

TAJOURA RESEARCH REACTOR

By
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- The Tajoura research reactor is an IRT-1 10MW pool type reactor cooled and moderated by light water.
- The reactor was started up in 1982 is operated by the (TRC).
- The main utilization of the reactor is the production of radioisotopes, neutron activation analysis, and academic purposes.
- The reactor staff is focusing on the safe operation of the reactor.

- The core as shown consists of 36 square cells (6x6)
- removable beryllium units of the reflector
These cells are surrounded by stationary beryllium reflector enclosed in an aluminium vessel.
- The stationary beryllium reflector and the aluminium vessel contain a number of vertical irradiation channels

- Now the reactor is in the process of converting it from using HEU to LEU fuel
- The irradiated HEU fuel is to be stored under water in the reactor pool.
- The operation regime was based on the users request.
- No written plane yet for decommissioning the reactor
- All documentations are kept which will help to start preparing such a plan.
- An evaluation of different decommissioning plans should be performed.
- The IAEA standards such as these in the series WS-R-2 and WS-G-2.1 are the base for decommissioning plan.