

NEPA REVIEW SCREENING FORM 3A
Actions Likely to be Categorically Excluded

Document ID #:

DOE/CX-00177

I. Project Title:

ACTIVITY-SPECIFIC CATEGORICAL EXCLUSION FOR DECOMMISSIONING OF UNDERGROUND INJECTION CONTROL WELLS IN THE 100-D/DR AND 100-H AREAS OF THE HANFORD SITE

II. Describe the proposed action, including location, time period over which proposed action will occur, project dimension (e.g., acres displaced/disturbed, excavation length/depth), and area/location/number of buildings. Attach narratives, maps and drawings of proposed action if doing so will assist in DOE's evaluation. Describe existing environmental conditions and potential for environmental impacts from the proposed action. If the proposed action is not a project, describe the action or plan.

The Department of Energy (DOE), Richland Operations Office (RL), Site Stewardship Division (SSD) proposes to decommission eight Underground Injection Control (UIC) wells located in the 100-D/DR and 100-H Areas of the Hanford Site (see Table 1). UIC wells would be excavated and physically removed in compliance with Washington Administrative Code (WAC) 173-218, "Underground Injection Control Program," Section 173-218-120, "Decommissioning of UIC Wells."

The U.S. Environmental Protection Agency (EPA) UIC Program, authorized by the Safe Drinking Water Act, is administered under Title 40, Part 144, of the Code of Federal Regulations, "Underground Injection Control Program." The EPA UIC Program protects underground sources of drinking water from contamination by regulating the construction, operation, maintenance, and closure of UIC wells. UIC wells must either be closed or operate under a permit issued by the State of Washington Department of Ecology if they remain open.

UIC well decommissioning would take place in the 100-D/DR and 100-H Areas (see Figures 1 and 2). At each location, an area within a 15-foot radius of the UIC well would be disturbed for equipment access and temporary material staging. Most UIC wells are accessible from existing roadways; however, it would be necessary to traverse previously remediated and revegetated areas at several locations.

UIC Well Decommissioning. UIC wells would be decommissioned in a manner that prevents movement of fluid containing any contaminant into the groundwater (40 CFR 144.82 and WAC 173-218-120). Soil, gravel, sludge, liquids or other materials removed from or adjacent to UIC wells would be managed and disposed in accordance with applicable federal, state, and local requirements (40 CFR 144.82b).

UIC wells are inactive and have no foreseeable future use. UIC wells would be decommissioned by excavation and removal of structures within 3-feet of land surface. Following radiological survey, removed materials would be recycled or disposed in the Hanford Site Environmental Restoration Disposal Facility. Excavations would be backfilled with material that is uncontaminated, chemically and biologically inert, drains equal to or more slowly than surrounding materials, or other structurally sound material common with current engineering practices. Backfill material would be contoured to blend with surrounding terrain and revegetated. UIC wells in contact with the groundwater (even if only during periods of seasonal high groundwater) would be decommissioned in accordance with WAC 173-160, "Minimum Standards for Construction and Maintenance of Wells."

DOE-RL would submit to the State of Washington Department of Ecology an update on the UIC wells that have been decommissioned.

Ecological Resources Review. DOE-RL Environmental Compliance personnel performed a field survey of UIC well locations on February 7, 2018 (MSA-1801068; ECR-2018-101). UIC wells DDR-248, 100-D-96:1 FD8, UU234, UU239, and WCH Discovery are located within large remediated areas that have been recently revegetated. The remaining UIC wells (100-D-96:1 FD5, UU233, and LTS Discovery) are located in previously disturbed areas covered with gravel and dominated by invasive weed species.

The "Hanford Site Biological Resources Management Plan" (BRMP, DOE/RL-96-32 Revision 2) designates revegetated areas as Level 4 habitat with a management goal of preservation by avoidance or minimization of impacts. Project Management personnel would instruct workers to minimize impacts to revegetated areas. Project vehicles and staging areas would remain on established graveled roads or previously disturbed areas.

Well decommissioning activities would include revegetation of disturbed areas in accordance with "Hanford Site Revegetation Manual" (DOE/RL-2011-116, Revision 1) guidance using locally derived, native plant species; including prescribed species mix, planting rates, and planting methods.

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II. Describe the proposed action, including location, time period over which proposed action will occur, project dimension (e.g., acres displaced/disturbed, excavation length/depth), and area/location/number of buildings. Attach narratives, maps and drawings of proposed action if doing so will assist in DOE's evaluation. Describe existing environmental conditions and potential for environmental impacts from the proposed action. If the proposed action is not a project, describe the action or plan.

No adverse impacts are anticipated. No plant or animal species protected under the Endangered Species Act, candidates for such protection, or species listed by the Washington State government as threatened or endangered were observed in the vicinity of UIC well locations.

Birds can nest on the ground, buildings, or equipment; and the nesting season is typically from mid-March to mid-July. The active nests of migratory birds are protected by the "Migratory Bird Treaty Act (MBTA) of 1918." Project Management personnel would instruct workers to watch for nesting birds. If any nesting birds are encountered or suspected, or bird defensive behaviors are observed, then Project Management personnel would contact DOE-RL Environmental Compliance personnel to evaluate the situation. A nesting bird survey would be conducted if project activities result in ground disturbance during the nesting season.

Cultural Resources Review. A Cultural Resources Review of the project areas was conducted by DOE-RL Cultural and Historic Resources Program personnel (MSA-1801068; HCRC-2018-100-001). An "Area of Potential Effect" (APE) notification was sent to the Washington State Historic Preservation Office (SHPO) and regional Tribes on November 16, 2017. A cultural resources field survey was conducted on November 30, 2017. Much of the APE within the 100-D/DR and 100-H Areas include heavily developed industrial areas that have been remediated. Areas surrounding the stabilized 105-D, 105-DR, and 105-H surplus reactor facilities are associated with the Manhattan Project and Cold War Era. The project areas include remediated waste sites and paved or graveled areas adjacent to the surplus production reactor facilities.

No cultural resources or historic structures were observed within the APE. Although there are no historic properties in the APE, portions of the project area are within the 1,320-foot (one-quarter mile) culturally sensitive buffer zone along the Columbia River shoreline. A Cultural Resources Review (CRR), with a "Finding of No Historic Properties Affected," was prepared and submitted to the SHPO and Area Tribes for a 30-day comment period on January 25, 2018. The SHPO concurred with the findings of the CRR on January 29, 2018. DOE-RL provided a notice of compliance with Section 106 of the National Historic Preservation Act on February 28, 2018.

Following DOE-RL consultations with SHPO, Washington Department of Archaeology and Historic Preservation (DAHP), and local Tribal leadership, work controls were identified as "Best Management Practices" to avoid impacts to cultural resources. These work controls would be implemented by Project Management personnel and are identified in the Cultural and Ecological Resources Review clearance letter. Intermittent cultural resources monitoring would be performed during ground disturbing activities at UIC well locations within one-quarter mile of the Columbia River (i.e., UIC wells 100-D-96:1 FD5, LTS Discovery, UU233, UU234, and UU239). Intermittent cultural resources monitoring would include notification of DOE-RL Cultural and Historic Resources Program personnel at least 7-days prior to performing fieldwork, assigning archaeologists that meet minimum education and experience requirements, conducting cultural resources briefings, periodic archaeologist presence during ground disturbing activities, preparation of a daily monitoring log, providing daily status updates, authority to stop work for cultural resource discoveries, and issuing a final monitoring report.

Project Management personnel would direct workers to watch for cultural materials (e.g., bones, stone tools, mussel shell, cans, and bottles). If cultural materials are encountered, then work in the vicinity of the discovery would stop until an archaeologist has been notified, the significance of the find assessed, appropriate Tribes notified, and, if necessary, arrangements made for mitigation of the find. In the event of discoveries, Project Management personnel would contact DOE-RL Cultural and Historic Resources Program personnel to evaluate the situation.

Conclusion. This is an Activity-Specific Categorical Exclusion (ASCX) citing 10 CFR 1021, Subpart D, Appendix B, CX B5.3, "Modification or Abandonment of Wells." This ASCX only applies to the proposed action. Any changes to the proposed action that result in additional work scope or future requests for UIC well decommissioning would require approval by the DOE NEPA Compliance Officer.

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III. Existing Evaluations (Attach them):

Ecological Review Report No. and Title:

MSA-1801068, "Ecological and Cultural Clearance for Decommissioning of Eight Underground Injection Control Wells in the 100-D/DR and 100-H Areas of the Hanford Site, Benton County, Washington (HCRC-2018-100-001, ECR-2018-101," dated March 14, 2018

Cultural Review Report No. and Title:

MSA-1801068, "Ecological and Cultural Clearance for Decommissioning of Eight Underground Injection Control Wells in the 100-D/DR and 100-H Areas of the Hanford Site, Benton County, Washington (HCRC-2018-100-001, ECR-2018-101," dated March 14, 2018

Maps:

None

Other Attachments:

Table 1 - Underground Injection Control Wells Description and Location
 Figure 1 - Underground Injection Control Well Locations in 100-D/DR Area
 Figure 2 - Underground Injection Control Well Locations in 100-H Area

IV. Other Considerations

	Yes	No
Does the proposed action fall within one or more of the actions listed in Appendixes A or B to Subpart D of 10 CFR 1021 and is thus categorically excluded (CX)? List applicable CX(s): B5.3, "Modification or Abandonment of Wells"	<input checked="" type="radio"/>	<input type="radio"/>
Are there extraordinary circumstances that may affect the significance of the environmental effects of the proposal, such as those set forth in 10 CFR 1021.410(2)? If yes, describe them. None	<input type="radio"/>	<input checked="" type="radio"/>
Is the proposal connected to other actions with potentially significant impacts, or that could result in cumulatively significant impacts? If yes, describe them. None	<input type="radio"/>	<input checked="" type="radio"/>
Would the proposed action threaten a violation of applicable statutory, regulatory, or permit requirements related to the environment, safety, health, or similar requirements of DOE or Executive Orders?	<input type="radio"/>	<input checked="" type="radio"/>
Would the proposed action require siting, construction, or major expansion of waste storage, disposal, recovery, or treatment facilities?	<input type="radio"/>	<input checked="" type="radio"/>
Would the proposed action disturb hazardous substances, pollutants, contaminants, or natural gas products already in the environment such that there might be uncontrolled or unpermitted releases?	<input type="radio"/>	<input checked="" type="radio"/>
Would the proposed action have the potential to cause significant impacts on environmentally sensitive resources? See examples in Appendix B(4) to Subpart D of 10 CFR 1021.	<input type="radio"/>	<input checked="" type="radio"/>
Would the proposed action involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species?	<input type="radio"/>	<input checked="" type="radio"/>

If 'No' to all questions above, complete Section V and provide this form to DOE NCO for review.
 If 'Yes' to any of the questions above, contact DOE NCO.

V. Responsible Organization's Signatures:

Initiator:

Jerry W. Cammann, MSA NEPA-SME
 Print First and Last Name


 Signature

4/10/18
 Date

Cognizant Program/Project Representative:

Randall N. Krekel, DOE-RL/SSD
 Print First and Last Name


 Signature

4-10-2018
 Date

VI. DOE NEPA Compliance Officer Approval/Determination:

Based on my review of information conveyed to me concerning the proposed action, the proposed action fits within the specified CX(s): Yes No

Diori L. Kreske, DOE/NCO
 Print First and Last Name


 Signature

4/10/18
 Date

NCO Comments:

Table 1. Underground Injection Control Wells Description and Location





UIC Well/Stream Number	Site Code	Description	Associated Structure or Facility	Effluent Received	Status	Washington State Planar Coordinates Easting (m)	Washington State Planar Coordinates Northing (m)
DDR-248	N/A	Drywell	Overhead steam line near 105-D Building	Steam condensate	Inactive	573720.5	151547.6
100-D-96	100-D-96:1 FD5	Drywell	Overhead steam line near 181-D Building	Steam condensate	Inactive	572813.0	151736.1
100-D-96	100-D-96:1 FD8	Drywell	Overhead steam line near 100-D Area service buildings	Steam condensate	Inactive	573551.0	151797.0
UU233	100-H-50 FD1	48-inch diameter drywell; top of drywell may be 6-feet below grade	Raw water valve pit between 181-H and 183-H	Raw water, storm water	Unknown	577818.7	153047.5
UU234	100-H-50 FD2	36-inch diameter drywell	182-H Building	Steam condensate	Unknown	577757.6	152963.9
UU239	100-H-50 FD7	24-inch diameter drywell	1703-H Building	Steam condensate	Unknown	577946.2	152551.1
Washington Closure Hanford (WCH) Discovery	N/A	Drywell identified during WCH CERCLA remediation activities in 2011	Overhead steam line near 105-H Building	Steam condensate	No record of disposition by WCH; current status unknown	577669.9	152519.8
Mission Support Alliance (MSA) Long-Term Stewardship Program (LTS) Discovery	N/A	Drywell identified during LTS institutional controls assessment at 100-H	Export water line	Raw water	Inactive	577604.5	153174.2

Figure 1. Underground Injection Control Well Locations in 100-D/DR Area

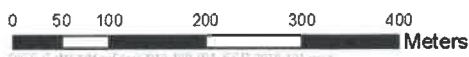


USDA-ESA-APFO Aerial Photography Field Office

LEGEND

-  400-meter Cultural Sensitivity Buffer
-  UIC Wells
-  Area of Potential Effect (APE)
-  Hanford Site Areas

NOTES: Aerial Imagery, 2017, NAIP.



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WEST
APE & Monitoring Areas
 HCRC#2018-100-001 | ECR-2018-101
 Hanford Site, Benton County, Washington

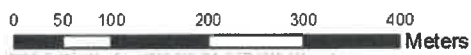
Figure 2. Underground Injection Control Well Locations in 100-H Area



LEGEND

-  400-meter Cultural Sensitivity Buffer
-  UIC Wells
-  Area of Potential Effect (APE)
-  Hanford Site Areas

NOTES: Aerial Imagery, 2017, NAIP.



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EAST
APE & Monitoring Areas
 HCRC#2018-100-001 | ECR-2018-101
 Hanford Site, Benton County, Washington