Weekly Reporting

WBS 1.01.07 JLAB Management

Week of November 6-12, 2015

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

**Accomplishments this week:**

New hire mechanical designer started work with the cryo plant group.

Monthly schedule reviews completed.

Updated and approved APPs to be submitted to SLAC.

Completed and submitted monthly PM report.

Preparing for Cost and OPA reviews.

**Upcoming Activities:**

* ICER at SLAC, 17-19 November
* DOE CD-2/3 Review, 8-11 December

Weekly Reporting

WBS 1.04.6 JLAB Cryomodules

Week of November 6-12, 2015

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

**Accomplishments this week:**

Preparing back up documentation for the ICER review in Nov 2015 including justifications for pre-2014 estimates.

Progress on testing end cap fabrication continues. PR for end cap thermal shields was submitted.

Completed vertical re-test of AES036 - Qo at 16 MV/m was 3.1e10, quenched at 20 MV/m with no radiation observed so field emission free. Used updated procedures that will be employed on pCM cavity string assembly.

AES023 was successfully doped at RI. Reece and Palczewksi visited RI to witness successful doping process on RI’s first VQ cavity.

Worked with procurement on updated APPs.

Plans being made for SOTR and production lead to visit FNAL next Wednesday in order to review GHRP assembly procedures and sub-assembly modifications.

Recovery plan for copper-plated bellows is being implemented. One long bellows arrived on 6-NOV at JLab and passed inspection; balance of 17 expected to ship 11-NOV. Long spools were returned to vendor for rework. Plating vendor process was reviewed by SLAC plating expert and others. SOTR and QA rep are at plating vendor to audit and witness plating process.

Removed shielding on test cave in preparation for installation of coaxial waveguides.

Completed inspection on second cold mass spreader bar.

**QUALITY**

Continue to provide QA support with the plating issue on the cavity string bellows and spool pieces. Visit Epner, the plating vendor, to conduct an onsite audit of their plating process.

Completed the preliminary rating of 18 resumes of potential candidates for the Procurement Administrator position.

**Upcoming Activities:**

* ICER at SLAC, 17-19 November
* TTC, 1-4 December
* DOE CD-2/3 Review, 8-11 December

Weekly Reporting

WBS 1.04.08 JLAB Cryoplant System

Week of November 6-12, 2015

**Issues:** None

**Accomplishments this week:**

Continued to address the recommendations of the Cryogenic System Final Design Review, FAC review, and Directors review.

The procurement specification for the cryogenic plant warm helium gas storage vessels was completed was circulated for approval.

The weekly design coordination meeting was held with the 4.5K cold box vendor (Air Liquide). All action items are being properly addressed. A plan to witness a performance test of the turbine brake system is being schedule in January 2016.

Preparations continued for the DOE APM Cost Review to be held at SLAC, Nov 17-19th at SLAC.

Design work continued for the compressor room warm helium gas piping installation design. Design completion remains set for December 2015.

**QUALITY**

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

**Upcoming Activities:**

ICE Review at SLAC November 17-19, 2015

Warm Helium Compressor Vendor CDR, week of Jan 7th

Weekly Reporting

WBS 1.02.03.05.12 LLRF

Week of November 6-12, 2015

**Issues:** None

**Accomplishments this week:**

* LLRF Coordination/Documentation:
  + Working on DOE review recommendations for the December review.
  + Cryomodule cabling meeting is planned for Friday.
* Stepper Motor Board: The stepper board is assembled and is being tested
* Interlock Board: ARC/IR boards are being assembled. Electrometer and Vac are in CAD.
* FPGA Board: We have converted the SLAC PADs files to Altium and we are beginning to lay out this board.
* Common Power Supply: We reviewed the PS chassis specifications from the team meeting, adjusting current and adding power for the LO chassis. Distribution board is assembled and testing will begin later this week.
* CMTF: Put together an ETC for the remaining work in the JLAB CMTF modifications.

Upcoming Activities:

* + Continue with LLRF coordination
  + Test stepper board and interlock boards.
  + Start chassis assemblies for resonance and interlocks.