Experiment Readiness Certificate for Hall D Experiments E12-25-005 and E12-12-002(A) (GlueX-II/JEF) Spring/Summer 2026 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	Patricia Ross	4/13/2026
	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	Patricia Ross	4/13/2026
Conduct of Operations (COO)	ER^{2}C	Associate Director for Physics		17 April 2026
Experiment Installation Checklist	Hall Work Coordinator	Hall Leader	E Clune	04/20/26
Issue/Concern Checklist	ER^{2}C	Physics Div. Safety Officer	Ed Folk	4/20/26
Hall Leader Signoff on Experiment Readiness	E. Chudakov	n/a	See attached memo	

Experiment Readiness is Certified

17 April 2026

D. Higinbotham **Date**
Acting Associate Director for Physics

*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

Date: April 13, 2026

To: Eugene Chudakov, Hall D Leader

From: Patrizia Rossi, Deputy Associate Director for Physics

Subject: Readiness Certificate to run Hall D Experiments E12-25-005 and E12-12-002(A) (GlueX-II/JEF) for the period April - August 2026.

Enclosed please find the Experiment Readiness Certificate for the experiments E12-25-005 and E12-12-002(A) (GlueX-II/JEF) for the Spring/Summar 2026 run period scheduled for April 2026 through August, 2026. 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.

The 2026 Hall D run will utilize up to 12 GeV electron beam and be split into two parts: Low Energy running and GLUEXII/JEF. For the Low Energy run (4 GeV), two targets will be used: a 30 cm liquid hydrogen (LH2) target and a 30 cm liquid deuterium (LD2) target. For the GLUEX-II/JEF experiment, only the 30 cm LH2 target will be used. One diamond radiator will be utilized, as well as amorphous aluminum radiators. To provide a photon flux similar to that produced by the diamond radiators, the beam current for runs with amorphous radiators will be adjusted depending on the radiator's radiation length X_0.
The Low Energy experiment will operate with beam currents of up to 50 nA for the entire run period. During the initial phase, different primary collimator openings will be tested at full luminosity, with apertures of up to 9 mm, compared to the standard 5 mm opening used during typical 12 GeV operations. At present, the experiment plans to operate with a 9 mm primary collimator opening.
The GLUEX-II/JEF run period is scheduled when there will be the energy change, and will consist of standard running conditions, followed by 6 days of high-intensity test running.
The run plans for the two experiments are summarized in the RSAD document.

The Spring/Summer 2026 Hall D 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 757 383-5542. 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 and at the daily operations summary meetings that take place at 8:00 each morning. Third, the run coordinator should

represent the experiment at the weekly accelerator scheduling meetings (Wednesdays at 1:30). 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: R. Ruber
B. Zihlmann (for placement in Hall D counting house)
K. Surles-Law (for placement in the MCC)
K. Baggett (for distribution as appropriate)
A. Stavola

Hall D Spring/Summer 2026 physics run: Experiments E12-25-005 and E12-12-002(A) (GlueX-II/JEF) ER^{2}C Files