**Charge to the Review Committee for the SoLID Pre-R&D Review:**

***Review of the SoLID pre-R&D plan and activities***

The Solenoidal Large Intensity Device ( SoLID) is a multipurpose large acceptance spectrometer system which is designed to handle very high luminosity. SoLID has been under development by the SoLID collaboration and Jefferson Lab for the last decade. Five experiments and five run-group proposals using SoLID have been recommended for Stage-I approval by the Jefferson Lab Program Advisory Committee. With JLab management support, the collaboration has devoted a large effort to develop a conceptual design report (pCDR). Following two Director’s Reviews (2015 and 2019), the pCDR was finalized with an estimated cost and schedule. The SoLID proposal was submitted to DOE-NP by Jefferson Lab management in February 2020.

To address the technical risks of SoLID associated with the high rate and high background environment, a pre-R&D plan was submitted to DOE-NP/MEP in 2019. The pre-R&D plan was modified to focus on the DAQ system and Cherenkov detectors, and was approved in February 2020 with funding from DOE-NP/MEP. To ensure the success of the pre-R&D plan and maximize the benefit in addressing the technical risks, we are convening this Review of Pre-R&D Plan and Activities to seek feedback on the overall plan and have an assessment on the progress.

***Charge***

We would like the review team to evaluate the pre-R&D plan, assess the progress of the pre-R&D activities and provide guidance for the best path forward. In particular, we request that the review team:

1) Review the proposed pre-R&D plan to see if it adequately addresses the technical risks for the DAQ system and the Cherenkov detectors. Provide feedback on possible improvements.

2) Review and assess the progress of the pre-R&D activities so far.

3) Considering the impact of COVID-19 pandemics, review modifications to the pre-R&D plan and provide guidance on the best path forward.