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Status and Performance of RF Linac in Oak Ridge Spallation Neutron Source

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*emphasized text*The RF linac in SNS has been performing progressively since the commissioning in 2006 for production and delivery of neutrons to beamlines. The RF systems in the front-end, the normal conducting section, and the superconducting section, have been operating as initially designed but with some limitations. Various problems that hampered achieving the design beam power and reduced availability of the SNS accelerator systems have been identified and eliminated through repairs, upgrades, and developments. The 1.4 MW design beam power is now routinely achieved during 24/7 operation while the beam energy is slightly lowered from the design goal of 1 GeV to about 950 MeV. Efforts are put on developments and investigations for system improvements for enhanced availability and performance. In this report, developments, and operation experiences on the accelerator systems will be presented along with the efforts for future upgrades of the SNS accelerator systems.

Summary

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