AAC Charge Questions – final, Dec. 3, 2020
Fermilab AAC meeting Wed Dec 9, 2020 (9:30 – 13:30 Central)
https://indico.fnal.gov/event/46154/

1. **Recommendations from AAC 2019**

   Have all the recommendations by AAC 2019 been adequately addressed?

2. **High Field Magnet Program**

   a. Assess the results of the 15T magnet demonstrator tests.
   b. The Fermilab High Field Magnet R&D program is an integral part of the US Magnet Development Program (MDP). In 2020, the MDP underwent re-planning of short- and long-term R&D activities. Are the short- and long-term activities at Fermilab well defined and resources secured?

3. **FAST & IOTA Progress & Research Program**

   a. Run-II of the FAST and IOTA research program was conducted in Dec 2019 – Mar 2020.
      i. Assess the operations efficiency, and the science output of FAST/IOTA Run II.
   b. Is the near-term and long-term science program well defined?
   c. Assess the progress and plans for the IOTA proton injector?

4. **SRF R&D Progress and Research Program**

   Assess the Fermilab SRF R&D program progress since last AAC. Is this research program adequately setup to align with and to enable future Fermilab, national and international projects?

5. **Beam Energy Deposition and Fermilab MARS code**

   Assess the Fermilab's effort in beam energy deposition and particle/radiation production modeling. What are the long-term plans for this effort? Is the MARS code effort adequate to sustain future Fermilab program demands?

6. **Accelerator Operations**

   Assess the efficiency (high-level view) and performance of Fermilab Accelerator operations. Assess FY21 the proposed red and blue curves. Are the goals and plans for the near future (including g-2 and Mu2e) well understood?

END of Charge Questions