

Foil fabrication and Barrier Layer application for Monolithic Fuels

Glenn A. Moore, Curtis R. Clark, Jan-Fong Jue, W. David Swank, DC Haggard, Michael D. Chapple, and Douglas E. Burkes
Idaho National Laboratory (INL) Fuels Development Department

Presenter: Glenn Moore 208-520-3132 mga@inel.gov

Abstract

This presentation provides details of recent UMo fuel developments efforts at the Idaho National Laboratory. Processing of monolithic fuel foil, the friction bonding process, and hot isostatic press (HIP) sample preparation will be presented. Details of the hot rolling, foil annealing, zirconium barrier-layer application to U10Mo fuel foils via the hot-rolling process and application of silicon rich aluminum interfacial-layers via a thermal spray process will be presented.