

Water Cooling System Upgrades, Successes, and Lessons Learned From The Los Alamos Neutron Science Center

E. L. Kerstiens¹

¹Accelerator Operations & Technology (AOT-OPS), Los Alamos National Laboratory,
Los Alamos, NM, USA

The Los Alamos Neutron Science Center (LANSCE) has been in operation for 40+ years and during that time has experienced many failures and successes regarding equipment reliability. Local and shared experience coupled with equipment advancements has made it possible to improve system performance and reliability, even with older systems. Improvements made to the target and accelerator cooling systems will be discussed, specifically the selection of mechanical and diagnostic equipment, cladding of the tungsten target, testing and installation of new equipment, performance of these upgrades (successes and failures), and the need for tracking and trending and configuration control.

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Contact Information: Eron L. Kerstiens, eron@lanl.gov, ph: (505) 667-3618.