Weekly Reporting

WBS 1.01.07 JLAB Management

Week of October 2-8, 2015

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

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

**Accomplishments this week:**

Preparations for FAC, Director’s, and cost reviews

Finished September progress updates

Submitted CM VAR

**Upcoming Activities:**

* 4.5K Cold Box vendor kick off meeting, Oct 8-9th at PHPK in Columbus, OH
* Warm Compressor kick-off meeting, October 14-15th at PHPK in Columbus, OH
* 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 29-30 October

Weekly Reporting

WBS 1.04.6 JLAB Cryomodules

Week of October 2-8, 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.

**Accomplishments this week:**

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

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

HTB is disassembled. Cavity AES033 delivered to the cleanroom. All cavities, cold couplers and tooling needed for string assembly are in the cleanroom.

Installation of the Cantilever fixture rails is continuing. Hardware is in fabrication for mounting the fixed end to the floor.

Spreader bar and CM lifting fixture have been load tested. Received vertical supports for second Phase II assembly station.

Inspection activities are on-going for the 300 mm pipe needed for the GHRP sub-assembly. A basic procedure has been developed. The BOM provided by FNAL is being reviewed.

The first two reworked cu-plated beamline bellows arrived at JLab last Friday. The bellows were 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. Evaluation is nearly complete – both bellows will likely be accepted. The vendor was instructed to continue rework. Seven more bellows are expected at JLab this Friday.

Meeting to discuss BPM and Magnet spool alignment was held on Tuesday. The path forward was defined that included some additional measurements after the string exits the cleanroom.

**QUALITY**

The revised and signed ACS document for the dressed cavity has been sent to Mike Skonicki.

Reviewed the technical specification and supported the Procurement Readiness Review for a new Horizontal Electropolish (HEP) machine that will be used by JLab SRF for processing LCLS-II cavities.

We had various discussions on the plan, structure, and level of reporting of QA/QC documents to SLAC. More work needs to be done to solidify a plan or policy going forward.

We also had discussions on specific NCR information relating to the copper-plated bellows for the prototype cryomodule. A report on the bellows was sent to Marc Ross and Greg Hays, which JLab subsequently forwarded to Mike Skonicki.

JLab has demonstrated to the SLAC project team members that we are following the traveler and NCR work control processes with the example of the copper-plated bellows.

**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 29-30 October

Weekly Reporting

WBS 1.04.08 JLAB Cryoplant System

Week of October 2-8, 2015

**Issues:** None

**Accomplishments this week:**

Presentations for the FAC Review for 13-15 Oct 2015 were completed and posted.

Preparations for the ICER review with dry runs continued through the week.

The 2K cold compressors specification (JLab 79222-S001) was updated with review comments and is in the process of final release.

The warm helium compressors were awarded to PHPK, Columbus, OH. An engineering kickoff meeting is scheduled for Oct 15th.

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 and has seen 2K cold compressor pump downs. 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 and is attending the vendor engineering kick off meeting.

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. Any possible remaining issues are to be discussed during the meeting of Oct 9th.

**QUALITY**

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

**Upcoming Activities:**

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

FAC review Oct 23-25th at SLAC

Weekly Reporting

WBS 1.02.03.05.12 LLRF

Week of October 2-8, 2015

**Issues:** No Report

**Accomplishments this week:**

**Upcoming Activities:**