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United States Government **Department of Energy**

Memorandum

DATE: August 25, 2016

REPLY TO
ATTN OF: James Siegrist, Office of High Energy Physics, SC-25 jls

SUBJECT: CHARGE FOR AN INDEPENDENT PROJECT REVIEW OF THE PIP-II PROJECT

TO: Stephen W. Meador, Director, Office of Project Assessment, SC-28

I request that your office organize and conduct an Office of Science independent project review of the PIP-II project at Fermi National Accelerator Laboratory on November 15 and 16, 2016. The purpose of the review is to determine the progress of the project since achieving CD-0 in November 2015, in preparation for CD-1 in late 2017.

Progress made since achieving CD-0 includes front end beam commissioning, the initial preparation of a Resource Loaded Schedule, the submission and independent review of an "Analysis of Alternatives" document, and the development of draft documents pertinent to CD-1 status, such as the Conceptual Design Report and an initial draft of a Preliminary Project Execution Plan.

In carrying out this charge, the review committee should respond to the following questions:

1. Technical Design: Is the conceptual design for the PIP-II linac sound and likely to meet the specified technical performance requirements? Are R&D efforts being effectively managed to maximize benefits and minimize technical risks to the project?

2. Scope: Is the project's scope sufficiently well-defined to support the preliminary cost and schedule estimates?

3. Cost and Schedule: Are the cost and schedule estimates sufficiently well-defined and of adequate maturity to support the forecasted critical decision milestones and cost range?

4. Management: Is the project being properly managed at this stage? Does the management team possess the skills, expertise and experience necessary to successfully execute the project? Are plans to identify and allocate staffing and resources consistent with current funding guidance?

5. Environment, Safety, and Health: Is environment, safety, and health being properly addressed given the project's current stage of development?

6. India Institutions and Fermilab Collaboration (IIFC): Is the collaboration proceeding

satisfactorily towards meeting the goals outlined in the Joint R&D document? Will the deliverables outlined in the Joint R&D document position India for a successful contribution to the PIP-II construction phase?

Stephen Peggs, the PIP-II Program Manager, will serve as the Office of High Energy Physics point of contact for this review. I would appreciate receiving your committee's report **within 60 days** of the review's conclusion.

cc: Patricia Dehmer, DOE-SC
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