



Department of Energy  
Washington, DC 20585

October 6, 2015

MEMORANDUM FOR MICHAEL KNOTEK  
DEPUTY UNDER SECRETARY FOR  
SCIENCE AND ENERGY

FROM: PAUL BOSCO   
DIRECTOR  
OFFICE OF PROJECT MANAGEMENT  
OVERSIGHT AND ASSESSMENTS

SUBJECT: Independent Cost Review for the Long Baseline Neutrino  
Facility/Deep Underground Neutrino Experiment (LBNF/DUNE)

As required by DOE Order 413.3B, *Program and Project Management for the Acquisition of Capital Assets*, the Office of Project Management Oversight and Assessments (PMOA) conducted an Independent Cost Review (ICR) for the LBNF/DUNE project in support of Critical Decision (CD)-1, Approve Alternative Selection and Cost Range.

The ICR team concluded that the project team developed a comprehensive, reasonable, and credible estimate range using appropriate estimating methodologies that are properly documented and fully supported. However, due to the project's complexity, current design maturity, extended duration, and dependency on international partners to deliver contributions on schedule, the ICR team recommends a cost estimate range of \$1.255 billion to \$1.862 billion based on industry best practices. This range will increase confidence that the Department has made appropriate allowances for risks and uncertainties while the project team matures the design in preparation for requesting approval of CD-2, Approve Performance Baseline, in FY 2020.

Please contact me or Pete Bako of my staff at (202) 287-1940, should you need additional information.

Attachment  
LBNF/DUNE Independent Cost Review Report

cc:  
Patricia Dehmer, SC-1  
Harriet Kung, SC-22  
Steve Meador, SC-28  
Pepin Carolan, FNAL

