



Contribution ID: 5

Type: **Roundtable Member**

Effective Implementation of Safeguards by Design at Nuclear New Builds

Historically, safeguarding nuclear facilities was often considered after completion of the facility design or even construction of the facility. Incorporating safeguards early in the design process can enhance the safeguardability of a nuclear facility by influencing and becoming part of the intrinsic design.

Considering International Atomic Energy Agency (IAEA) safeguards verification requirements at the design stage, allows for inclusion of concepts that maximize efficiency and minimize inspection impact. Design changes during the design development and later design phases tend to be very costly.

In this article, a proposed approach for efficient implementation of Safeguards-by-Design (SbD) early into the design process for nuclear new builds is proposed. The proposed approach describes the involved parties, their roles and responsibilities, ways of coordination and collaboration as well as main areas to be considered. International best practices in this regards are also presented and discussed.

Topics

NEW2

Which "Key Question" does your Abstract address?

Which alternative "Key Question" does your Abstract address? (if any)

Primary author: Mr TAWFICK, Peter (Egyptian)

Co-author: Prof. MOHAMED, Walid Ibrahim Zidan (Egyptian Nuclear and Radiological regulatory Authority)

Presenter: Mr TAWFICK, Peter (Egyptian)

Session Classification: [NEW] Nuclear Newcomers –Strategies and Experiences with Enhancing Safeguards Infrastructure to Support the Introduction of Nuclear Power

Track Classification: Preparing for safeguards new facilities, processes and campaigns (NEW)