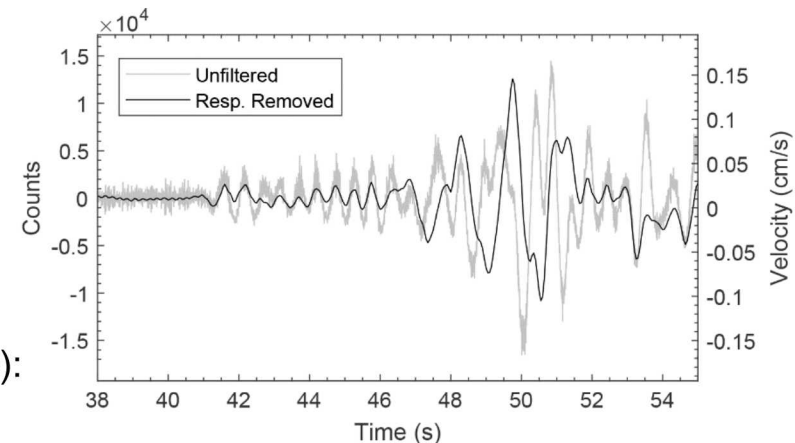
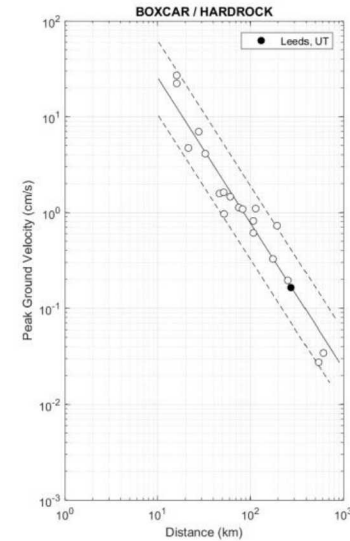
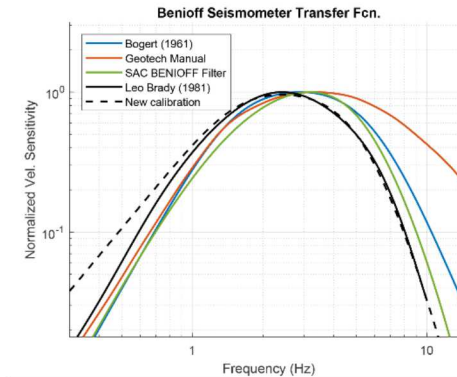




This paper describes objective technical results and analysis. Any subjective views or opinions that might be expressed in the paper do not necessarily represent the views of the U.S. Department of Energy or the United States Government.

# Recovery and Calibration of Leo Brady Seismic Data for the Source Physics Experiment

- We are digitizing, recovering, and calibrating legacy seismic data from underground nuclear tests (UGTs)
- This will be the only known repository of far-field seismic data from UGTs during the analog era (<1980s)
  - Each new calibration recovers data that was essentially lost to history
  - Hundreds of UGTs prior to digital seismology; provides wealth of new data for seismic analysis
- Calibration is being done by careful measurement of weight-lift tests performed prior to each test
  - Instrument constants derived from measurements of weight lift
- Current results demonstrate improvement over pre-1992 calibrations, possibly more accurate than was possible even at the time of recording



## BOXCAR results — peak ground velocity @ Leeds, UT

Pre-1992 method:	New method:	Murphy & Lahoud (1969):
0.1472 cm/s	0.1637 cm/s	0.1620 cm/s