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## **Upgrades to the Spallation Neutron Source Radio Frequency Systems to Support the Second Target Station.**

*Thursday 23 June 2016 09:00 (30 minutes)*

To support the requirements for the Spallation Neutron Source (SNS) Second Target Station (STS), the accelerator systems will be upgraded to support an average proton beam power on target of 2.8MW. To accomplish this requires an increase in both beam energy and average current. We describe the upgrades to the SNS Radio Frequency (RF) systems to support these requirements.

### **Summary**

To support the requirements for the Spallation Neutron Source (SNS) Second Target Station (STS), the accelerator systems will be upgraded to support an average proton beam power on target of 2.8MW. To accomplish this requires an increase in both beam energy and average current. We describe the upgrades to the SNS Radio Frequency (RF) systems to support these requirements.

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