Weekly Reporting

WBS 1.01.07 JLAB Management

Week of August 21-27, 2015

**Issues:**

**Accomplishments this week:**

We are making good progress on action items from the Cryo modeling workshop meeting held at JLab.

Finalizing details of FNAL-JLab schedule logic links for new baseline.

Finalizing vendor information for CP#1 4.5K CB into P6.

Sent funding request for FY16 Q1, Q2.

We held the briefing for SLAC project management on CP warm compressor procurement recommendation.

The procurement department completed interviewing for an additional procurement position.

Final pCM copper plated beamline spool pieces and bellows were shipped by vendor.

**Upcoming Activities:**

Cryogenics System FDR at SLAC, September 28-30, 2015

Weekly Reporting

WBS 1.04.6 JLAB Cryomodules

Week of August 21-27, 2015

**Issues:** JLab needs two 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. Considering corrections for testing hardware, five cavities are qualified for string assembly – AES030, 032, 033, 034, 035.

Two cold couplers received from Cornell show signs of oxidation on the inner conductor and are under evaluation for use in the prototype string. This issue is being resolved with SLAC.

Continuing with preparations for HTB testing of AES033. Cold coupler was installed. HTB was installed in CMTF. Warm coupler was installed. Instrumentation was completed. HTB was cooled down on Wednesday. Plan to begin RF testing next Monday, 8/31.

SSA water connections are completed. Hook up of electrical service and integrating PSS connections is on-going, and expected to be operational Monday.

Balance of CM assembly tooling arrived Thursday morning. Plans for installation are on-going.

Submitted requests for authorization to proceed with production procurements for gate valves and HOM & Field Probe feedthroughs.

**QUALITY**

Draft ACS documents for the Cavity String Bellows & Spool pieces were created and are being reviewed internally.

**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 21-27, 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 continued in the final stages of award

A draft version of the 2K cold compressors (JLab 79222-S001) and helium gas storage vessels (JLab 79720-S001) procurement specifications were released for comment. Comments have been received and are in the process of being incorporated into the procurement specification.

Technical responses to action items stemming from the Cryogenic Systems Modeling Review of August 11-13th were developed and submitted.

Modification of the Cryoplant Functional Requirements Document LCLSII-4.8-FR-0244 was completed and submitted to project for approval.

Review of the SLAC documentation “Cryogenic Systems Integration”, LCLSII-4.1-FR-0327 was completed and approved.

Work developing documentation for the warm helium compressor PAR was completed and a presentation was made to JLab project management on August 25th. A presentation is scheduled for SLAC project management on August 27th followed by a DOE presentation on August 28th.

**QUALITY**

Reviewed the QA requirements on the draft Technical Specifications for the 2K Cold Compressor and the Warm Helium Storage Tanks.

**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 21-27, 2015

**Issues:** None

**Accomplishments this week:**

* Stepper Motor Board: Stepper motor controller board - sent it for the review. If I don't hear anything back by Friday morning, I will send the board out.
* Interlock Board: William is working on it. I will finalize the schematic before I leave on Friday, so that he can work on it next week.
* Common Power Supply (JLAB): Working on rear connector and filter panel design for the chassis.
* CMTF: SSA is close. The plan is to power it up Thursday or Friday.
* RF Chassis: A field control chassis is being upgraded to operate at 1300 MHz.

**Upcoming Activities:**

* Continue working on boards and chassis.