

## Upgrades to the SNS MEBT RF Power Amplifiers

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The original SNS baseline installation included six 20kWpk vacuum tube power amplifiers (four online amplifiers and two ready spares, manually interchangeable) to drive the four rebuncher cavities that are part of the Medium Energy Beam Transport (MEBT) structure. We are in the process of replacing the six vacuum tube amplifiers with five commercially-available 25kWpk solid-state amplifiers that will connect to the rebuncher cavities through a remotely-operated 4+1 switching matrix. An interim effort to replace the original linear high voltage anode power supplies with switching supplies, designed specifically for pulsed power applications, has significantly reduced the downtime associated with the MEBT rebuncher amplifiers. We report progress to date.

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