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Abstract

Radiation Monitoring System aiming to limiting dose exposed to personnel to the lowest level referring to the concept of ALARA (As Low As Reasonably Achievable). Atomic Energy Licensing (Basic Safety Radiation Protection) Regulation 2010 (Act 304) is a baseline to control employee and public radiation protection program and guideline, as well as to meet the requirement of the Occupational Safety and Health 1994, (ACT 514).

Objective

The purpose of the monitoring is to keep a constant surveillance over the personnel safety, working environment and to detect the quantity and extent of contamination. All instruments calibrated periodically in terms of the appropriate quantities used in radiation protection. Dose absorbed by personnel or public shall not exceed the Annual Dose Limit.

Introduction

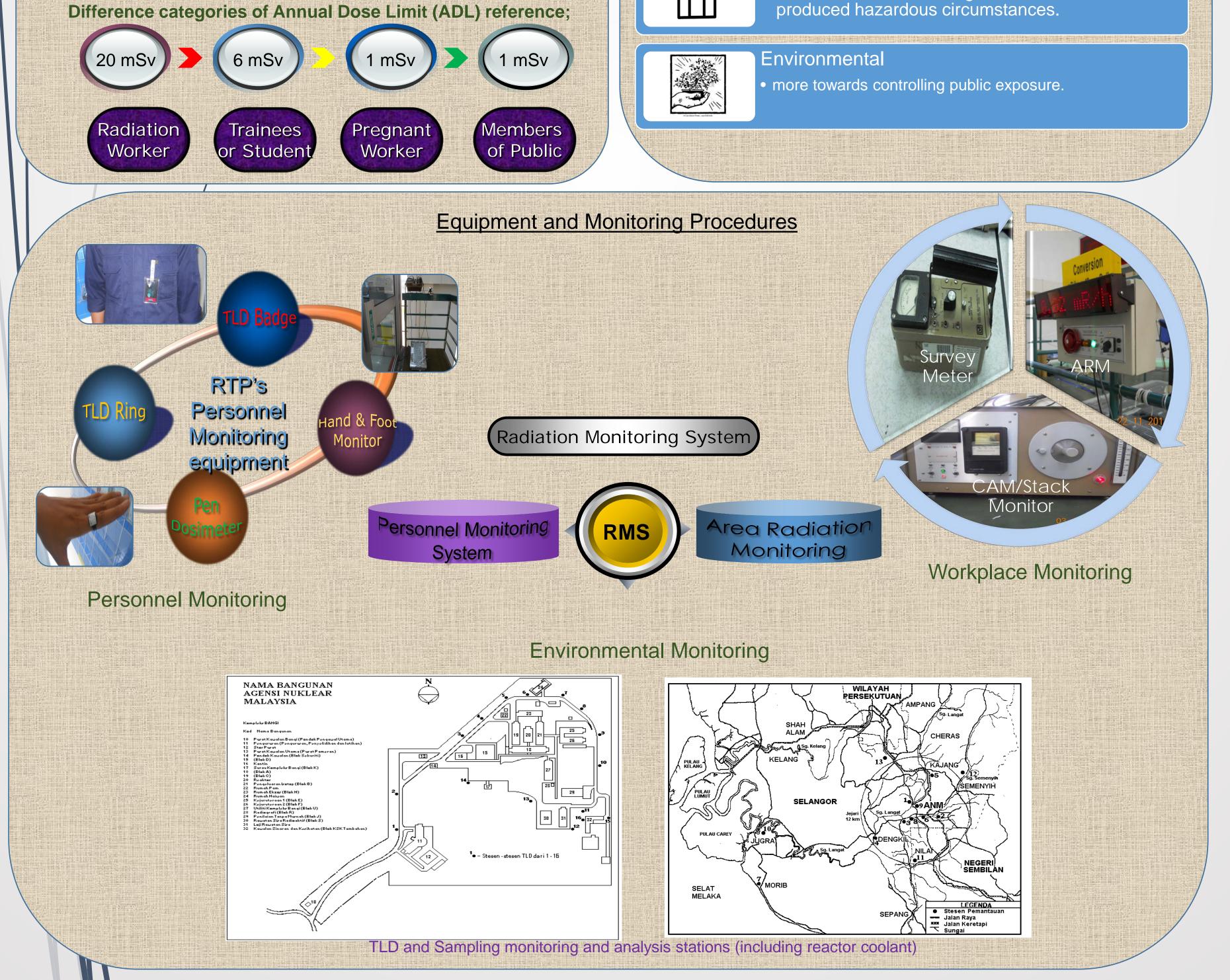
The safety of the reactor can be assured through the continuous and vigilant monitoring of its operational parameters. Atomic Energy Licensing (Basic Safety Radiation Protection) Regulation 2010 (Act 304) require monitoring to be carried out on all personnel who work in controlled areas (and selectively in supervised areas) and reactor visitors. Occupational exposure can be delivered to personnel either by sources outside the body in the form of external radiation or by intake of radioactive contaminants.

Personnel

• to control occupational radiation exposure of working personnel and visitor.

Workplace

to control reactor building and facilities from



Result and Conclusion

Continuous monitoring of operational safety parameters at the PUSPATI TRIGA Reactor is essential for assuring the safety of the reactor, personnel and environment. The analysis of the data shows that the safety of personnel and environmental are not compromised due to the operation of PUSPATI TRIGA Reactor (RTP).