**LCLS-II JANUARY PROJECT STATUS REPORT**

**DATE:** February 8, 2016

**LOCATION OF PROJECT:** Jefferson Lab

**SENIOR TEAM LEAD:** Joe Preble

**MONTHLY PROGRESS**

Summary

JLab continues to make good progress in all areas. Cryogenic plant procurements are progressing well with the release of the warm compressor hold from SLAC. Several procurements for cryomodule components and the last of the major infrastructure have been placed or are ready to be placed. The SRF cavity schedule continues to be delayed by the material delivery delays. Copper plated bellows for the FNAL pCM assembly were delivered to FNAL and the JLab bellows are scheduled to be ready the first week of February.

Management

Cost, schedule, and scope are being managed. Inputs have been provided for the following BCRs: Cavity Parts in Circulation Cost, Cavity Tuning Machine (CTM) Cost, Production Tuner Schedule, CM off-site storage, CM End-level tuner, CM Cavity fabrication mods, CP 4.5K Cold Box Heat Exchanger-1 Design mod. Keeping P6 updated as appropriate.

Cryogenic Plant

The seismic study for the warm helium gas management system was conducted.

JLab completed the 2K cold compressor specification and the document is out for approval.

The major warm helium compressor equipment consisting of heat exchangers, compressor bodies, motors, and frames have been placed on order by the assembly vendor. A design review is scheduled for 29 February, 2016

A BCR was prepared, presented and approved for using the two core heat exchanger design in the 4.5K cold boxes. A design review is schedule for 9-10 March, 2016

Cryomodules

Material was released for RI and Zanon and shipment have started. This will start the cavity fabrication. Reviewed manufacturing drawings from RI and Zanon and cavity fabrication can start. The phase 1, vendor qualification for Nitrogen doping cavities, of the SRF cavity phase contract is complete for Zanon and RI.

The pCM assemblies have started with all FNAL copper plated bellows delivered and JLab bellows inspection completing the first week of February. JLab completed the assembly of BPM, quad spool and downstream gate valve subsection of cavity string assembly and verified leak tight.

LLRF:

Prototype hardware is advancing well. Components are being tested; FEM parts have been ordered. The distribution board for the common power supply is being tested; individual power supplies were ordered; and supervisory chip was picked out.

CMTF: SSAs were successfully tested; SSA server is going forward.

ESH - QA

Continue to support QA/QC activities relating to the cavity string bellows and spools.

We are reviewing the recent NCR communication from the project QA manager. Additional progress was made with the ACS forms.