Contribution ID: **30** Type: **Oral**

The quest for achieving regulatory approval: Route for disposal of Secondary Waste

Small Modular Reactors (SMRs) present a series of opportunities and challenges to support the energy mix, with each type needing to present a clear and logical legal, structural, financial and regulatory approach to facilitate their development and deployment. The SMR vendors all have a common path to tread in order to develop their technology and ultimately ensure that its compliant and viable for deployment in a country. The vendor development trends have focused on power output, size, fuel, return on investment and technology types (including coolant materials), one area which naturally lags behind the development of the technology is ensuring that the waste streams are clearly understood, complaint, minimized and there is a route for disposal, this forms a significant part of the regulatory approval process. The Generic Design Assessment (GDA) process in the UK has previously focused on specific areas of waste arising and treatment in order to support the adoption of a sustainable technology into the energy mix. Learning from the GDA process, combined with recent Studsvik experience in focusing on the way to address waste challenges through a series of proof of principle trials for certain waste forms, is allowing us to enhance our knowledge in the field and support viable deployment. Studsvik is keen to share our thoughts on the necessary development needed to ensure that all waste forms are robustly understood to support vendors regulatory approvals.

Country OR International Organization

United Kingdom

Email address

david.oxberry@studsvik.com

Confirm that the work is original and has not been published anywhere else

Yes

Author: OXBERRY, David

Presenter: OXBERRY, David

Track Classification: Topical Group A: SMR Design, Technology and Fuel Cycle: Track 2: Advanced fuels, reprocessing, waste management and decommissioning aspects for SMRs –Safety, Design and Technology