

**Mo-99 2016 TOPICAL MEETING ON
MOLYBDENUM-99 TECHNOLOGICAL DEVELOPMENT**

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**Niowave's Domestic Production of Mo-99
from LEU without a Nuclear Reactor**

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ABSTRACT

In March 2015 the Nuclear Regulatory Commission approved Niowave's license to produce Mo-99 from a low enriched uranium target using a superconducting electron linac. The first domestic production of small quantities of Mo-99 from uranium occurred in September 2015 with plans to increase the production rate to kCi per week quantities by 2021. Also, over the past year Niowave has built up its radiochemistry facilities and personnel to chemically separate Mo-99 and other valuable fission fragments. The radiochemistry facility is located at the same location that the low enriched uranium is irradiated. Niowave will give an update and progress on the technical and licensing plans.