

MAINTENANCE AND INSPECTION PLAN FOR ETRR-2

A.S. Kamoon

O.E. El Nokity

Y.E. Tawfik

Atomic Energy Authority of Egypt, ETRR-2, 13759 Cairo, Egypt

Abstract

Safety is the most important issue considered by ETRR-2 management during the reactor operation and utilization. Among others, effective maintenance is one of the most important specific activities to achieve safety. The ETRR- 2 Maintenance program and inspection plan is adopted to ensure that the system, subsystem and components continue to operate as desired with the capability to meet the design objectives. Moreover, it is also to ensure that the reactor safety is not affected by subsequent operations.

The ETRR-2 Manager has the overall responsibility for all aspects on maintenance while the maintenance head has the direct responsibility. ETRR-2 maintenance group is divided into four units: mechanical maintenance unit, electrical maintenance unit, electronics maintenance unit, and chemical maintenance unit.

The intended safety function of every reactor component and system is checked on daily, weekly, monthly, semiannual and annual bases by means of preventive and predictive maintenance program and inspection test plan.

Safety and safety related components are given high priority. Deficiencies thus detected are corrected in time. Maintenance activities are carried out in accordance with written and approved procedures. The maintenance procedures are developed by ETRR-2 maintenance personal in cooperation with system designers and based upon the manufacturer recommendations and consideration of the experience gained from similar facilities. Maintenance personnel are kept well trained on all maintenance activities. Documents that define the maintenance activities and associated historical data are subject to managerial control within the QA program for ETRR-2 operation. Maintenance procedures are ensuring that the control room operators are kept informed of the status of any such work under way.