

New Generating System for Tc99m 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 Missouri University Research Reactor (MURR) reactor. The second effort is linear accelerator (LINAC) based 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 generating system is currently subject to an NDA under consideration by the FDA. Presentation will provide a program update on these efforts.