

Collider-Accelerator Department
Linac Intensity Upgrade Phase II (LIUP2)
Director's Review

14 – 16 September 2022
Zoom Remote

Charge

The DOE Office of Isotope Production has requested a Director's Review of a proposal to increase the BNL 200 MeV H⁻ Linac intensity. The focus of the review will be on understanding:

- a) The merit of the project;
- b) The technical status of the project, including the feasibility and merit of the technical approach; completeness of scope and fabrication readiness; and the feasibility and effectiveness of the technical performance for delivering the performance;
- c) The feasibility and completeness of the budget and schedule, including workforce availability;
- d) The effectiveness of the management structure and the approach to ES&H; and
- e) Other issues relating to the LIUP2 project.

Collider-Accelerator Department (C-AD) has completed the three-year precision beam energy scan program (BES II) at RHIC with the fully operational use of Low Energy RHIC electron Cooling (LEReC). RHIC will now have the final Run with polarized protons at the highest energy, and then transition to a 3-year operation period with STAR and the new sPHENIX detector. After completion of the RHIC program there will be transitions to Electron Ion Collider (EIC) construction, commissioning, and operation.

I greatly appreciate your efforts in preparing for this review. It is an important process that allows BNL Management and the DOE Isotope Office the project and its readiness to proceed.

It is requested that a concise report responsive to this charge be forwarded to the C-AD Chair, Wolfram Fischer, by 2 October 2022.