Weekly Reporting

WBS 1.01.07 JLAB Management

Week of September 25-October 1, 2015

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

light operating conditions.

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

Need to approve and fund cavity contract phase 2 and 3 to maintain schedule project.

**Accomplishments this week:**

Participated in the CS FDR.

New procurement staff member hired and started work.

Held PRR for HEP machine.

**Upcoming Activities:**

* 4.5K Cold Box vendor kick off meeting, Oct 8-9th at PHPK in Columbus, OH
* Warm Compressor kick-off meeting, October
* FAC Review at SLAC 13-15 October
* Director’s CD 2/3 & Cost/Schedule Review at SLAC 20-23 October
* Cavity & CM Testing Workshop at FNAL

Weekly Reporting

WBS 1.04.6 JLAB Cryomodules

Week of September 25-October 1, 2015

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

Awaiting funding to proceed with accelerated cavity schedule.

Availability of niobium material for cavity vendors.

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

**Accomplishments this week:**

Participated in the Integrated Cryogenic Systems review held at SLAC Sept 28-30th.

Preparations continue for the FAC Review for 13-15 Oct 2015 and the ICER review in Nov 2015.

Zanon received their first VQ cavity from Italian customs. It had been held for more than three weeks.

HTB is being disassembled. Cavity AES033 should be delivered to the cleanroom by Friday.

Installation of the Cantilever fixture rails is continuing. Holes were drilled, anchors were installed and rails were cut to final lengths. Hardware is in fabrication for mounting the fixed end to the floor.

Spreader bar and CM lifting fixture have been sent out for load testing.

Discrepant bellows were returned to plating vendor for rework. The modified plating process was reviewed and found generally acceptable by the SLAC expert (A. Farvid) during a telecom with the vendor. The first two reworked bellows are expected to arrive at JLab on Friday. A back-up plan was developed to use SLAC plating facilities in case the vendor continues to have quality issues.

**QUALITY**

In the JLab/Fermilab QA conference call we discussed the activities and the document requests from Mike Skonicki’s visit to JLab on Sep 15, 2015. The requested changes to the cavity ACS form from Mike are deemed acceptable to Fermilab (per J. Blowers).

We also discussed Mike Skonicki’s request for NCR documents related to the bellows issue. The bellows received by JLab for the prototype cavity string exhibited stains and Cu flaking after the incoming tests. JLab and Fermilab have followed the NCR processes in terms of SOTR Communication and the disposition of the non-conformances. Several of the bellows from JLab have been returned to vendor for strip & re-plate. The remaining parts at JLab will follow suit.

A separate meeting has been scheduled within JLab Project leadership to discuss NCRs and QC document transfer to SLAC.

In the meeting with Fermilab, Anne provided QA feedback from the 2015 SRF Conference that was held in Whistler, BC. Mike Skonicki requested a copy of the LCLSII QA Collaboration paper and poster which JLab will be provide, once the official copies are released from the Conference site.

**Upcoming Activities:**

* FAC Review at SLAC 13-15 October
* Director’s CD 2/3 & Cost/Schedule Review at SLAC 20-23 October
* Cavity & CM Testing Workshop at FNAL

Weekly Reporting

WBS 1.04.08 JLAB Cryoplant System

Week of September 25-October 1, 2015

**Issues:**

**Accomplishments this week:**

The Integrated Cryogenic Systems review was held at SLAC Sept 28-30th

Preparations for the FAC Review for 13-15 Oct 2015 and ICER review dry run continued

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, documented and are in the process of being incorporated into the procurement specification for final release.

The warm helium compressors were awarded to PHPK, Columbus, OH.

John Pucci and Viswanath Ravindranath are actively working within 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. His work now centers on modeling of the vendor 4.5K cold box mode modeling.

Weekly meetings with SLAC Infrastructure continued for planning the new larger cryoplant for the first and second cryogenic plant. A 90% design completion review was held at SLAC, 28 Sept 2015

**QUALITY**

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

**Upcoming Activities:**

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 25-October 1, 2015

**Issues:** None

**Accomplishments this week:**

* LLRF Coordination/Documentation:
  + LLRF FRS is complete
  + Pushing ESDs
  + Attended MO meeting with Wenzel and LLRF Team
  + Discussed breakout patch panel and racks through email and conversations
* Stepper Motor Board: The stepper board should be back later this week
* Interlock Board: Work continues on interlocks schematic and pcb.
* Common Power Supply: Break out backplane is out for manufacture.

**Upcoming Activities:**

* Continue with LLRF coordination, Prepare for Team meeting
* Test stepper board.
* Continue working on the interlock boards.
* Coordinating prototype cryomodule test facility modifications
  + Begin working on FAC/DIR/DOE presentations
  + Team Meeting planned at FNAL on Oct 6-7.