

RL-721  
REV 4

### NEPA REVIEW SCREENING FORM

Document ID Number:

DOE/CX-00081

**I. Project Title:**

300 Area Electrical Service Project, Hanford Site, Richland, Washington

**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, area/location/number of buildings, etc.):**

Currently, the Pacific Northwest National Laboratory (PNNL) obtains electrical services on the 300 Area of the Hanford Site from the U.S. Department of Energy, Richland Operations Office (DOE-RL), Mission Support Alliance (MSA), and Washington Closure Hanford (WCH). PNNL, with concurrence from the Pacific Northwest Site Office (PNSO) and DOE-RL, is proposing to obtain 300 Area electrical services from the City of Richland (COR). The proposed plan for establishing new 12.47 kV power service is to install overhead power lines routed on single wooden poles. Overhead power line project activities include the installation of new power poles, power lines, transformers, guy-wires, and associated equipment. The total length of the combined lines is approximately 5.5 miles. The lines will start at the COR Sandhill Crane Substation and run north to the 300 Area (Figure 1 and 2). These lines are sited adjacent to existing infrastructure in the 300 Area and along Stevens Drive to minimize environmental impacts. The power poles will be placed at various distances, up to 91 m (300 ft) apart, to accommodate landscape features and existing buildings and infrastructure. The footprint of installing each pole will be approximately 6.1 by 6.1 m (20 by 20 ft). The overhead power line will be routed below ground to cross major roads. To route the line below Horn Rapids Road, the project will saw cut the road surface to bury the lines, and repave the cut section of the road. To route the lines below Stevens Drive, the project will use directional boring equipment, which will require a work area of approximately 15.25 by 15.25 m (50 by 50 ft) on both sides of the road, to depths up to 9.14 m (30 ft). An access road may be bladed next to each overhead power line to support construction, operation, and maintenance. To reduce impacts, where possible, the project will use existing access roads. If necessary, new access roads (two track or gravel) will be approximately 4 m (15 ft) wide and will be bladed no more than 0.9 m (3 ft) deep. In addition to the installation of the overhead power lines and the access roads, project activities include routine maintenance and repair of the power lines, electrical service infrastructure, and access roads from construction until the end of their serviceable life. Cultural and biological surveys were completed for this project in the summer of 2012. Based on these surveys, there are no expected significant impacts to sensitive cultural or biological resources. Construction, maintenance, or operation activities might involve hazardous materials such as fuels, oils, and antifreeze, and result in minor amounts of waste such as cleaning fluids. Such materials and waste would be minimized and re-used, recycled, or disposed of appropriately in accordance with applicable regulations. Construction or modification activities also might involve minor air emissions such as localized dust or fumes from construction equipment, or water effluents such as construction rinse water, dust suppression, or water used for soil compaction. In all instances, environmental impacts are expected to be temporary. The proposed action would include reasonably foreseeable actions necessary to implement the proposed activities, such as excavation, equipment and material staging, waste management.

**III. Reviews (if applicable):**

Biological Review Report #: ECR-2012-300-009

Cultural Review Report #: HCRC-2012-300-009

Additional Attachments:

**IV. Existing NEPA Documentation**

Is the proposed action evaluated in a previous EA, EIS, or under CERCLA?

YES NO

If "NO," proceed to Section V. If "YES," List EA, EIS, or CERCLA Document(s) Title and Number:

And then complete Section VI. Provide electronic copy of Initiator/ECO signed NRSF to DOE NCO for information only. DOE NCO signature is not required.

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### NEPA REVIEW SCREENING FORM (continued)

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#### V. Categorical Exclusion

Does the proposed action fall within a class of actions that is listed in Appendixes A or B to Subpart D of 10 CFR Part 1021?

YES NO

Are there extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal?

Is the proposal connected to other actions with potentially significant impacts or result in cumulatively significant impacts (not precluded by 40 CFR 1506.1 or 10 CFR 1021.211)?

List CX to be applied and complete Categorical Exclusion Integral Elements (where an action might fit within multiple CXs, use the CX that best fits the proposed action):

B4.12 Construction of powerlines

#### Categorical Exclusion Integral Elements

Does the proposed action threaten a violation of applicable statutory, regulatory, or permit requirements for environmental, safety, or health, including DOE and/or Executive Orders?

YES NO

Does the proposed action require siting, construction, or major expansion of waste storage, disposal, recovery, or treatment facilities?

Does the proposed action 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?

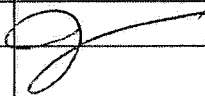
Does the proposed action adversely affect environmentally sensitive resources?

Does the proposed action involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species such that the action is NOT contained or confined in a manner designed, operated, and conducted in accordance to applicable requirements to prevent unauthorized release into the environment?

If "NO" to all Categorical Exclusion Integral Elements questions above, complete Section VI, and provide to DOE NCO for final Approval/ Determination and signature in Section VII.

If "YES" to any of the Categorical Exclusion Integral Elements questions above, contact DOE NCO for additional NEPA Review.

#### VI. Responsible Contractor Signatures

	Name (Printed)	Signature	Date
Initiator	JA Stegen		9/26/2012
Cognizant Environmental Compliance Officer			

#### VII. Approval/Determination

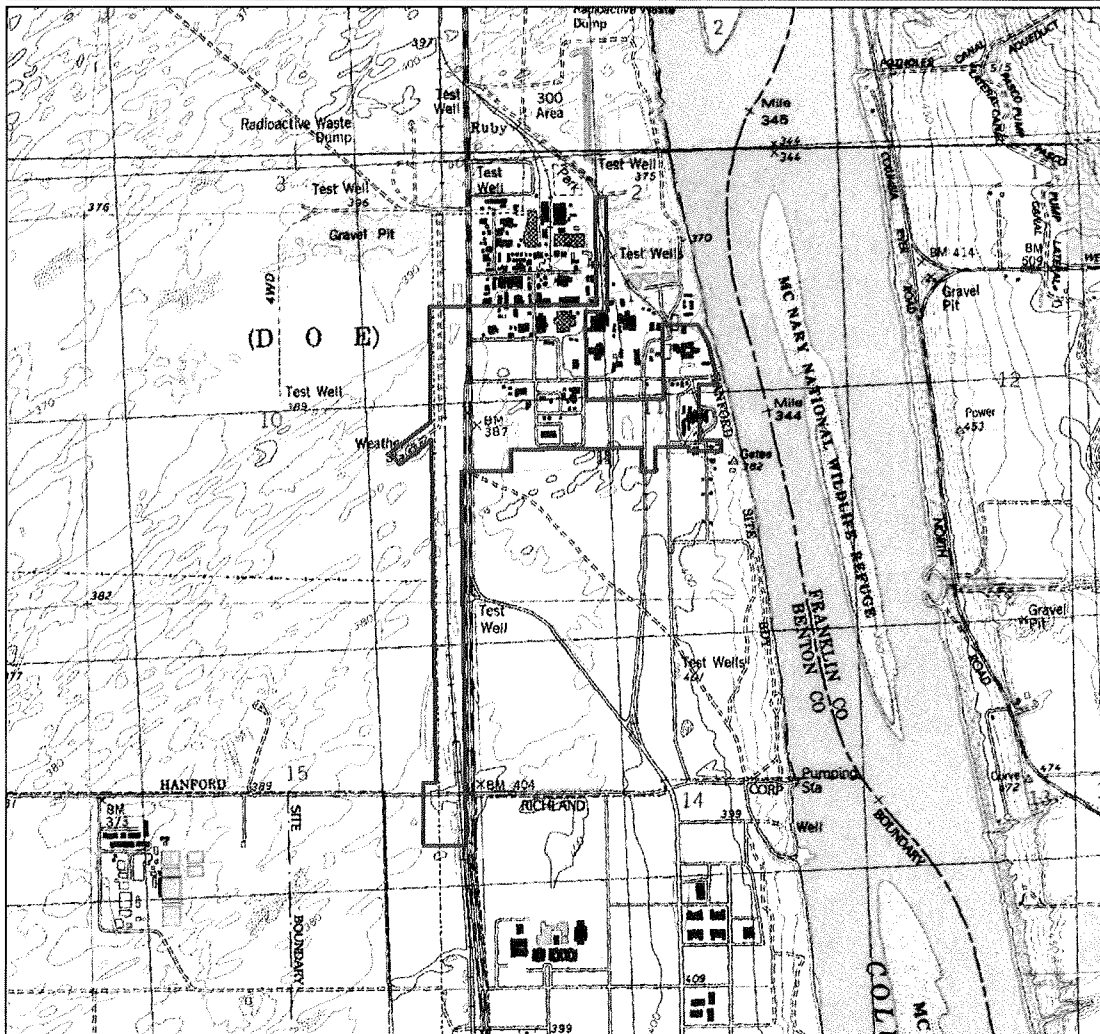
DOE NEPA Compliance Officer: Woody Russell

Based on my review of information conveyed to me and in my possession (or attached) concerning the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), I have determined that the proposed action fits within the specified class of action:

NCO Determination -  CX  EA  EIS

Signature: 

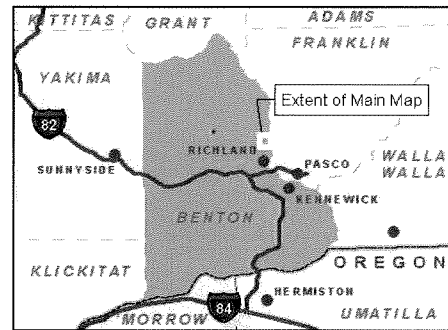
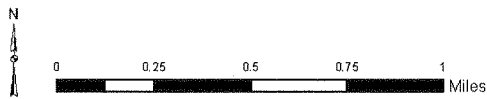
Date: 10/2/12



**Legend**

□ Area of Potential Effects (APE)

Richland, WA 7.5' USGS Quads  
Township 10 N Range 28 E  
Sections 2, 10, 11 & 15

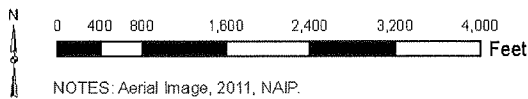
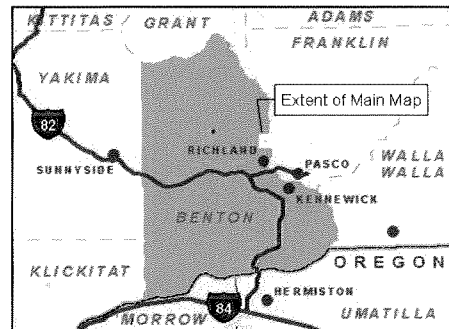


**FIGURE 1**  
**Area of Potential Effect (APE)**  
HCRC#2012-300-009 | 300 Area Electrical Service  
Benton County, WA



**Legend**

- Area of Potential Effects (APE)
- Circuit A
- Circuit B
- Lift Station
- Transformer Locations



**FIGURE 2**  
**Detail of Area of Potential Effect (APE)**  
 300 Area Electrical Service  
 Benton County, WA