

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

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**Technical Aspects of Non-HEU Mo-99 & Tc-99m Production: An IAEA
Update**

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ABSTRACT

The IAEA supports its Member States in various areas related to the production of molybdenum-99 (Mo-99) and technetium-99m (Tc-99m), without using high enriched uranium (HEU), through activities such as coordinated research projects (CRP), round robin exercises, thematic technical meetings and publications. Some recent activities are: CRPs on (i) Direct cyclotron production of Tc-99m (ii) Guidelines on how to reduce radioactive gaseous releases during radioisotope production (iii) New Ways of Producing Tc-99m/Tc-99m Generators; Round Robin exercises on (i) Use of high capacity Mo adsorbers and Tc-99m concentration devices and (ii) Evaluating the national production capabilities of (n, γ)Mo-99. Additionally, the HEU minimization project and the Peaceful Uses Initiative project on supporting the global Mo-99 production without using HEU are being implemented. Recently, a Symposium on Mo-99, organized by the National Academy of Sciences of USA and Russia was supported. All activities will be discussed along with future planning.