

### MEETING MINUTES

Subject: Expedited Response Action Weekly Interface

TO: Distribution

BUILDING: 450 Hills

FROM: W. L. Johnson

CHAIRMAN: W. L. Johnson



| Dept-Operation-Component  | Area  | Shift           | Meeting Date    | Number Attending |
|---------------------------|-------|-----------------|-----------------|------------------|
| Environmental Engineering | 3000  | Day             | August 31, 1992 | 11               |
| M. R. Adams               | H4-55 | EPA             |                 | B5-01            |
| M. V. Berriochoa          | B3-30 | P. Beaver       |                 |                  |
| H. D. Downey              | L4-92 | P. T. Day       |                 |                  |
| J. K. Erickson            | A5-19 | D. R. Einar     |                 |                  |
| W. F. Heine               | B2-35 | D. A. Faulk*    |                 |                  |
| R. E. Lerch               | B2-35 | L. Gadbois      |                 |                  |
| R. G. McLeod              | A5-19 | P. S. Innis*    |                 |                  |
| P. M. Pak                 | A5-19 | D. R. Sherwood* |                 |                  |
| J. K. Patterson*          | L4-92 | Ecology         |                 | fax              |
| J. T. Stewart             | A5-20 | J. Donnelly*    |                 |                  |
| R. K. Stewart*            | A5-19 | L. Goldstein    |                 |                  |
| T. M. Wintczak            | L4-92 | R. L. Hibbard   |                 |                  |
| EDMC                      | H4-22 | D. Goswami*     |                 |                  |
| ERAG Route                |       | J. Phillips     |                 |                  |
| Field File Custodian      | H4-55 | D. D. Teel*     |                 |                  |
| WLJ File/LB               |       | N. Uzremier*    |                 |                  |

#### \*Attendees

The weekly interface meeting on the expedited response actions (ERAs) was held to status the ERAs for the U.S. Department of Energy, Richland Field Office and the regulators. The meeting was conducted in accordance with the attached agenda. Actions were formally reviewed and the attached action item list was updated.

All eight approved ERAs were discussed and their status summarized. WHC provided a copy of the well summary sheets for well 299-W15-216 which encountered a perched water condition. WHC also provided a detailed explanation of the North Slope project activities. A meeting was set up for Tuesday, September 8, 1992, to resolve regulator comments on the Sodium Dichromate and North Slope sampling plans. WHC took an action to set up a briefing on next fiscal year's Integrated Demonstration activities.

#### Attachments:

1. Agenda
2. Action Item List
3. Decisions, Agreements & Commitments
4. Expedited Response Action Weekly Report
5. Well Summary Sheets for Well 299-W15-216
6. North Slope Project Summary



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## WEEKLY ERA INTERFACE AGENDA

SUBJECT: STATUS OF THE EXPEDITED RESPONSE ACTIONS

DATE: August 31, 1992

- GENERAL ISSUES
  - ERA Interface Action Item review
- INDIVIDUAL PROJECT STATUS
  - / 618-9 Burial Ground
  - / 200-W Carbon Tetrachloride
    - o Site characterization status (perched water summary)
    - o Operations status (12 hour operations at 100 cfm)
    - o Procurement & design activities for next two units
    - o Integrated demonstration activities
  - / Sodium Dichromate
    - o Project plan (SAP) submitted on August 29, 1992
    - o Safety analysis and NEPA ongoing
    - o Meeting on regulatory comments (Wednesday, September 2, 1992)
  - / Riverland
    - o Planning underway
    - o GPR conducted
    - o NEPA needs to be pushed
  - / Pickling Acid Crib
    - o Planning underway
    - o SAP under development
  - / 618-11 Burial Ground
    - o Planning underway
  - / N-Spring
    - o Internal discussions ongoing
  - 1100 Area/ALE ERA to be proposed by Army Corps of Engineers
  - / Wahluke Slope
    - o Project plan and SAPs comment resolutions, safety analysis ongoing, GPR complete, NEPA approved
- OTHER ISSUE
- SUMMARY OF ACTION ITEMS
- SIGN-OFF ON ANY DECISIONS, AGREEMENTS, OR COMMITMENTS

618-9  
200-W  
Sodium Dichromate  
Riverland  
Pickling Acid Crib  
618-11  
N-Spring  
1100 Area/ALE  
Wahluke Slope

EXPEDITED RESPONSE ACTION INTERFACE MEETING

-ACTION ITEMS-  
August 31, 1992

ORGANIZATION

ACTION ITEM

WHC

WHC will prepare an outline detailing proposed activities, technical issues, and schedules for the 618-11 Burial Ground. This outline will be presented at an upcoming ERA interface meeting. (open) Will be provided on 9/14/92.

WHC

WHC will research past environmental monitory records (PNL's) to assess the radiological impact of Hanford Operations on the North Slope. (closed) *Aerial monitoring shows no contamination.*

WHC

WHC will provide DOE, EPA, and Ecology copies of the GPR reports for Riverland, North Slope and Sodium Dichromate ERA sites when they become available. (open)

WHC

WHC will provide the date for VES contract award to the regulators. (closed) *Mid-September date is anticipated, vendor is working on design.*

WHC

WHC to develop a draft plan for removal and storage of oil soaked soil at the grease rack. (open) To be discussed in the 8/31/92 ERA Interface Meeting.

WHC

WHC will provide a briefing on the Integrated Demonstration activities planned for next fiscal year. (open)

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EXPEDITED RESPONSE ACTION INTERFACE MEETING

-DECISIONS, AGREEMENTS, & COMMITMENTS-  
August 24, 1992

DECISIONS:

AGREEMENTS:

*Nothing of significance*

COMMITMENTS:

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\_\_\_\_\_  
DOE Representative

\_\_\_\_\_  
EPA Representative

\_\_\_\_\_  
ECOLOGY Representative

*WJH* 9/1/92  
\_\_\_\_\_  
WHC Representative



Table 1 CCl<sub>4</sub> Production Data

| Operational Date                     | Well Field | Amount of CCl <sub>4</sub> Removed (lb.) | Average CCl <sub>4</sub> Conc. (ppm) | Total Operational Time (hr.) | Average Flowrate (SCFM) | Stack Emissions (ppm) |
|--------------------------------------|------------|--|--------------------------------------|------------------------------|-------------------------|-----------------------|
| 8/13 - 8/19                          | 216-Z-1A   | 65                                       | 432                                  | 42                           | 160                     | 0.6                   |
| 8/19 - 8/25                          | 216-Z-1A   | 125                                      | 583                                  | 47                           | 190                     | 0.4                   |
| <b>Total CCl<sub>4</sub> removed</b> |            | <b>853.6</b>                             |                                      |                              |                         |                       |

The proposals for the process control system have been reviewed and a preferred vendor selected. The final award will be made in the next few days. The delivery for the equipment will take between 4 and 6 weeks after the final award. Operation of the VES for 24 hours will be delayed until mid-October, since the process control system is the critical path item.

A draft report on the evaluation of possible radiological release methods for the GAC canisters has been received and is currently being reviewed. This report evaluates various methods that could be used to radiologically release the GAC canisters for off-site regeneration, without having to physically sample.

IV. VOC - ARID INTEGRATED DEMONSTRATION

Preparation are being made for the Fiber Optic Sensor team. Copper sample lines have been received and will be installed in the next few days. Sources of gas and liquid nitrogen have been identified for Fiber Optics testing requirements. The mobile sampling trailer is ready to be occupied. Further testing of Halosniff sensor begins Monday, August 31, 1992.

North Slope Expedited Response Action - The ERA project plan and military landfill sampling plan were transmitted to RL and the regulatory agencies. A site tour has been scheduled with a former employee who worked at the Nike missile sites for Saturday August 29, 1992. The tour will focus on areas where a military cache was believed to be disposed. A plan for removing and storing soils contaminated with oil is being developed.

Cleanup of surface debris has been postponed as a result of the cultural resource review. PNL archeologist require that the debris be inspected for cultural significance prior to being disposed of. This survey should begin in early September.

A draft sampling plan which focuses on waste sites other than the military landfills has been drafted. This plan includes sampling the homestead cisterns as well as fuel handling areas at the Nike missile sites.

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White Bluffs Pickling Acid Crib Expedited Response Action - Project planning has been initiated. NEPA documentation, a cultural resource review, and a plant forces review are in process. Historical data indicates that the cribs may have been used during construction of N Reactor.

Riverland Railroad Site Expedited Response Action - NEPA documentation has been provided to RL. A plant forces work review was submitted for this project. Geophysical surveys have been completed at the railroad and anti-aircraft sites.

Sodium Dichromate Expedited Response Action - Work continues on project document preparation. Comments from the regulators have been received and are being evaluated.

618-9 Burial Ground Expedited Response Action - Nothing new to report.

618-11 Burial Ground Expedited Response Action - Developing FY 93 cost account plan and reviewing historical information in preparation for a September 14, 1992, presentation at the ERA weekly interface meeting.

N-Springs Expedited Response Action - A cost account plan has been drafted for FY 1993. A statement of work is being drafted to obtain IT Corporations services in preparing the ERA project plan which will identify potential response alternatives and the appropriate selection criteria.

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August 26, 1992

Perched Water at 299-W15-216

The following information is provided to confirm that the perched water zone encountered at 299-W15-216 during drilling for the 200 West Carbon Tetrachloride ERA was successfully sealed during drilling and completion activities.

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The perched water encountered during drilling of 299-W15-216 on May 27, 1992, was successfully sealed before drilling continued. The procedures outlined in the WAC 173-160 of creating a bentonite seal between casing sizes and telescoping or down-sizing of casing, were followed. The perched water was encountered while drilling with the 10" casing, after previously downsizing from the 12". The 10" casing was extracted from the borehole and drilling continued with the 12", after a water sample analysis was performed to confirm the absence of radionuclide contamination in the perched water. Once the caliche layer was penetrated, the 12" was set one foot into the caliche/ confining layer. When the 12" had been set in the confining layer, a bentonite seal was created by adding bentonite pellets in the 12" casing, followed by an addition of bentonite slurry (Enviro-Plug). After the 10" casing had been deconned, drilling proceeded with the 10" to a depth in the caliche/confining layer of two feet. After the 12" and 10" casings were set in the caliche/confining layer, the borehole was checked for water. No water was found confirming that a substantial seal existed, and drilling proceeded with the 8" casing. To the best of our knowledge, no cross contamination or communication of contaminants to the ground water occurred during drilling.

In the process of constructing the well, the bentonite seal was maintained by the keeping a bentonite slurry in the annular space during backpulling the temporary casing. The perched water was not encountered during completion activities.

A diagram of the well summary sheet is enclosed for reference to the actual construction of this vadose monitoring well.

V.L.King  
Wellsite Geologist

# WELL SUMMARY SHEET

Boring or Well No. 299-W15-216

Sheet 1 of 2

Location Zoo West East of 2 plant

Project CCLY ERA Phase II Soil Vapor Monitoring

Elevation N/A

Drilling Contractor KEH

Driller M. Wraspir

Drilling Method and Equipment Cable Tool - Bucyrus Erie 22W

Prepared By K.J. Swett

Date 7/19/92

Reviewed By \_\_\_\_\_

Date \_\_\_\_\_

County Scott Courtnay (Sign/Print Name)

7/19/92

(Sign/Print Name)

### CONSTRUCTION DATA

Description

Diagram

Depth in Feet

### GEOLOGIC/HYDROLOGIC DATA

Graphic Log

Lithologic Description

| Description                               | Diagram | Depth in Feet | Graphic Log | Lithologic Description                |
|---|---------|---------------|-------------|---------------------------------------|
| 3.4' stick-up on stainless steel casing   |         |               |             | Gravelly SAND                         |
| Outland cement surface - 10.0             |         | 10            |             | "                                     |
| 0.0-49.6 Bent. Crumbles                   |         | 20            |             | SAND (some silt layers)               |
| Temporary 12" CS casing                   |         |               |             | Gravelly SAND                         |
| 1/2 shoe set at 116.1 FT b/s              |         | 30            |             | Gravelly silty SAND                   |
| 12" casing removed 7/8/92                 |         |               |             | Gravelly SAND                         |
| Temporary 10" CS casing                   |         | 40            |             | Silty Sandy GRAVEL                    |
| 1/2 shoe set at 116.9 FT b/s              |         |               |             | "                                     |
| 10" casing removed 7/2/92                 |         | 50            |             | Interbedded SAND                      |
| 19.6-63.9 Bent. Slurry                    |         |               |             | "                                     |
| 66.6 (20-40) Silica Sand                  |         | 60            |             | "                                     |
| 66.6-83.3 (10-20) Silica Sand             |         |               |             | "                                     |
| 79.72-79.79 (.070) Stainless Steel Screen |         | 70            |             | "                                     |
|   |         | 80            |             | "                                     |
| 83-91.2 Bent. Crumbles                    |         |               |             | "                                     |
| 91.2-164.3 Bent. Slurry                   |         | 90            |             | " , Perched H <sub>2</sub> O @ 92.05' |
|   |         | 100           |             | "                                     |
|   |         | 110           |             | SILT Palouse                          |
|   |         | 120           |             | "                                     |
|   |         | 130           |             | CALICHE                               |
| Temporary 8" CS casing                    |         |               |             | Gravelly sandy SILT                   |
| 1/2 shoe set at 208.7 FT b/s              |         | 140           |             | Silty Sandy GRAVEL                    |
|   |         | 150           |             | Gravelly SAND                         |
|   |         | 160           |             | "                                     |
| 64.3-167.5 Bent. Crumbles                 |         |               |             | Gravelly SILT                         |
|   |         |               |             | Gravel                                |
|   |         |               |             | "                                     |
|   |         |               |             | "                                     |

# WELL SUMMARY SHEET

Boring or Well No. 299-W15-216

Sheet 2 of 2

Location 200 West East of 2 plat

Project CCl<sub>4</sub> ERA Phase II Soil Vapor Monitoring

Location N/A

Drilling Contractor KEH

Driller M. Wraspir

Drilling Method and Equipment Cable Tool: Bucyrus Erie 22W

Prepared By K.J. Smith  
*(Signature)*  
(Sign/Print Name)

Date 7/9/92

Reviewed By \_\_\_\_\_  
*(Signature)*  
(Sign/Print Name) Date \_\_\_\_\_

### CONSTRUCTION DATA

Description

Diagram

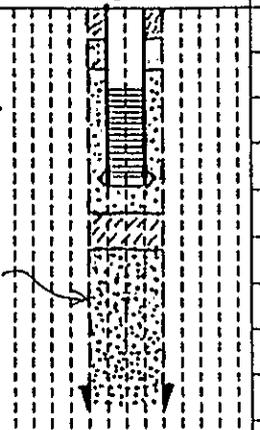
Depth  
in  
Feet

### GEOLOGIC/HYDROLOGIC DATA

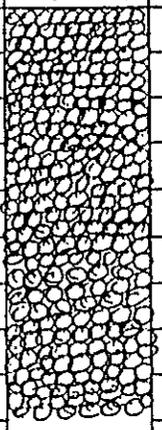
Graphic Log

Lithologic Description

167.5 - 171.4 (20-40) Silica Sand  
171.4 - 187.0 (10-20) Silica Sand  
<sup>174.5 ft</sup>  
245 Stainless Steel Screen 5 (0.02) 184.88  
187.0 - 191.4 Hole Plug  
Temporary 8"  $\phi$  CS casing  
w/shoe set at 208.7 F + 0.5  
8" casing removed 7/1/92  
208.5 - 191.4 (8-12) Silica Sand



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180  
190  
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GRAVEL  
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NORTH SLOPE ERA  
WEEKLY INTERFACE MEETING

ISSUES

- 1) BURIED MILITARY CACHE -
- 2) CULTURAL RESOURCES -
- 3) PROJECT PLAN -
  - a) IDENTIFICATION OF ALTERNATIVES
    - i) Backfill open pits/structures
    - ii) General debris cleanup (Cultural Resources ?)
    - iii) Removal of hazardous wastes
    - iv) No Action
  - b) SITE EVALUATION TASKS
    - i) Review of military archives/personnel interviews
    - ii) Geophysical surveys (No indication of underground tanks)
    - iii) Landfill Sampling  
Field Sampling Plan #1  
3 landfills selected (1 Nike, 1 AAA, 1 both)  
6 auger location/landfill  
Sample at approx. bottom of landfill  
Field screen for organics/inorganics  
If + results - take lab sample
    - iv) Cisterns  
Field Sampling Plan #2  
Removal material/inspect (hazardous)  
Take screening samples from 3  
(Screen for herbicides/pesticides)  
If + results - take lab sample  
If - results - backfill
    - v) Nike Sites
    - vi) AAA Sites
    - vii) 2,4-D Disposal
    - viii) Hazardous waste storage (EII 4.3)

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