

# Cost / Schedule Executive Session

## Run IIb Detector Upgrade Director's Review

August 12-15, 2002

L. Edward Temple, Jr.

# Agenda for Exec Session

- Charge to Cost / Schedule Reviewers
- Cost / Schedule Review Agenda
- Cost / Schedule Review Guidelines
- Report Structure
  - Table of Contents
    - Findings, Comments, and Recommendations
  - Cost / Contingency Table
- Assignments
  - SubCommittees and Chairs
- Discussion

# **Assess the Total Project Cost estimate for the upgrades**

Review and assess the detailed “basis of estimate” for the upgrades (both for the R&D components and the “on-project” components). Understand the risks involved in carrying out the projects and assess the cost contingencies that are being proposed.

## **Assess the realism of the schedule**

Is there a detailed schedule, including a critical path, for completing the project? Are milestones appropriate in number and type identified so that both the project teams, Fermilab management, and DOE can effectively track and manage progress? Based on past experience, can the proposed schedules be met? Are appropriate schedule contingencies provided? Is there a “resource loaded schedule” and plan for providing the needed resources (M&S and technical support staff and physicists)? Have techniques such as forward funding by collaborators and phased funding of large contracts been appropriately incorporated into the planning? Does the anticipated funding profile support the resource requirements?

# Cost / Schedule Review Agenda

See Agenda Link on the Review web page.

Wednesday is the day for the Cost / Schedule Review.

# Cost / Schedule Review Guidelines

See separate line to Cost / Schedule Review Guidelines on the Review web page.

# Schedule Review Materials Available

- MS Project Schedules on laptop with projection capability. Allows random access to sched info.
- Silicon
  - Process Flow Charts (VuGraph and Wall versions)
  - WBS Tree Charts (wall version)
  - Full Gantt Wall Charts
- Non-Silicon
  - WBS Tree Charts (wall version)
  - Full Gantt Wall Charts

# Report Structure

- Review findings, assessments, and recommendations should be presented in writing at a closeout with the Collaborations and Fermilab management.
- Two Sections
  - Technical
  - Cost, Schedule, Management
- Written with
  - Findings
  - Comments and
  - Recommendations

# Findings, Comments, and Recommendations

- Findings
  - Findings are statements of fact that summarize noteworthy information presented during the review.
- Comments
  - Comments are judgment statements about the facts presented during the review. The reviewers' comments are based on their experiences and expertise.
  - The comments are to be evaluated by the project team and actions taken as deemed appropriate.
- Recommendations
  - Recommendations are statements of actions that should be addressed by the project team.
  - A response to the recommendation is expected and that the actions taken would be reported on during future reviews.

# Report Table of Contents

## Generic Outline Jim providing details

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- Executive Summary**
- 1. Technical Considerations
  - 1.1 Section Common to Both Detectors
    - 1.1.1 Introduction
    - 1.1.2 Scope of the Proposed Upgrades
      - 1.1.2.1 Item B
      - 1.1.2.2 Item C
      - 1.1.2.3 Item D
  - 1.2 DZero Specific Items
    - 1.2.1 Introduction
    - 1.2.2 Scope of the Proposed Upgrades
      - 1.2.2.1 Item a
      - 1.2.2.2 Item b
      - 1.2.2.3 Item c
      - 1.2.2.4 Item d
  - 1.3 CDF Specific Items
    - 1.3.1 Introduction
    - 1.3.2 Scope of the Proposed Upgrades
      - 1.3.2.1 Item aa
      - 1.3.2.2 Item bb
      - 1.3.2.3 Item cc
      - 1.3.2.4 Item dd
- 2. Cost, Schedule, Management Considerations
  - 2.1 Section Common to Both Detectors
    - 2.1.1 Introduction
    - 2.1.2 Total Project Cost Estimates
    - 2.1.3 Schedule
    - 2.1.4 Management
  - 2.2 DZero Specific Items
    - 2.2.1 Introduction
    - 2.2.2 Total Project Cost Estimates
    - 2.2.3 Schedule
    - 2.2.4 Management Considerations
  - 2.3 CDF Specific Items
    - 2.3.1 Introduction
    - 2.3.2 Total Project Cost Estimates
    - 2.3.3 Schedule
    - 2.3.4 Management Considerations

# Report Format

See DRAFT Report Format on Review web page.

This draft has generic placeholders for the Technical Report section. Jim Pilcher, Chairman of the Technical SubCommittee will provide Outline at the Review on Monday.

# File Transfers

Material to be emailed to Marilyn Smith

At

[Oboe@fnal.gov](mailto:Oboe@fnal.gov)

As soon as humanly possible. We want to give the presentations at the Closeouts from a common notebook computer.

# Review SubCommittees

Run IIb Detector Upgrades Director's Review			
Sub-Committee Breakouts			
		Silicon Cost & Schedule	Non-Silicon Cost & Schedule
Technical Review SubCommittee		Review SubCommittee	Review SubCommittee
Jim Pilcher, U of Chicago - Chair		Tony Chargin, SNS - Chair	Joel Butler, Fermilab - Chair
Francesco Forti, Pisa (pt)		Giorgio Apollinari, Fermilab	Ed Temple
Hiro Tajima, SLAC		Mark Reichenadter	Dean Hoffer
Hartmut Sadrozinski(pt)		Hiro Tajima (pt)	Jim Pilcher (pt)
Daniel Marlow			Daniel Marlow (pt)
Mats Selen(pt)			
Lothar Bauerdick			

# Cmte Cost & Contingency

There will be a table such as this for each project

Detector Cost Estimate								
	Project Estimate				Committee Estimate			
WBS	Base Estimate	Cont %	Cont \$	Total	Base Estimate	Cont %	Cont \$	Total
1.1 Silicon								
1.1.1								
1.1.2								
1.1.N								
1.2								
1.3								
1.N								
Total								

# Discussion

- Questions and Answers