

## **Development of SCALE-based Educational Modules to Innovate Reactor Physics and Criticality Safety Curricula (Year 2)**

### **Executive Summary**

This request is for the second-year continuation of the subject grant awarded in Fiscal Year 2008. The primary objective of this project is to develop innovative educational modules based on the SCALE nuclear analysis system to supplement instruction in reactor physics and criticality safety courses at nuclear engineering programs, as well as other related courses (i.e., front and back end fuel cycle management, shielding, spent fuel inventory and decay, etc.). The focus of the modules will be in the following four specific areas: cross-section processing, criticality calculations, lattice physics, and depletion and spent fuel isotopics.

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