

Minutes of the NCSX-DOE IPT Meeting on June 4, 2002

On the teleconference: Warren Marton (DOE-OFES), Chuck Finfgeld (DOE-OFES), Greg Pitonak (DOE-PG), Gene Nardella (DOE-OFES), Esther Ku (DOE-OFES), Jim Lyon (ORNL), John Schmidt (PPPL), Hutch Neilson (PPPL), and Bob Simmons (PPPL).

Topics of Discussion:

(1) OFES Guidance (Warren Marton)

(a) Warren indicated that the OFES guidance for the MIE Project funding scenario is: \$11.0M in FY2003, \$16.0M in FY2004, \$20.5M in FY2005, \$17.8M in FY2006, and \$8.2M in FY2007, leading delay of project completion of three months to June 2007 with total additional costs of \$1.5M for a revised total TEC of \$73.5M. He also indicated that the FY2004 fusion budget discussions will go on over the next few months, but that he did not expect revised guidance before CD-1.

(b) Warren also confirmed that the research preparations funding is in addition to the MIE Project funding => a total NCSX funding in FY2003 of \$12M and \$17.2M in FY2004.

(2) Project Status (Hutch Neilson)

(a) Project Completion - we will modify the first plasma definition in the PEP to clarify that we will indeed have a "stellarator" plasma, and will develop a high-level table of project completion metrics for key systems prior to CD-1. These metrics will be developed in more detail by CD-2. (b) Trim Coil Power Supplies - we will add this to the research preparations line to ensure that the power supplies (i.e., the existing Robicon power supplies at C-Site) will be connected and operational before completion of the electron beam mapping. They certainly are not required for first plasma or even the start of EBeam mapping, but will be needed before the end of the EB mapping phase, so the project cannot wait until first plasma to connect and test them => work will start in FY2006. (c) Tasks between now and the end of FY2002: (i) Updating CD-1 documentation (e.g., AEP, PEP, Interface Planning Document, NEPA documentation, etc.)

(ii) Working plans to award the modular coils R&D contract in November and vacuum vessel R&D contract early in 2003 => updating specs and models, extending coil perturbation studies to develop tolerance budget, revisiting cooling concepts (alternates to cooling plates), increasing the scrape-off layer, looking at expanding PIES studies to address physics issues raised at CDR.

(d) Discussion of impact of continuing resolution - this will cramp our abilities to proceed with the critical R&D. (e)

Disposition of CDR Recommendations - the Project has developed a preliminary CDR Disposition Log (attached) based on the preliminary report. Once the report is formally issued, this will be adjusted accordingly. The Project is developing a response plan and schedule and anticipates having this by the end of the month.

(f) R&D and Production Unit plans for the Modular Coils - one recommendation from the CDR was to accelerate the modular coils and vacuum vessel R&D and production contracts. Certainly the reduced funding guidance makes this difficult, however, it is hoped that the R&D may identify other opportunities to achieve this. Our current plans are to have 2 R&D vendors each for the modular coils and the vacuum vessel and to downselect to one for the production units. The final acquisition strategy will largely be determined by the results of the R&D program.

(3) Key DOE Milestones (Bob Simmons) - reviewed the proposed milestones to go in the AEP based on the revised funding guidance. CD-3 was proposed as only one milestone vs. a series of mini-CD-3 milestones. The IPT concurred in this approach.

(4) CD-1 ESAAB Meeting (Greg Pitonak) - the proposed CD-1 ESAAB is August 1st. An alternate date might be August 12th.

The next IPT meeting will be Tuesday, July 2nd, at 11:00 am.

Summary by:
Bob Simmons