

Minutes of the IPT Meeting of April 13, 2004

Attendees: DOE-PAO G. Pitonak, L. Stegena
DOE HQG. Nardella, S. Barish, K. Chao, S. Meador
ORNL J. Lyon
PPPL H. Neilson, W. Reiersen, J. Levine, J. Schmidt,
R. Templon, J.Malsbury, R. Strykowski,

1. DOE news (Gene/Sam)

DOE/SC on-site at PPPL on 4/23. OMB300's due to SC on 4/23 (action completed). We need to complete section 1H.4 (metrics). Gene will confirm that the rest of the prior submittal is OK. Quarterly briefing to OFES management held 4/15/04 in GTN.

2. Safety Management (Hutch/Jerry)

Safety review held last week for Coil Test facility, which is a moderate hazard facility. Construction safety engineer (John Semler) has been designated for NCSX D-site activities which have been ramping up.

3. Planning for CD-3 (All)

Hutch's sequence of planned review activities leading to CD3 is still valid. IPT agreed that logic was appropriate and later confirmed with OFES management that it was acceptable with them. Will review it again at quarterly briefing this week.

4. Lehman Independent Project Review (IPR) charge (Gene)

Has been modified and currently with OFES management for signature (Anne has now signed). Agenda has also been modified per comments and seems to be acceptable to all with some minor time adjustments.

5. Project performance thru February & PARS issues (Ron)

PARS reporting started last month with entry of cumulative April 03 to Feb 04 data. End of March data status is CPI=0.96 and SPI=0.94. Main causes for cost variance are MCWF final design and prototype fabrication. Much additional effort has been required in materials analysis and geometry reconciliation. Additional resources added to maintain FDR schedule, and work is accelerating. Main causes of schedule variance slippage is delay in the Romer measurement arm procurement process. Delivery of the VV prototypes is expected in late Apr/early May. Delivery of the MCWF prototypes is expected in late June. We are pursuing an aggressive schedule to achieve CD3 in August, but baseline schedule still shows October milestone, which we plan to beat.

6. ECP status and history (Greg)

ECP-04-006 & 007 are in preparation stage. These will be reviewed in conjunction with Management Reserve Plan discussed below.

7. Management reserve status & planning (Hutch/Ron)

At present \$2.2M of management reserve is available in FY2004 and the project is preparing a plan to most efficiently use it to accomplish in-scope work. Recommended MR action plan has been prepared - involves advancing some scope (D site transmission lines, AC power to test cell, NB design/testing). Also involves assigning \$800K to GSO and \$400K free balance.

8. Project technical progress/issues (Hutch/Wayne)

Design activities continue in support of the May FDR. Three areas of focus are continuing: - modular coils require extensive materials property testing and analysis due to composite configuration. - finalization of vessel and port geometries is complete, but also involved extensive effort and analysis - large volume of preparation and paperwork required for upcoming reviews and CD3 activities.

Prototype vacuum vessel sector: one supplier has completed fabrication and final leak check of the prototype. The other supplier has completed forming the panels.

Prototype modular coil winding form: one supplier team has fabricated the casting and completed heat treating. A series of inspections and evaluations showed it to be a suitable casting for the prototype. The other team completed an extensive flow solidification analysis effort and began fabricating the casting mold.

Modular coil winding trials: winding trials on the twisted tee winding form began, satisfying the 2Q Joule milestone. Accomplishments: development of conductor handling techniques, development of in-process measurement techniques, development of winding clamp design, training of staff.

Twisted racetrack winding form: the casting was fabricated and machining of the precision surfaces began.

Conductor material properties testing: An R&D effort was launched to measure the engineering properties of the copper-epoxy composite that makes up the modular coil winding. Compression and flexure data were obtained.

Modular coil winding facility: the autoclave (vacuum oven for epoxy impregnation) was fabricated and moved into the TFTR test cell, site of the winding facility. The winding form turning fixtures were fabricated.

Coil test facility: A facility for power testing of modular coils at cryogenic temperatures was installed in the TFTR basement. It will use one of the FCPC power supply modules.

C-site power supply option is not looking promising - final decision shortly.

9. Procurement planning (Templon) Preparation of a detailed procurement plan is underway. Much time currently devoted to change order negotiations for major procurements. Business ops system switchover will occur shortly and could impact procurement due to training and orientation requirements.

10. OMB 300 requirements (Gene) We need to complete section 1.H.4 regarding performance indicators. A formal call for OMB300's is out with new guidance. Gene will confirm that our prior submittal meets requirements.

11. Next meeting - Weds May 5, 2004 at 11AM.
PPPL participants will meet in the DOE conference room.
Call-in number for 5/5/04 is 202-287-1019.

Thanks for your participation.
Greg