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## **ISIS TS1 Project –Removal of the Target, Reflector and Moderator (TRaM) Support Structure using a Bandsaw within a Remote Handling Cell**

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Target station 1 (TS1) is currently in the implementation stage of a large sustainability project to continue future operation, in addition to making improvements to the neutron performance, ease of operation, and various other factors [1]. One aspect of this project is the extraction of the current irradiated equipment situated within the target area to enable the replacement of the target, reflector and moderator assembly (TRaM). This new assembly will be modular to allow any future upgrades to be installed swiftly [2].

Removal of the current TRaM systems support structure is discussed within this paper. This extraction comes with challenges; due to its abnormal size, the welded structure cannot simply be placed in a shielded flask and removed, it instead must be cut up into 2 sections inside the remote handling cell (RHC) [3]. Testing has been completed using a gravity fed hydraulic bandsaw, and various components have been manufactured to allow ease of adjustment using the remote handling system. However, there is still work to be done before the shutdown in 2020.

**Primary author:** TURNLEY, Ross (STFC)

**Co-authors:** Mr MCDONNELL, Callum; COATES, Dan

**Presenter:** TURNLEY, Ross (STFC)

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