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(Previous Editions Obsolete)

U.S. DEPARTMENT OF ENERGY

ENVIRONMENTAL QUESTIONNAIRE

I. BACKGROUND

The Department of Energy (DOE) National Environmental Policy Act (NEPA) Implementing Procedures (10 CFR 1021) require careful consideration of the potential environmental consequences of all proposed actions during the early planning stages of a project or activity. DOE must determine at the earliest possible time whether such actions will require either an Environmental Assessment or an Environmental Impact Statement, or whether they qualify for a Categorical Exclusion. To comply with these requirements, an Environmental Questionnaire must be completed for each proposed action to provide DOE with the information necessary to determine the appropriate level of NEPA review.

II. INSTRUCTIONS

Separate copies of the Environmental Questionnaire should be completed by the principal proposer and appropriate proposer's subcontractor. In addition, if the proposed project includes activities at different locations, an independent questionnaire should be prepared for each location. Supporting information can be provided as attachments.

In completing this Questionnaire, the proposer is requested to provide specific information and quantities, when applicable, regarding air emissions, wastewater discharges, solid wastes, etc., to facilitate the necessary review. The proposer should identify the location of the project and specifically describe the activities that would occur at that location. In addition, the proposer will be required to submit an official copy of the project's statement of work (SOW) or statement of project objective (SOPO) that will be used in the contract/agreement between the proposer and DOE.

III. QUESTIONNAIRE

A. PROJECT SUMMARY

1. Solicitation/Project Number: DE-FOA-0000013
2. Proposer: County of Stafford
3. Principal Investigator: Tammi W. Ellis
Telephone Number: 540-658-8618
4. Project Title: Energy Efficiency Building Retrofits
5. Duration: 12 months
6. Location(s) of Performance (City/Township, County, State): 1300 Courthouse Road, County of Stafford, VA

7. Identify and select checkbox with the predominant project work activities under Group A-7b or A-7c.

Group A-7b

- Work or project activities does NOT involve new building/facilities construction and site preparation activities. This work typically involves routine operation, modification, and retrofit of existing utility and transportation infrastructure, laboratories, commercial buildings/properties, offices and homes, test facilities, factories/power plants, vehicles test stands and components, refueling facilities, greenspace infrastructure, or other existing facilities.

Group A-7c

Work or project activities typically involves major building or facility construction, site preparation; the installation, replacement, or major modifications of energy system prototypes and infrastructure, access right-of-ways and roads; utility, greenspace, and transportation infrastructure, vehicle test facilities; commercial buildings/properties, fuel refinery/mixing facilities, factories/power plants; and other types of energy efficiency/conservation related systems, structures, and facilities. This work can require new or modified regulatory permits, environmental sampling and monitoring requirements, master planning, public involvement, and environmental impact review.

Other types of work or project activities not listed. (please describe):

8. Summarize the objectives of the proposed work. List activities planned at the location as covered by this Environmental Questionnaire. This work consists of upgrades and conversions to the controls serving the existing HVAC equipment in the Government Center. This includes (3) large Air Handling Units (AHU), (2) gas fired hot water boilers and pumps, building exhaust systems, and (104) Variable Air Volume Terminal Boxes. Also, in the Courts Building there are (11) Air Handling Units and the building exhaust systems that will have their controls upgraded along with (38) Variable Air Volume Terminal Boxes, and (13) Constant Volume Reheat Coils. The Porter Library will have the existing controls upgraded for (2) Air Handling Units, (24) Variable Air Volume Terminal Boxes, (4) zone dampers, a central chiller plant and a central boiler plant.

To accomplish the advanced control algorithms that need to be placed into operation, there will be CO2 sensors, temperature, and humidity sensors installed to control building conditions while reducing energy consumption. Local occupancy sensors will be used to control ventilation rates, temperature settings, and in some areas, lighting. Outdoor lighting will be controlled and the electrical utility meter will be monitored to implement electrical demand limiting for the building.

9. List all other locations where proposed work or project would be performed by project's proposer and subcontractors. None

10. Identify major project operation related materials and waste that would be used, consumed, and produced by this project or activity. None

11. Provide a brief description of the project location (physical location, surrounding area, adjacent structures). The project is located at three locations; the Government Center, Judicial Center and public library. The Government Center and Judicial Center are surrounded by other government office buildings, commercial and residential areas. The public library is surrounded by residential development.

12. Attach a site plan or topographic map of the project work area.

B. ENVIRONMENTAL IMPACTS

This section is designed to obtain information for objectively assessing the environmental impacts of a proposed project. NEPA procedures require evaluations of possible effects (including land use, energy resource use, natural, historic and cultural resources, and pollutants) from proposed projects on the environment.

1. Land Use

a. Characterize present land use where the proposed project would be located.

- | | | | |
|-----------------------------------|--|---|--|
| <input type="checkbox"/> Urban | <input type="checkbox"/> Industrial | <input type="checkbox"/> Commercial | <input type="checkbox"/> Agricultural |
| <input type="checkbox"/> Suburban | <input type="checkbox"/> Rural | <input type="checkbox"/> Residential | <input type="checkbox"/> Research Facilities |
| <input type="checkbox"/> Forest | <input type="checkbox"/> University Campus | <input checked="" type="checkbox"/> Other | |

- b. Describe how land use would be affected by planned construction and project activities.
 No construction would be anticipated for this project.
- c. Describe any plans to reclaim/replant areas that would be affected by the proposed project.
 No land areas would be affected.
- d. Would the proposed project affect any unique or unusual landforms (e.g., cliffs, waterfalls, etc.)?
 No Yes (describe)
- e. Would the proposed project be located in or near a national park or wilderness area?
 No Yes (describe)

If project work activities falls under item A-7b; then proceed directly to question B.6 (Atmospheric Conditions/Air Quality) and continue to fill out questionnaire.

If project work falls under item A-7c; then proceed directly below to question B.2 (Construction Activities and/or Operations) and continue to fill out questionnaire.

2. Construction Activities and/or Operations

- a. Identify any roads, trails, or utility right of ways that traverse the proposed site or will be constructed and clearly mark them on project site maps.
 None
- b. Would the proposed project require the construction of settling ponds?
 No Yes (describe and identify location, and estimate surface area disturbed)
- c. Would the proposed project affect any existing body of water?
 No Yes (describe)
- d. Would the proposed project be located in or impact a floodplain or wetland?
 No Yes (describe)
- e. Would the proposed project be likely to cause runoff/sedimentation/erosion?
 No Yes (describe)

3. Vegetation and Wildlife Resources

- a. Identify any State- or Federal-listed endangered or threatened plant or animal species affected by the proposed project.
 None
- b. Would any foreign substances/materials be introduced into ground or surface waters, or other earth/geologic resource because of project activities? Would these foreign substances/materials affect the water, soil, and geologic resources?
 No Yes (describe)
- c. Would any migratory animal corridors be impacted or disrupted by the proposed project?
 No Yes (describe)

4. Socioeconomic and Infrastructure Conditions.

- a. Would local socio-economic changes result from the proposed project?
 No Yes (describe)
- b. Would the proposed project generate increased traffic use of roads through local neighborhoods, urban or rural areas?
 No Yes (describe)
- c. Would the proposed project require new transportation access (roads, rail, etc.)? Describe location, impacts, costs.
 No Yes (describe)
- d. Would any new transmission lines and/or power line right-of-ways be required?
 No Yes (describe location, voltage, and length of line)

5. Historical/Cultural Resources

- a. Describe any historical, archeological, or cultural sites in the vicinity of the proposed project; note any sites included on the National Register of Historic Places.
 None
- b. Would construction or operational activities planned under the proposed project disturb any historical, archeological, or cultural sites?
 No planned construction No historic sites Yes (describe)
- c. Would the proposed project interfere with visual resources (e.g., eliminate scenic views) or alter the present landscape?
 No Yes (describe)

For all proposed project work activities identified under item A-7b, respond to item B6 directly below and continue filling out environmental questionnaire.

6. Atmospheric Conditions/Air Quality

- a. Identify air quality conditions in the immediate vicinity of the proposed project with regard to attainment of National Ambient Air Quality Standards (NAAQS). This information is available under the NAAQS tables from the U.S. EPA Air and Radiation Division.

	<u>Attainment</u>	<u>Non-Attainment</u>
O ₃	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SO _x	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PM ₁₀	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CO	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NO ₂	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lead	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- b. Would proposed project require issuance of new or modified major source air quality permits?
 No Yes (describe)
- c. Would the proposed project be in compliance with the National Emissions Standards for Hazardous Air Pollutants?
 No (explain) Yes
- d. Would the proposed project be classified as either a New Source or a major modification to an existing source?
 No Yes (describe)

- e. Would the proposed project be in compliance with the New Source Performance Standards?
 Not Applicable No (explain) Yes
- f. Would the proposed project be subject to prevention of significant deterioration air quality review?
 Not applicable No (explain) Yes (describe)
- g. What types of air emissions, including fugitive emissions, would be anticipated from the proposed project?
 None
- h. Would any types of emission control or particulate collection devices be used?
 No Yes (describe, including collection efficiencies)
- i. If no control devices are used, how would emissions be vented? No emissions

7. Hydrologic Conditions/Water Quality

- a. What is the closest body of water to the proposed project area and what is its distance from the project site?
 Government Center - Unnamed Tributary to Austin Run - .5 miles
 Porter Library - Whitsons Run - .5 miles
- b. What sources would supply potable and process water for the proposed project?
 None needed
- c. Quantify the daily or annual amount of wastewater that would be generated by the proposed project.
 None
- d. Identify the local treatment facility that would receive wastewater from the proposed project.
 No discharges to local treatment facility
- e. Describe how wastewater would be collected and treated.
 N/A
- f. Would any run-off or leachates be produced from storage piles or waste disposal sites?
 No Yes (describe source)
- g. Would project require issuance of new or modified water permits to perform project work or site development?
 No Yes (describe)
- h. Where would wastewater effluents from the proposed project be discharged?
 No wastewater produced
- i. Would the proposed project be permitted to discharge effluents into an existing body of water?
 No Yes (describe water use and effluent impact)
- j. Would a new or modified National Pollutant Discharge Elimination System (NPDES) permit be required?
 No Yes (describe)
- k. Would the proposed project adversely affect the quality or movement of groundwater?
 No Yes (describe)

8. Solid and Hazardous Wastes

V. REVIEW AND APPROVAL BY DOE

I hereby certify that I have reviewed the information provided in this questionnaire, have determined that all questions have been appropriately answered, and judge the responses to be consistent with the efforts proposed.

PROJECT MANAGER:

SIGNATURE: _____

DATE: _____ / _____ / _____
month day year

TYPED NAME: _____