



Department of Energy
Office of Science
Washington, DC 20585

MEMORANDUM FOR KURT FISHER
DIRECTOR
OFFICE OF PROJECT ASSESSMENT

FROM: JAMES SIEGRIST
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FOR HIGH ENERGY PHYSICS
OFFICE OF SCIENCE

SUBJECT: Request that Office of Project Assessment (OPA) conduct a Critical Decision -2 (CD-2) Independent Project Review (IPR) of the Proton Improvement Plan II (PIP II) Project

I request that your office conduct an IPR to determine the readiness of the PIP II for CD-2 Approve Performance Baseline. The review will be held on October 6–8, 2020 via ZOOM or other suitable video conferencing service. CD-1 Approve Alternative Selection and Cost Range was approved by Paul Dabbar on July 23, 2018.

OPA conducted an IPR for CD-2 in January 2020 that identified a small number of issues that needed to be resolved before the CD-2 Energy Systems Acquisition Advisory Board (ESAAB). These were the changed indirect rates for the project, the amount of funding that the French labs would receive to participate in PIP II, and the completion of the project planning documents. In addition, while these were being resolved the COVID-19 pandemic occurred. The project has updated its cost and schedule based on the results of resolving the issues.

The project has added some scope that the French partners were unable to support with their actual funding. This scope is dominated by procurements with some testing work moving to Fermilab. The technical design is unchanged.

Your review committee is requested to perform an assessment of the project's changes since the last IPR, as well as addressing the following specific questions for CD-2:

1. Are the increased scope and costs properly documented? Is the spending plan consistent with Office of High Energy Physics (HEP) provided funding guidance?
2. Has the project correctly updated the schedule to account for COVID-19 delays both domestic and international?
3. Has the documentation required by Department of Energy Order 413.3B for CD-2 been properly updated to reflect the new scope, cost, and schedule?

4. Have the Environment, Safety and Health and Quality Assurance plans been appropriately updated for the new scope added to the project?

5. Has the project responded satisfactorily to the recommendations to be completed before CD-2 ESAAB?

As Program Manager for the PIP II, Michael Harrison will serve as the contact person for the HEP for this review.

We appreciate your assistance in this matter. As you know, these reviews play an important role in our program. I look forward to receiving your committee's report.

cc: J. Stephen Binkley, SC-2
Harriet, Kung, SC-3
Michael Procario, SC-35.2
Michael Harrison, SC-35
Adam Bihary, FSO
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