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Waste Site Reclassification Form

EDMC <u>Date Submitted:</u> 08/01/06 <u>Originator:</u> L. M. Dittmer <u>Phone:</u> 372-9664	<u>Operable Unit(s):</u> 100-HR-1 <u>Waste Site ID:</u> 132-H-2 <u>Type of Reclassification Action:</u> Rejected <input type="checkbox"/> Closed Out <input type="checkbox"/> Interim Closed Out <input checked="" type="checkbox"/> No Action <input type="checkbox"/>	<u>Control Number:</u> 2006-049 <u>Lead Agency:</u> Ecology
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This form documents agreement among the parties listed below authorizing classification of the subject unit as rejected, closed out, interim closed out, or no action and authorizing backfill of the site, if appropriate. Final removal from the National Priorities List (NPL) of no action, interim closed-out, or closed-out sites will occur at a future date.

Description of current waste site condition:

The 132-H-2 site (117-H Filter Building) and associated below-grade ductwork were decommissioned and demolished in 1984, with a portion of the rubble left in situ beneath clean fill at least 1 m (3.3 ft) thick. Decommissioning included removal of contaminated air filters. Radiological characterization was performed prior to final decommissioning, including the collection of paint and concrete samples to support dose assessment calculations prepared in accordance with *Allowable Residual Contamination Levels for Decommissioning Facilities in the 100 Areas of the Hanford Site* (Kennedy and Napier 1983). The allowable residual contamination level calculations indicated that the potential dose to the maximally exposed individual in 1984 would contribute less than 1 mrem/yr. A RESidual RADioactivity (RESRAD) evaluation was performed in 2006 using the 1984 sampling results (after accounting for radioactive decay) to support the interim closed-out decision. This evaluation predicts that the maximum dose rate is 0.232 mrem/yr above background over 1,000 years. RESRAD also showed that of the contaminants detected, only tritium is predicted to reach groundwater within 1,000 years. The maximum tritium concentration in groundwater is predicted to be less than the remedial action goal (20,000 pCi/L). Therefore, the dose limits for the rural-residential (15 mrem/yr) and groundwater (4 mrem/yr) pathways will not be exceeded.

Basis for reclassification:

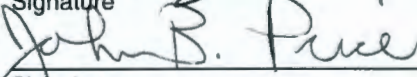
The site achieves the remedial action objectives and the corresponding remedial action goals established in the *Remedial Design Report/Remedial Action Work Plan for the 100 Area*, DOE/RL-96-17, Rev. 5, U.S. Department of Energy, Richland Operations Office, and the *Interim Action Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1, 100-FR-2, 100-HR-1, 100-HR-2, 100-KR-1, 100-KR-2, 100-IU-2, 100-IU-6, and 200-CW-3 Operable Units, Hanford Site, Benton County, Washington*, U.S. Environmental Protection Agency, Region 10, Seattle, Washington. Residual concentrations support future land uses that can be represented (or bounded) by a rural-residential scenario and pose no threat to groundwater or the Columbia River based on RESRAD modeling. However, the acceptability of unrestricted direct exposure to below-grade structure surfaces in the deep zone has not been demonstrated; therefore, institutional controls to prevent uncontrolled drilling or excavation into the deep zone are required. The basis for reclassification to interim closed out is described in detail in the *Remaining Site Verification Package for 132-H-2, 117-H Filter Building* (attached). The data used for this evaluation were not obtained from environmental media and are not intended to be incorporated into the River Corridor Baseline Risk Assessment. Waste site-specific evaluations will be performed to determine which data are appropriate for ecological risk assessment and/or to assess the risk these sites present to ecological receptors.

K. Bazzell
DOE-RL Project Manager

J. Price
Ecology Project Manager

NA
EPA Project Manager


Signature 8/1/2006
Date


Signature 8/11/2006
Date

Signature _____
Date