Weekly Reporting

WBS 1.01.07 JLAB Management

Week of September 18-24, 2015

**Issues:** Need FY16 Q1,Q2 money/budget into DOEPAC system by 20 October 2015.

Cryogenic shield load appears to exceed capability of one cryoplant for planned first light operating conditions.

Awaiting approval to proceed with production component orders for gate valves, HOM & FP feedthroughs.

**Accomplishments this week:**

4.5K CB vendor kick-off meeting scheduled for Oct 8-9.

Made the warm compressor award notification to the vendor.

Final HTB testing for the pCM completed.

Commented and participated in the closeout of Cryogenic Systems Report.

Updated the new baseline with August progress.

**Upcoming Activities:**

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

4.5K Cold Box Vendor Kick-off Meeting, tentatively 1st week of October

Weekly Reporting

WBS 1.04.6 JLAB Cryomodules

Week of September 18-24, 2015

**Issues:** pCM component schedules, JLab pCM schedule is driven by the availability of parts.

Awating approval to proceed with production component orders for gate valves, HOM & FP feedthroughs.

**Accomplishments this week:**

Preparations continued for the Integrated Cryogenic Systems review to be held at SLAC Sept 28-30th and the FAC Review for 13-15 Oct 2015 and the ICER review in Nov 2015.

Completed HTB testing of AES 033, limited to ~13 MV/m due to available rf power.

Rough installation of the Cantilever fixture was completed.

Prepared BCR material for proposed change to cavity parts in circulation.

Copper plated bellows for the pCM did not pass blister test. Copper blisters in convulsions cause for sending parts back to vendor. NCRs are in place and coordinated activities with FNAL who have received similar parts.

**QUALITY**

Working on the dressed cavity ACS change request from Mike Skonicki. The details of the change request have been reviewed at Jlab and will also be discussed with Fermilab at the next QA conference call.

Mike Skonicki also requested information on the results of the HTB. It was explained to Mike that the HTB would not be a regular part of the cryomodule production process so it does not necessarily fit the Acceptance Criteria Strategy. The results of the HTB are discussed with the partner labs as part of the on-going Project technical activities.

**Upcoming Activities:**

* 28-30 September 2015 – Cryosystems FDR at SLAC

Weekly Reporting

WBS 1.04.08 JLAB Cryoplant System

Week of September 18-24, 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:**

Preparations continued for the Integrated Cryogenic Systems review to be held at SLAC Sept 28-30th and the FAC Review for 13-15 Oct 2015 and the ICER review in Nov 2015.

A draft version of the 2K cold compressors (JLab 79222-S001) and helium gas storage vessels (JLab 79729-S001) procurement specifications were released for comment. Comments were received and are in the process of being incorporated into the procurement specification.

A warm helium compressor procurement presentation was made SLAC and DOE. DOE has approved the award recommendation on Sept 22th. Award is pending

John Pucci and Viswanath Ravindranath (engineers from SLAC), have relocated to Virginia and have joined the JLab cryogenic group for the LCLS-II Project. John is actively engaged in operations of large JLab 2K refrigeration systems. Vishy has completed comparing his systemic modeling with the JLab CHL-2 with excellent results.

Weekly meetings with SLAC Infrastructure continued for planning the new larger cryoplant for the first and second cryogenic plant.

**QUALITY**

ACR development for the major cryoplant subsystems is planned to be completed.

**Upcoming Activities:**

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

4.5K Cold Box vendor kick off meeting, Oct 8-9th at PHPK in Columbus, OH

Weekly Reporting

WBS 1.02.03.05.12 LLRF

Week of September 18-24, 2015

**Issues:** None

**Accomplishments this week:** Traveled to SLAC this week – no report.

**Upcoming Activities:**

* + Team Meeting planned at FNAL on Oct 6-7.