

# NCSX IPT Meeting Minutes

The minutes from the NCSX IPT meeting of Tuesday, May 3, 2005 at 11AM are as follows:

**Attendees:** DOE-PSO: G. Pitonak, J. Makiel , L. Dietrich

DOE HQ: Kin Chao

ORNL: J. Lyon

PPPL: J. Levine, R. Strykowski, R. Hawryluk, R. Templon,  
H. Neilson, W. Reiersen

## 1. DOE News

None. Barry and Sam were not available.

## 2. Safety Management (Jerry)

PPPL had no OSHA recordable workplace injuries or illnesses for the month of April making it the fifth consecutive month this fiscal year. Lab-wide hazard awareness training continues with the attendance of over 200 PPPL employees including staff assigned to the NCSX project. The next NCSX Activity Certification Committee will perform a review of the NCSX Autoclave facility.

## 3. Plans for project re-baselining/Lehman Review (Hutch)

- a) PPPL is waiting for approval of the new baseline. The DOE approval level has not been determined;
- b) The June Lehman review will be rescheduled to the Oct/Nov timeframe. \*\*\*Action: Kin will help coordinate a specific date;
- c) ESAAB documentation has been prepared and pending review.

#### **4. Project technical progress (Hutch)**

- a) A field trip to Major Tool by Barry and various members of the PPPL NCSX Team occurred last week with pleasing and impressive results of the machining of the C-1 MCWF casting. The C-1 casting is scheduled for delivery on June 24<sup>th</sup>. There is hope for some improvement on the vendor's delivery schedule, but no firm commitment was made;
- b) The casting pour for the C-2 casting went well and is getting ready for radiography. It appears that the pattern changes learned from the C-1 casting effort paid off;
- c) The casting pour for the A-1 casting will occur within the next week;
- d) The VVSA panel forming effort is going well. One of the 10 panels is expected to be a bit more challenging to form;
- e) The half period weld fixture continues to be fabricated;
- f) The vacuum bag mold for the TRC is underway. The goal is to have the TRC ready for coil testing in the first week of June;
- g) Final Design Reviews for the modular coils component parts (cladding, chill plates, clamps, etc.) are planned and are integral to the 3<sup>rd</sup> quarter Joule milestone.  
\*\*Action: Wayne to provide Greg and Jeff with a schedule of upcoming FDRs;
- h) The TF coil design is nearing completion. Upon the FDR, the conductor and wedge plates will be procured;
- i) The coil winding facility is being modified to perform the TF coil winding in-house in lieu of contracting this work out;
- j) A successful PDR of the cryostat was held in April;
- h) A field period assembly working group has been formed to look at issues regarding the assembly of the field periods and the preparation of the NCSX Test Cell to support this phase of the project;

#### **5. Procurement (Rod)**

- a) There are no pending (open) issues on the current major procurements that requires PPPL's direct attention. EIO is handling any technical and schedule issues with their subcontractors, however, PPPL continues to maintain open communication with them;

- b) Small procurements are underway to support component parts as FDRs of those components are completed;
- c) PPPL is continuing to develop the procurement strategy and cost estimate for the assembly fixture that will be used by PPPL during assembly of the field periods.

## **6. Review of critical issues (Hutch)**

As previously mentioned, current center position control, and completion of MCWF design tasks, are most critical (category II) at this time. A plan has been developed to address the dimensional control issue.

## **7. Planning for the next 6 months (Hutch/Ron)**

- a) Finish FDRs for the stellarator core systems, place procurements as required by the schedule;
- b) Detailed preparations for starting to wind the modular coils.
- c) See "Technical Progress" for other planned tasks.

## **8. Project performance thru Feb (Ron/Greg)**

- a) Entry of The March PARS data was delayed due to the delay in establishing the new performance baseline. (Update: the PARS data was submitted). The April PARS data will continue to be status against the old baseline. Although the new and old April baseline does not differ significantly, PPPL will consider whether the old baseline and the new baseline should simply be kept the same in the near term.
- b) Overall, the level of project effort is ramping up. \$2M of work was costed in April. Labor resources and procurement actions are increasing.

## **9. ECP status (Wayne/Ron/Greg)**

An ECP for establishing the new baseline was prepared. However, since the baseline approval process is delayed, an ECP30 will establish the redistribution of work within the current approved baseline. A subsequent ECP will then be used to authorize the new baseline. \*\*\*Action: Greg will inform Anne Davies of this decision, (Update: done).

**10. Planned IPT meetings thru June are as follows:**

May 24 IPT Call  
June 14 IPT Call  
Oct/Dec Lehman Review