


HLRF Agenda May 18-19, 2006

- R. Larsen
 - Cost goals, timeline for first draft
- C. Jensen
 - BCD: Modulator Power
 - BCD: Cryo WG pre-assembly, install
- C.Nantista
 - BCD: WG modification for 2-WG penetration
- S. Kazakov
 - ACD: Distribution system options
- Other

Cost Goals & Timeline - Original

17-Apr	April 20 th - HLRF4	Review Modulator Cost model, estimates, status
24-Apr	April 27 th - HLRF5	Review Klystron Cost model, estimates, status
1-May	May 4 th - HLRF6	Review Distribution Cost model, estimates, status
8-May	May 11 th - HLRF7	Review Controls/ Intlks/ Protection models & costs
10-13 May	GDE ML Review DESY No HLRF Meeting	Review Power and Water models & costs
15-May	May 18 th - HLRF8	Review LLRF, Controls Interface models & costs
22-May	May 25 th - HLRF9 Ray Absent	Review Cable Plant & Rack Space models & costs
29-May	June 1st- HLRF10 Ray Absent	Reviews
5-Jun	June 8th - HLRF11	Reviews
12-Jun	June 15 th - HLRF12	Reviews
19-Jun	June 22 nd -HLRF13	All First cut budgets due to Area Systems



Cost Goals & Timeline – Rev 051806

15-May	May 18 th - HLRF8	Final Confirmation BCD Cost Models
22-May	May 25 th - HLRF9 Ray Absent	Review costs Klystrons, Cooling, Magnet Power
29-May	June 1st- HLRF10 Ray Absent	Review Cost WG Distribution System, Cooling
5-Jun	June 8th – HLRF11	Review Costs Damping Rings, Modulators, Interlocks, Controls
12-Jun	June 15 th - HLRF12	Review Costs LLRF System, Racks
19-Jun	June 22 nd –HLRF13	Review First cut all HLRF budgets --due to Area Systems



BCD Manufacturing Models

- AC Power System
 - Use Corvin proposed commercial solution
- Charger
 - Use current FNAL numbers; revise if get better ones before June 22.
- Modulator
 - Use FNAL estimates from Snowmass; Jensen will review for changes before June 22; review Learning Curve assumptions
- Klystron
 - Use bottom-up estimate after review by Neubauer, consider comm'l quotes as available
- Distribution
 - Review bottom-up as feasible; get commercial quantity quotes possible sources in US, Japan, Europe, Russia

Additional Cost Factors

- Final costs will include:
 - Sustaining engineering, tests before install
 - System installation, integration and test
- If time permits, model the process and perform bottom-up estimate
 - M&S costs for testers, space, special moving fixtures
 - Labor costs will dominate: Installers, Engineers and Techs for pre-test, integration, checkout
- If no time, choose parametric cost as % of total manufacturing cost (from best experience, reality check of results)

Must Meet the Schedule!

- We'll have chances for corrections and modifications later
- Extremely important to generate first comprehensive cost model on time
 - Make sure we have WBS placeholders for *all* components
 - Complete WBS so Area System Managers can take results cleanly into Area rollups
 - Don't worry about small stuff that is *not* major cost driver

ACD Activities

- Will continue as time permits
 - None are crucial to Vancouver result
 - *Make cost generation your #1 priority until completed*