DOE-ID NEPA CX DETERMINATION

SECTION A. Project Title: Component and Technology Development for Advanced Liquid Metal Reactors – University of Wisconsin

SECTION B. Project Description

The University of Wisconsin proposes to study corrosion resistance in advanced materials, testing of new diffusion bonded heat exchanger technologies, development of O_2 detector, and fiber optic temperature measurements to help improve safety margins and design flexibility critical to improving the performance and economics of liquid metal cooled reactors.

SECTION C. Environmental Aspects / Potential Sources of Impact

The research would involve using laboratory equipment and materials currently used at the university. The action would not create additional environmental impacts above those already occurring 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 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 materials testing and sensor development for research purposes.

Is the	proj	ect funded b	y the Ai	merican	Recovery	y and Reinvestment	Act of 2009	(Recover	y Act)	Yes	🛛 No
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