

**Mo-99 2016 TOPICAL MEETING ON  
MOLYBDENUM-99 TECHNOLOGICAL DEVELOPMENT**

**SEPTEMBER 11-14, 2016  
THE RITZ-CARLTON  
ST. LOUIS, MISSOURI**

**ANSTO Nuclear Medicine  
Towards a Reliable Supply of Mo-99**

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**ABSTRACT**

ANSTO has been manufacturing Mo-99 from the fission of uranium since the early 1980s. Currently a new manufacturing plant is under construction with a capacity of 3500 six-day Curies of Mo-99 per week. With ANSTO's significant experience in Mo-99 manufacture this new plant will ensure a reliable supply of Mo-99 to world markets. Features of the new plant are LEU technology, utilization of proven technology and effective waste control.

Construction of the plant is nearing completion with commissioning to occur in early 2017 and routine supply expected around the middle of the year. In order to ensure supply following the cessation of Mo-99 irradiation at the NRU reactor, ANSTO has doubled the capacity of its current Mo-99 plant to 2100 six-day Curies per week. This increase has been approved by our regulator and increased production has already commenced.

A description of the project and its status will be given.