

CONTINUATION OF CONSTRUCTION OF HOT CELL FACILITY IN CVR

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Paper presents the continuation of construction of hot cell facility within the project SUSEN (Sustainable Energy) at CVR (Research centre Rez) [1]. The cells will be used for preparation and testing of irradiated structural materials. The project uses existing building converted for the purpose of placement of new hot cells. New design is used –heavy shielding with airtight steel box.

Paper is focus on constructional difficulties that come out from new layout of hot cells. Constructional solution of these difficulties will be discussed, namely airtight steel box, material transfer device, temporary sample storage, pre-chamber and design of semi-hot cell. All solution must be safe, functional, stable for long time, with low maintenance and all automatic manipulation replaceable with manual force.

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