

NEPA REVIEW SCREENING FORM

I. Project Title:

Capability Enhancement at the 325 Hazardous Waste Treatment Units


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.):

Pacific Northwest National Laboratory proposes to expand its existing Hazardous Waste Treatment Unit (HWTU) located at the Radio-chemical Processing Laboratory (RPL) (325 Building) within the 300 Area of the Hanford Site. The RPL HWTU is currently permitted by the Washington State Department of Ecology to handle, treat, package, store, and ship radioactive-mixed hazardous waste generated via research activities conducted within the RPL and other PNNL facilities. Three areas are proposed to be included in the HWTU expansion: a portion of Rooms 603/604A (approximately 1100 ft²), and the 610 Truck Lock (approximately 1221 ft²), both located within the RPL building, and the 3714 pad, an existing, approximately 2000 square foot concrete pad located outdoors near the northeast corner of the RPL building. All three of these spaces are currently used for storage of non-RCRA low-level radioactive and TRU waste generated by research activities within the RPL and other PNNL facilities. The HWTU expansion is required to allow for greater flexibility in the safe handling, processing (primarily over-packaging waste in large grout-filled boxes), and storage of RCRA-regulated radioactive mixed-wastes. Liquids are treated at existing portions of the HWTU, but there is a potential that small amounts could be treated (e.g. pH adjustment) in the existing 604A fume hoods that are currently used for non-RCRA waste treatment.

No ground disturbance, construction, or excavation is required for this permit modification, and the additional packaging and storage capability will not result in increases to radioactive or chemical emissions from the facility, and will not require significant new equipment. All of these spaces are already part of the RPL footprint and are included in the retained Facility Operational Agreement with RL; all of these areas will be remediated at the end of PNNL occupancy as part of 300 Area ROD.

The 603/604A space provides a heavy duty, 30-ton crane (necessary for handling shielded drums and concrete-weighted boxes, access to a loading door, is capable of handling high-activity waste / accountable material, and there is a small hood/glove box in 604A that may be used for waste management. The 610 truck lock is built on grade with a heavy-duty concrete floor, therefore floor loading is not an issue; the roll-up door provides easy truck access for filling boxes with grout and eventual load-out. Room 610 provides space for 4'x4'x8' boxes to be stored while the grout cures, out of the weather without interfering with other activities. The 3714 Pad currently is used to store non-RCRA low-level radioactive materials. It will provide longer-term storage of packaged RCRA materials, such as drums and large boxes, awaiting shipment to the 200 Area. It will allow waste to be stored out of the Limited Area and away from staff work areas (thus promoting ALARA), provide ease of loading onto transporter, and allow for convenient weekly inspection as required by the Hanford RCRA Permit.

The addition of these areas to the RPL HWTU will not increase the amount of waste created or handled at RPL, although it will likely allow for an increase in total volume (i.e. preparation of 4x4x8 foot grout-filled boxes). These changes will allow for safe over-packaging and eventual disposal (elsewhere on the Hanford Site) of waste held within the RPL HWTU. Some of this material requires over-packing 55-gallon drums within large, grout-filled boxes, which cannot be conducted within the existing HWTU areas because of space and floor-loading limitations. A variety of hazardous waste-producing research projects have been conducted for many years at RPL, and this work is expected to continue for the foreseeable future. The RPL HWTU expansion will allow for more waste management options, and will allow for an increased margin of safety and protection for workers and the environment.

RL-721 REV 7	NEPA REVIEW SCREENING FORM (continued)		Document ID Number: DOE/CX-00140
III. Reviews (if applicable):			
Biological Review Report #: N/A per RL Cultural/Ecological Review checklist A-6006-139			
Cultural Review Report #: N/A per RL Cultural/Ecological Review checklist A-6006-139			
Additional Attachments:			
Project is inside established facility, and a use re-designation of an existing storage pad in a highly disturbed, industrial setting. No excavation or surface disturbance will occur.			
IV. Existing NEPA Documentation			YES NO
Is the proposed action evaluated in a previous EA, EIS, or under CERCLA?			<input type="checkbox"/> <input checked="" type="checkbox"/>
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.			
V. Categorical Exclusion			YES NO
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?			<input checked="" type="checkbox"/> <input type="checkbox"/>
Are there extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal?			<input type="checkbox"/> <input checked="" type="checkbox"/>
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)?			<input type="checkbox"/> <input checked="" type="checkbox"/>
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):			
B6.6 Modifications of facilities for storing, packaging, and repacking waste.			
Categorical Exclusion Integral Elements			YES NO
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?			<input type="checkbox"/> <input checked="" type="checkbox"/>
Does the proposed action require siting, construction, or major expansion of waste storage, disposal, recovery, or treatment facilities?			<input type="checkbox"/> <input checked="" type="checkbox"/>
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?			<input type="checkbox"/> <input checked="" type="checkbox"/>
Does the proposed action adversely affect environmentally sensitive resources?			<input type="checkbox"/> <input checked="" type="checkbox"/>
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?			<input type="checkbox"/> <input checked="" type="checkbox"/>
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	Michael R. Sackschewsky		4/10/14
Cognizant Environmental Compliance Officer			

RL-721
REV 7

NEPA REVIEW SCREENING FORM (continued)

Document ID Number:

DOE/CX-00140

VII. Approval/Determination

DOE NEPA Compliance Officer: Diori L. Kreske, NEPA Compliance Officer (NCO)

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: *Diori Kreske*

Date: 4/16/14