

**Mo-99 2017 TOPICAL MEETING ON
MOLYBDENUM-99 TECHNOLOGICAL DEVELOPMENT**

**September 10-13, 2017
Montreal Marriott Chateau Champlain
Montreal, QC, CANADA**

Update on Domestic Production of Mo99 via Neutron Capture

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ABSTRACT

NorthStar has multiple efforts towards establishing a domestic supply of Mo99. One effort is reactor based utilizing the neutron capture process at the Missouri University Research Reactor (MURR) reactor. The second effort is an electron accelerator based process utilizing the photon capture process at NorthStar's Beloit site. In either case a new type of generating system that is capable of accepting a low specific activity solution of Mo99 and yielding a USP compliant, high specific activity Tc99m product is necessary. NorthStar's presentation will describe current status of the neutron capture production process, readiness for production start and the status of the RadioGenix™ generating system NDA.