Weekly Reporting

WBS 1.01.07 JLAB Management

Week of October 30-November 5, 2015

**Issues:** Need to get material to Zannon, cavity vendor.

**Accomplishments this week:**

CP BCR approved for schedule acceleration and alignment of commissioning activities.

Signed off on production PRs for cavity tuners.

We have prepared September Variance reports.

Received feedback on submitted APPs.

Preparing for Cost and OPA reviews.

Continue to support power coupler procurement. Production readiness reviews in November and December for the two vendors.

**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 October 30-November 5, 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.

Updated P6 schedule progress for October.

M. Drury, K. Davis, M. Stirbet, T. Powers, A. Palczewski and E. Daly attended the Cavity and CM Testing Workshop at FNAL.

E. Daly chaired the LCLS-II Accelerator Vacuum System PDR held 29OCT.

Progress on testing end cap fabrication continues. PR for u-tubes was submitted.

AES025 was successfully doped at Zanon. Reece and Palczewksi plan to visit RI to witness doping on first cavity.

Submitted PRs for production tuners. Worked with procurement on updated APPs.

Recovery plan for copper-plated bellows is being implemented. Destructively evaluated pin-holed bellows. Next round of plating at vendor scheduled for week beginning 16-NOV after review/audit of vendor plating process with SLAC expert (A. Farvid).

AES036 is progressing towards a vertical test scheduled for Friday 6NOV.

Received second cold mass spreader bar; began inspection.

**QUALITY**

Continue to provide QA support with the plating issue on the cavity string bellows and spool pieces. Inspect and review the defective areas of the various non-conformances. Participate in vendor conference call and planning a trip to visit Epner the plating vendor in two weeks to conduct an onsite audit.

Participate in various technical or QA conference calls to support project.

We had a QA conf call with Fermilab to exchange information relating to ACSs and other new QA requests coming from Mike Skonicki. The ACS development continues for the bellows and spool pieces, pending processing of the new batches of parts. The draft ACS for the all metal gate valve will likely change pending a decision on test and inspection of the gate valves while inside the cleanroom. The draft ACS for the HOMFTs awaits a response from Fermilab. The ACSs for the Tuner and HOM Absorbers are under development at JLab.

Provide support and screening on 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 October 30-November 5, 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 and is being circulated for approval.

A design coordination meeting was held with the 4.5K cold box vendor (Air Liquide). Topics included the design of the turbine variable brake design, evaluation report of 50% load effect on the 4.5K cold box, and tasks leading to the PDR. The performance of the 4.5K cold box at 50% load was found satisfactory when combined with the turbine variable brake control system. A plan to witness a performance test of the turbine brake system is being schedule in December.

Worked to develop the backup material for the warm helium compressor BCR. The BCR was completed and accepted.

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.

Reviewed and signed the Technical Specification for the Procurement of Warm He Gas storage Tanks.

**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 October 30-November 5, 2015

**Issues:** None

**Accomplishments this week:**

Resonance Control: Stepper card has been loaded and is waiting for tests Interlocks: Arc/IR is out for manufacture. Electrometer board is ready to send out.

Power Supply: Changing 15 volt supply to 16.3. We met last week to go over the filter and fuzing.

CMTF: Electrical work has begun for the SSAs.

System: Working on cables for interlocks and resonance.

Next Week:

* CMTF: Finalize plans to complete CMTF modifications
* Continue working on prototype LLRF hardware
* Meet with SLAC concerning cryomodule cables.