



Furthering Oregon State University to Meet Nuclear Science and Engineering Research Challenges Through Reactor Upgrade Investment

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Program: Reactor Upgrades

ABSTRACT:

The objective of this proposal is to upgrade components of the secondary cooling system and nuclear instrumentation on the TRIGA® Mk II Oregon State TRIGA® Reactor in order to increase the reliability and safety of the operational condition of the reactor. This upgrade will provide opportunity for continued safe use of the reactor in the nuclear science and engineering research as well as material science at Oregon State University (OSU) and development relevant to the DOE mission but also quality academic environment. This effort will focus on upgrading components of the secondary cooling system of the Oregon State TRIGA® Reactor that will improve the reliability and safety of the reactor and benefit researchers and students interested in nuclear engineering, radiation health physics, radiochemistry, as well as other fields dependent upon nuclear technology. The unique learning experience utilizing the reactor will reinforce theoretical material from the traditional student classroom experience while developing advanced measurement skills. The successful realization of this effort will enable OSU to educate highly capable individuals who will be needed to fill the critical needs of tomorrow's nuclear infrastructure, while concurrently contributing to mission and needs of DOE-NE.