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Date: 25 January 2016

# MEMORANDUM

**From** : E. Chudakov  
**To** : P. Rossi  
**Subject** : Request to permit beam operations in Hall D in Spring 2016  
**Copies** : J. Gomez, E. Folts, E. Smith, B. Zihlmann, A. Deur, M. Ito, D. Lawrence

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Dear Patrizia,

I am asking for permission for beam operations in Hall D accordingly to the accelerator schedule for Spring 2016 (Feb 4 - April 13).

We have the required set of documents: COO, ESAD, RSAD and ERG, available at [https://halldweb.jlab.org/hdops/wiki/index.php/Training\\_and\\_Documentation\\_Shift](https://halldweb.jlab.org/hdops/wiki/index.php/Training_and_Documentation_Shift), in order to run the experiment efficiently and safely. There are no changes in the COO, and ERG documents since the previous run. The ESAD document includes new sections on the Total Absorption Counter (TAC) and on the Triple Polarimeter. The TAC is a small calorimeter to be used for the beam flux calibration. The Triple Polarimeter adds a converter and a recoil detector to the existing Pair Spectrometer. The RadCon group is working on the updated RSAD. The planned running conditions are similar to those from the previous run, as far as the generated radiation levels are concerned.

The required personnel has been assigned:

- Run coordinator till March 14: Alexandre Deur.
- Run coordinator from March 15 till March 31: Mark Ito.
- Run coordinator from April 1 till April 13: David Lawrence.
- Physics Division Liaison: Beni Zihlmann.

The purpose of the run is to:

- Commissioning the 5 nA BPMs (Accelerator).
- Commissioning the Fast Feedback System for beam steering (Accelerator and Hall D).
- Commissioning the TAC and calibration of the Pair Spectrometer for the beam flux measurements (Hall D).
- Commissioning the thin diamond radiators, to be delivered from UConn by mid-March (Hall D).
- Commissioning the triple polarimeter, opportunistic (ASU, Hall D).

- Continue commissioning the Hall D equipment.
- Taking data for “early physics” studies.

Equipment configuration: as close to the GlueX-I conditions as practical, for a large part of the run:

- The Superconducting Solenoid: 1200 A during the run; after the run the magnet will be tested at higher currents (TBD, 1350-1400 A)
- DAQ rate: the goal is  $\sim 20$  kHz in Mode-7 readout
- Linearly polarized beam
- LH2 target

The run plan is available at: [https://halldweb.jlab.org/wiki/index.php/Run\\_Coordination\\_Meetings:\\_Spring\\_2016\\_Run](https://halldweb.jlab.org/wiki/index.php/Run_Coordination_Meetings:_Spring_2016_Run).