Director's Independent Conceptual Design Review of the Muon g-2 Project

June 5-7, 2013

AGENDA

Wednesday, June 05

EXECUTIVE SESSION – Comitium (WH2SE)

8:30 – 9:00	AM	40	Executive Session	

PLENARY SESSION – One West (WH1W)

9:00 – 9:10	AM	10	Welcome	Jack Anderson
9:10 – 10:00	AM	50	Project Overview	Chris Polly
10:00 – 10:40	AM	40	WBS 476.2 Accelerator	Mary Convery
10:40 – 10:55	**AM**	**15**	**BREAK**	
10:55 – 11:20	AM	25	WBS 476.3 Ring	Hogan Nguyen
11:20 – 11:35	AM	15	WBS 476.3.8 Field	David Kawall
11:35 – 12:15	AM	40	WBS 476.4 Detectors	Brendan Casey
12:15 – 1:15	**PM**	**60**	**LUNCH – Tables Available on WH2XO**	

1:15 – 3:00 PM 105

Session 1: WBS 476.02 Accelerators **(Target, Yields, & Instrumentation)** – Comitium (WH2SE)

B01-01	(10+5)	Introduction (parallel talks, beam to Muon Campus)	Mary Convery
B01-02	(30+10)	WBS 2.2 Target Station	Dean Still
B01-03	(30+10)	WBS 2.4.3 Instrumentation	Brian Drendel

Session 2: WBS 476.03 Ring **(Storage Ring and Chambers)** – Snake Pit (WH2NE)

B02-01	(10+5)	Introduction (parallel talks)	Hogan Nguyen
B02-02	(35+15)	WBS 3.2.3.3/3.7 Storage Ring Magnet and C&I	Del Allspach
B02-X1	(5)	Cool Down & Power for Ring	Bill Morse
B02-X2	(5)	Quench Protection for Ring	Steve Chappa
B02-03	(15+5)	WBS 3.2.2 Yoke and Pole Pieces	Hogan Nguyen
B02-04	(15+5)	WBS 3.4.5 Vacuum Chambers	Hogan Nguyen
B02-05	(10+5)*	MC-1 Building Considerations	Chris Polly
B02-06	(10+5)*	Transport of the Muon g-2 Storage Ring	Del Allspach
B02-07	(10+5)*	Separating Coils and Electrical Tests	Bill Morse

Session 3: WBS 476.04 Detectors – **(Introduction and Tracking)** – Black Hole (WH2NW)

B03-01	(10+5)	Introduction (parallel talks)	Brendan Casey
B03-02	(15+5)	Beam dynamics and w_a	Jim Miller
B03-03	(15+5)	WBS 4.3.2/4 Tracker	Brendan Casey
B03-04	(20+5)	WBS 4.3.3/4.5.3 Tracker Electronics	Eric Hazen
B03-05	(10+5)*	Straw Prototypes at Fermilab	Mandy Rominsky
B03-06	(10+5)*	Tracking Software	Heidi Schellman
B03-07	(10+5)*	Mechanical Design & Engineering	Nick Pohlman
B03-08	(10+5)*	Muon EDM	Brendan Casey

3:00 – 3:15 AM 15 BREAK

PARALLEL BREAKOUT SESSIONS
3:15 – 5:00 PM 105

Session 1: WBS 476.02 Accelerators **(Beamlines)** – Comitium (WH2SE)

B01-04	(30+10)	WBS 2.3 Overview of Beamlines	Jim Morgan
B01-05	(20+10)	WBS 2.3.3 M2/M3 Line Optics	John Johnstone
B01-06	(20+10)	WBS 2.3.5 M4/M5 Line Optics	Carol Johnstone

Session 2: WBS 476.03 Ring **(Injection and Storage Subsystems)** – Snake Pit (WH2NE)

B02-08	(15+5)	Rates and Systematics Related to Injection	Bill Morse
B02-09	(15+10)	WBS 3.3 Inflector	Lee Roberts
B02-X3	(5)	Monitoring the Injected Beam	Thomas Gadfort
B02-10	(20+10)	WBS 3.5 Electromagnetic Ring Kickers	David Rubin
B02-11	(20+10)	WBS 3.6 Quadrupoles and Collimators	Volodya Tischenko

Session 3: WBS 476.04 Detectors **(Auxiliary Systems)** – Black Hole (WH2NW)

B03-09	(20+10)	WBS 4.6 Auxiliary Detectors	Fred Gray (sub)
B03-10	(15+5)	WBS 4.4.5 Clock	Kevin Pitts
B03-11	(20+10)	WBS 4.7 Slow Controls	Peter Winter
B03-12	(15+5)*	Simulation tools overview	Adam Lyon

5:00 – 5:45 PM Subcommittee Executive Sessions – in Breakout Rooms
5:45 – 6:30 PM Executive Session – Comitium (WH2SE)

Thursday, June 06

PARALLEL BREAKOUT SESSIONS - continued
8:00 – 9:30 AM 90

Session 1: WBS 476.02 Accelerators **(Beamlines & Rates)** – Comitium (WH2SE)

B01-07	(20+10)	WBS 2.3.4.1 D30 Straight Reconfiguration	Dean Still
B01-08	(20+10)	WBS 2.3.4.2 Kickers	Chris Jensen
B01-09	(10+10)	Overall rate calculation of muon to the storage ring	Mary Convery

Session 2: WBS 476.03 Ring **(Magnetic Field & Ring NMR Probes)** – Snake Pit (WH2NE)

B02-12	(20+10)	Intro to Field and w_p Systematics	David Kawall
B02-13	(15+5)	WBS 3.8.4/5 Passive and Active Shim	Brendan Kiburg
B02-14	(15+5)	WBS 3.8.3.1.1/3 Calibration Probes	David Kawall
B02-15	(15+5)	WBS 3.8.3.1.2 Fixed Probes	Garcia or Swanson

Session 3: WBS 476.04 Detectors **(Calorimeters)** – Black Hole (WH2NW)

B03-13	(25+10)	WBS 4.2 Overview and w_a Systematics	Dave Hertzog
B03-14	(25+10)	WBS 4.2.2-4 Crystals, SiPMs & Mechanics	Dave Hertzog
B03-15	(15+5)	WBS 4.2.6 Laser Calibration System	Graziano Venanzoni
B03-16	(15+5)*	WBS 4.2.5 Bias Control System	Dinko Pocanic
B03-17	(10+5)*	Results from FNAL Test beam studies	Peter Winter
B03-18	(10+5)*	SiPM R&D studies using Washington Test Stand	Pete Alonzi
B03-19	(10+5)*	Details of pileup subtraction	Chris Polly

9:30 – 9:45 AM 15 BREAK – Comitium (WH2SE)

PARALLEL BREAKOUT SESSIONS - continued

10:00 – 11:30 AM 90

Session 1: WBS 476.02 Accelerators – Comitium (WH2SE)

B01-10	(30+10)	WBS 2.4.2 Controls and Safety Systems	Brian Drendel
B01-11	(20+10)	Radiation Safety	Tony Leveling

To be used at committee's discretion, go back to optional talks, Q&A, etc.

Session 2: WBS 476.03 Ring **(Field Electronics & NMR Trolley)** – Snake Pit (WH2NE)

B02-16	(35+10)	WBS 3.8.3.2/3/4/5/6 Field Team Electronics & DAQ	Erik Swanson
B02-17	(25+10)	WBS 3.8.2 NMR Trolley	Peter Winter

Session 3: WBS 476.04 Detectors **(Electronics & DAQ)** – Black Hole (WH2NW)

B03-20	(30+10)	WBS 4.4.2/3 WFDs and Micro TCAs	Lawrence Gibbons
B03-21	(25+10)	WBS 4.5 DAQ	Tim Gorringe
B03-22	(10+5)*	MIDAS Event Building R&D, Tests	Wes Gohn
B03-23	(10+5)*	GPU Based T/Q Method R&D, Tests	Volodya Tishchenko
B03-24	(15+5)*	500 MSPS Continuous Digitization R&D, Tests	Wes Gohn
B03-25	(10+5)*	Introduction to MIDAS	Tim Gorringe

* Supporting talks available.

11:30 – 12:30	**PM**		**LUNCH for Committee – Tables Available on WH2XO**
12:30– 1:30	PM	60	Response to reviewer questions from Day One and questions from the morning breakout sessions – Comitium (WH2SE)
1:30 – 3:30	PM		Subcomittee Executive Session/Report writing – **in Breakout Rooms**
3:15 – 3:30	**PM**	**15**	**BREAK – Comitium (WH-2SE)**
3:30 – 5:00	PM		Executive Session/Report writing - Comitium (WH2SE)

Friday, June 07

8:30 –11:30	AM		Full Committee Executive Session Dry Run – Comitium (WH2SE)
10:15 – 10:30	**AM**		**BREAK – Comitium (WH2SE)**
11:30	**AM**		**Closeout Presentations – One West (WH1W)**
12:30	PM		Adjourn

Subcommittee Breakout Session Available Talks

B01 WBS 476.02 Accelerators (Target, Yields, & Instrumentation)

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B01-08	WBS 2.3.4.2 Kickers	Chris Jensen
B01-09	Overall rate calculation of muon to the storage ring	Mary Convery
B01-10	WBS 2.4.2 Controls and Safety Systems	Brian Drendel
B01-11	Radiation Safety	Tony Leveling

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