

Ref:

Date: 13 October 2014

MEMORANDUM

From : E. Chudakov
To : P. Rossi
Subject : Request to permit beam operations in Hall D
Copies : J. Gomez, E. Smith

Dear Patrizia,

I am asking for permission to start beam operations in Hall D accordingly to the accelerator schedule for Hall D commissioning run (Oct-Dec 2014).

We have the required set of documents: COO, ESAD, RSAD and ERG, available at https://hdops.jlab.org/wiki/index.php/Main_Page, in order to run the experiment efficiently and safely.

The required personnel has been assigned:

- Run coordinator for the main commissioning run (4 weeks): Alexandre Deur.
- Run coordinator for the additional time till Dec 22: David Lawrence.
- Run coordinator - backup: Mark Ito and Beni Zihlmann.
- Physics Division Liaison: Yi Qiang.

The recommendations and conditions have been specified by the reviews: [Hall D ERR](#), [Photon Beam Commissioning Internal Review \(PBCIR\) Aug 8, 2014](#), and [ARR Phase 3](#).

The conditions have been summarized in e-mail letters from [Mary Logue](#) and [Bob May](#).

The recommendations from the reviews and other documents are available in a Hall D [www page](#)¹.

All the recommendations and conditions have been met, which are the responsibility of the Hall D group.

1. **Shielding wall in the tagger hall.** Responsibility: the accelerator. Installation of the wall is a prerequisite for running, see [ERR report \(page 9, item 2\)](#), [PBCIR report \(item 3\)](#), [ARR report \(page 22, item 3\)](#) and the summary letters.

The initial shielding wall/labyrinth design was [approved by the SCMB panel](#) on 16-June-2014. The final design included minor modifications, approved by [a letter from V.Vylet](#).

The wall installation was carried out by the Hall D technical crew accordingly to the drawings and completed on 13-Oct-2014.

¹http://www.jlab.org/Hall-D/halld_secure/beam_readiness/, see the appropriate directory

2. **Certification of the PSS for Hall D.** Responsibility: the accelerator.
3. **Update the sweep procedures to accommodate the FCAL “Dark Room”.** Responsibility: the accelerator/Hall D. See [ARR report \(page 23, item 3\)](#) and the summary letters.

The Hall D “dark room” procedure [D000000106P006](#) has been modified in order to simplify the sweep procedures. Sweeping of the dark room would be done only if the dark room door is unlocked from outside. The procedure was submitted to Tom Sexton and Paul Vasilauskis on Oct 7 for incorporation into the MCC procedures.

4. **Walk through Halls D to look for LOTO and other OSHA-type violations.** Responsibility: the accelerator/Hall D. See [ARR report \(page 23, item 3\)](#) and the summary letters. The recommendation also included: Secure the ramp over the trip hazard in the Hall D Tagger Vault. Implement Electrical Safety Committee recommendations regarding magnet terminal covers.

The walk-through was organized by Bert Manzlak and took place on Oct 9. The walk-through team was satisfied. They recommended to put labels on the LCW pipes and on a He pipe. These recommendations have been addressed.

5. **Complete and sign off the draft Hall D commissioning plan.** Responsibility: Hall D. See [ERR report \(page 9, item 4\)](#), [ARR report \(page 22, item 1\)](#) and the summary letters.

The draft Hall D commissioning plan has been completed and available at: https://hdops.jlab.org/wiki/index.php/Fall_2014_Commissioning_Plan. The information for shift takers is available at https://hdops.jlab.org/wiki/index.php/Main_Page

6. **Other recommendations from ERR and PBCIR.** Responsibility: Hall D.

- *ERR recommendation 3, also page 8.* Completion of the Slow Control and Alarms software/systems. In particular, check out the motor control, that the collimator is always in the beam.

The recommendation has been addressed. The end-switches of the collimator slide have been modified. The Alarm system is operational.

- *ERR recommendation 4.* Comprehensive commissioning and shift-staffing plan.

The shift schedule for the commissioning run is available: <http://www.jlab.org/Hall-D/shifts/>

- *ERR recommendation 1.* The reviewers were concerned that the transition of the DAQ/online/analysis from the commissioning/engineering running to the physics running will require considerable efforts.

This is a concern for the future running in 2015 and 2016.

- *PBCIR item 2.* Finalize the RSAD.
The RSAD is signed off and available at: https://hdops.jlab.org/wiki/index.php/Main_Page
- *PBCIR item 4.* Install the Hall B profiler in front of the photon dump.
The recommendation has been implemented.
- *PBCIR item 6.* Make the Wiki pages password protected that not everyone could change commissioning plans and procedures.
The pages are CUE password protected. On top of that, a particular snapshot of the page versions is shown. The history of changes and the authors' names are recorded.