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Activities in Support of Conversion of the NBSR to LEU Fuel

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ABSTRACT

The NIST Center for Neutron Research (NCNR) submitted its Preliminary Safety Analysis Report (PSAR) for the conversion of the NCNR test reactor, the NBSR, to the U.S. Nuclear Regulatory Commission (NRC) on December 30, 2014. Review of this PSAR is ongoing. In addition, design and construction of a liquid deuterium cold source to mitigate experiment flux losses due to conversion is progressing, with commissioning of the new 7 kW refrigeration unit expected late this fall. The cold source cryostat is expected to be installed in 2021.