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Synroc Waste Treatment Plant for fission-based Molybdenum-99 Production

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A new nuclear medicine facility is being built which will enable ANSTO to meet both domestic and global demand for Molybdenum-99. Co-located on the site will be an innovative waste treatment facility that deploys ANSTO's Synroc technologies; a waste form tailored for immobilizing all the waste elements and fission products and an integrated process line for converting intermediate level liquid waste into a solid compact via hot isostatic pressing (HIP), producing a durable waste form suitable for final disposal. This presentation will provide a high-level overview of the program, including various stages of development that are important in building this first of a kind nuclear waste treatment plant.

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