

## **The Design and Implementation of Nuclear Power Plant Construction Engineering Course Modules**

### **Executive Summary**

The overall goal of the project is to create and implement four new courses modules in Nuclear Power Plant Construction Engineering at Roger Williams University. Course modules included in this program directly address new reactor licensing requirements referenced in 10-CRF-Part 52's Construction Program Framework. Specific objectives defined for this project are to:

1. Address the knowledge gap of present and potential participants in the preconstruction and construction engineering activities for new nuclear power plants through design and implementation of four course modules;
2. Develop an increased level of subject matter expertise in nuclear power plant construction engineering for faculty committed to the project;
3. Become recognized as a national resource for nuclear power plant construction engineering education; and
4. Build a strong and sustainable program that will continue to successfully grow and develop after the completion of the grant.

The expected outcome of this project is to offer a multi-faceted mechanism for exposing engineering and construction students and professionals to the construction engineering involved in building new nuclear power plants. By accomplishing this objective, the pool of qualified and available professionals in the nuclear power construction engineering industry will increase. The delivery of the program is designed to maximize participation by offering multiple delivery modes with one channel reaching a U.S. national audience.

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