## **DOE-ID NEPA CX DETERMINATION**

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CX Posting No.: DOE-ID-15-047

☐ Yes ⊠ No

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SECTION A. Project Title: Multimodal Nondestructive Dry Cask Basket Structure and Spent Fuel Evaluation – The Unive	rsit
SECTION B. Project Description	
The University of Mississippi proposes to perform non-destructive evaluations of a spent fuel cask. Methods used include 1) emissource tomography, 2) linear and nonlinear active acoustics methods, 3) acousto-ultrasonic techniques, and 4)Muon imaging. The casks will contain no radioactive material.	
SECTION C. Environmental Aspects / Potential Sources of Impact	
The University of Mississippi has procedures in place to handle any waste that will be generated through this project. The action would not create additional environmental impacts above those already permitted at the university.	
SECTION D. Determine the Level of Environmental Review (or Documentation) and Reference(s): Identify the applicable categorical exclusion from 10 CFR 1021, Appendix B; give the appropriate justification, and the approval date.	
Note: For Categorical Exclusions (CXs) the proposed action must not: 1) threaten a violation of applicable statutory, regulatory, or permit requirements for environmental, safety, and health, including requirements of DOE orders; 2) require siting and construction or major expansion waste storage, disposal, recovery, or treatment facilities; 3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petrol and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; 4) adversely affect environmentally sensitive resources. In addition, no extraordinary circumstances related to the proposal exist which would affect the significant the action, and the action is not "connected" nor "related" (40 CFR 1508.25(a)(1) and (2), respectively) to other actions with potentially or cumulatively significant impacts.	leur
References: B3.6 Siting, construction, modification, operation, and decommissioning of facilities for small-scale research and development projects; conventional laboratory operations (such as preparation of chemical standards and sample analysis); and so scale pilot projects (generally less than 2 years) frequently conducted to verify a concept before demonstration actions, provided to construction or modification would be within or contiguous to a previously disturbed or developed area (where active utilities and currently used roads are readily accessible). Not included in this category are demonstration actions, meaning actions that are undertaken at a scale to show whether a technology would be viable on a larger scale and suitable for commercial development.	that
Justification: The activity consists of university-scale research aimed at investigating non-destructive evaluation techniques of sp fuel casks.	ent

Is the project funded by the American Recovery and Reinvestment Act of 2009 (Recovery Act)

Approved by Jack Depperschmidt, DOE-ID NEPA Compliance Officer on 06/18/2015