## SECTION A. Project Title: Rensselaer Infrastructure Upgrade to Enhance Research and Education in Nuclear Engineering – Rensselaer Polytechnic Institute

## SECTION B. Project Description

The scope of the project includes purchasing a new Spark Plasma Sintering (SPS) system. The new equipment will be primarily used to advance the cutting edge research in the innovative materials design including fuel, structural, and waste form materials.

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

The action consists of funding the purchase of equipment and instruments for an existing program. 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 studying innovative materials design for research purposes.

Is the	projec	t funded b	y the A	merican	Recovery	and Reir	vestment	Act of 2009	(Recover	y Act)	Yes	🛛 No
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Approved by Jack Depperschmidt, DOE-ID NEPA Compliance Officer on 1/4/2012