March 8, 2013 10:00 in Snakepit

0. Establish ReadyTalk Connections

1. News – Steve

PX Snowmass Whitepaper submitted

HEPAP Facilities Subpanel Report posted
http://science.energy.gov/~/media/hep/hepap/pdf/Reports/HEPAP_facilities_letter_report.pdf

"The development of Project X was endorsed by the 2008 P5 report, which recommended an R&D program in the immediate future to design a multi-megawatt proton source at Fermilab. The importance and breadth of the research program that it enables and enhances, leads the Project X accelerator facility to be classified as *absolutely central*. Although R&D is still required for the spallation targetneeded by some experiments, all stages of the Project X accelerator facility are *ready to initiate construction*.

Project X experiments that compose the research program range from important to absolutely central, but scientifically the Project X research program as a whole is classified as *absolutely central*. Being in the planning phase, the construction readiness of the Project X research program is classified as *mission and technical requirements not yet fully defined*, although some experiments are beyond this phase."

Upcoming Events

Proton Acclerators for Science and Innovation Fermilab-UK Collaboration	April 3-5, RAL
SLHiPP (ESS/SPL) Collaboration Meeting	April 17-18 Belgium
Pre-Snowmass Capabilities Frontier High Intensity Secondary Beams Driven by Protons Subgroup https://indico.bnl.gov/conferenceDisplay.py?ovw=True&confId=610	April 17-20, BNL
Project X Writers Meeting	April 24, Fermilab
Pre-Snowmass Intensity Frontier Working Group https://indico.fnal.gov/conferenceDisplay.py?confId=6248	April 25-27, ANL

2013 Kaon Physics International Conference	April 29-May 1, Ann Arbor
Charged Lepton Flavor Violation Workshop	May 6-8, Lecce
IPAC2013	May 13-17, Shanghai
PX Spring Collaboration Meeting??	Fall
Pre-Snowamss Opportunities in Underground Physics (ISOUPS)	May 24-27, Asilomar
Pre-Snowmass Theory Meeting for Energy, Cosmic, and Intensity Frontiers	May 29-31, Santa Barbara
Pre-Snowmass CPAD Meeting	May 30-June 1, LBL
Fermilab Users Meeting 2 hour block PX presentation (accel+phys)	June 11-12, Fermilab
TTC Topical Workshop	June 12-14, Cornell
CSS (Snowmass2013)	July 29-August 10, UMinnesota
Accelerator Applications (AccApp13)	August 5-8, Bruges, Belgium
DPF Meeting	August 13-17, Santa Cruz
NuFact	August 19-24, Beijing
3rd Workshop on the Physics of Fundamental Symmetries and Interactions at Low Energies	September 9-12, PSI
SRF2013	September 22-27, Paris
PAC13	September 29 – October 4, Pasadena
IIFC Annual Meeting	November 11-16, Mumbai
IBIC (beam instrumentation conference)	Oxford, September 16-19
CD-0	TBD, Germantown

2. XMAC Meeting Summary

https://indico.fnal.gov/conferenceDisplay.py?confId=6482

XMAC1_Closeout Report.doc

3. Pre-CD-3 Deliverables

We are working with DOE to define what it will take to be ready for a construction start in FY18. Associated with this are a list of deliverables – one set is associated with requirements mandated by DOE413.3b; a second set is associated with R&D deliverables aimed at mitigating (technical and cost) risk. The table below is extracted from the document we are currently working with.

Deliverables		Date
DOE413.3b		
	Mission Needs Statement	Q4FY13
	Conceptual Design Report	Q1FY15
	Risk Management Plan	Q1FY15
	Preliminary Hazard Analysis Report	Q1FY15
	Preliminary Design Report	Q2FY16
	Hazard Analysis Report	Q2FY16
	Final Environmental Impact Statement	Q2FY16
	Final Design Report	Q3FY17
	Hazard Analysis Report (Updated)	Q3FY17
	Construction Project Safety and Health Plan	Q3FY17
R&D Program		
	HB650 Cavity (8, TESLA shape) Vertical Test (US)	Q2FY15
	HB650 Dressed Cavity (3) Horizontal Test (US)	Q2FY16
	HB650 Dressed Cavity (4) Horizontal Test (India)	Q3FY17
	LB650 Dressed Cavity (3) Horizontal Test (US)	Q2FY17
	LB650 Dressed Cavity (2) Horizontal Test (India)	Q4FY17
	HB650 Cryomodule Design (US, India)	Q4FY15

Deliverables		Date
	HB650 Cryomodule Power Test (US)	Q4FY17
	650 MHz rf Power Test (India)	Q3FY16
	SSR1 Dressed Cavity (2) Horizontal Test (India)	Q1FY15
	SSR1 Cryomodule Power Test (U.S.)	Q4FY16
	SSR2 Dressed Cavity (2) Horizontal Test (India)	Q4FY17
	SSR2 Cavity (2) Vertical Test (US)	Q3FY17
	SSR2 Dressed Cavity (1) Horizontal Test (US)	Q4FY17
	325 MHz rf Power Test (India)	Q3FY16
	HWR Cryomodule Test with Beam	Q2FY18
	Front End Systems Test (warm components)	Q1FY17
	H- Injection System Complete Design	Q2FY17
	High Power Target Complete Design	Q2FY17
International Governance		
	Collaboration Governance Plan	Q4FY13

4. Next Steps on RDR

I would like to have an update of the RDR posted by May 15:

Section authors: Please read your sections and any other sections that bear on what you wrote. Please submit mark-ups (track changes in Word, feel free to exract your section from the full document) by April 30 to:

Chapter I: Steve
Chatper II: Steve
Chapter III: Sergei, cc Steve
Chapter IV: Marc, cc Steve
Chapter V: Marc, cc Steve

Appendices: Steve

5. Next Steps on Cost Estimate – Marc

Plan to update the cost estimate:

1. Define scenarios (e.g. stage 1->2->3, stage 1&2->3, stage 1&2&3)
2. Define scope
    a. Experimental interfaces (e.g. spallation, muSR, mu2e, kaon)
    b. CD-4 definition
    c. Treatment of R&D vs. construction
    d. Spares policy
    e. Decommissioning policy (e.g. removing TeV magnets)
3. Update WBS
    a. Divide for stages
    b. Add Booster
    c. Review Experimental section
    d. Review Installation
4. Assign Estimators
5. Distribute BOE forms (will be used for brief narrative only and have accompanying spreadsheets)
6. Generate estimates including considerations for time phasing
7. Collect and aggregate costs
8. Value engineering
    a. Collect and analyze VE proposals
    b. Take credit for in-kind deliverables, reuse of prototypes where appropriate

6. AOB