

Results and Outcomes in Xenon Mitigation under the EU Council Decision V

The monitoring capabilities of the IMS noble gas systems may benefit from reductions of radioactive noble gas emissions. If these are achieved at nuclear facilities that have high radioxenon releases in normal operation, this could significantly enhance the CTBT verification capability. In this framework, the SCK•CEN was contracted by the CTBTO under the EU Council Decision V to design a mobile system for the reduction of radioxenon emissions from radiopharmaceutical production facilities. The project was subdivided in three phases: i) exploration and selection of appropriate xenon adsorption materials, ii) study of operational conditions and trap design and iii) construction and testing of a mobile xenon trap. The project was performed in close collaboration with the Institute of RadioElements and was successfully completed by the end of 2015. The major results and outcomes of the project will be shown.

Primary author: GUEIBE, Christophe (Belgian Nuclear Research Centre)

Presenter: GUEIBE, Christophe (Belgian Nuclear Research Centre)

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