Weekly Reporting

WBS 1.01.07 JLAB Management

Week of Jun 17-23, 2016

**Issues:** Material is on the critical path for the cavity production. Need a schedule from SLAC for the copper plating of the first sets of bellows and spool pieces.

**Accomplishments this week:**

Cavity SO travel to cavity vendor, RI, in Germany to support Project Director visit.

Prepared BCR information for cavities, tuners, string bellows and spool pieces copper plating.

Developed and distributed internal EV charts before and after replan.

**Upcoming Activities:**

Weekly Reporting

WBS 1.04.6 JLAB Cryomodules

Week of Jun 17-23, 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:**

BCRs have been combined for Cu-Plated Bellows/Spools, and End Lever Tuners Frames. BCR forms have been submitted for review. Plan to complete by 24-June.

After discussions with SLAC PMO, a BCR for cavity vendor incentives will be presented at CCB 6/23.

Flux expulsion discussion planned for 30-June with world-wide experts. Draft charge has been circulated. Goal is to review test results and proposed plans for improving flux expulsion.

Cavity Procurement

Visited DESY on June 10 and discussed CTM contract technical scope and responsibilities currently in place between cavity vendors and DESY.

RI – A total of twelve cavities have been released from hold point two – these cavities have been doped.

See FNAL weekly report for status of material shipments. Currently connection tube materials are critical path for cavity vendors. Customs official at DESY will be out of the office for the next three weeks.

Zanon QA plan was reviewed by JLab QA lead and FNAL SME.

Flux expulsion tests are in progress on Tokyo Denkai single cell cavities. Testing expected complete by 6/24 with results to follow at next SRF weekly meeting.

Zanon will have eight cavities ready for review of hold point 1 as of this Friday.

Follow up with S. Chandrasekaran (FNAL SOTR) on demagnetization and magnetic shielding are on-going. Another trip is proposed for when VV degaussing will happen.

CM assembly activities:

Cold Mass Assembly

Second layer of magnetic shields installed on all cavities. Helium vessel Met-glass on lugs modified as requested, isolating first to second layer contact. Installed Met glass and Mu caps. Magnetic shielding end cap modifications are in progress.

Completed heat stations on remaining FPCs. Continuing with vacuum vessel inspection. Materials for demagnetizing vacuum vessel have been received.

Request made to FNAL for Quad Magnet lead soldering support / training (Tom H.)

CM Assembly completion in P6 – 20 OCT; CM Testing start in P6 – 7-NOV.

Continuing to update Bill of Materials in order to highlight missing items. Working with FNAL staff to identify and procure missing items so as not to delay pCM assembly.

CMTF: Coax to waveguide transitions continue to be installed, nearing completion. Waveguide sections for the verticals (coax transitions down to the FPC locations) are being assembled and installed. U-tube fabrication is on-going

Draft of sole source document for BLA procurement has been completed and circulated for internal review.

Wilson, Peshehonoff and Leung completed on-site visits at copper plating vendors, and visited SLAC to review status and plans for plating activities at SLAC for first five sets of components.

Huque, Torres and Martin plan to visit shipping frame vendor to assess progress and for welding inspection.

Daly participated in MUON shielding FDR via teleconference.

**QUALITY** – No report – on travel.

Planned Travel:

* RI Vendor Visit w/Galayda 24-JUN, Zanon Vendor Visit w/Galayda TBD
* Shipping Frame Vendor Visit – Welding Inspection 29-Jun
* WXCX Vendor Visit 1-5 AUG

Weekly Reporting

WBS 1.04.08 JLAB Cryoplant System

Week of Jun 17-23, 2016

**Issues:**

**Accomplishments this week:**

Vendor 2K cold compressors for both CP1 and CP2 final offers are due by Monday, 27th of June.

The 4.5K cold box vendor has moved the FDR date from 25th July to 7-8th September. The last of pre-FDR review documentation is due before 19th of August. A preliminary outline of the presentations and list of documentation has been provided to JLab.

Requisition for the warm helium gas storage vessels has been released with the specification to be released during the week of 27 June.

An overview cryoplant installation presentation was made to contractors in support of SLAC Vendor Day which was held at SLAC on June 22.

A review of the 4.5K cold box P&ID has been conducted in detail and comment resolution on going with scheduled completion by end of week 24 June.

The 4.5K cold box bayonet location design and suggested interconnection transfer line routing was completed and transmitted to the vendor.

Preparations are underway for the FAC review, inclusive of plant installation, 4.5K cold box, 2K cold box, and controls presentations.

The design of the 2K cold box assembly continues centered in a round vertical vessel of ~12 foot diameter.

The warm helium compressor vendor has received 4 of the 6 compressor bodies for CP1from their supplier.

**QUALITY**

No Report

**Upcoming Activities:**

Cryoplant BIO Review 9 Aug 2016

4.5K Cold Box FDR 7-8th Sep 2016

Weekly Reporting

WBS 1.02.03.05.12 LLRF

Week of Jun 17-23, 2016

**Issues:** None

**Accomplishments this week:**

**JLAB –** This week we hosted the LLRF Team (SLAC, LBNL, FNAL) at JLAB for our quarterly team meeting.

**Upcoming Activities:**

* + Continue prototype tests and assembly (resonance, interlocks, power supply)