC		
Contingency Cost (w/Mgmt Reserve)	\$ _____	_____ % to go
Contingency Schedule on CD-4b	_____ months	_____ %
CPI Cumulative		
SPI Cumulative		



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