International Conference on the Safety of Radioactive Waste Management, Decommissioning, Environmental Protection and Remediation: Ensuring Safety and Enabling Sustainability

Contribution ID: **305** Type: **POSTER**

Contaminated Area Management Plan for a Mining and Milling Uranium Facility –Preliminary Results

Uranium Concentration Unit (URA) is a facility which belongs to Indústrias Nucleares do Brasil (INB), in which uranium mining and milling activities are carried out to produce ammonium diuranate (ADU) as uranium concentrate. As a result of operational activities at the URA, environmental radiological impacts generated by unusual events such as infiltration of liquids into the soil due to failures in the waterproofing system were perceived.
In order to understand the extent of the impact generated and to propose mitigating actions, it was necessary to prepare a management plan for the contaminated area, which consisted of the following steps:
a) Diagnosis of the area based on documentary evaluation;
b) Updating the conceptual model of contamination based on the diagnosis;
c) Elaboration of a work plan, including:
I. Necessary confirmatory and/or detailed investigation steps;
II. Proposition of emergency containment actions that can be adopted.
The work was carried out seeking to comply with the specific resolution of the Brazilian National Council for the Environment (CONAMA) for the management of contaminated areas.

Primary author: GOIS, Rodrigo (Industrias Nucleares do Brasil)

Co-author: Ms ROCHA DONATO, Josilene (INB)

Presenter: GOIS, Rodrigo (Industrias Nucleares do Brasil)

Track Classification: Track 5 - Practical experiences in integrating safety and sustainable development