

Status of upgrades to MicroTCA at the Spallation Neutron Source

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The Spallation Neutron Source (SNS) has been in production for over 18 years and is beginning to upgrade systems as part of a reliability, availability and modernization strategy. One of the primary paths for modernization for accelerator control systems include MicroTCA. The first MicroTCA system at SNS was deployed in 2019 and has been in production since that time. Since then, numerous other systems have been upgraded as part of larger upgrade projects or routine maintenance. These upgrades include Machine Protection System (MPS), LLRF systems, Timing applications, and Magnet Power Supply controls. The rate of upgrades is not slowing down soon as several more are planned for Timing, HPRF, additional magnet power supply controls, and LEBT Chopper. This presentation will highlight our successful upgrades, future plans, and some valuable gems that we have gleamed during this process.

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