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Update and improvement planning at the Los Alamos Neutron Science Center (LANSCE)

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The Los Alamos Neutron Science Center (LANSCE) is one of the oldest operating accelerators in the United States, having recently celebrated its 50th anniversary of operation. LANSCE is comprised of an 800-MeV linac capable of concurrently accelerating both H⁺ and H⁻ ions, and can presently provide beam to six separate user stations.

We present an overview of proposed and underway upgrade and enhancement efforts at LANSCE. These include both near- and far-term efforts, encompassing lifetime extension and performance enhancement of the LANSCE linac; the potential for addition of new end stations and user facilities; and ancillary projects to provide additional materials characterization methods via ultrafast electron diffraction and inverse Compton scattering.

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