



Department of Energy

Washington, DC 20585

JUL 08 2015

Dr. Robert McKeown
Deputy Director for Science and Technology
Thomas Jefferson National Accelerator Facility
12000 Jefferson Avenue
Newport News, Virginia 23606

Dear Dr. McKeown:

Enclosed are two documents: the Department of Energy (DOE) Office of Nuclear Physics (NP) Report on the Science Review of the proposed Measurement of Lepton-Lepton Electroweak Interaction (MOLLER) Experiment to be implemented at the Thomas Jefferson National Accelerator Facility (TJNAF) and a document containing excerpts from the individual reviewer's reports. I would like to thank the MOLLER Collaboration for their efforts in preparing for this review.

Based on the review, NP concludes that the proposed MOLLER experiment has very strong scientific merit. Under the assumption, yet to be demonstrated by a review of technical feasibility, that the proposed research can be performed at the projected level of uncertainty, the measurement of a purely leptonic parity violating (PV) asymmetry is well motivated and would be of high scientific impact. The experimental collaboration is strong, with world-class experience in previous PV electron scattering experiments. With the impact of the experiment relying on achieving the projected level of uncertainty, the Collaboration will need to continue its thorough examination of known and potential systematic effects as documented in the report and recommendations.

We look forward to your progress in developing this initiative. Please respond to the DOE recommendations from this review by the deadlines indicated within the report.

Sincerely,

Timothy J. Hallman
Associate Director of the Office of Science
for Nuclear Physics

Enclosures

