

Special Temporary Authority to Test Radar Instrumentation Request for 'Fee Exempt' Status

**STA Confirmation Number: EL501076
Form 442, File Number: 0055-EX-ST-2021**

This document is a request for 'fee exempt' status for Special Temporary Authority to Test Radar Instrumentation under form 442 file number

The application is filed by a state university (i.e., The University of Kansas) for the purpose of conducting and completing a federally-funded research grant.

The requested license is necessary to perform research under NOAA Award # NA19OAR4590206, Airborne Snow Depth Retrieval for Improved Hydrological Modeling. This project will collect airborne radar measurements of snow depth at a sporadic frequency for 4-5 hours during a two week period in the months of January and February over existing federally operated SNOTEL and USGS stream gauges in the Black Hills National Forest in South Dakota. The collected data sets will then be integrated into a basin-scale model using the Weather Research and Forecasting (WRF)-Hydro model framework and will demonstrate the utility of spatially continuous measurements of snow depth for improved seasonal prediction of streamflow.

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