Weekly Reporting

WBS 1.01.07 JLAB Management

Week of November 20-25, 2015

**Issues:** Need to get material to Nb material to the cavity vendors.

**Accomplishments this week:**

Developed and submitted BCR input for change in the Cryo plant to include cooldown controls, updated to contract details for the feedthroughs and gate valves.

Continue preparations for CD 2/3 review.

**Upcoming Activities:**

* TTC Meeting 1-4-December
* DOE CD-2/3 Review, 8-11 December

Weekly Reporting

WBS 1.04.6 JLAB Cryomodules

Week of November 20-25, 2015

**Issues:** pCM component schedules; JLab pCM schedule is driven by the availability of parts including bellows, magnetic shielding, and GHRP assembly. Need to ship cavity materials to vendors.

**Accomplishments this week:**

Participated in ICER at SLAC, and page-turners for upcoming DOE review.

Progress on testing end cap fabrication continues. Internal piping assemblies have been leak checked. Insulation is being applied to thermal shields.

Lead teleconference with SLAC, FNAL, DESY and Zanon to discuss process for release of materials. Need to obtain DESY’s customs application including materials listing and forward to Zanon.

Vendor Qualification Cavity Status:

**Zanon**

AES025 – being shipped to JLab; arrival imminent.

AES014 – has been electropolished.

**RI**

AES023 – being prepared for electropolish.

RI023 – furnace doping run in progress.

Manufacturing drawings from RI are under review.

SOTR and production lead visited FNAL and have developed initial GHRP assembly procedures and sub-assembly modifications.

Recovery plan for copper-plated bellows is being implemented. Four long bellows sent to SLAC. SOTR and QA rep completed audit and witnessed plating process on first long bellows – draft report has been distributed. Vendor bellows passed inspections; four more bellows were shipped to vendor 11/23. Balance of long bellows have completed inspection. Long spools are in process at vendor and SLAC.

RFPs for production piezo electric actuators and motors have been sent to vendors.

CMTF coax waveguide parts are being prepared for installation. Coax waveguide is being cut to length.

E. Daly participated as chair during 3.9 GHz CM PDR and cavity FDR held Friday 11/20 at FNAL.

**QUALITY**

Continue to support with the qualification of the cavity string bellows for the pCM. The hand-carried long bellows (unit # 19) back from Epner has completed the post-plating qualification tests at JLab. The plating generally looks good, except for a few small areas that have been flagged. The information has been relayed back to Epner and discussions with Epner to soon follow.

**Upcoming Activities:**

* TTC Meeting, 1-4 December
* DOE CD-2/3 Review, 8-11 December

Weekly Reporting

WBS 1.04.08 JLAB Cryoplant System

Week of November 20-25, 2015

**Issues:** Warm helium compressor vendor ready to order 1st set of CP1 motors, SLAC is unsure they can start the larger 2500HP motor. Need authorization to proceed with 2500HP motor or stop until SLAC analysis is received in December.

**Accomplishments this week:**

No report.

**QUALITY**

ACR development for the major cryoplant subsystems is planned to be completed.

**Upcoming Activities:**

DOE CD-2/3 Review, Dec 8-11th

Warm Helium Compressor Vendor CDR, week of Jan 7th

Weekly Reporting

WBS 1.02.03.05.12 LLRF

Week of November 20-25, 2015

**Issues:** None

**Accomplishments this week:**

* LLRF Coordination/Documentation:
  + Working on DOE review presentation.
  + Working (Curt, Rama and Dave) on the resonance, interlock and power supply ESD. We will have them ready early next week.
  + Dave sent CEBAF rack/chassis pics to SLAC
* Stepper Motor Board: The stepper board is being tested.
* Interlock Board: ARC/IR boards are ready for test. Not much work here and stepper, Rama is working on bringing up the CEBAF linacs for operation.
* FPGA Board: William Brinton is working with SLAC to get the proper files. A meeting with SLAC is planned for next week.
* Common Power Supply: Distribution board is in test.

**Upcoming Activities:**

* Prepare for team meeting planned for December 7/8 at LBNL.
* Review MO/LO proposal.
* Test stepper board and interlock boards.
* FPGA board meeting.
* Finish up ESDs.