Weekly Reporting

WBS 1.01.07 JLAB Management

Week of August 7-13, 2015

**Issues:** None

**Accomplishments this week:**

Hosting the Cryogenic Systems Modeling Meeting on 11-13 August, 2015.

Planning vendor sight visit to SLAC.

Submitted monthly cost and funding report.

Review July progress with SLAC.

**Upcoming Activities:**

Weekly Reporting

WBS 1.04.6 JLAB Cryomodules

Week of August 7-13, 2015

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

**Accomplishments this week:**

The first VQ cavity (AES023) was shipped to RI, along with one set of testing hardware.

The second VQ cavity (AES025) was shipped to Zanon, along with one set of testing hardware.

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

AES031 was received from Cornell. 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 tested but did not qualify (Qo ~2 x 10^10). It will be re-tested next week.

AES036 was scheduled for testing Wednesday evening – results pending.

AES031 was inspected and has begun processing. Analysis of HOM hook / feedthrough interference is on-going. Draft plans for re-work were developed.

Continuing with preparations for HTB testing of AES033 in mid-August. Cavity/HV assembly is installed in space frame. Instrumentation and cabling is being installed. Tooling for warm coupler installation is being fabricated.

Completed initial inspection then moved SSA to final location. Currently hooking up electrical and water utilities, and integrating PSS connections.

Balance of CM assembly tooling is en-route from vendor to JLab.

The first batch of cavity string bellows (specifically spool pieces) have been received at JLab. Two sets of spools were shipped to FNAL.

Participated in Cryogenic Systems Modeling Meeting at JLab with SLAC, FNAL, Cryo consultant and JLab for integrated system process modeling.

**QUALITY**

* No report.

**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 7-13, 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 LCLSII 4.5K Cold Box Procurement is the final stage of award.

Work continued developing documentation for the warm helium compressor PAR

Work will include the compressor room warm helium piping design

An Integrated Cryogenic System Process Modeling Review hosted by JLab, was held Aug 11-13th. Topics include the technical integration between the cryoplant, cryogenic distribution system and cryomodules.

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

**QUALITY**

No Report

**Upcoming Activities:**

18 August 2015, 2nd JLab planned hosted visited SLAC Infrastructure and HDR, Inc. cryogenic plant design meeting.

Weekly Reporting

WBS 1.02.03.05.12 LLRF

Week of August 7-13, 2015

**Issues:** None

**Accomplishments this week:**

* Stepper Motor Board

The stepper board is coming to close being finished. I will finish it this week and send out schematic and gerbers for review.

* Interlocks Board

William has completed the schematic for arc & ir board and he will get started on the pcb. Rama is working with him on the FMC to custom breakout board.

* Common Power Supply (JLAB): Revising supply specifications to support the LO distribution and the upconverter.
* CMTF: SSA has been placed above the CMTF. We are working on getting, waveguide, 208 VAC and water to it.

**Upcoming Activities:**

* Continue working on boards and chassis.
* Complete Stepper ISD and start the Interlocks ISD.