Weekly Reporting

WBS 1.01.07 JLAB Management

Week of October 9-15, 2015

**Issues:**

**Accomplishments this week:**

Participation in the FAC Reviews.

Preparation or the Director’s and cost reviews.

Kick off meeting for the Warm Compressors contract.

**Upcoming Activities:**

* FAC Review at SLAC 13-15 October
* Warm Compressor kick-off meeting, October 14-15th at PHPK in Columbus, OH
* Director’s CD 2/3 & Cost/Schedule Review at SLAC 20-23 October
* Cavity & CM Testing Workshop at FNAL 29-30 October

Weekly Reporting

WBS 1.04.6 JLAB Cryomodules

Week of October 9-15, 2015

**Issues:** pCM component schedules, JLab pCM schedule is driven by the availability of parts, in particular cu-plated cavity string bellows.

Awaiting funding to proceed with accelerated cavity schedule.

**Accomplishments this week:**

Awarded options for production HOM & FP feedthroughs.

Participating in the FAC Review for 13-15 Oct 2015.

Preparing back up documentation for the ICER review in Nov 2015.

Planning to attend the Cavity and CM Testing workshop at the end of the month.

Installation of the Cantilever fixture rails is continuing. Fixture is aligned and being mounted to the floor.

Installed vertical supports for second Phase II assembly station.

Progress on testing end cap fabrication continues. The bayonets have been welded. A second fixture has been made to hold the second bayonet box assembly.

Inspection report completed for the 300 mm pipe needed for the GHRP sub-assembly. Non-compliances are being reviewed with FNAL SOTR. A basic assembly procedure has been developed. The BOM provided by FNAL has been reviewed.

Five bellows were received, cleaned, optically inspected, cycled to 400 deg C in the furnace and re-inspected optically. Adhesion was generally very good, and almost no staining was evident – a significant improvement in quality. However, during evaluation pin holes in the stainless steel were found. The vendor was instructed to stop rework. An order for 18 long bellows was placed on Tuesday. A recovery plan is being developed.

BPM and quad spool are cleaned are ready for assembly in the clean room.

**QUALITY**

Working on a draft internal policy on NCR reporting for LCLSII.

Continue to work with SOTRs in the process of closing NCRs.

**Upcoming Activities:**

* Director’s CD 2/3 & Cost/Schedule Review at SLAC 20-23 October
* Cavity & CM Testing Workshop at FNAL 29-30 October

Weekly Reporting

WBS 1.04.08 JLAB Cryoplant System

Week of October 9-15, 2015

**Issues:** None

**Accomplishments this week:**

An engineering kick off meeting was conducted with the 4.5K cold box vendor Air Liquide on Oct 8-9th.

Attended FAC Review at SLAC Oct 13-15 and presented talk on Double-Cryoplant Design.

Preparations for the ICER review continued through the week.

The 2K cold compressors specification (JLab 79222-S001) was released for SLAC signature approvals.

Design work continued for the compressor room warm helium gas piping installation design. Design completion goal set for December 2015.

**QUALITY**

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

Reviewed and approved the Quality Assurance requirements in the Technical Specification for the 2K Cold Compressor.

**Upcoming Activities:**

LCLSII Director’s CD-2/3 Review, Oct 20-22, 2015 at SLAC

Weekly Reporting

WBS 1.02.03.05.12 LLRF

Week of October 9-15, 2015

**Issues:** None

**Accomplishments this week:**

Last week Rama and Curt attended the LLRF team meeting at FNAL. In addition we also participated in the Resonance control workshop. Out of this Tom Powers drafted a microphonics test document for the LCLS-II CM.

FAC Review: I prepared and presented the LLRF talk for the review.

Hardware Prototyping: Stepper board is due in this week. Interlock boards are still in CAD. ARC/IR board goes out this week for manufacture.

CMTF: The CPC amplifier was sent back to the manufacture for repair. Rick Nelson is working on a plan for the coax and waveguide installation.

**Upcoming Activities:**

Present at the Directors Review  
Continue working on the hardware prototypes