

**Mo-99 2015 TOPICAL MEETING ON
MOLYBDENUM-99 TECHNOLOGICAL DEVELOPMENT**

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Experience of LEU Mo-99 Production with the MINI-LOOP system

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ABSTRACT

INVAP designed a system named MINI-LOOP for the development and testing of a process for separation and purification of Mo-99 obtained by fission of low enriched uranium solutions.

The MINI-LOOP is conformed principally by the irradiation and processing systems.

The program was performed in less than 3 years, during that time the following work was done:

- Design basis definition
- Constructive design
- Fabrication
- Assembly and installation
- Commissioning
- Operation and maintenance
- Waste management
- Re design and adjustments
- Observations and results analysis

As the result of the overall program a new method for the production of Mo-99 was defined.

Actually the system is under a decommissioning program.