

**2017 Mo-99 TOPICAL MEETING ON
MOLYBDENUM-99 PRODUCTION TECHNOLOGY DEVELOPMENT**

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Securing Mo-99 Supply for LEU TechneLite® Generator

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ABSTRACT

Lantheus Medical Imaging began using LEU-produced Mo-99 in TechneLite® (Technetium Tc-99M) generator production in December 2010. Weekly production of the TechneLite® generator using Mo-99 produced from at least 95% low-enriched uranium (LEU) content began in January 2013. In 2016, LEU-produced m0-99 constituted almost 50% of Lantheus's total Mo-99 supply.

This paper will describe supply chain and commercial progress regarding LEU TechneLite® since the 2016 DOE Topical Meeting especially Lantheus' efforts to ensure reliable supply following the cessation of Mo-99 production at the NRU reactor in Canada. The paper will also discuss plans for the expected transition to an all-LEU Mo-99 supply chain in 2018 and continuing efforts to diversify Lantheus' source of Mo-99.