

HD-Ice Experiment Readiness Review  
Jefferson Lab November 19, 2019

**Charge**

1. What is the status of the UITF towards operation?
2. What are the goals of the HD-Ice tests?
3. What is the status, and if not completed, the plans and schedule for:
  - a) IBC status: Dec/18 quench & repair
  - b) IBC pressure vessel certification
  - c) Beam Dump solenoid and vacuum vessel certification
4. What is the status of the following equipment, including ownership and control during beam operations? If still not completed please present plans and schedule:
  - a) Cave-2 beam line optics design
  - b) Beam transport through the HD-Ice IBC
  - c) Low currents monitor with a Rogowski coil
  - d) Beam Halo counters
  - e) Device to prevent delivery of high currents to the HD-Ice target
5. What is the sequence of the HD-Ice tests?
  - a) Beam tuning sequence
  - b) Cave-2 roof tile removal for target loading. Have all the EHS&Q requirements been considered?
6. Are the responsibilities for carrying out each job identified, and are the manpower and other resources necessary to complete them on time in place?
7. What is the experiment plan, the target status and the requested UITF schedule? Specifically discuss possible conflict with LCW and cryogenics.
8. What is the status of the HD-Ice COO and OSPs documents. Are the specific documentation and procedures to operate safely and efficiently the equipment, in place and adequate?
9. Are the radiation levels expected to be generated in the cave acceptable? Is any local shielding required to minimize the effects of radiation in the equipment?