Procurement Description*	ARRA Funded: Sandia National Laboratories' National Thermal Test Facility has a need for one Field Portable Hand-Held Reflectometer and Emissometer. The Field Portable Hand-Held Reflectometer and Emissometer measures directional reflectance at six bands in the thermal infrared spcetral region at two incidence angles, 20° and 60°.
Statement of Work*	Sandia National Laboratories' Solar Technologies organization has a need for one Field Portable Hand-Held Reflectometer and Emissometer. We need a Field Portable Hand-Held Reflectometer and Emissometer that measures directional reflectance at six bands in the thermal infrared spcetral region at two incidence angles, 20° and 60°. Based on those values, the directional and total hemispherical emissivity will be able to be calculated. We need the Field Portable Hand-Held Reflectometer and Emissometer to be battery powered reflectometer controlled by a built in PDA type computer. This device needs to be compatible for use for thermal control coatings analysis, thermal emissivity measurements and radiative heat transfer applications including field inspections.
Mandatory Requirements*	The system shall: • Measure reflectance in the infrared spectral range and calculate directional thermal emissivity • Spectral Range (s): 1.5-21 microns, 6 bands • Make measurements at two incidence angles: near normal 20°, and near grazing 60° • Measurement time approximately 10 seconds • Battery operated & fully portable • Saves the data on a CompactFlash™ card • Calculates hemispherical thermal emissivity • No sample size restrictions
DOE funding statement	"Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000."