Date: November 18, 2019

To: Eugene Chudakov, Hall D Leader

From: Patrizia Rossi, Deputy Associate Director for Physics

Subject: Readiness Certificate for Hall D Fall 2019 – Spring 2020 run

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Enclosed please find the Experiment Readiness Certificate for Hall D Fall 2019 – Spring 2020 run scheduled from 11-25-2019 to 05-20-2020. The run will be split into 2 parts: a) GlueX-II E12-12-002 DIRC commissioning (28 calendar days); b) GlueX-II E12-12-002 data taking (the rest: 115 calendar days according to the existing schedule). Hall D is authorized to proceed with the run. As Hall Leader you are responsible for ensuring that all members of the collaboration are aware of the hazards the experiment presents and that they understand and follow the operations procedures outlined in your approved Conduct of Operations (COO), Experiment Safety Assessment Document (ESAD), Radiation Safety Assessment Document (RSAD), Emergency Response Guidelines (ERG) and on the General Access Radiation Work Permit (RWP, SAF801kd). The Physics Division EH&S group and the CEBAF Radiation Control Group are prepared to assist you in any way they can.

As an important part of your responsibility for managing the execution of this run, you must set in place a procedure that will ensure that all users working in Hall D during the run have read and understood the COO, ESAD (and associated OSPs/TOSPs, if any), RSAD, ERG and RWP, and that they have received the standard Hall D safety awareness training (SAF113), which includes a hazard awareness walkthrough of the hall.

Run conditions for both parts of the run period are planned to be close to the nominal Hall D parameters: Al and diamond radiators, typical current of 400nA on a 0.05mm thick diamond, the standard LH2 target, the standard detectors + DIRC. A more detailed description of the run conditions is reported in the RSAD document. During the run, parasitic detector tests (covered by OSPs and HDList) will be performed: a) TRD/GEM in front of DIRC, b) PbWO crystals in the Pair Spectrometer (PS), c) glass-ceramic calorimeter module in the PS, d) aerogel detector in the PS.

The Fall 2019 – Spring 2020 run is not expected to produce significant levels of radiation at the site boundary. However, it will be continuously monitored by the Radiation Control Department (RCD) to ensure that the site boundary goal is not exceeded. Activation of targets, collimators and beam line hardware must also be considered. The manipulation and/or handling of targets and beam line hardware (potential radioactive material), the transfer of radioactive material, or modifications to the beam line after the target assembly must be reviewed and approved by the RCD.
If there are any changes to your planned run that may have impact on radiation safety, it is your responsibility to discuss them with the RadCon Group before the modified plan is executed.

Four final items. First, the designated run coordinator is to be accessible to the accelerator division operations staff at all times via the Hall D cellular phone 383-5542. Second, the run coordinator or his or her designated representative is charged with representing the experiment both at the daily meetings with the accelerator program deputy that take place at 7:45 each morning in the MCC conference room and at the daily operations summary meetings that take place at 8:00 each morning in the MCC conference room. Third, the run coordinator should represent the experiment at the weekly accelerator scheduling meetings (Wednesdays at 1:30 in the MCC). Fourth, the shift coordinator is charged with reconciling the experiment's records on accelerator performance with those of your crew chief at the end of each shift and with keeping the records for the experimental equipment performance and for the simultaneous availability of the beam and the experimental equipment (i.e. "useful" data-taking).

The measures outlined above are intended to promote smooth coordination between Accelerator operations and the experimenters, and to provide the laboratory with meaningful metrics on the operational reliability of the accelerator and experimental equipment.

cc: C. Ginsburg
B. Zihlmann (for placement in Hall D counting house)
P. Vasilauskis (for placement in the MCC)
W. Oren (for distribution as appropriate)
K. Welch
A. Manzlak
Hall D Fall 2019 – Spring 2020 physics run: GlueX-II E12-12-002 and DIRC commissioning, ER^{2}C Files

Experiment Readiness Certificate for Hall D GlueX-II E12-12-002 and DIRC Commissioning Fall 2019 – Spring 2020 run

Document	Review(s)*	Certification	Signature	Date
Proposal w/ EH&S Hazard Identification Checklist	TAC & PAC	JLAB Director	See PAC report	
Preliminary Experiment Safety Assessment Document (PESAD) (optional)	ER^{2}C	--	N/A	
Radiation Safety Assessment Document (RSAD) (includes planned Experiment Operations Envelope)	RadCon	RadCon	Patrizia Rossi	11/18/2019
	JLRRP or ad hoc panel review IF recommended by RadCon Officer	Review Chair	N/A	
Experiment Assessment Completion Readiness Review	ER^{2}C	Deputy Associate Director for Physics	Patrizia Rossi	11/18/2019
Conduct of Operations (COO)	ER^{2}C	Associate Director for Physics		11/18/19
Experiment Installation Checklist	Hall Work Coordinator	Hall Leader	E. Chudakov	11/18/2019
Issue/Concern Checklist	ER^{2}C	Physics Div. Safety Officer		11/18/19
Hall Leader Signoff on Experiment Readiness	E. Chudakov	n/a	See attached memo	

Experiment Readiness is Certified

R. End — 11/18/19

R. End
Associate Director for Physics

Date

*Note: JLRRP = Jefferson Lab Radiation Review Panel
ER^{2}C = Experimental Readiness Review Committee
RadCon = Radiation Control Group
PAC = Program Advisory Committee
TAC = Technical Advisory Committee