



**Gediminas Stankunas** (*Lithuanian Energy Institute, Lithuania*)

Activity inventories and decay heat for waste evaluation and decommissioning are essential parameters for development of any nuclear device. The activities in this field aim to provide the detailed calculation results and identify the needs for the IFMIF-DONES facility and components. The main objective of the study is to perform activation/decay heat calculations for steel and concrete materials located in Target & Test Cell (TC) of the accelerator. This paper contains the data on updated activation, decay heat and dose rates calculations of TC liner and concrete inside biological shielding walls. On this basis new data was provided for the further DONES (one accelerator, 125 mA current, 5 MW beam power to the target) design, or the need for performing additional activation calculations cases not considered so far.