



Contribution ID: 80

Type: **Talk**

Jefferson Lab Reliability Task Force

Thursday 19 October 2017 11:00 (25 minutes)

Jefferson Lab's Continuous Electron Beam Accelerator Facility (CEBAF) has moved into production running after completing the 12 GeV upgrade. In many instances, new equipment has been integrated into the original CEBAF infrastructure and systems. Some challenges and opportunities have presented themselves during and following commissioning of the "new" machine that have prompted Jefferson Lab management to take action regarding systems reliability. A series of systems failures and input from an Accelerator Advisory Committee report prompted Jefferson Lab's Director to launch a Reliability Task Force. The primary focus of the task force was to explore technical systems and in addition to look at contributing systems, processes, and tools. The Task Force charge also included emphasis on data-driven decision making; "Prioritization of maintenance, replacements, upgrades and new projects should be data driven with emphasis on getting maximum return (system reliability) on investment (resources)." I will summarize and discuss the efforts of the Reliability Task Force as well as methods, findings, and recommendations for improvements.

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Session Classification: 13- Insuring Long Term Reliability

Track Classification: Insuring Long Term Reliability