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**USHPRR Fuel Fabrication Pillar MP-1 Process Improvements & Future
Plans**

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ABSTRACT

The Fuel Fabrication (FF) Pillar, a project within the U.S. High Performance Research Reactor Conversion program of the office of NNSA's Material Management and Minimization (M3), is tasked with the scale-up and commercialization of the high-density monolithic UMo fuel for the conversion of appropriate research reactors. The FF Pillar has recently completed fabrication of the MP-1 low and medium power irradiation experiments during which time significant process improvements were implemented. Future campaigns will provide the fabrication volume to assess manufacturing capability throughput over time as well as opportunities for continual process improvement and optimization to increase process yield and decrease lifecycle waste and costs.

Please submit your abstract in **Microsoft Word** format by e-mail to RERTR@anl.gov by **September 28, 2018**.