



Department of Energy  
Office of Science  
Washington, DC 20585

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MEMORANDUM FOR STEVE MEADOR, DIRECTOR  
OFFICE OF PROJECT ASSESSMENT

FROM: MICHAEL PROCARIO   
DIRECTOR, FACILITIES DIVISION  
OFFICE OF HIGH ENERGY PHYSICS

SUBJECT: REQUEST TO CONDUCT CD-2/3 REVIEW OF THE LHC-CMS  
DETECTOR UPGRADE PROJECT

I am writing to request you conduct an Independent Project review for the "LHC-CMS Detector Upgrade" MIE on August 5-7, 2014 at Fermilab. The purpose of this review is to evaluate the proposed technical, cost, schedule and management baselines, which are needed for Critical Decision 2 (Approval of the Performance Baseline) and the project's readiness for Critical Decision 3 which will approve the start of full construction.

In carrying out its charge, the review committee is requested to consider the following questions:

1. Do the proposed technical design and associated implementation approach satisfy the performance requirements? Are the CD-4 goals well defined?
2. Performance Baseline: is the cost estimate and schedule consistent with the plan to deliver the technical scope with the stated performance? Is the contingency adequate for the risk?
3. Final Design: Is the design sufficiently mature so that the project can continue with procurement and fabrication? Baseline Cost and Schedule: Are the current project cost and schedule projections consistent with the approved baseline cost and schedule? Is the contingency adequate for the risks?
4. Are the management structure and resources adequate to deliver the proposed final design within the baselines as identified in the PEP?
5. Is the documentation required by DOE Order 413.3B for CD-2 and CD-3 complete?
6. Are ES&H aspects being properly addressed given the project's current stage of development?

Dr. Simona Rolli is the program manager for the LHC-CMS Detector Upgrade Project in this office and will serve as the OHEP contact person for the 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, within 60 days of the review's conclusion.

Sincerely,



Michael Procario  
Director, Facilities Division  
for High Energy Physics



cc: Patricia Dehmer, SC-2  
James Siegrist, SC-25  
Simona Rolli, SC-25  
Alan Harris, FNAL Site Office  
Nigel Lockyer, Fermilab Director