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Reliability of the Coupled Cyclotron Facility at NSCL

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The National Superconducting Cyclotron Laboratory (NSCL) at Michigan State University is a United States national user facility for rare isotope research and education in nuclear science, astro-nuclear physics, and accelerator science. The Coupled Cyclotron Facility at NSCL, consisting of two coupled cyclotrons, accelerates stable ion beams to energies of up to 170 MeV/u. Rare isotope beams are produced by projectile fragmentation and separated in-flight in the A1900 fragment separator. NSCL uses a standards-based integrated management system including continuous improvement to achieve high accelerator reliability and user satisfaction. As the over 30 years old cyclotrons are slated to be replaced by a new superconducting linear accelerator at the end of next year, operations and maintenance strategies need to optimize scientific output.

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