**LCLS-II NOVEMBER PROJECT STATUS REPORT**

**DATE:** December 1, 2015

**LOCATION OF PROJECT:** Jefferson Lab

**SENIOR TEAM LEAD:** Joe Preble

**MONTHLY PROGRESS**

Summary

JLab continues to make good progress in all areas. Preparation and participation in project reviews continues for support of CD2/3 review this year.

Cryogenic plant procurements are progressing well including advancing the schedule where possible. Design and procurement activities continue for the remaining plant procurements.

Cryomodule assembly infrastructure has been completed and testing infrastructure is progressing on schedule to be ready for the pCM testing. Significant advances have been made on procurements with new production orders placed. The SRF cavity schedule is delayed by the material delivery delays. The pCM assembly continues to be delayed by bellows delivery schedule.

Management

Cost, schedule, and scope are being managed. Inputs have been provided for several BCRs keeping P6 updating as appropriate. Analysis and reports for EV IAW project requirements have been completed.

Cryogenic Plant

A new mechanical designer started work the cryo plant group. Added the required cryomodule cooldown functionality to the cryoplant. Warm compressor vendor PDR was held. We are on hold for the largest warm compressor motors, 2500 HP, until a mitigation for SLAC power grid limitations are developed. The 4 ½ K cold box vendor design is advancing and the PDR is planned for January. We continue to look for additional staff. Engineers for warm piping and instrumentation have been interviewed.

Cryomodule

Production orders for Gate valves and rf feedthroughs have been placed. The phase 1 of the SRF cavity phase contract is advancing well, phase 2 and 3 are delayed due to delays in Nb materials. Procurement actions for 2 of 3 cavity tuner sub-assemblies have been started. E. Daly chaired cryomodule technical reviews at FNAL. The pCM schedule continues to be on hold for Cu plated bellows. Parallel paths at SLAC and a commercial vendor are in play to get bellows as quickly as possible.

LLRF:

Prototype hardware is advancing well. (Stepper card, Arc/IR, Electrometer, FPGA boards). CMTF work continues (SSAs, racks, RF and digital boards, and cabling).

ESH - QA

Working with Fermilab on ACSs and other new QA requests coming from Mike Skonicki. Reviewed and signed the Technical Specification for the Procurement of Warm He Gas storage Tanks.