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| <u>U.S. DEPARTMENT OF COMMERCE</u> Bureau of Industry and Security <u>U.S. NUCLEAR REGULATORY COMMISSION</u> Office of Nuclear Materials Safety and Safeguards | | Date Received (Leave Blank) |
| ADDITIONAL PROTOCOL REPORT | | |
| FORM AP-D: NUCLEAR FUEL CYCLE-RELATED RESEARCH & DEVELOPMENT (NOT INVOLVING NUCLEAR MATERIAL) WITH U.S. GOVERNMENT INVOLVEMENT | | |
| Submit a separate form for each research & development (R&D) project at your site that <u>is</u> funded, specifically authorized or controlled by, or carried out on behalf of the government of the United States. | | |
| D.1 | Site Reporting Code (once assigned): | |
| D.2 | Project Number or ID: | |
| D.3 | Project Title: | |
| D.4 | Activity Reporting Status: New Activity Activity with no changes Activity with changes Ceased Activity | |
| D.5 | Identify building name(s)/number(s) (as it appears on the site map submitted with Form AP-B), and any additional information that more precisely defines where the reported activity occurs (e.g. room numbers): | |
| D.6 | Project Time Line: Start Date: _____ (Estimated)Project End Date: _____ | |
| D.7 | Project Category (Fuel Cycle Stage): Conversion of Nuclear Materials Enrichment of Nuclear Materials: Aerodynamic Chemical/Ion Exchange Electromagnetic Gas Centrifuge Gaseous Diffusion Laser Plasma Separation Other _____ Nuclear Fuel Fabrication Critical Facilities Nuclear Reactors Spent Fuel Management Installations Reprocessing of Nuclear Fuel Processing of Intermediate or High-Level Waste Containing Pu, U-233 or HEU | |
| D.8 | Project Level (Check only one box): Theoretical Analysis Experimental Conceptual Design Proof of Concept Demonstration Feasibility Study Prototype | |
| D.9 | Briefly Describe the R&D Activities: | |

**FORM AP-D (CONT.): NUCLEAR FUEL CYCLE-RELATED RESEARCH &
DEVELOPMENT (NOT INVOLVING NUCLEAR MATERIAL) WITH U.S.
GOVERNMENT INVOLVEMENT**

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| D.10 | Briefly State the Project Objective: |
| Principal U.S. Government Agency Involved: | |
| D.11 | Department/Agency: |
| | Nature of Involvement: |
| | Street Address: |
| | City: State: Zip Code: |
| | Point of Contact (POC): |
| | POC's Telephone Number: Fax Number: |
| Provide the name and location of all other sponsors and/or collaborators, both domestic and foreign, for this R&D project. If applicable, provide additional information on Form AP-P. | |
| D.12.1 | Organization Name: |
| | Street Address: |
| | City: State/Province: Country: |
| D.12.2 | Organization Name: |
| | Street Address: |
| | City: State/Province: Country: |
| D.12.3 | Organization Name: |
| | Street Address: |
| | City: State/Province: Country: |
| D.13 | Check this box if a Continuation Form (AP-P) has been used to provide additional information for any of the above questions. |

FORM AP-D: Nuclear Fuel Cycle-Related R&D (Not Involving Nuclear Material) With U.S. Government Involvement

Reporting requirements are set forth in 10 CFR Parts 75 and 110 of the U.S. Nuclear Regulatory Commission (NRC) Regulations.

INSTRUCTIONS:

Submit a separate Form AP-D for each reportable nuclear fuel cycle-related R&D activity not involving nuclear material at your site that is funded by, authorized by, controlled by, or carried out on behalf of the U.S. Government. Reportable R&D includes technology development; safety related studies and computer modeling that extends knowledge resulting from theoretical or basic scientific research into a nuclear fuel cycle-related application are reportable activities. Reportable R&D activities do not include theoretical or basic scientific research; industrial radioisotope applications; medical, hydrological, and agricultural applications; health and environmental effects; or improved maintenance.

Question D.1 Site Reporting Code: A site code will be assigned and reported to you once your Initial report is received by BIS. The site reporting code must appear on all future forms pertaining to this site.

Questions D.2 and D.3 Project Number or ID and Project Title: Provide the R&D project number or ID assigned by project sponsor or organization conducting the activity, and the R&D project title.

Question D.4 Activity Reporting Status: Indicate the current reporting status by checking the appropriate box (i.e., “New Activity” to report an activity for the first time, “Activity with changes” or “Activity with no changes” if a report for this activity was previously submitted, or “Ceased Activity” for an activity that ended during the reporting year and will not be reported in future years). If the information previously reported for this specific activity has not changed, you are not required to complete the rest of this form, instead check the “Activity with no changes” box and submit along with Forms AP-A, AP-B, AP-C, and any other required activity forms.

Question D.5 Building Information: Provide the name or number for the building, as it appears on the site map submitted with Form AP-B, and, if needed, room number(s) and any additional information that more precisely defines where the reported activity occurs. This information will be used to link the building with the nuclear-related activities that are performed within.

Question D.6 Project Start and End Dates: Provide start and end dates for this project.

Question D.7 Project Category (Fuel Cycle Stage): Indicate the appropriate fuel cycle stage category and, if applicable, sub-category pertaining to this particular project by checking the appropriate box. Each fuel cycle stage category and subcategory identifies reportable R&D activities. If there is a question about whether or not certain information is reportable, contact the NRC for clarification.

Question D.8 Project Level: Indicate the project level that best describes the stage of development of the technology in the R&D project by checking the appropriate box.

Question D.9 Description of R&D Activities: Briefly describe the work that is being performed (e.g., design and testing of an induction-coil nuclear fuel pellet sintering oven). Where the work is part of a larger program, please identify that larger program.

Question D.10 Project Objective: Briefly describe the objective of the R&D project in the space provided (e.g., design of a sintering oven that meets a variety of specified temperature control requirements).

Question D.11 Principal U.S. Government Agency Involved: Identify the primary U.S. Government department or agency that this R&D project is funded by, authorized by, controlled by, or conducted on behalf of, its address and contact information for a point of contact at the department or agency.

**FORM AP-D: Nuclear Fuel Cycle-Related R&D (Not Involving Nuclear Material)
With U.S. Government Involvement (Continued)**

Questions D.12.x Non-U.S. Government sponsors: Provide the name and address of all non-U.S. Government sponsors and collaborators (both foreign and domestic) of the program, including any foreign governments or organizations. If the site is wholly or partially owned by a foreign organization, that foreign organization should also be listed. Use Form AP-P as a continuation form for additional non-U.S. Government Sponsors and collaborators.

Question D.13 Continuation Form: Check this box if a Continuation Form, Form AP-P, has been used to provide additional information for any of the questions on Form AP-D.