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## Project Title

**PI:** Thomas M. Regan

**Collaborators:** N/A

**Program:** Reactor Upgrades

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### ABSTRACT:

#### Project Summary/Abstract File

**Applicant:**

University of Massachusetts Lowell

**Principal Investigator:**

Thomas Regan, Radiation Laboratory, UMass-Lowell, Lowell, MA 01854,  
Phone: 978-934-3548, Email: [Thomas\\_Regan@uml.edu](mailto:Thomas_Regan@uml.edu)

**Project Title:** Linear Power Safety Channel Upgrades for University of Massachusetts Lowell Research Reactor

**Program:** USDOE Nuclear Energy University Programs

**Abstract / Objective / Potential Impact:**

The University of Massachusetts Lowell Research Reactor (UMLRR) will replace the 2 existing Linear Power monitoring Safety Channels amplifiers. These acquisitions will greatly improve the reliability of reactor for multi-shift operations being planned in the next fiscal year. The existing compensated ion chambers will not be included in this work as they were replaced in 2018, with another NEUP grant.

Multi-shift operations will allow UMLRR researchers to expand their research and increase the amount of data acquisition allowed. In addition, this will allow use to potentially produce higher specific activities of isotopes for our new Radiochemical Separations program.