

2015 SNS AAC CHARGE

1. Assess the performance of the accelerator complex and neutron source since the last meeting.
2. Assess and provide advice on the plans for sustainable beam operation with availability at the $\geq 90\%$ level at $\sim 1.4\text{MW}$ beam power for 5000 operating hours per year in a constrained funding environment. Consider the lessons learned from the high power run in the first half of 2014 and current maintenance strategy.
3. Assess the adequacy of our approach to sustaining and developing critical systems, including High Voltage Converter Modulators, Superconducting Cavities (plasma processing), Injection Stripping (Foils, lasers), Personnel Protection System and Controls (including high level applications) and the Integrated Front End Test Stand facility.
4. Is the SNS response to the observed RFQ issues adequate?
5. Does the AIP investment strategy align with the 1.4MW reliable, sustainable operation and STS path?
6. Provide advice on the accelerator systems components of the draft technical design report for the Second Target Station and provide guidance on the reasonability of the updated plan for the power upgrade in the SCL, with fewer new Cryo-modules than originally planned.

Note: Target Systems will not be addressed in detail for this meeting of the AAC because of a detailed DOE mandated review scheduled for February 24-25, 2015. A summary of that review will be presented.