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ISIS TS1 Project - Reflector Engineering Development

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The goal of the ISIS Target Station project, is to replace the Target, Reflector and Moderators (TRAM) in the first Neutron Spallation Target station (TS1). After 34 years of successful operation this is an opportunity to incorporate technologies and lessons learnt from the 2008 Target Station 2 (TS2) build. This will bring about some performance enhancements and significant improvements to maintenance operations.

The project is currently in full swing making progress towards its completion in 2020 with the target assembly already completed and the reflector assembly at an intermediate stage of manufacture. This paper focuses on the engineering design of the solid beryllium reflector and the challenge of providing adequate cooling, maintaining tight geometry around the moderators and target in conjunction with providing access for target and moderator changes. The end result is a modular design that can accommodate future moderator upgrades and satisfy the cooling requirements within the confines of manufacturing limits.

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