Role of Experiments in State-of-the-Art Nuclear Education and Nuclear-Related Multidisciplinary Research

Lubomir Sklenka,^{a)} and Milan Stefanik^{b)}

¹ Department of Nuclear Reactors, Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University in Prague, V Holešovičkách 2, 18000 Praha 8, Czech Republic

> ^{a)} Corresponding author: lubomir.sklenka@fjfi.cvut.cz ^{b)} milan.stefanik@fjfi.cvut.cz

Abstract. The paper deals with the role of research reactors in developing nuclear technology, science and neutron applications, and nuclear education and training, with a particular focus on two aspects of the utilization of research reactors: experimental nuclear education and nuclear-related multidisciplinary research. How multidisciplinary research and education can be carried out at a very low-power research reactor is demonstrated at the VR-1 Nuclear Experimental Hub, built around the VR-1 Reactor, which reactors serve researchers from the Czech Republic and abroad. Even though the VR-1 reactor is a very low-power research reactor with a nominal power of only 100 W, it can play an important role in experimental education and nuclear-related multidisciplinary research.