

Preparing a Radiation Management Plan in Namibia – why & how

Under Namibia's Atomic Energy and Radiation Protection Act (No. 5 of 2005), and the associated draft regulations, the Namibian National Radiation Protection Authority has laid down the key elements that Radiation Management Plans (RMP) have to address.

An RMP comprises of the following main elements:

- a. **Background:** describes the technical nature of the operation(s), the physical plan of the premises, sources of radiation, type(s) of radioactive material(s) used, overview and assessment of radiation hazards, and description of the principal exposure pathways.
- b. **Pre-Operational Safety Assessment:** summarises the main outcomes of all assessments carried out prior to operations, including any Environmental Impact Assessments, risk, remediation/rehabilitation assessments, risk management plans and Environmental Management Plans.
- c. **Organizational Arrangements:** describes the main responsibilities within the organization, and specifies the functions and responsibilities of the designated Radiation Officer(s).
- d. **Occupational Radiation Protection Programme:** specifies programs and actions to be taken to protect workers in the occupational setting.
- e. **Medical Exposure Control:** describes all relevant medical measures taken to minimize individual doses.
- f. **Public Exposure Monitoring Programme:** identifies the programs and methods to monitor the public exposure pathways, and minimise any accidental exposure caused by operations.
- g. **Waste Management Programme:** describes the management of radioactive waste (both in form of sealed or unsealed radioactive sources), contaminated material(s) and effluent(s) arising from operations, including the management of tailings.
- h. **Emergency Preparedness and Response:** describes the emergency management plan enacted after accidental exposure to radiation.
- i. **Transport Plan:** specifies protection and shielding of radioactive materials during transport.
- j. **Safety and Security of Radiation Sources:** describes the controls and measures to ensure the safety of sources of radiation.

RMP's are most useful when they are in a form and format that allows them to be regularly updated, as and when operations require.

VO Consulting develops RMPs that comprehensively address contemporary regulatory requirements while providing pragmatic action-oriented guidance to managers, risk officers, and radiation safety officers. We assist companies in devising effective mechanisms to implement and monitor radiation-related work processes, analyse data and compile radiation-related information, to remain compliant with contemporary regulatory compliance and international best practice.

Please contact us to discuss your particular requirements!