

## Considerations and Reflections for the Development of New Strategies in the Design of Nuclear Power Plants

Nuclear facilities should not only be as safe as possible but also as decommissionable as possible which, means that all the components, both material and procedural, in the design and building of a nuclear facility must guarantee the safety that the regulations demand, along with the ease of its future decommissioning process. This proposal seeks to improve the decommissioning process of nuclear facilities by including additional analysis and considerations in the design process.

In order to do so, it is suitable to incorporate a methodology that allows us to identify the factors that contribute to this purpose in the design process and maximize them as long as they don't affect the safety, performance, and functionality of the facility.

The development of a Quantitative Decommissionability Analysis Tool should provide us the ability to identify and assess the contribution to the decommissionability of the different properties for structures, systems and components and assist the design process in the decision making towards the ease of the future process of decommissioning for a nuclear facility.

### Speaker's email address

juan.barrera@ib.edu.ar

### Speaker's Affiliation

Balseiro Institute

### Member State or IGO

Argentina

### Speaker's Title

Mr

**Author:** BARRERA SALAZAR, Juan (Balseiro Institute)

**Presenter:** BARRERA SALAZAR, Juan (Balseiro Institute)

**Session Classification:** SESSION 3: POLICY, LEGAL AND REGULATORY FRAMEWORK

**Track Classification:** SESSION 6: PREPARATION FOR DECOMMISSIONING