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## Ensuring Beamline Safety at ISIS: A PPS Approach Compliant with IEC 62061

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Beamline operations at the ISIS Neutron and Muon Source demand rigorous safety measures to protect personnel primarily from radiological hazards and, other identified hazards. The Personnel Protection Systems are developed in alignment with SC40 (Interlocks for Personnel and Environmental Protection) and IEC 62061:2021 (Safety of machinery - Functional safety of safety-related control systems) add full title of the standard. By following the ISIS Interlock Management Plan through the full lifecycle of the safety interlock system development, compliance is ensured. The system architecture supports consistent safety performance across diverse experimental setups by using certified safety PLCs, redundant interlocks, and controlled access protocols.

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