Weekly Reporting

WBS 1.01.07 JLAB Management

Week of July 24 - 30, 2015

**Issues:** None

**Accomplishments this week:**

Preparations for hosting the Cryogenic Systems Modeling Meeting on 11-13 August, 2015

Developing the FY16 JLab internal work plan based on the P6 plan.

Conducted a vendor visit to the SSA supplier for the “off the shelf” supply.

Plating contract placed for the cavity string beamline components.

**Upcoming Activities:**

11-13 August 2015 – Cryogenic Systems Modeling Meeting at JLab with SLAC, FNAL, Cryo consultant and JLab for integrated system process modeling.

Weekly Reporting

WBS 1.04.6 JLAB Cryomodules

Week of July 24-30, 2015

**Issues:** None

**Accomplishments this week:**

JLab needs to have four vendor qualifications and two dummy load cavities made available for shipment to cavity vendors. Four vendor qualification cavities have been made available as well as two dummy cavities.

The third VQ cavity (RI023) has been identified and is being prepared for baseline testing.

The fourth VQ cavity (AES014) was received from FNAL this week, and is being prepared for baseline testing.

Dummy cavity (JLab #1) was shipped to RI this week.

AES029 is in transit from FNAL. JLab now has AES030, 32, 33, 34, 35 and 36 on-site.

Continuing receipt inspection of HOM, FP and BPM cold feedthroughs for pCMs.

Continuing with preparations for HTB testing of AES033 in mid-August. Cold FPC was installed 7/23 and the assembly was under vacuum and leak tight 7/24. Inner magnetic shielding is being installed. Received warm coupler parts and heat station clamps from FNAL.

Met with JLab Alignment Group to update plans for prototype string alignment activities.

Plans for installation of CM tooling are continuing including procurement and layout of anchors.

SOTR visited vendor that will copper plate cavity string bellows and spool pieces. Remaining parts have been inspected and NCRs are resolved.

H. Park, N. Huque and E. Daly participated in the Interconnect FDR conducted by FNAL.

**QUALITY**

* Continue to review the draft LCLS-II Production Multi-lab NCR Communication flow chart. Received good feedback from JLab procurement staff and SRF leadership in the review of the flow chart. Received preliminary feedback from FNAL on the flow chart. Awaiting FNAL additional information on depiction and description of their NCR process flow.
* On-going work to complete the ACS documents for the key production components. Awaiting final feedback from FNAL on the dressed cavity ACS documents.

**Upcoming Activities:** None

Weekly Reporting

WBS 1.04.08 JLAB Cryoplant System

Week of July 24-30, 2015

**Issues:** None

**Accomplishments this week:**

With the approval of the 2nd cryogenic plant addition BCR, engineering and design work began to modify the system P&IDs for two plants

3-D modeling of the warm helium compressor room piping was initiated.

Final reviews for the oil removal vessel, He dewar, 4160V MCC, gaseous helium storage tanks, charcoal vessel, and helium recovery specification underway

Weekly meetings with SLAC Infrastructure continued for planning the new larger cryoplant building for the first and second cryogenic plant. Topics included final equipment clearances and requirements for the LN2 transfer line and gaseous helium storage tank process lines across the north road of the cryoplant building.

**QUALITY**

No Report.

**Upcoming Activities:**

11-13 August 2015 – Cryo System meeting at JLab with SLAC, FNAL, Cryo consultant and JLab for integrated system process modeling.

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

Weekly Reporting

WBS 1.02.03.05.12 LLRF

Week of July 24-30, 2015

**Issues:** None

**Accomplishments this week:**

Stepper Motor Board

* Schematic is done. Rama is working on the layout. He should be finished by the end of next week.

Interlocks Board

* Will has all the information he needs to start the schematic. He will be able to get on it late today or tomorrow. We are aiming for August 15 to send it to the board house.

Common Power Supply (JLAB): Dave’s on vacation.

CDR Response: I sent our response to Hamid.

LLRF FRS: Is finally out for signatures.

SSA (JLAB): Visited CPC and reviewed the 3.8 kW amplifier.

**Upcoming Activities:**

* Continue working on boards and chassis.
* Work on SSA control for CMTF.