Weekly Reporting

WBS 1.01.07 JLAB Management

Week of August 14-20, 2015

**Issues:**

**Accomplishments this week:**

JLab and vendor sight visit to SLAC.

Review and update schedules in preparation for new baseline.

Prepared funding request for FY16 Q1,Q2.

Received reworked cryomodule assembly tooling.

RFI issued for closed chemistry tool.

Interviewing for an additional procurement position.

**Upcoming Activities:**

Cryo System FDR in September

Weekly Reporting

WBS 1.04.6 JLAB Cryomodules

Week of August 14-20, 2015

**Issues:** JLab needs four more SLAC-qualified cold couplers for prototype cavity string assembly.

**Accomplishments this week:**

The first VQ cavity (AES023) is in transit to RI, along with one set of testing hardware.

The second VQ cavity (AES025) is in transit to Zanon, along with one set of testing hardware.

The third and fourth VQ cavities (RI023, AES014) are being prepared for baseline testing.

JLab now has eight cavities on-site - AES029, 030, 031, 032, 033, 034, 035 and 036. One cavity is qualified for string assembly – AES035.

AES030 was vertically re-tested and still did not qualify (Q0 ~2 x 10^10).

AES036 test was aborted due to field emission. Re-scheduled for 9/1.

AES031 is being processed and prepared for vertical testing. A thicker vacuum seal will be used to resolve interference between HOM hook and feedthrough.

Received two cold couplers from Cornell and began receipt inspection. These couplers showed signs of oxidation on the inner conductor. This issue is being resolved with SLAC.

Continuing with preparations for HTB testing of AES033 in mid-August. Cold mass was installed in vacuum vessel. Instrumentation and cabling is being installed. Tooling for warm coupler installation is completed.

SSA waveguide has been installed. Hook up of electrical and water utilities, and integrating PSS connections is on-going.

Balance of CM assembly tooling expected to arrive Thursday morning. Plans for installation are on-going.

Three cu-plated bellows assemblies were received by FNAL.

**QUALITY**

We had another teleconference with FNAL on the LCLSII QA topics. We discussed FNAL Parts & Receiving procedure TD-2201 and also reviewed the edits made by Jamie Blowers to the Multi Lab NCR Communication flow chart. More changes are needed for the flow chart to include the role of the ‘Acquisitioner’ at FNAL, whose function is to take some of the administrative burdens off of the SOTRs when it comes to component procurements.

Johnny will continue to work with Jamie Blowers, Ed Daly and the JLab SOTRs on the Acceptance Criteria Strategy documents for the other component procurements.

In the QA conference call with FNAL we also talked about the draft paper on LCLSII QA Systems Collaboration for the upcoming SRF Conference in September. Jamie Blowers will review the draft and provide feedback to Anne McEwen.

**Upcoming Activities:**

* 13-18 September 2015 – SRF2015, Vancouver
* 28-30 September 2015 – Cryosystems FDR at SLAC

Weekly Reporting

WBS 1.04.08 JLAB Cryoplant System

Week of August 14-20, 2015

**Issues:** Proposed (the cryomodule Rev 1 EN heat load document) cryomodule shield heat leak appears to exceed the refrigeration shield capacity of a single plant.

**Accomplishments this week:**

The LCLS-II 4.5K Cold Box procurement is the final stage of award. A planned vendor visit to SLAC for on-site condition discussion was conducted Aug 19-20th.

A draft version of the 2K cold compressors and helium gas storage vessels procurement specifications were released for comment.

Work continued developing documentation for the warm helium compressor PAR.

A second Integrated Cryogenic Plant Infrastructure Review, hosted by JLab, was held Aug 18th. Topics include the technical integration between the cryogenic plant and civil design of the cryogenic plant building utilities and equipment layout.

Weekly meetings with SLAC Infrastructure continued for planning the new larger cryoplant building for the first and second cryogenic plant continued. Topics included electrical power and cooling water, equipment layout and work clearances.

**QUALITY**

No Report

**Upcoming Activities:**

Sept 28-30th, Cryogenics System Final Design Review hosted by SLAC

Weekly Reporting

WBS 1.02.03.05.12 LLRF

Week of August 14-20, 2015

**Issues:** None

**Accomplishments this week:**

* Stepper Motor Board: Stepper motor board is finished. I am checking it now and will send it for the review.
* Interlocks Board: William is working on it (arc & IR board) if he doesn't have time for the other board, Rama will work on the electron pick up and the vacuum board
* Common Power Supply (JLAB): Working on rear connector and filter panel design for the chassis.
* CMTF: SSA has waveguide installed to it. Electricians are working on the 208 VAC extension cord. A plan for the LCW system for both the SSA and isolator is being implemented. The EPICS control interface will be complete early next week.

**Upcoming Activities:**

* Continue working on boards and chassis.
* Update power supply and order parts.
* Complete Stepper ESD and start the Interlocks ESD.