DOE-ID NEPA CX DETERMINATION

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CX Posting No.: DOE-ID-15-038

☐ Yes ⊠ No

	OX 1 Osting No.: DOE-1D-13-030
SECTION A.	Project Title: Mechanistic and Validated Creep/Fatigue Predictions for Alloy 709 from Accelerated Experiments and Simulations – North Carolina State University
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SECTION B.	Project Description
	a State University proposes to develop mechanistic methods for predicting creep and creep-fatigue deformation rates of ed on accelerated in-situ and ex-situ tests, and mesoscale dislocation dynamics simulations.
SECTION C.	Environmental Aspects / Potential Sources of Impact
	a State University has procedures in place to handle any waste that will be generated through this project. The action ate 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.
requirements for waste storage, of and natural gas environmentally the action, and	gorical Exclusions (CXs) the proposed action must not: 1) threaten a violation of applicable statutory, regulatory, or permit or environmental, safety, and health, including requirements of DOE orders; 2) require siting and construction or major expansion of disposal, recovery, or treatment facilities; 3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; 4) adversely affect y sensitive resources. In addition, no extraordinary circumstances related to the proposal exist which would affect the significance of the action is not "connected" nor "related" (40 CFR 1508.25(a)(1) and (2), respectively) to other actions with potentially or gnificant impacts.
development p scale pilot pro construction of currently used	33.6 Siting, construction, modification, operation, and decommissioning of facilities for small-scale research and projects; conventional laboratory operations (such as preparation of chemical standards and sample analysis); and small-jects (generally less than 2 years) frequently conducted to verify a concept before demonstration actions, provided that or modification would be within or contiguous to a previously disturbed or developed area (where active utilities and I roads are readily accessible). Not included in this category are demonstration actions, meaning actions that are a scale to show whether a technology would be viable on a larger scale and suitable for commercial development.
Justification:	The activity consists of university-scale research aimed at investigating creep and creep fatigue rates of Alloy 709.

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 06/17/2015