



US LHC Accelerator Research Program

bnl – fnal – lbnl – slac

Introduction and Objectives

Jim Strait
Fermilab

US LARP Collaboration Meeting
26-27 February 2004



Meeting Objectives

Primary Objective:

- To develop plans and budgets for FY2005, with a view ahead to FY2006.

Secondary Objectives:

- To review progress since the last collaboration meeting in September 2003.
- To improve coordination among the US Labs and between the US Labs and CERN.
- To start to integrate SLAC into the collaboration.



What has changed since September?

Budget guidance from DOE:

| | <u>Sep 03</u> | <u>Feb 04</u> |
|--------|---------------|-----------------------|
| FY2004 | \$1.05M | \$1.25M (actual) |
| FY2005 | \$3.5M | \$3.0~3.5M (guidance) |
| FY2006 | \$11.0M | \$11.0M (guidance) |

FY2005-2006 plans must be made taking account of the current uncertainty in FY2005 funding.

We have decided to include SLAC's proposal to develop a phase II collimation system as part of the US LARP.

We have defined a class of sub-programs called "hard deliverables" whose budget will be "protected" against reasonable future fluctuations in DOE funding.



Budget Guidance for this Meeting

I propose as a **starting point** we consider the following two strawman budgets for the next two years:

| | FY05 | FY06 | | FY05 | FY06 |
|--------------|-------------|--------------|--|-------------|--------------|
| Instr | 745 | 1620 | | 540 | 1740 |
| AP+BC | 400 | 750 | | 360 | 750 |
| Collim | 430 | 870 | | 300 | 900 |
| HdwComm | 250 | 700 | | 250 | 700 |
| Magnets | 1395 | 6385 | | 1270 | 6235 |
| PgmMgmt | 280 | 675 | | 280 | 675 |
| Total | 3500 | 11000 | | 3000 | 11000 |

Obviously these precise numbers, as well as the details within each budget, are the subject of discussion at this meeting.



“Hard Deliverables”

Hard deliverables are tasks which result in a **well defined deliverable** (e.g. hardware for installation or completed R&D on something for installation) and which must be completed in a **well defined time**.

- **Hardware commissioning.**
(a commitment to stand behind our equipment)
- **Beam instrumentation:**
 - Tune feedback R&D.
 - Luminosity monitor.
 - Abort gap monitor design.
 - Longitudinal density monitor(?)
- **Collimation phase II system R&D.**

Once we commit to these, their budget would be “protected.”

=> **Puts other tasks at greater risk.**

=> ***We must be careful about what we commit to.***



Agenda

Thursday 26 Feb

Plenary Session (Hermitage)

9:00 0:05 Welcome S. Holmes

9:05 0:15 Introduction, meeting objectives J. Strait

9:30 3:00 Parallel working groups

Review current status, discuss FY2005-06 plans in context of strawman budgets

SC Magnets (Hermitage)

S. Gourlay (chair)

Instrumentation (TD HQ Conf Room)

J. Byrd (chair)

Beam Commissioning/AP (T157 Conf Room)

J. Marriner (chair)

Hardware Commissioning (M.Lamm's office)

M. Lamm (chair)

12:30 1:00 Lunch

14:00 1:00 *Run II Review Closeout (1 West)*

15:00 0:15 Break

Plenary Session (Hermitage)

15:15 0:30 Overview of FY2005-06 plan and budget J. Strait

15:45 0:45 SC magnet R&D FY2005-06 plan and budget S. Gourlay

16:30 0:35 Acc Systems FY2005-06 plan and budget S. Peggs

17:05 0:10 Hdw Commissioning FY2005-06 plan and budget M. Lamm

17:15 0:45 Discussion - plans for Friday, homework...

18:00 Adjourn for the day



Agenda

Friday 27 Feb

| | | |
|-------|---|--|
| 9:00 | 2:00 <u>Parallel working groups</u> <i>Discuss and modify FY2005-06 plans and budgets</i> SC Magnets (Hermitage) Accelerator Systems (TD HQ) | S. Gourlay (chair) S. Peggs (chair) |
| 11:00 | 1:00 Break to prepare for afternoon sessions | |
| 12:00 | 1:00 Lunch | |
| | <u>Plenary Session</u> (Hermitage) | |
| 13:00 | 0:40 SC Magnet Plan | S. Gourlay |
| 13:40 | 0:10 Accelerator Systems Plan Intro | S. Peggs |
| 13:50 | 0:20 Beam commissioning / AP plan | S. Peggs |
| 14:10 | 0:20 Instrumentation plan | J. Byrd |
| 14:30 | 0:15 Collimation R&D plan | T. Markiewicz |
| 14:45 | 0:15 Accelerator Systems Discussion | |
| 15:00 | 0:15 Break | |
| 15:15 | 0:30 Summary, discussion | Strait |
| 15:45 | Adjourn | |



Web Page

http://www-td.fnal.gov/LHC/USLARP/USLARP_CollabMtg_20040226/LARP_Feb_04.html



US LHC Accelerator Research Program *brookhaven - fermilab - berkeley*

**US LARP Collaboration Meeting
26-27 February 2004**

**Fermi National Accelerator Lab
Industrial Center Building
Batavia, IL 60510**

Agenda



Thursday 26 February 2004

| | | |
|---------|----------------------------------|-------------------------------------|
| 9:00 am | Welcome | S. Holmes |
| 9:05 am | Introduction, Meeting Objectives | J. Strait |
| 9:30 am | Parallel Working Groups | Agenda and Location |

Please send your talk to me
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for posting on the web page.