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Production of Monolithic UMo Foils and Plates

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ABSTRACT

BWX Technologies (BWXT) Nuclear Operations Group in Lynchburg, Virginia has been tasked to demonstrate the fabrication of LEU high density U-Mo monolithic foils and plates utilizing commercial scale equipment. A baseline commercial scale process has been identified and the facility has been modified to install new commercial scale equipment to replicate the baseline process developed on laboratory scale equipment. DU-Mo is being fabricated into foils using this process and transitioning to the processing of LEU. Current foil fabrication results and observations will be presented as well as discussion of future fabrication efforts to support this DOE NNSA Material Management and Minimization Conversion program.