

**Mo-99 2015 TOPICAL MEETING ON
MOLYBDENUM-99 TECHNOLOGICAL DEVELOPMENT**

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Towards Domestic Production of Mo99

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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. Both processes require 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 as is currently the case in nuclear pharmacies throughout the US. NorthStar's presentation will describe current status of the neutron capture production process and the FDA status of the RadioGenix™ generating system.