

Milan MAREK
Nuclear Research Institute Rez, plc
Head of Reactor Physics Department

M.S. degree of Reactor Physics at Prague Technical University, Faculty of Nuclear Sciences and Physical Engineering, 1972

Ph.D. degree of Nuclear and Sub-nuclear Physics at Czechoslovak Academy of Sciences, 1990

Current activities as the head of Reactor Physics Department - calculations and experiments supporting the experimental projects at the LVR-15 reactor:

- Managing the NRI part of the Czech Boron Neutron Capture Therapy (BNCT) for Cancer Project
- Designing the epithermal neutron beam for the BNCT at the NRI LVR-15 reactor, experimental verification of the beam; Designing of the neutron and gamma ray dosimetry, monitoring system and methodology of the beam standardization for the Czech BNCT Project; responsibility for the dosimetry and treatment planning of currently conducted BNCT clinical trials at the LVR-15 reactor;
- Member of an European team working under EU Code of Practice for Dosimetry of BNCT in Europe; Member of an European team comparing of the dosimetric properties of the BNCT facilities in Europe and the USA
- Managing and designing of the irradiation conditions for the material and system irradiation, project evaluation
- Managing of foreign projects focused on special material and system irradiation (ANERI-Hitachi, WIM-MHI, TVEL,)
- Managing of assessment of neutron fluence in RPV of the Czech Reactor Pressure Vessel Surveillance project for VVER-440 and VVER-1000 reactors; and the Ukraine Reactor Pressure Vessel Surveillance project for VVER-1000 reactors;
- HEU to LEU conversion

Specifics strengths related to RR

Applications – irradiation conditions, reactor dosimetry, experimental reactor physics, BNCT

Fuel cycle – HEU to LEU conversion