DOE/CX-00023



U.S. DEPARTMENT OF ENERGY OFFICE OF RIVER PROTECTION

NEPA REVIEW SCREENING FORM

I. Project Title:			
Phase II, Determination of uranium in groundwater			
II. Project Description and Location (including Time Period Over which proposed action will occur and Project Dimensions – e.g. acres displaced/disturbed, excavation length/depth,			
etc.): The objective of this project is to design, build, deploy and test a field deployable instrument that can perform near-real time, fully autonomous measurements of uranium in contaminated groundwater plumes. The approximate dimensions of the deployable uranium analyzer are 2 x 2 x 4 feet. The system periodically samples water from existing aquifer tubes, and the samples are analyzed for uranium concentration using a colorimetric chelation system. Analytical results are sent wirelessly to a remote user. This activity is being funded by DOE as part of a technology development project.			
PNNL proposes to test the device at the integrated field-scale subsurface research challenge site, located north of the 300 Area near the footprint of the south process pond. It involves placement of a uranium detector next to an existing site trailer near the location of an existing cluster of aquifer tubes C6341, C6342, & C6343. A small enclosed pump box (booster pump) will be placed near the aquifer tubes so water can be "pushed" uphill via tubing routed through a conduit. The pump box will sit on the ground surface in the cobble beach. It will have a footprint of approximately 24 x 18 inches. Access to this pump location will be by previously established trails. No excavation is expected to be required.			
The project will run an outdoor extension cord from the power source in the existing trailer to the instrument and ¼ inch tubing will run from the aquifer tubes to the instrument.			
The project will be funded for approximately 2 years. However, it is possible that DOE will continue funding the work in order to continue remote monitoring of the uranium concentration fluctuations in the aquifer tubes.			
III. Reviews (if applicable)			
Biological Review Report #2010-300-038			
Cultural Review Report #2010-300-038			
NPCE Determination: YES ⊠ NO □			
IV. Existing NEPA Documentation (see Provisions 6.2.3 and 6.2.4 of NEPA Determination Procedure) YES NO			
Is the proposed action evaluated in a previous EA, EIS, or under CERCLA?			
If "no," proceed to Section V. If yes, List EA, EIS, or CERCLA Document(s) Title and Number:			

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V. Sitewide Categorical Exclusion (see Provision 6.2.5 of NEPA		
Determination Procedure)	YES	NO
Does the proposed action fall within the scope of a Hanford Sitewide Categorical Exclusion?		
List Sitewide Categorical Exclusion to be applied and complete Sitewide Cate Exclusion Criteria:	gorical	
Sitewide Categorical Exclusion Criteria	YES	NO
Are there extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal?		П
Is the action connected to other actions with potentially significant impacts (see 40 CFR 1508.25(a)(1)) or result in cumulatively significant impacts (see 40 CFR 1508.25(a)(2))?		
Does the proposed action impact sensitive species or their habitats?		
Does the action involve or disturb the Hanford Reach National Monument, Rattlesnake Mountain, Gable Mountain, Gable Butte or other Traditional Cultural Properties or properties of historic, archaeological or architectural significance, or occur within one-fourth mile of the Columbia River?		
If "no" to all Sitewide Categorical Exclusion Criteria questions above, completed and provide electronic copy of Initiator/ECO signed NRSF to DOE NCO for in (see Provision 6.2.6 of NEPA Determination Procedure). If "yes" to any of the Sitewide Categorical Exclusion Criteria questions above, appropriate explanatory information and provide NRSF to DOE NCO; DOE in NEPA Review Screening Process—Step 1 (see Provision 6.3 of NEPA Determination and provide NRSF to DOE NEPA Determination and Determination	nformati . attach initiates	ion
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Executive Orders?	and the state of the second state of the second		and the state of t					
Does the proposed action require siting, construction, or major expansion of waste storage, disposal, recovery, or treatment facilities?					\boxtimes			
Does the proposed action disturb hazardous substances, pollutants, contaminants,								
or CERCLA-excluded petroleum and natural gas products that pre-exist in the				\boxtimes				
environment such tha	t there would be uncontroll	ed or unpermitted i	eleases?		ternacional de displayar y child y group an and			
Does the proposed ac	tion adversely affect enviro	nmentally sensitive	e resources?		\boxtimes			
	ry circumstances related to		nay affect the		\boxtimes			
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CFR 1021.211)?	significant impacts (not pr	echaded by 40 Cris	1300/1 01 10					
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	onic copy of signed NRSI							
Provision 6.3.4 of th	e NEPA Determination P	rocedure.						
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**************************************	Name (Printed)							
	LAGERRA (T. T. MINGGEN)	Sign	ature	7 T)ate			
Initiator	Matt O'Hara	Sign	ature		Date 8/2010			
Initiator Cognizant	100 m h - be an antitude by the state of the	Sign	ature					
Cognizant Environmental	Matt O'Hara		ature	9/2	8/2010			
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Cognizant Environmental	Matt O'Hara		ature Vobs	9/2	8/2010			
Cognizant Environmental Compliance Officer	Matt O'Hara Regan Weeks		ature Vobs	9/2	8/2010			
Cognizant Environmental Compliance	Matt O'Hara Regan Weeks		Nobs.	9/2	8/2010			
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ATTACHMENT B

ELIGIBILITY CRITERIA

Would the Proposed Action:

Threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, including requirements of DOE and/or Executive Orders?

Require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities (including incinerators), but the proposal may include categorically excluded waste storage, disposal, recovery, or treatment actions?

Disturb hazardous substances, pollutants, contaminants, or CERCLAexcluded petroleum and natural gas products that preexist in the environment such that there would be uncontrolled or unpermitted releases?

Adversely affect environmentally sensitive resources? An action may be categorically excluded if, although sensitive resources are present on a site, the action would not adversely affect those resources (e.g., construction of a building with its foundation well above a sole-source aquifer or upland surface soil removal on a site that has wetlands). Environmentally sensitive resources include, but are not limited to:

- (i) Property (e.g., sites, buildings, structures, objects) of historic, archeological, or architectural significance designated by Federal, state, or local governments or property eligible for listing on the National Register of Historic Places
- (ii) Federally-listed threatened or endangered species or their habitat (including critical habitat), Federally- proposed or candidate species or their habitat, or state-listed endangered or threatened species or their habitat
- (iii) Wetlands regulated under the Clean Water Act (33 U.S.C. 1344) and floodplains
- (iv) Areas having a special designation such as Federally- and statedesignated wilderness areas, national parks, national natural landmarks, wild and scenic rivers, state and Federal wildlife refuges, and marine sanctuaries
- (v) Prime agricultural lands
- (vi) Special sources of water (such as sole-source aquifers, wellhead protection areas, and other water sources that are vital in a region), and

(vii) Tundra, coral reefs, or rain forests.

Comment or Explanation:

No applicable laws, regulations, or orders would be violated by the proposed action.

Wastes generated during the proposed action would not require expansion/modification of existing waste management facilities.

No. There would be no uncontrolled or unpermitted releases.

None of the environmentally sensitive resources listed (i through vii) will be adversely affected.