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EXPEDITED RESPONSE ACTION (ERA) PLANNING PROPOSAL FOR THE 200 WEST AREA CARBON TETRACHLORIDE (CCl₄) GROUNDWATER PLUME

This letter transmits ERA Planning Proposals for the 200 West Area CCl₄ Groundwater Plume. This planning proposal has been prepared in response to the ERA recommendations found in DOE/RL-92-16, "200 West Area Groundwater Aggregate Area Management Study Report (AAMSR)," prepared in 1992. Implementation of an ERA to address CCl₄ contamination in the groundwater is examined and assessed as part of the 200 West Area Groundwater AAMSR. Results of evaluation and assessment indicate that the CCl₄ groundwater plume is an appropriate candidate for an ERA based on: (1) extremely elevated contaminant levels, (2) potential for further environmental degradation and human exposure, and (3) availability of response action technologies which have a probability of success. The following provides a brief description of the proposal.

CCl₄ is used in plutonium processing operations at the Plutonium Finishing Plant (PFP) also known as Z plant. In the past, CCl₄-laden waste streams from PFP facilities were disposed directly to the ground. This disposal practice has led to contamination of significant portions of the vadose zone and unconfined aquifer beneath the 200 West Area. The ERA will focus on preferential removal of CCl₄ from groundwater by in-situ separation techniques supported by surface containment/treatment of extracted vapors. It is likely that the response action will be limited to those areas in the groundwater plume where extremely high concentrations of CCl₄ are found; these areas are located within the 200-ZP-1 groundwater operable unit. The groundwater ERA will augment the current CCl₄ vadose zone response action and will enhance the removal of CCl₄ from the environment.



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Messrs. Day & Jansen
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Please review and provide your comments on the proposal by February 19, 1993.
If you have any questions, please contact me on (509) 376-6798, or
Mr. P. M. Pak on (509) 376-4798.

Sincerely,



Steven H. Wisness
Hanford Project Manager

ERD:PMP

Enclosure

- cc w/encl:
- L. D. Arnold, WHC
- B. A. Austin, WHC
- W. L. Johnson, WHC
- R. E. Lerch, WHC
- T. M. Wintzack, WHC
- Administrative Record, H4-22

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Subject: TRANSMITTAL OF THE EXPEDITED RESPONSE ACTION PLANNING PROPOSAL FOR THE 200 WEST AREA CARBON TETRACHLORIDE GROUNDWATER PLUME

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