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## IRT-1 Research Reactor Decommissioning: Preliminary Plan

### Abstract

The Tajura Nuclear Research Center (TNRC) has two reactors, one of them with a power of 10MWth and the other Critical Facility Stand with a power of 100W within operation for 41 years, the status of the research reactor is extended shutdown since 2013, for these reasons, the decommissioning plan it became important. The preliminary decommissioning plan consists of actions and steps required as well as the strategies to be adopted for the shutdown of the facility under the technical and administrative, seeking the safety, of health workers and the general public, and minimizing environmental impacts.

This work aims to develop a preliminary plan for decommissioning the research reactor, considering the technical documentation of the system (SAR-Safety Analysis Report), the existing rules of the Libyan Atomic Energy Establishment, as well as regulatory instructions and recommendations of the IAEA.

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