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# Memo

*Date:* September 27, 2017

*To:*

*From:* Robert Tribble, Deputy Director for Science and Technology

*Subject:* High-Energy Engineering X-ray (HEX) Beamline Project

The High-Energy Engineering X-Ray (HEX) Beamline project was proposed in 2013 and will include a high energy x-ray (>50keV) required for penetrating batteries or other engineering samples and a satellite building that will be designed for handling large samples and difficult sample environments. The scope of the project will likely be adjusted based on the budget availability. The Project Team expects to get \$25M of New York State funding with \$3M received in September 2017 for the start of design and construction. To ensure that the project has been well planned for a conceptual design review at the end of October and the Preliminary Design Review planned for April 2018. Jim Misewich has requested that a Project Oversight Board (POB) Sub-Panel conduct a status review of the project.

I am asking for your assistance as a participant in this sub-panel review scheduled for October 19 and 20 with the charge as follows:

- Does the Work Breakdown Structure (WBS) adequately cover the scope of the project? Are all elements of the WBS clearly defined?
- Are the scope and technical requirements of each WBS are appropriately addressed?
- Are the project assumptions clearly stated? Are all necessary assumptions fully captured?
- Are the cost and schedule estimates credible and realistic for this stage of the project? Do these estimates include adequate contingency?
- Is the basis of estimate clearly documented and complete?
- Has there been a satisfactory evaluation of the project risks? Are the risks and mitigation plans adequately documented?
- Are there any cases of missing/insufficient documentation or irregularities in the cost estimates and/or schedule that should be addressed?
- Are the ES&H aspects being properly addressed?

Proposed membership on this sub-panel is:

- Jim Stewart (Chair), DUNE Project Manager
- Steve Peggs, C-BETA Project Director
- Lonny Berman, Project Manager
- Jeff Keister, Deputy Project Manager
- Pete Selgrad, Project Controls Administrator, PMC
- Kathleen Didie, Business Operations
- Ed Lessard, ES&H, C-AD

A final report should be prepared and submitted to me by Friday, October 31, 2017.

cc: J. Hill  
E. Johnson  
J. Misewich

DRAFT