

MOLLER Review

24-26 April 2019**CEBAF Center**

US/Eastern timezone



Restricted

US/Eastern

K. Kumar

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2019 Director's Review of MOLLER

The MOLLER experiment was approved by the Jefferson Lab PAC in 2009. There was a successful Science Review convened by DOE-NP in 2014. A Director's Review was held in 2016 to assess the conceptual design and provide advice on pre-project planning and development. MOLLER received DOE CD-0 "Approve Mission Need" in December 2016. Since that time, the MOLLER team has concentrated on pre-project R&D and planning. In anticipation of the next step in developing this effort into a construction project, we are convening another Director's Review of MOLLER focused on technical readiness, risk assessment, and the cost of the anticipated project.

Charge

We would like the review team to evaluate the technical design of MOLLER and assess the technical readiness to proceed with construction, as well as the status of the cost estimate, within the context of a project risk assessment.

In particular, we request that the review team address the following charge questions:

1. Are the scientific and technical requirements clearly identified? Is the MOLLER conceptual design sound, achievable and sufficiently defined to meet those requirements?
2. Have all technical risks been identified, and are there appropriate plans in place to mitigate these risks?
3. Are the costs well-understood and properly estimated? Is the basis of the contingency estimate well-founded, and is there appropriate cost and schedule contingency included to address the identified risks?
4. Has all off-project scope that is required for the successful operation of the MOLLER experiment been identified? Are credible plans in place to secure completion of that scope?
5. Is the plan for Project management well-founded and appropriate for this scale of project?
6. Are ES&H aspects being properly addressed for the Project's current stage of development?
7. Has the project team responded appropriately to recommendations from prior Director's Reviews?