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Risk Assessment Process - CEBAF Accelerator Systems

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Risk Assessment Process - CEBAF Accelerator Systems Randy Michaud Accelerator Division, Thomas Jefferson National Accelerator Facility Newport News, Virginia, USA

Continuous Electron Beam Accelerator Facility (CEBAF) management is routinely faced with making difficult decisions. Our primary mission is to conduct world class nuclear physics; doing so involves pushing the limits of technology, embracing failure as a form of discovery, and supporting the scientific program by all means possible. Achieving that mission requires minimizing external risk to the scientific program. Challenges and obstacles arise when scientific facilities face decisions related to funding limitations, resource constraints, and management of risk. CEBAF has recently adopted a risk analysis method that helps us evaluate accelerator system risks and mitigations to support the scientific program. The risk assessment method is based on a modified Failure Mode and Effects Analysis (FMEA) technique. The process supports mitigation of risks, assists in development of a spare component list, and reinforces the scientific program. The information from this process serves as guidance in budgeting and decision making for supporting the overall laboratory mission.

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