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ON RADIATION AND APPLICATIONS IN VARIOUS FIELDS OF RESEARCH

BOOK OF ABSTRACTS

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ENHANCING THE NUCLEAR SECURITY ON NUCLEAR RESEARCH REACTORS RA AND RB

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Public Company Nuclear Facilities of Serbia (hereinafter PC NFS) is the only nuclear operator in Serbia. It was founded in 2009 under the Law on Ionizing Radiation together with the Serbian Regulatory Body. Since its establishment, PC NFS has continued all nuclear activities previously managed by Vinca Institute of Nuclear Sciences; Two research reactors (RA-final shut down and RB-zero-power critical assembly, operational but currently not-licensed), RWM facilities- old Hangars H1 and H2 with legacy waste, new hangar H3 (for the storage of intermediate and low level radioactive waste) together with the secure storage for the high activity sealed radioactive sources, and closed uranium mine Kalna are the part of the Company. The paper will provide our efforts, issues that we were facing with and results in strengthening the nuclear security on the research reactors RA and RB. Nuclear security is well recognized in the strategic plan of PC NFS and it is given the same priority as nuclear safety. Paper will provide international and domestic cooperation, our managing the interface between safety and security, strengthening the nuclear safety and security culture and implementing the good practice on the both research reactors. It will show the difference in methodologies in design of security systems for the research reactor planned for decommission and for the research reactor planned for the operation.



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