DOE-ID NEPA CX DETERMINATION

Project Title: Advanced Models for Nondestructive Evaluation of Aging Nuclear Power Plant Cables - Iowa

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CX Posting No.: DOE-ID-14-049

SECTION A.	State University
SECTION B.	Project Description

Iowa State University will perform R&D related to modeling the aging of two major NPP cable polymers – ethylene propylene rubber (EPR) and cross-linked polyethylene (XLPE). The cable polymers will be aged under various conditions e.g. elevated temperature, neutron/gamma irradiation, and water immersion. The testing using neutron/gamma radiation will be conducted at a National Laboratory.

SECTION C. Environmental Aspects / Potential Sources of Impact

The action will not create additional environmental impacts above those already occurring at the university or the national laboratory. The laboratory has all procedures in place to manage the radioactive sources that will be used.

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 of waste storage, disposal, recovery, or treatment facilities; 3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum 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 significance of 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.

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 small-scale pilot projects (generally less than 2 years) frequently conducted to verify a concept before demonstration actions, provided that 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.

Justification: The activity consists of bench scale R&D testing to aging polymers used in cables.		
Is the project funded by the American Recovery and Reinvestment Act of 2009 (Recovery Act)	Yes	No No
Approved by Jack Depperschmidt, DOE-ID NEPA Compliance Officer on 08/13/2014		