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

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CX Posting No.: DOE-ID-16-024

SECTION A.	Project Title: Integral System Testing for Prismatic Block Core Design HTGR – Oregon State University
SECTION B.	Project Description

Oregon State University proposes to complete eight integral thermal-fluid tests investigating a range of gas reactor events. This is planned as a two-year project and will be conducted in a gas-reactor thermal-fluid facility that is already in operation. The overall objective of the test program will be to collect data that will fully cover the anticipated range of conditions relevant to loss of cooling in a modular high temperature gas reactor (HTGR).

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

Oregon State University 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 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 university-scale research aimed at investigating loss of coo	ling in a HTGR.
Is the project funded by the American Recovery and Reinvestment Act of 2009 (Recovery Act)	☐ Yes ⊠ No
Approved by Jack Depperschmidt, DOE-ID NEPA Compliance Officer on 06/30/2016	