Weekly Reporting

WBS 1.01.07 JLAB Management

Week of November 26-December 3, 2015

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

**Accomplishments this week:**

Working with SLAC project controls to understand the EV reported and funding numbers.

Working to advance the schedule of the CP and CM components.

Working the details of SRF cavity tuner sub-assembly procurements.

Technical evaluation of the HEP started.

Continue preparations for CD 2/3 review.

**Upcoming Activities:**

* DOE CD-2/3 Review, 8-11 December

Weekly Reporting

WBS 1.04.6 JLAB Cryomodules

Week of November 26-December 3, 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 TTC2015 at SLAC, and finalized presentations for upcoming DOE review.

Progress on testing end cap fabrication continues. PR for u-tube bayonets was submitted along with PR for flex hoses for End Cap.

Obtained DESY’s customs application including materials listing and forwarded to Zanon, who plans to contact Rome customs office regarding the application status.

Italian customs must provide a response to the application by 9-DEC.

Vendor Qualification Cavity Status:

**Zanon**

AES025 – received at JLab; being prepared for vertical testing scheduled for 7-DEC.

AES014 – electropolish completed; being prepared for shipment

**RI**

AES023 – electropolish completed; being prepared for shipment

RI023 – furnace doping run complete; electropolish complete; data under review

Manufacturing drawings from RI and Zanon 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 at SLAC. Balance of long bellows have been shipped – four to SLAC and five to Epner. Long spools are in process at vendor and SLAC. Four short bellows have been leak checked and await dimensional inspection.

CMTF coax waveguide parts are being prepared for installation. Work planning for actual installation is underway.

**QUALITY**

Continue to support with the qualification of the cavity string bellows and spools for the pCM. Issues at Epner are being addressed to improve plating quality. Following the results of long-bellows #19 (minuscule blisters found after bake test), a conference call with Epner was convened. Unit #19 was shipped to Epner at their request for examination. The unit will be returned to JLab after their inspection. In the latest round of discussions, Epner has suggested other areas of processing improvement. Pending their visual inspection of unit #19, the new improvements could be introduced in the next set of four long-bellows, which they currently have on hand.

Mike Skonicki requested JLab and Fermilab to each submit one slide on the topic of Partner Lab QA Readiness Status for the upcoming CD2/3 Review. JLab and Fermilab had the opportunity to compare the contents of their respective slides. JLab submitted our final version to Mike by the requested date.

Support was provided to the JLab Procurement department with interviews for the Procurement Administrator I position. The interview panel consisted of SOTRs, QA, and Procurement staff members. We completed interviews on three candidates. Rating reports are being compiled for submission.

**Upcoming Activities:**

* DOE CD-2/3 Review, 8-11 December

Weekly Reporting

WBS 1.04.08 JLAB Cryoplant System

Week of November 26-December 3, 2015

**Issues:** Warm helium compressor vendor ready to order 1st set of CP1 warm helium compressor motors, SLAC is unsure they can start the larger 2500HP motor without causing large voltage dip. SLAC has requested postponing ordering of 2500HP warm helium compressor motors at least until SLAC analysis is received in December.

**Accomplishments this week:**

The cryoplant recommendation responses of the Cryogenic System Final Design Review, FAC review, and Directors review were completed.

Preparations for the DOE CD-2/3 review continued through the week.

The procurement specification for the cryogenic plant warm helium gas storage vessels was completed and approved.

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.

The DOE APM Cost Review cost drill down for the CP1 warm helium compressors w/oil removal, CP2 warm helium compressors w/ oil removal, the CP2 4.5K cold box and CP2 2K cold box and the cryoplant installation budgets were presented on November 17 at SLAC There were no recommendations at closeout.

CP1 warm helium compressor vendor is ready to place orders for motors, compressor bodies, and heat exchangers on schedule. SLAC has requested holding up on order for 2500HP motors until power study is completed in December

Design work continued for the compressor room warm helium gas piping installation design. Design completion remains set for January 2016.

**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 26-December 3, 2015

**Issues:** None

**Accomplishments this week:** No report.

**Upcoming Activities:**