### DOE-ID NEPA CX DETERMINATION

## SECTION A. Project Title: Infrastructure Support for In-Situ Temperature Dynamic Nano-mechanical Testing System for Mechanical Testing of Irradiated Structural Materials – University of Nevada, Reno

#### SECTION B. Project Description

The University of Nevada proposes to acquire a SEM Indenter, designed to work in conjunction with a scanning electron microscope (SEM). This equipment will allow the in-situ mechanical characterization of a variety of novel materials with unique mico/nano structures.

#### SECTION C. Environmental Aspects / Potential Sources of Impact

The action consists of purchasing equipment to be used in research and teaching. 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: B1.31 Installation or relocation and operation of machinery and equipment (including, but not limited to, laboratory equipment, electronic hardware, manufacturing machinery, maintenance equipment, and health and safety equipment), provided that uses of the installed or relocated items are consistent with the general missions of the receiving structure. Covered actions include modifications to an existing building, within or contiguous to a previously disturbed or developed area, that are necessary for equipment installation and relocation. Such modifications would not appreciably increase the footprint or height of the existing building or have the potential to cause significant changes to the type and magnitude of environmental impacts.

Justification: The activity consists of purchasing and installing equipment for teaching and research purposes.

Is the	proj	ect funded b	y the A	merican	Recovery	and Reinvestm	ent Act of 200	9 (Recover	y Act)	Yes	🛛 No
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Approved by Jason Sturm, DOE-ID NEPA Compliance Officer on 07/09/2018