Weekly Reporting

WBS 1.01.07 JLAB Management

Week of Jul 15-21, 2016

**Issues:** Need to develop the plan for SRF cavity and material. This will have significant impacts on the SRF cavity contracts.

**Accomplishments this week:**

Held accrual meetings.

Attend and give presentations at the FAC review.

Start the inspection of RI first article SRF cavities.

Present BCR information for replacement HX.

Finalizing the cavity schedule acceleration BCR.

**Upcoming Activities:**

Weekly Reporting

WBS 1.04.6 JLAB Cryomodules

Week of Jul 15-21, 2016

**Issues:** Niobium tubes are on the critical path for RI and Zanon cavity production. Efficient transfer of lessons learned from FNAL pCM assembly in order to reduce JLab pCM assembly duration.

**Accomplishments this week:**

BCR for replacement heat exchanger for CMTF has been approved.

Daly, Wilson and Marhauser presented and participated in FAC.

Continuing discussion on approach for improved flux expulsion and reviewing path forward high level description within project. Two cavities will be shipped from RI in support of this effort. Four single cell cavities are in fabrication.

Received verbal approval for procurement of components for spare CM except for cavities. Need transfer of funds from 1.08 to 1.04.06.

Cavity Procurement

RI – Continue to make good progress on remaining cavities. First four cavities at JLab are going through receipt inspection. Tentative first test in VTA on 28-July. Four cavities have been shipped to FNAL. Balance of first articles are completed and will ship next week to JLab and FNAL.

See FNAL weekly report for status of material shipments. Currently connection tube materials are critical path for cavity vendors.

Zanon – DESY visited 19 July and completed CTM work. Single parts fabrication is progressing. Eight cavities are through hold point #1 and on schedule for shipment in late August.

Production tuner frame first article inspection at vendor planned for 26-July. Y. Pischalnikov (FNAL SOTR) will participate.

CM assembly activities:

Leak check of cryogenic circuit in progress. Installed GHRP end caps on 300mm pipe. Completed welding of 2 phase invar support rings. 50K lower shield parts in machine shop being modified to reflect latest drawings. String alignment schedule for week of 25-July.

Cryomodule Test Facility

Lead brick installation around fan stack has begun. Continued routing of new RF and multiconductor cables.

First two qualification bellows from plating vendor were received. Parts have passed initial mechanical inspection.

Magnet lead work is progressing and expected to complete 26-July. Magnet tooling modifications for production are in progress.

VV magnetic field mapping has been completed. Lifting test on new VV spreader bar has been completed. VV moved onto cantilever tooling.

Huque and Davis visited FNAL to witness installation of pCM onto fixture, installation of instrumentation and preparation for transportation to CMTS.

CM Assembly completion in P6 – 19-OCT; CM Testing start in P6 – 20-OCT.

Awaiting procedures from FNAL for magnet lead installation. Awaiting procedures focused on electrical methods for installation of instrumentation.

**QUALITY** –

1. Submitted the signed ACS & Grade Determination forms for the tuner frame and the HOM Absorber to SLAC.
2. All JLab ACSs have been fully signed off.
3. The JLab ACS Tracker has been completed. A final copy of the Tracker was sent to SLAC and team members at Fermilab.
4. The team is in the process of reviewing and discussing some of the initial incoming inspection results for the First Article production cavities from RI.

Planned Travel:

* WXCX Vendor Visit 1-5 AUG
* BLA Vendor Visit 14-18 AUG

Weekly Reporting

WBS 1.04.08 JLAB Cryoplant System

Week of July 15-21, 2016

**Issues:**

**Accomplishments this week:**

The procurement specification for the warm helium oil removal vessels and coalescers was completed.

The LN2 dewar procurement specification remains in circulation for comments and/or approval.

The FDR date for the 4.5K cold box is 7-8th September. The last of pre-FDR review documentation (4.5K Cold Box P&ID) was delivered (4.5K cold box P&ID).

Presentations for the cryoplant layout and installation, commissioning, 2K cold box, and controls were presented during the LCLS-II FAC review held July 19-21st

A one-hour meeting was held with John Schmerge (operations) at SLAC to coordinate commissioning of the cryoplant.

Bids for the warm helium gas storage vessels are due by 8 August.

The 4.5K cold box vendor is in the process of developing the 3D internal piping design for the upper and lower cold boxes. A preview of the customer access within the cold boxes is planned between JLab and the vendor during the week of July 25th.

The design of the transfer line interface boxes continued through the week.

**QUALITY** –

* A visit to the warm helium compressor vendor is planned toward the end of July for compliance verification.
* Continue to work with CryoPlant staff on the M: drive for storing vendor supplied documents.

**Upcoming Activities:**

Cryoplant BIO Review 9 Aug 2016

Director’s Review 28 Aug-1 Sept 2016

4.5K Cold Box FDR 7-8th Sep 2016

Weekly Reporting

WBS 1.02.03.05.12 LLRF

Week of Jul 15-21, 2016

**Issues:** None

**Accomplishments this week:** No report - on vacation this week.