NETL F 451.1-1/3 Revised: 12/3/2014 Reviewed: 12/3/2014 (Previous Editions Obsolete)

U.S. DEPARTMENT OF ENERGY

ENVIRONMENTAL QUESTIONNAIRE

I. **INSTRUCTIONS**

The proposer shall prepare this Environmental Questionnaire (EQ) as accurately and completely as possible. Supporting information can be provided as attachments. The proposer must identify the location of the project and specifically describe the activities that would occur at that location. The proposer must provide specific information and quantities, regarding air emissions, wastewater discharges, solid wastes, etc., to facilitate the necessary review. In addition, the proposer must submit with this EQ a FINAL 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 the U.S Department of Energy (DOE).

[.	QUESTIONNAIRE
	PROJECT SUMMARY
	Solicitation/Project Number: Proposer:
	This Environmental Questionnaire pertains to a: Recipient or Prime Contractor Sub-recipient or Subcontractor
	Principal Investigator: Telephone Number:
	Project Title:
	Expected Project Duration:
•	Location of Activities covered by this Environmental Questionnaire: (City/Township, County, State): List the full scope of activities planned (only for the location that is the subject of this Environmental Questionnaire).
	List the full scope of activities planned (only for the location that is the subject of this Environmental Questionnaire). List all other locations where work would be performed by the primary contractor of the project and subcontractor(s). Each of the following must have an individual Environmental Questionnaire.
	List the full scope of activities planned (only for the location that is the subject of this Environmental Questionnaire). List all other locations where work would be performed by the primary contractor of the project and subcontractor(s).
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	List the full scope of activities planned (only for the location that is the subject of this Environmental Questionnaire). List all other locations where work would be performed by the primary contractor of the project and subcontractor(s). Each of the following must have an individual Environmental Questionnaire. Subcontractor or sub-recipient Location of activities for this project

Group A

Routine administrative, procurement, training, and personnel actions. Contract activities/awards for management support, financial assistance, and technical services in support of agency business, programs, projects, and goals. Literature searches and information gathering, material inventories, property surveys; data analysis, computer modeling, analytical reviews, technical summary, conceptual design, feasibility studies, document preparation, data dissemination, and paper studies. Technical assistance including financial planning, assistance, classroom training, public meetings, management training, survey participation, academic contribution, technical consultation, and stakeholders surveys. Workshop and conference planning, preparation, and implementation which may involve promoting energy efficiency, renewable energy, and energy conservation.

STOP! If all work activities related to this project can be classified and described within categories under Group A, proceed directly to Section III CERTIFICATION BY PROPOSER. No additional information is required. If project work activities are described in either Group(s) B or C; then continue filling out questionnaire.

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Group B

Laboratory Scale Research, Bench Scale Research, Pilot Scale Research, Proof-of-Concept Scale Research, or Field Test Research. Work <u>DOES NOT</u> involve new building/facilities construction and site excavation/groundbreaking activities. This work typically involves routine operation of <u>existing</u> laboratories, commercial buildings/properties, offices and homes, project test facilities, factories/power plants, vehicles test stands and components, refueling facilities, utility systems, or other existing structures/facilities. Work will NOT involve major change in facilities missions and operations, land use planning, new/modified regulatory/operating permit requirements. Includes work specific to routine DOE Site operations and Lab research work activities, but NOT building construction and site preparation. DOE work typically involves laboratory facilities and lab equipment operations, buildings and grounds management activities; and buildings and facilities maintenance, repairs, reconfiguration, remodeling, equipment use and replacement.

Group C

Pilot Test Facilities Construction, Pilot Scale Research, Field Scale Demonstration, or Commercial Scale Application. Work typically involves facility construction, site preparation/excavation/groundbreaking, and/or demolition. This work would include construction, retrofit, replacement, and/or major modifications of laboratories, test facilities, energy system prototypes, and power generation infrastructure. Work may also involve construction and maintenance of utilities system right-of-ways, roads, vehicle test facilities, commercial buildings/properties, fuel refinery/mixing facilities, refueling facility, power plants, underground wells, and pipelines, and other types of energy research related facilities. This work may require new or modified regulatory permits, environmental sampling and monitoring requirements, master planning, public involvement, and environmental impact review. Includes work specific to DOE Site Operations and Lab operation activities involving building and facilities construction, replacement, decommissioning/demolition, site preparation, land use changes, or change in research facilities mission or operations.

B. PROPOSED PROJECT ALTERNATIVES

1. If applicable, list any project alternatives considered to achieve the project objectives.

C. PROJECT LOCATION

- 1. Provide a brief description of the project location (physical location, surrounding area, adjacent structures).
- 2. **Attach** a project site location map of the project work area.

D. ENVIRONMENTAL IMPACTS

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.								
		Urban		Industrial		Commercial		Agricultural	
		Suburban		Rural		Residential		Research Facilities	
		Forest		University Campus		Other:			

b. Identify the total size of the facility, structure, or system and what portion would be used for the proposed project.

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c.	Describe planned construction, installation, and/or demolition activities, i.e., roads, utilities system right-of-ways, parking lots, buildings, laboratories, storage tanks, fueling facilities, underground wells, pipelines, or other structures. □ No construction would be anticipated for this project.
d.	Describe how land use would be affected by operational activities associated with the proposed project. □ No land areas would be affected.
e.	Describe any plans to reclaim areas that would be affected by the proposed project. □ No land areas would be affected.
f.	Would the proposed project affect any unique or unusual landforms (e.g., cliffs, waterfalls, etc.)? □ No □ Yes (describe)
g.	Would the proposed project be located in or near local, state, or federal parks; forests; monuments; scenic waterways; wilderness; recreation facilities; or tribal lands? No Yes (describe)
2.	Construction Activities and/or Operation
a.	Identify project structure(s), power line(s), pipeline(s), utilities system(s), right-of-way(s) or road(s) that will be constructed and clearly mark them on a project site map or topographic map as appropriate.
b.	Would the proposed project require the construction of waste pits or settling ponds? □ No □ Yes (describe and identify location, and estimate surface area disturbed)
c.	Would the proposed project affect any existing body of water?
d.	Would the proposed project impact a floodplain or wetland?
e.	Would the proposed project potentially cause runoff/sedimentation/erosion? No Yes (describe)
f.	Would the proposed project include activities located on perma-frost, near fault zones, or involve fracturing, well drilling, geologic stimulation, sequestration, active seismic data collection, and/or deepwater operations? □ No □ Yes (describe)

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۶.	facility decommissioning or disposition of equipment/materials; or management of radioactive wastes/materials?
	□ No □ Yes (describe)
3.	Biological Resources
a.	Identify any State or Federally listed endangered or threatened plant or animal species potentially affected by the propose project. None
b.	Would any designated critical habitat be affected by the proposed project?
c.	Describe any impacts that construction would have on any other types of sensitive or unique habitats. □ No planned construction □ No habitats □ None □ Impact (describe)
d.	Would any foreign substances/materials be introduced into ground or surface waters, soil, or other earth/geologic resource because of project activities? How would these foreign substances/materials affect the water, soil, biota, and geologic resources?
e.	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?
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 the proposed project create a significant increase in local energy usage? □ No □ Yes (describe)

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Would cultural	ional Register of Historiconstruction or operation of State Historic Preserva	ric Places. onal activities planned construction	□ None lanned under the proon □ No historic	roposed project disturt sites Yes (dese	project; note any sites includ b any historical, archaeologic cribe) No Impact (discu							
Has the	l sites? No pla State Historic Preserva	nned construction	on □ No historic	sites Yes (desc								
Would		ation Office bee	n contacted with re	gord to this project?								
	the proposed project in		Has the State Historic Preservation Office been contacted with regard to this project?									
		terfere with visuescribe)	ual resources (e.g., e	eliminate scenic view	vs) or alter the present landsca							
	the proposed project be nal purposes? Describe				to be sacred, or lands used fo area.							
Atmos	pheric Conditions/Air	Quality										
Ambiei		ls (NAAQS). Tl	his information is a	vailable under the Gre	egard to attainment of Nationa een Book Non-Attainment Ar							
			Attainment	Non-Attainment]							
		O ₃ - 1 Hour										
		O ₃ - 8 Hour			1							
		SO_x										
		PM - 2.5			-							
		PM - 10										
		СО			-							
			 		_							
	-	NO_2										
		NO ₂ Lead										

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d.

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d.	Would the proposed □ No	d project be classified Yes (describe)	as either a New Source or	a major modification to a	n existing source?
e.			gitive emissions, would be hissions for the project?	anticipated from the prop	posed project, and what
			Maximum per Year	Total for Project	1
		\Box SO _x		J .	1
		\square NO _x			
		□ PM - 2.5			
		□ PM - 10			7
		□ СО			
		□ CO ₂			
		□ Lead			
		\Box H_2S			
		□ Organic solver	nt vapors or other volatile of	rganic compoundsList:	
		□ Hazardous air	pollutants List:		_
		□ Other List:			
		□ None			
f.	Would any types of □ No		particulate collection device acluding collection efficien		
g.	How would emission	ons be vented?			
7.	Hydrologic Condi	tions/Water Quality			
a.	What nearby water	bodies may be affecte	ed by the proposed project?	Provide distance(s) from	n the project site.
b.	What sources would	d supply potable and p	process water for the propo	sed project?	

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Gallons/year

Gallons/day

c. Quantify the wastewater that would be generated by the proposed project.

Non-contact cooling water

	□ Process water
	□ Sanitary
	□ Other describe:
	□ None
d.	What would be the major components of <u>each</u> type of wastewater (e.g., coal fines)?
e.	Identify the local treatment facility that would receive wastewater from the proposed project. □ No discharges to local treatment facility
f.	Describe how wastewater would be collected and treated.
g.	Would any run-off or leachates be produced from storage piles or waste disposal sites? □ No □ Yes (describe source
h.	Would project require issuance of new or modified water permits to perform project work or site development activities? □ No □ Yes (describe)
i.	Where would wastewater effluents from the proposed project be discharged?
j.	Would the proposed project be permitted to discharge effluents into an existing body of water? □ No □ Yes (describe water use and effluent impact)
k.	Would a new or modified National Pollutant Discharge Elimination System (NPDES) permit be required? □ No □ Yes (describe)
1.	Would the proposed project adversely affect the quality or movement of groundwater? \[\subseteq \text{No} \text{Ves (describe)} \]

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m.	Would the proposed project require issuance of an Underground Injection (Control (UIC) permit?
	□ No □ Yes (describe)	
n.	Would the proposed project be located in or near a wellhead protection are	a, drinking water protection area, or above a
	sole source aquifer or underground source of drinking water (USDW)? □ No □ Yes (describe)	
	1 10 1 10 (describe)	
8.	Solid and Hazardous Wastes	
	Identify and action to an act of the control of the	:d
a.	Identify and estimate wastes that would be generated from the project. Sol solid, or contained gaseous material that is discarded, has served its intended	
	product (See EPA Municipal Solid Waste and Municipal Solid Waste by St	
		Annual Quantity
	☐ Municipal solid waste (e.g., paper, plastic, etc.)	11main Quantity
	□ Coal or coal by-products	
	□ Other Identify:	
	□ Hazardous waste – Identify:	
	□ None	
b.	Would project require issuance of new or modified solid waste and/or haza work activities? □ No □ Yes (explain)	ardous waste related permits to perform project
c.	How and where would solid waste disposal be accomplished?	
	□ None generated	
	☐ On-site (identify and describe location)	
	□ Off-site (identify location and describe facility and treatment)	
.1	Here were like weather for dispersal he topper entered?	
d.	How would wastes for disposal be transported?	
e.	Describe hazardous wastes that would be generated, treated, handled, or sto	ored under this project. Hazardous waste
	information can be found at <u>EPA Hazardous Waste</u> website.	
f.	How would hazardous or toxic waste be collected and stored? □ None	e used or produced

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g.	If hazardous wastes would require off-site disposal, have arrangements been made with a certified TSD (Treatment, Storage, and Disposal) facility?											
	□ Not required □ Arrangements not yet made □ Arrangements made with a certified TSD facility (identify)											
9.	Health/Safety Factors											
a.	Identify hazardous or toxic materials that would be used in the proposed project. □ None □ Hazardous or toxic materials that would be used (identify):											
b.	Describe the potential impacts of this project's hazardous materials on human health and the environment. □ None											
c.	Would there be any special physical hazards or health risks associated with the project? \Box No \Box Yes (describe)											
d.	Does a worker safety program exist at the location of the proposed project?											
e.	Would additional safety training be necessary for any new laboratory, equipment, or processes involved with the project? □ No □ Yes (describe)											
f.	Describe any increases in ambient noise levels to the public from construction and operational activities. □ None □ Increase in ambient noise level (describe)											
g.	Would project construction result in the removal of natural or other barriers that act as noise screens? □ No construction planned □ No □ Yes (describe)											
h.	Would hearing protection be required for workers? □ No □ Yes (describe)											
10.	Environmental Restoration and/or Waste Management											
a.	Would the proposed project include CERCLA removals or similar actions under RCRA or other authorities? □ No □ Yes (describe)											

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b.	Would the proposed project include siting, construction treatment facilities or pilot-scale waste stabilization as					cale w □ N	
c.	Would the proposed project involve operations of env □ No □ Yes (describe)	riron	mental m	onitori	ng and control sys	stems	?
d.	Would the proposed project involve siting, construction hazardous waste for 90 days or less?	on, c No	-		ommissioning of a scribe)	a facil	ity for storing packaged
Е.	REGULATORY COMPLIANCE						
1.	For the following laws, describe any existing permits, agencies, contacts, etc., that would be required for the				rmits, manifests, r	respon	nsible authorities or
a.	Resource Conservation and Recovery Act (RCRA): Describe:		None		New Required		Modification Required
b.	Comprehensive Environmental Response, Compensat		and Liab ation Req	•	ct (CERCLA):		
c.	Toxic Substance Control Act (TSCA): Describe:		None		New Required		Modification Required
d.	Clean Water Act (CWA): Describe:		None		New Required		Modification Required
e.	Underground Storage Tank Control Program (UST): Describe:		None		New Required		Modification Required
f.	Underground Injection Control Program (UIC): Describe:		None		New Required		Modification Required
g.	Clean Air Act (CAA): Describe:		None		New Required		Modification Required

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h.	Endangered Species Act (ESA): Describe:		None		New Required		Modification Required
i.	Floodplains and Wetlands Regulations: Describe:		None		New Required		Modification Required
j.	Fish and Wildlife Coordination Act (FWCA): Describe:		None		New Required		Modification Required
k.	National Historic Preservation Act (NHPA): Describe:		None		New Required		Modification Required
1.	Coastal Zone Management Act (CZMA): Describe:		None		New Required		Modification Required
2.	Identify any other environmental laws and regulation for this project, and describe the permits, manifests.					ompl	iance would be necessary
F.	DESCRIBE ANY ISSUES THAT WOULD GEN PROPOSED PROJECT. None	NERA	TE PUBI	LIC C	ONTROVERSY 1	REG.	ARDING THE
G.	WOULD THE PROPOSED PROJECT PRODU DEVELOPMENTS PLANNED OR UNDERWA No					, OR	ARE OTHER MAJOR
Н.	SUMMARIZE THE SIGNIFICANT IMPACTS None (provide supporting detail)		Γ WOUL t impacts			E PF	ROPOSED PROJECT.

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I. PROVIDE A DESCRIPTION OF HOW THE PROJECT WOULD BE DECOMMISSIONED, INCLUDING THE DISPOSITION OF EQUIPMENT AND MATERIALS.

Signature:	Date (mm/dd/yyyy):
Typed Name:	
Title:	
Organization:	
IV. REVIEW AND APPROVAL BY DOE	
I hereby certify that I have reviewed the information appropriately answered, and judge the responses to	on provided in this questionnaire, have determined that all questions have been be consistent with the efforts proposed.
DOE Project Manager	
Signature:	Date (mm/dd/yyyy):
Tunad Nama	