



Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

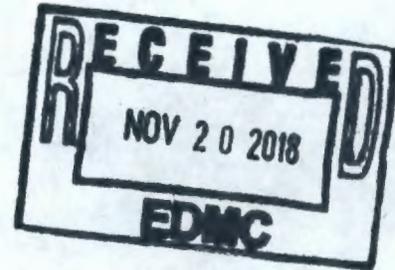
1250529
[0064364H]

041180

JAN 10 1997

Mr. Douglas R. Sherwood
Hanford Project Manager
U.S. Environmental Protection Agency
712 Swift Boulevard, Suite 5
Richland, Washington 99352

Mr. Mike A. Wilson, Program Manager
Nuclear Waste Program
State of Washington
Department of Ecology
P.O. Box 47600
Olympia, Washington 98504-7600



Dear Messrs. Sherwood and Wilson:

HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT) SUBMITTAL FOR MILESTONE M-15-80B-T01, AN INITIAL RECOMMENDATION FOR "NEXT PHASE" BUDGETED WORK FOR THE COLUMBIA RIVER COMPREHENSIVE IMPACT ASSESSMENT (CRCIA)

This letter transmits the INITIAL FY 1999 Budget submittal (attached), as developed through January 7, 1997, with the CRCIA Team, which completes Tri-Party Agreement Milestone M-15-80B-T01. This budget request substantially exceeds the funding expected to be available from the Environmental Restoration (ER) Project. However, it was the apparent consensus of the Team (as represented at the January 7, 1997, CRCIA Team meeting) that the budget submittal reflect "estimated costs" and not be based on funds available. Unfortunately, at this time, there is no detailed cost estimate of what it would take to perform the work required to develop the integrated processes and models for performing a satisfactory (to the Team) "comprehensive assessment." Because of this, the submittal is a "rough order of magnitude" developed by Team members, with inputs from various personnel supporting the CRCIA.

As stated, this submittal is an initial budget input. It is our intent to continue to work with the CRCIA Team and others to better define the specific work needed and to improve our cost estimate. Any refinement in the cost estimate will be added to the budget request. Please note that for the U.S. Department of Energy, Richland Operations Office (RL), to proceed with the tasks anticipated by the CRCIA Team, one of the following two events (or a combination of the two) MUST occur:

1. The cost estimate must validate that work acceptable to the CRCIA Team can be completed for a funding level supportable by the ER Project, currently projected not to exceed \$1,000,000 per year over the next three years. (Note: As of the date of this submittal, there are NO funds allocated to CRCIA in FY 1998; the \$1,000,000 is a "below the line" amount.), or

JAN 10 1997

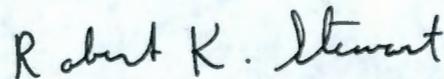
041180

2. Other RL Hanford Projects (Tank Waste Remediation Project, Waste Management Project, Facilities Transition Project) will have to agree that proposed "comprehensive requirements" work supports their project objectives and agree to provide funding. This support will have to be translated into budget submittals. (Note: Without such agreement from other Hanford Projects, RL has indicated that ANY funding allocated to CRCIA will have to come from Environmental Restoration Project funding.)

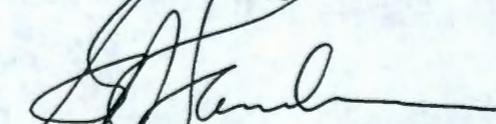
In summary we intend to continue working with our contractors, your CRCIA Project Managers, and other CRCIA Team members to refine the cost estimate through the duration of the budget cycle by obtaining an activity based cost estimate. Also, we will continue dialogue with other Hanford Projects regarding their potential participation. Finally, we will continue to work with these groups in complying with the remaining CRCIA Tri-Party Agreement milestones.

If you need to discuss this matter further or require additional information, please contact Mr. R. K. Stewart on (509) 376-6192.

Sincerely,



Robert K. Stewart, Project Manager
Groundwater Project



George H. Sanders, Administrator
Hanford Tri-Party Agreement

GWP:RKS

Attachment

cc w/attach:

L. E. Gadbois, EPA
D. P. Holland, Ecology
R. D. Morrison, FDH

cc w/o attach:

R. L. Dirkes, PNNL
G. C. Henckel, BHI

Initial CRCIA Fiscal Year 1999 Project Baseline Summary Submittal
Submitted in fulfillment of Tri-Party Agreement Milestone M-15-80B-T01

A.0.1. *Project Title:* Columbia River Comprehensive Impact Assessment, Phase II

A.0.5. *DOE Project Manager:* Robert (Bob) K. Stewart

A.0.8. *DOE Project Manager's e-mail address:* Robert_K_Bob_Stewart@rl.gov

A.1.1. *Purpose of Project:*

The purpose of the Columbia River Comprehensive Impact Assessment (CRCIA) is to assess current and future effects of the aggregate Hanford derived materials and contaminants on the Columbia River environment, river dependent life, and users of river resources. This is considered to be Phase II (called "Next Phase" in Tri-Party Agreement Milestone M-15-80B-T01) and will build on the results of Phase I, which consists of a screening assessment and a definition of requirements for a comprehensive assessment.

Phase II of the CRCIA will provide an integrated approach that evaluates the cumulative impacts of waste management and cleanup alternatives at Hanford. It will also provide sitewide coordination of and consistency among risk and impact assessments among the projects and programs at Hanford. Perhaps most importantly, the CRCIA will also provide a tool to assess impacts on the River from all current and future contaminant sources, whether now in the environment or having the potential for getting into the environment in the future. It will provide a methodology for systematic analyses of cumulative impacts and thus be useful in guiding Site waste management and environmental cleanup decisions.

The CRCIA has served as an effective mechanism for public and tribal involvement via formation of the CRCIA Team in August 1995. The Team is composed of representatives from the U.S. Department of Energy, Richland Operations Office (RL), DOE contractors, U.S. Environmental Protection Agency, State of Washington Department of Ecology, Confederated Tribes of the Umatilla Indian Reservation, Nez Perce Tribe, Yakama Indian Nation, Hanford Advisory Board, and the State of Oregon. Phase II would continue the involvement of the CRCIA Team.

A.1.2. *Definition of Scope:*

The scope of Phase II includes the development of a technical assessment approach based on comprehensive assessment requirements being developed in CRCIA Phase I; an analysis of Hanford work performed as to its satisfying the comprehensive assessment requirements; development of cumulative source terms and information regarding their availability in the environment; development of improved Hanford transport and fate models for predicting movement of contaminants in the environment; and identification of the effects of these contaminants on humans, biota, as well as cultural and socioeconomic factors.

Activities to be completed in FY 1998 include planning of the assessment approach, task sequencing, analysis of pertinent work performed against the comprehensive assessment requirements, completing a groundwater modeling task, addition of human health scenarios and probabilistic risk models to Hanford Site Risk Assessment Methodology, and institution of necessary Site coordination. This work is to be planned and performed in increments such that priority decisions can be made, with CRCIA Team involvement. Based on results of a CRCIA Team Workshop on December 16 & 17, 1996, initial priority areas are: vadose zone contaminant transport to groundwater, groundwater transport modeling, groundwater/river interface, definition of human health and ecological risk data gaps, uncertainty, exposure scenarios, and definition of cultural risk scenarios. Specific information about CRCIA Team priorities is shown below in the "Baseline Costs." Task scope descriptions will be developed for inclusion in the Multi-Year Work Plan.

A.2.2. Baseline Costs:

The baseline costs estimates below were developed by the CRCIA Team. This budget request substantially exceeds the funding expected to be available from the Environmental Restoration (ER) Project. However, it was the consensus of the Team (as represented at the January 7, 1997, CRCIA Team meeting) that the budget submittal reflect "estimated costs" and not be based on a "funds available bogey." Unfortunately, at this time, there is no detailed cost estimate of what it would take to perform the work required to develop the integrated processes and models for performing a satisfactory (to the Team) "comprehensive assessment." Because of this lack, the submittal is a "rough order of magnitude" developed by Team members, with inputs from various personnel supporting the CRCIA.

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>
Provide CRCIA Planning & Management	450	450	100
Perform Technical Integration & Crosscutting Tasks	450	450	100
Obtain Site-wide Contaminant Source Term	225	150	50
Determine Contaminant Failure & Release to Vadose	225	225	50
Define Groundwater (and other) Transport Pathways	450	450	150
Define Groundwater/River Interface	900	900	100
Determine Contaminant Distribution in the River	750	750	100
Locate Critical Habitat & Uptake Mechanisms	50	100	25
Select Receptors & Define Exposure Pathways	1,000	1,000	1,000
Calculate Receptor Dose	150	450	100
Assess Receptor Impact & Tolerance	300	600	100
Develop/Apply Assessment Scenarios	150	100	75
Obtain Definition of Hanford Disposition Baseline	<u>50</u>	<u>50</u>	<u>50</u>
Total	5,150	5,675	1,500

B.2. Compliance Drivers:

The following were identified by the CRCIA Team as drivers for Phase II of the CRCIA:

1. Tri-Party Agreement commitments: M-30-01/02, M-15-80, qualitative risk assessments
2. Secretary of Energy "Yardstick" between governments - Assessment Process
3. 5400.5 (10CFR834); 5400.1; 5820.2A; Executive Order 12898
4. National Environmental Policy Act
5. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), including Natural Resources Damage Assessment
6. Existing CERCLA Records of Decisions
7. River Protection (as general DOE commitment and principle)
8. Comprehensive Approach (Defense Nuclear Facility Safety Board recommendation 94-2)
9. Federal Trust responsibilities towards Native American Tribes
10. Washington State's Model Toxic Control Act
11. Hanford Site Environmental Health and Safety issues
12. Hanford Strategic Plan and other site planning documents
13. Hanford Advisory Board consensus advice (#13, #34, #38, and #61)
14. Future Site Users Working Group recommendation