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Proton Power Upgrade Project Update

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The Proton Power Upgrade (PPU) project will upgrade the Spallation Neutron Source (SNS) proton beam power capability by a factor of two: from 1.4 MW to 2.8 MW. This upgrade will allow in increased beam power capability at the existing First Target Station (FTS) and will also provide beam power for the Second Target Station project, which is another ongoing SNS upgrade. PPU will increase the proton beam energy and the beam current by adding new superconducting cryomodules, new RF equipment and upgrading some existing equipment. Also, the FTS target systems will be upgraded to handle the increased beam power. The status, scope and future path of the PPU project will be discussed. The project has recently received approval to move forward on a significant amount of scope. Plans also include a gradual power ramp up over the 2023-2024 period.

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