Weekly Reporting

WBS 1.01.07 JLAB Management

Week of Oct 7 - 13, 2016

**Issues:**

**Accomplishments this week:**

Held status/schedule meeting in 4.5 K vendor at their headquarters in Houston.

Several staff went to FNAL for the DoE OPA Review.

Cryoplant Installation BCR was presented.

**Upcoming Activities:**

Weekly Reporting

WBS 1.04.6 JLAB Cryomodules

Week of Oct 7 - 13, 2016

**Issues:** Efficient transfer of lessons learned from FNAL pCM assembly in order to reduce JLab pCM assembly duration. Cost and schedule impacts due to cavity recipe development effort at vendor. Need license agreement from DESY for Beamline Absorbers to progress with the procurement.

**Accomplishments this week:**

Participated in OPA review at FNAL.

BCR is under development for beamline bellows plating schedule adjustment. Need to understand split of effort between vendor and SLAC.

Received response from second vendor regarding cost impact of caps. Some clarifications are in progress as BCR is being prepared.

Reviewed cost estimate for RF processing of 4 sets of FPCs for SLAC at JLab and updated list of procurements. Need to prepare BCR for submission.

Cavity Procurement

RI - The two bare cavities shipped from RI on 6-Oct. The two dressed cavities have a ship date of 18-Oct. Received and reviewed meeting report from vendor visit.

Zanon - Cavity Ship Dates:

First four cavities, 0200 to 0203, arrived at JLab on Tuesday. Second four cavities, 0204 to 0207, will ship this Friday or Monday to FNAL. Next eight cavities (200 microns EP/900 deg. C bake) are planned to ship to JLab and FNAL mid-November. No weekly meeting due to travel to FNAL for OPA review.

CM assembly activities:

pCM was moved to WS5 on Friday. Active Fluxgate monitoring has been re-established in preparation of JT welding. Procedure signed off for pressure testing of cryo piping. X-Ray of JT welds tentatively scheduled for 21-Oct. Hardware on order to new dwg rev for Warm Coupler installation (Frisbee, M8). Tooling being made for coupler installation to react vacuum loading.

Current CM completion date is 22-NOV in P6.

Production CM Activities

WXCX Vacuum Vessel has passed leak check.

Continuing to inspect bellows and spools.

Continuing to inspect production tuner frames. Some minor NCRs related to dimensional issues have been initiated.

Magnet lead flanges have been modified and are currently being leak checked.

Main coupler (MC) line has been shipped back to the vendor for repair of out of tolerance issues.

2nd set of lollipops for the next string (CM03) has been installed on the spare cavity assy rail.

Continued to receive FPCs from CPI and RI. As of 11-Oct, we have 18 cold parts with incoming inspection done, stored in clean room desiccator and 16 warm parts with incoming inspection done, stored win desiccator installed in warm FPC working area. Sent back to vendors all recovered PIC.

Shipping frame has been delivered and is stored in the Accelerator site. Shipping caps have arrived and are installed on the WXCX Vacuum vessel. Shipping cap related GHRP plugs will need modification to clear heavy interior weld.

The CM02 string has been assembled and is currently being leak checked.

Cryomodule Test Facility

Cable pulling work has been interrupted by testing of an upgraded injector cryomodule. Work to recommence after completion of QCM. Warm up is planned for the end of this week.

**QUALITY**

* Mike Skonicki will visit JLab in November to conduct an assessment on welding of the LCLSII CMs. Date and agenda are forth coming.
* Reviewed data and documents on production vacuum vessel VV006 from WXCX.
* Reviewed data and documents on the third production upper cold mass assembly UCM008 from WXCX.
* On-going activities with Significant NCR development and reporting.
* Participated in the discussions of pCM Lessons-learned with SOTRs and production staff.

**Upcoming Travel:**

* Saravan (FNAL Magnetic Hygiene) visiting JLab on 13-14 Oct 2016
* Vacuum Vessel Visit to China 7-11 Nov 2016
* Visit to Cornell 10 Nov 2016 to discuss possible cavity testing

Weekly Reporting

WBS 1.04.08 JLAB Cryoplant System

Week of Oct 7 - 13, 2016

**Issues:**

The 4.5K Cold Box vendor reported a 12-week delay in the delivery during the FDR. JLab has requested the vendor to recover the delay time in accordance with the contract. JLab met with vendor management in Houston, 10 Oct but no plan was presented.

The 2K Cold Box PDR was held on 27 September at JLab. SLAC participants included David Schultz, Greg Hays, Hongyu Bai, Viswanath Ravindranath, and Antonio DeLira. Committee recommendations continued to be addressed from the previous week.

A BCR presentation was developed in support of transferring the cryoplant installation effort from JLab to SLAC and is pending CCB approval.

The DOE LCLSII Project Status Review was held from Oct 12-14th. Presentations included status of the Cryoplant progress, installation plan, and commissioning.

The design of the transfer line interface boxes and related transfer line continued through the week. A review of the interface box design and connected transfer line remains set for January 2017.

The installation/BIO design review is planned for 18 Oct 2016. The review charge, committee members, and agenda have been distributed.

**QUALITY**

* Reviewing various vendor proposals for the fabrication of the Oil Removal Vessels.

**Upcoming Activities:**

Installation Design Package PDR 18 Oct 2016

2K Cold Compressor Design Review Part 1, Nov 8, 2016

2K Cold Compressor Design Review Part 2, Jan 11, 2017

Interface Box/Transfer Line PDR January 2017

Weekly Reporting

WBS 1.02.03.05.12 LLRF

Week of Oct 7 - 13, 2016

**Issues:** None

**Accomplishments this week at JLAB**: No report – participating in DOE Status Review.