

# PIP-II

## Project Director Report



February 2022

### PROJECT HIGHLIGHTS

- CD-3 IPR: “Proceed to CD-3”
- DOE approves Linac Complex RFP
- INC meeting held February 7–8
- Second 40kW SSA assembled

### UPCOMING EVENTS

1–3 March	CD-3 IPR
14 March	DOE–DAE meeting
15 March	P2PEB #11
April TBD	P2LDC meeting

## CD-3 IPR: “Proceed to CD-3”

The PIP-II CD-3 review, to demonstrate readiness for seeking approval to proceed to full construction, took place March 1–3. Final CD-3 review preparations in February included completing final updates to documentation, rehearsing presentations of the Fermilab teams

and international partners, and posting materials two weeks ahead of the review as prescribed by DOE, conducting several design reviews, and interacting with the committee. The review was successful, with all seven sub-committees recommending the project to proceed to CD-3.

## DOE approves Linac Complex Request-for-Proposal

One important step in issuing a construction package for competitive procurement is to complete DOE’s contractual review. This is a multi-level process with reviews by the Fermi Site Office, the Institutional Review Board (IRB) and the Head of Contracting Authority (HCA). For the PIP-II Linac Complex, the HCA approval

was received on February 18, 2022. This marks a significant milestone for the PIP-II Linac Complex, which will construct the enclosures, buildings and infrastructure to support the PIP-II superconducting linac. The current schedule anticipates start of construction in October 2022.

## International Neutrino Council meeting held February 7–8

On February 7–8, PIP-II Director Lia Merminga participated in the annual International Neutrino Council (INC) meeting. The INC is the highest-level governing body for DOE concerning the Long Baseline Neutrino Facility (LBNF) and PIP-II. The INC is composed of representatives of major current and future contributing funding

agencies to the LBNF and PIP-II projects. All in-kind contributors’ representatives expressed positive feedback about the PIP-II international collaboration.

## Second 40kW SSA assembled

The second 40kW prototype Solid State Amplifier (SSA) from DAE has been assembled and has passed its operational readiness clearance (ORC) review. The next step will be to verify that the amplifier interlocks are properly functioning before applying RF power. After the interlocks have been verified, the output power will be ramped up in small steps into a matched load until 40kW power is achieved. After successfully reaching 40kW, the full specification verifications tests will begin.

*Front panel of 40 kW SSA from DAE showing active interlocks display. Photo: James Steimel*



*The PIP-II Cryoplant Building in January 2022. Photo: Ryan Postel*

