

Drum Containing Compressed Surrogate WIPP Waste



Sandia National Laboratories conducted compaction experiments on full-scale and ¼-scale 55-gallon drums filled with mixtures of nonradioactive surrogate fresh and degraded materials that represent the waste emplaced at WIPP. The drums were compressed under uniaxial, triaxial, and hydrostatic loading conditions to parameterize a model for the waste's compaction behavior under the stress conditions at WIPP. This full-size drum, filled with a mixture of surrogate fresh WIPP waste, was compacted uniaxially with a stress of 14.5 MPa (2,100 psi).