Weekly Reporting

WBS 1.01.07 JLAB Management

Week of July 10 - 16, 2015

**Issues:** Need to finalize the decision on which cavities to use as the VQ cavities and send these to Jlab.

**Accomplishments this week:**

Submitted BCR presentation files for planned BCR for CP#2.

Completed visit to cavity vendors to Zannon this week with FNAL, SLAC, and Jlab personnel.

**Upcoming Activities:**

11-13 August 2015 – Cryo System 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 10-16, 2015

**Issues:** JLab needs to have four vendor qualifications and two dummy load cavities made available for shipment to cavity vendors. So far only two vendor qualification cavities have been made available. Two other cavities at FNAL need to be identified. Other potential cavities have been discussed but no project guidance has been provided.

**Accomplishments this week:**

JLab SRF and Procurement staff (F. Marhauser, E. Daly, J. Fitzpatrick) participated in kick-off meetings at both cavity vendors along with colleagues from FNAL (A. Grasselino, M. Merio) and SLAC (B. Miller, M. Ross). Main topics were vendor qualification plans and schedule, XFEL vs FNAL cavity design features and discussion of first article and production schedule acceleration.

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

Continuing with preparations for HTB testing of AES032 in mid-August, including collaboration with FNAL & SLAC to obtain cold/warm FPC hardware and SSAs.

Work continues on baseline qualification of two of four cavities for VQ cavities required.

**QUALITY**

On vacation – no report.

**Upcoming Activities:** None

Weekly Reporting

WBS 1.04.08 JLAB Cryoplant System

Week of July 10-16, 2015

**Issues:** None

**Accomplishments this week:**

Additional JLab coordination meetings were held to plan manpower and equipment costing to support planned BCRs for the first and second cryogenic plant. The second plant BCR presentation, schedule, and cost was developed and is ready for presentation to the project baseline change control board.

Weekly meetings with SLAC Infrastructure continued for planning the new larger cryoplant building for the first and second cryogenic plant. JLab hosted a visit by SLAC infrastructure and HDR, Inc. to cover key cryogenic plant building items. These included ventilation, equipment layout, service monitoring room layout, mechanical/electrical, cooling water and project schedule requirements.

**QUALITY**

On vacation – no report.

**Upcoming Activities:** None

Weekly Reporting

WBS 1.02.03.05.12 LLRF

Week of July 10-16, 2015

**Issues:** None

**Accomplishments this week:**

1. Last week Larry, Alex, Sandeep and I participated in the High Performance electronics CDR. Much of our time the week before was spent preparing our presentations for the CDR.
2. CDR Response: I am working on a response to the CDR close out report. Some of the questions have ready answers and were even presented during the CDR.
3. Tuner (JLAB): Stepper board is in lay out with the designer.
4. Common Power Supply (JLAB): The first iteration of the common power supply is complete. Individual power supplies and chassis have been chosen and costed by Dave Seidman.
5. Piezo (FNAL): No update Brian was on travel to India to discuss ADS.
6. Up and Down Converters (FNAL): Ed Cullerton has completed the ESD and working with Dan Klepec they have completed the layouts for the prototypes of both the 6-channel downconverter and the 2-channel upconverter. Testing of the 4-channel upconverter (PIP-II) is in progress. Any modifications to this board will be done to the 2-channel card before it goes out for production.
7. Digitizer (LBNL): The schematic is 75% done. The main steps missing are to export a netlist and BOM. We also need to check compatibility with PADS so SLAC can take over the layout. The transfer to SLAC happened last week.
8. PRC Chassis (LBNL): Requirement document has been started and 35% complete (have all content, but not yet circulated for comments). Will try to send a first pass this week. The PRC chassis design has started - Andre has received information to start, but was off last week.
9. Firmware and Software (LBNL): Synthesized placeholder for the new ADC driver on BMB7 platform with serial links (LVDS). Successfully tested. Task 10% done.
10. Cost and Schedule (LBNL): Alex has been updating the LBNL labor loaded schedule. He has passed it on to Sandeep and I for review.
11. PRL: Moved specification meeting to week of July 22.
12. SSA (JLAB): I discussed SSA plans with Dian Yeremian. I plan to visit the US vendor next week.

**Upcoming Activities:**

* PRL Meeting week of July 22
* ESD drafts end of July
* LBNL: Develop means to modify spending profile to meet project's available funding. Release the digitizer schematic to SLAC. Provide guidance for PRC chassis engineering design
* FNAL: Continue working on prototypes.
* JLAB: Complete Interlock schematic.