

Accelerator Reliability Workshop



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CORRECTIVE & PREVENTIVE MAINTENANCE AT THE NSCL

The National Superconducting Cyclotron Laboratory (NSCL) is a world leader in rare isotope research and nuclear science education. Located on the campus of Michigan State University, NSCL scientists and researchers employ a wide range of tools for conducting advanced research in fundamental nuclear science, nuclear astrophysics, and accelerator physics. Robust preventive and corrective maintenance practices are crucial to meeting NSCL Quality Management System goal of greater than 90% availability. To achieve this goal, a coordinated interaction of the laboratory's maintenance tools with its procedures and organizational structure is required. The tools and procedures employed at the NSCL have been refined through many years of experience. Web based software applications have been developed in-house to allow breakdown tracking as well as facility status logging and reporting. Off the shelf software tools allow the efficient planning of preventive maintenance activities and upgrade implementation. Committees to provide oversight ensure the laboratory's corrective and preventive actions are effective. Close cooperation between various departments within the laboratory and Michigan State University; provide complete coverage for any maintenance need. Maintenance shutdowns are planned with input from all departments whose resources are then gathered into a single resource pool for scheduling. The coordination and planning of maintenance activities for the Coupled Cyclotron Facility is the responsibility of the Maintenance Group within the Operations Department.

Summary

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ORAL PRESENTATION

Session 17

Improving reliability: CTRLM, call systems, spare parts, training, procedures

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