DOE-ID NEPA CX DETERMINATION

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CX Posting No.: DOE-ID-14-009

	e: Gyrotron for Rapid Extreme Thermal Processing of Materi	ials for Nuclear Energy– Alfred
SECTION B. Project Description	scription	

Alfred University proposes to purchase and install a 94 GHz, 10 kW CW gyrotron with a liquid cryogen-free superconducting magnet along with appropriate power source and auxiliary systems to establish an extreme thermal processing capability.

SECTION C. Environmental Aspects / Potential Sources of Impact

The research would generate small amounts of chemical and hazardous waste. Alfred University has protocols and procedures in place for handling and disposing laboratory wastes safely. All students, staff, and faculty are trained on laboratory procedures, safety, and environmental compliance.

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 acquiring a gyrotron and conducting high temperature testi	ng for research purposes.
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 07/23/2014	