

Status of the Oak Ridge Spallation Neutron Source (SNS) and the RF Systems

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The SNS has been delivering production neutrons for four years. First beam was delivered to the neutron target at the end of April 2006. On September 18, 2009 SNS officially reached 1 megawatt of beam on target marking the achievement of a decades-old dream of delivering a mega-watt class pulsed spallation source in the U.S. The present effort is aimed at routinely delivering 1 megawatt of beam and gradually increasing the intensity to the 1.4 megawatt design level. This presentation provides a review of the SNS design, an overview of the performance and weaknesses of the various systems and a detailed review of the performance of the RF systems.

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