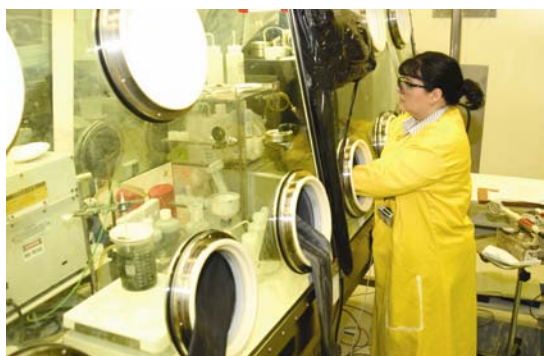


unique capabilities

Analytical Laboratories

SAVANNAH RIVER NUCLEAR SOLUTIONS, LLC



*Providing production
and remediation
laboratory support
for the Savannah River Site*

Nuclear Material Dissolution from Destructive Analysis Measurements

Overview

The Savannah River Site F/H Laboratories perform nuclear material dissolution of Pu/U oxides and metals plus Np oxide to support site productions/remediation projects. Nuclear material dissolutions are performed in glovebox containment via microwaves, hot blocks and hot plates. Resulting solutions are aliquotted for a variety of elemental and compound analyses.

Features

- Varying sample size (100 mg – 30g)
- High temperature digestions up to 200°C
- Computer-controlled temperature and pressure dissolutions
- Excellent analyte recovery in destructive analysis
- Commercially-available electronic equipment with trained operators
- Capable of handling high alpha activity levels (facility source term limit of 310 Alpha Curies)