

Status and Future Developments of the ISIS Pulsed Neutron and Muon Source

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The ISIS Pulsed Neutron and Muon Source has been operating for nearly 39 years. Through continuous development and significant upgrades, including the addition of a second target station, ISIS continues to provide world-leading capability to a thriving international user base and deliver world-leading productivity.

Throughout 2021 and 2023 the synchrotron and high power target station (Target Station 1) underwent a significant refurbishment to improve performance and serviceability. This extensive project is now complete and both target stations are operational.

The next wave of development of the instrument suite, the Endeavour Programme, which involves five significant instrument upgrades and the construction of four new instruments, is now underway. A feasibility study for a MW class source to replace ISIS, ISIS-II, is in progress, which includes a detailed analysis of technical options and the scientific specification.

I will report on the status and performance of the ISIS Source. I will also provide an overview of plans for the future development of ISIS, including the Endeavor Programme and ISIS-II.

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