

**RERTR 2016 - 37th INTERNATIONAL MEETING ON
REDUCED ENRICHMENT FOR RESEARCH AND TEST REACTORS**

**OCTOBER 23-27, 2016
RADISSON BLU ASTRID HOTEL
ANTWERP, BELGIUM**

Status of the Conceptual Design for ATR LEU Conversion

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ABSTRACT

The ATR LEU fuel conversion project has been focused on completing the conceptual design for the new fuel. Completion of the conceptual design is a predecessor to releasing the design for fabrication of fuel elements for the ET-1 experiment. A list of requirements for the ATR conversion was received from the Department of Energy in a letter dated 12-11-2008. Since that time the ELF Mk1A fuel has been chosen as the best candidate to meet the conversion requirements. This presentation provides an overview of the results of the analysis that have been performed on the ELF MK1A fuel. An outline is also presented of future analysis that will be performed in order to complete the conceptual design in 2017.