



Contribution ID: 1014

Type: **Poster**

Application of MSO technology for radioactive waste retreatment

Monday, 16 May 2022 17:54 (3 minutes)

MSO (Molten Salt Oxidation) is a technology of flame-less oxidation in molten salts. This technology is mainly used to reduce the volume of hazardous solid and liquid wastes and allows the processing of loose materials, semi-liquid suspensions or liquids over a wide range of viscosity. Combustible wastes are fed through the dosing system into the reactor together with air or oxygen. During the flame-less oxidation, which is deliberately under the level of salt melt, heavy metals and radionuclides are captured within. This paper deals with the process of combustion of an ion exchange resin containing stable Cs, Co and Sr isotopes. The research phase is focused on the dissipation of these isotopes in MSO technology.

Primary author: HADRAVA, Jan

Co-authors: Mr GALEK, Vojtěch; Mr STOKLASA, Jaroslav

Presenter: HADRAVA, Jan

Session Classification: Nuclear Fuel Cycle

Track Classification: Chemistry of Nuclear Fuel Cycle, Radiochemical Problems in Nuclear Waste Management