

NorthStar Progress Towards Domestic Mo99 Production

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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 MURR reactor. The second effort is linear accelerator (LINAC) based utilizing the photon capture process at NorthStar's Beloit site. NorthStar's neutron capture program is well underway at Missouri University Research Reactor (MURR) to ready the facility for FDA inspection and subsequent production. Design continues on the LINAC facility. Process optimizations with the LINAC effort are currently in progress with a series of curie level production runs currently. Both NorthStar processes are non-uranium based supporting GTRI's goal of establishing a domestic non-HEU source of Mo99. Presentation will provide a program update on these efforts.