

MTA Secondary Beamline Review
Review Charge Statement

Dated: August 12, 2021

1. Is the production model used in the design valid? What additional steps (if any) must be taken in order to increase its confidence level? Has enough simulation work been done to finalize the beamline design, or is more required?
2. Is the target/ absorber system design technically sound, reliable and likely to meet the identified performance requirements for carrying out the scientific mission of the beamline? Explain if there any features present that threaten the intended function and performance of this design.
3. Comment on the soundness and level of adequacy of the radiation studies and shielding assessment compliance plan.
4. Beyond the installation of the target station, are modifications of or additions to the primary beamline needed including diagnostics? If so, identify them.
5. Is the secondary beamline design technically sound, reliable and likely to meet the identified performance requirements for carrying out the scientific mission of the beamline? Explain if there any features present that threaten the intended function and performance.
6. Does the secondary line contain enough diagnostics to properly monitor the beam and evaluate its quality? Is there a commissioning plan for the beamline?
7. How will this project impact ITA operation, both during installation and commissioning? How quickly can the beamline mode be changed between ITA and LDRD operation?
8. Have the lab labor resources required to design, build and install the beamline been identified and committed to? Has a schedule been developed based on input from systems departments?