

START

9613492.7609

0044252

032021

212

Meeting Minutes Transmittal/Approval
Unit Manager's Meeting: Remedial Action and Waste Disposal Unit/Source Operable Unit
3350 George Washington Way, Room 1B45, Richland, Washington
March 21, 1996

FROM/APPROVAL: Nicole S. Kimball Date 4/18/96
for Nancy Werdel/Glenn Goldberg, 100 Area Unit Managers, RL (H0-12)

APPROVAL: Keith K. Holliday Date 5-22-96
Wayne Soper/Keith Holliday, 100 Aggregate Area Unit Manager, Ecology (B5-18)

APPROVAL: David R. Einan Date 16 May 96
for Dennis Faulk/Kevin Oates, 100 Aggregate Area Unit Managers, EPA (B5-01)

APPROVAL: N/A Date _____
Bryan Foley, 200 Area Unit Manager, RL (H0-12)

APPROVAL: N/A Date _____
Gary Freedman/Norman Hepner, 200 Aggregate Area Unit Managers Ecology (B5-18)

APPROVAL: David R. Einan Date 16 May 96
David Einan/Paul Beaver, 200 Area Aggregate Area Unit Managers, EPA (B5-01)

APPROVAL: L. Heib Date 4/8/96
for Robert G. McLeod, 300 Area Unit Manager, RL (H0-12)

APPROVAL: Jeanne Wallace Date 4/18/96
Jeanne Wallace, 300 Area Aggregated Area Unit Manager WA Dept of Ecology (B5-18)

APPROVAL: David R. Einan Date 18 Apr 96
David R. Einan, 300 Area Aggregated Unit Manager, EPA (B5-01)



Meeting Minutes are attached. Minutes are comprised of the following:

Attachment #1 - Agenda
Attachment #2 - Attendance Record
Attachment #3 - Meeting Summary
Attachment #4 - Status Package
Attachment #5 - 300 Area Status
Attachment #6 - 200 Area Status

Prepared by:



Gary Gesell/Tamen Lundquist (H0-17)

Date 6/3/96

Concurrence by:



Greg Eidam, BHI Remedial Action Projects Manager (H0-17)

Date 6/3/96

032021

MARCH UMM AGENDA**1:00 p.m. 300 Area**

- Review Meeting Minutes
- Comments on Status Package
- MTCA - Issues with Gerald Pollet
- Status of LFI Report Preparation
- Status of Second Round Groundwater Sampling
- ROD Preparation Status
- Final vs Interim ROD Status
- Open Discussion

2:30 p.m. 100 Areas

- Review Meeting Minutes
- Comments on Status Package
- RCRA Soils into ERDF (Discussion)
- IU-2 and IU-6 Status and Discussion
- Remaining Liquid Waste Sites (EDS) Discussion
- Status of Remedial Design Report
- Status of Sampling and Analysis Plan
- B/C Remediation Schedule Review
- Open Discussion

4:00 Close

NOTE: The 200 Areas will not meet this month. The 200 Areas UMM meeting will be replaced by a 3-day 200 Area Strategy workshop. The purpose of the workshop will be to develop a strategy on how to proceed with the 200 Area assessment and remediation, including the following:

- Define an integrated streamlined process for proceeding
- Incorporate 100 and 300 Area lessons learned
- Build efficiency into remaining characterization
- Establish overall 200 Area priorities.

UNIT MANAGERS' MEETING MINUTES**March 21, 1996****100 AREAS****General Information**

- Meeting minutes for February will be signed before April's UMM (I will route the package; I will obtain the remaining signatures at the April UMM).
- Dennis Faulk made a few changes to February's meeting minutes, which will be incorporated.
- The 100-HR-3/100-KR-4 ROD has been signed by EPA and Ecology; DOE-RL has not yet signed the ROD.
- **EPA Request for DOE:** When letters concerning specific sites or operable units are sent to Doug Sherwood, the appropriate EPA project manager should be copied.

100 Area IUs

- 100-IU-1: RL has transmitted a letter on soil bioremediation to EPA.
- 100-IU-2 and 100-IU-6: No changes since last month; DOE contends that submitting a focus package will meet the December 31, 1996, Tri-Party Agreement milestone. Gadbois will meet with Ecology during the week of March 25, 1996, to discuss strategy for the operable units concerning which regulatory agency will be the lead.

RCRA Soils into ERDF

- The key problem is the 100-D Ponds TSD; also, the 183-H TSD closure project is stockpiling because no affordable disposal options exist. There will be excavation of clean/nonhazardous sediments this summer in the 100-D Pond, but currently it cannot go to ERDF. Regulatory options for allowing ERDF disposal are still uncertain. The ERC plans to stockpile soil from 100-D Ponds if a disposal option cannot be identified in time to be implemented this summer; EPA and Ecology agreed.
- The possibility of using an ESD to allow disposal from RCRA TSDs into ERDF was discussed. The question was raised whether the ERDF ROD could be modified to allow

disposal of non-CERCLA waste. An ESD for the ERDF ROD will be completed by June 1996, per EPA to address other issues such as recycling of leachate.

Remaining Liquid Waste Sites

- The EPA and Ecology have agreed that RL can initiate preparation of a draft ESD addressing 34 candidate radioactive liquid waste disposal sites. Plans are to complete the draft by June 1996 and to then determine if EPA staff are available to review it. Work will proceed even if EPA currently does not have the resources to participate.
- Ecology suggested that the 1907-DR process sewer outfall be included in the ESD. After the discussion, it was decided that the site is not analogous to the September 1995 ROD sites and, therefore, should not be included at this time. Concern was expressed, however, that some plans be made to address this site.
- It was also pointed out that the reactor effluent outfalls are not candidates for an ESD either, since they are being addressed as a D&D project, along with the river discharge pipelines.

Status of Remedial Design Report

The Remedial Design Report (RDR) is on hold until management agrees on the decay issue. A preliminary draft was submitted to EPA and Ecology on March 21.

Sampling and Analysis Plan

- The Sampling and Analysis Plan is in the process of completing ERC review.
- A DSI is attached to the plan and presents the remaining issues (addressing EAC data, what methods to use, etc.) with the Analytical Group (Analytical Group will give a presentation).
- A tentative meeting is scheduled for March 27.

100-B/C Remediation Schedule

- Subcontractor bids are due on March 25. The contract will be awarded in April, but not until all issues in the RDR are resolved. Site preparation will begin in June and excavation will begin by July 15. An expedited review is required to meet the July 15 start of excavation.

- A draft verification package for site 116-B-4 was hand-delivered to the agencies on March 21.
- The Detailed Design is completed.
- The RDR and Remedial Action Work-Plan (RAWP) decisional draft was issued to RL on March 15.
- The Sampling and Analysis Plan is being prepared and will be issued to RL on March 29.
- The ERA demonstration report will be issued by March 25.
- The 116-B-4 backfill will start the week of March 25.

300 AREA

MTCA Issues

Discussed the fact that Gerald Pollet submitted identical comments on the 300 Area to DOE-RL that were submitted on the 300-FF-1 and 300-FF-5 Proposed Plans. The comment package is much broader than the 300-FF-1 and 300-FF-5 Operable Units. The Tri-Parties remain in general agreement that the decisions presented in the 300-FF-1 and 300-FF-5 Proposed Plans, with respect to Mr. Pollet's 300 Area specific comments, are appropriate.

ROD

- Support to ROD preparation: Comment dispositions have been prepared for the Department of Fish and Wildlife and select Department of Health and Nez Perce Tribe comments supporting EPA's preparation of the Responsiveness Summary to the ROD.
- Preparation status: draft should be ready by April 1.

Final Versus Interim ROD for 300-FF-5

- There is no substantive difference between final and interim (per EPA).

Remedial Design Status

- Design subcontract is ongoing.
- Received annotated outline of design basis.
- The RDR/RAWP draft outline is prepared; the annotated outline is currently being prepared.
- A SAP DQO kickoff meeting is tentatively scheduled for April 2.
- The schedule for Remedial Design reviews is as follows:
 1. 30% design submittal review starts on 4/23/96 for 2 weeks
 2. 60% design submittal review starts on 6/3/96 for 2 weeks
 3. 90% design submittal review starts on 7/5/96 for 2 weeks.

Action Items

- From 2/15/96, get RFP addendum copies to regulators: complete.
- EPA requested electronic copies of RI/FS documents: complete.

300-FF-5 Operations and Maintenance DQO

- Two meetings were held (2/21 and 2/28) to implement the DQO process.
- The DQO Summary Report was routed for team review on 3/15/96. DOE stated that the DQO report needs to identify that contour maps will be prepared in the annual reports.
- The O&M Plan will be issued for regulator review after the DQO Summary Report comments are incorporated.

NOTE: The RDR/RAWP falls in July for the review; the two documents will be combined.

Forecasted Activities

- Continue to support ROD preparation.
- Implement remedial design from February through July 1996.

300-FF-2**Action Items**

None at this time.

RI/FS Work Plan/LFI Report - The Tri-Party Agreement Change Control Form (M-13-95-02) that directs the ERC to cease work on finalizing the work plan and prepare the Limited Field Investigation (LFI) report was approved by the regulators on February 16, 1996. Preparation of the LFI report is presently underway. The report, *Summary of the 300-FF-2 Operable Unit Data Quality Objective Process*, BHI-00601, was issued to RL on January 26.

Field Investigations - Meetings to discuss the workscope for the second round of groundwater sampling were held with the regulators. The revised scope includes installation and sampling from four cone penetrometer borings near the 316-4 Crib and well 699-S6-E4A. The scope for sampling near the 618-11 Burial Ground remains unchanged from the previous round of sampling. Field activities began on March 18. A discussion regarding the current status of these activities was held. More details will be provided at the April UMM.

Forecasted Activities

- Conduct round 2 groundwater sampling - March 1996.
- Provide draft LFI report for regulator review - September 30, 1996.

STATUS PACKAGE

MARCH UNIT MANAGERS' MEETING

SOURCE OPERABLE UNITS

100-B/C, 100-K, 100-D, 100-H, 100-F

200 AREAS

300 AREA

prepared by

DOE-RL

100 AREAS

Focused Feasibility Studies and Proposed Plans

100 Area Remaining Sites ESD - A 100 Area remaining sites workshop was held with DOE-RL, the U.S. Environmental Protection Agency (EPA), and Ecology on February 14, 1996 (regulatory agencies). A joint EPA/Ecology letter was received by DOE-RL on February 14, 1996, regarding *100 Area Record of Decision Strategy* (the ROD strategy). The regulatory agencies believe that enough site data is presently available in the Administrative Record to decide remediation needs for the remaining sites; therefore, they recommended that all remaining radioactive liquid effluent disposal sites (except those in the 100-N Area) that are similar to those in the September 1995 ROD be addressed through an Explanation of Significant Differences (ESD) in association with the existing ROD in June 1996. The ESD would include analogous high-priority sites from the 100-KR-1, 100-KR-2, 100-FR-1, 100-FR-2, 100-BC-2, 100-DR-2, and 100-HR-2 Operable Units, as well as appropriate low-priority sites.

The letter also recommended that a separate ROD for burial grounds, sites similar to burial grounds, and miscellaneous sites can be addressed through a compliance performance-based remediation. As a result of the regulator's ROD strategy, the scope and schedule for the remaining sites focused feasibility study (FFS) project is expected to be revised to write the recommended ESD by June 1996, and then pursue a ROD for remediation of burial grounds. DOE-RL is reviewing the letter.

100-IU-1/-3/-4/-5 PP - Following the February signing of the "no action" ROD, an action remains to close out the bioremediation of soil from 100-IU-1 that is stockpiled at 100-B/C.

100-IU-2 and 100-IU-6 - A Draft Redline Rev. 0 Focus Package documenting the proposed dispositions of the sites was submitted by RL to EPA and Ecology on March 5, 1996. The joint EPA/Ecology letter on *100 Area Record of Decision Strategy* recommended that the 100-IU-2 and 100-IU-6 Operable Units be addressed through Washington State regulations (e.g., solid waste regulations) rather than CERCLA. The advantages and disadvantages of the regulator's proposal remain to be discussed. Some issues to consider include CERCLA documentation completed to date and a December 31, 1996, *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) milestone for the submittal of "planning documents."

100-KR-1/100-KR-2/100-FR-1/100-FR-2/100-BC-2 - Work has been suspended on FFSs and PPs for these OUs since receiving a letter from EPA, dated October 20, 1995, requesting RL to stop work on these documents. The request to stop work was made in anticipation of reaching a *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) in the near future to address remaining waste sites in the 100 Areas on a 100-Area-wide basis, rather than on an operable-unit-specific basis.

100-DR-2/100-HR-2 - Work has been suspended on FFSs and PPs for these OUs since receiving a letter from Ecology, dated November 29, 1995, requesting RL to stop work on these documents. The request to stop work was made in anticipation of reaching a Tri-Party Agreement in the near future to address remaining waste sites in the 100 Areas on a 100-Area-wide basis, rather than on an operable-unit-specific basis.

Treatability Studies

Rock Screening - The treatment test to evaluate volume reduction using screening techniques based on physical properties (particle size) was completed in December 1995. The data has been reviewed and a report will be issued in February 1996.

B/C Demonstration Project

100-BC-1 ERA - The ERA report has been started and the initial draft is expected to be out for review in February. The verification package for 116-B-4 is nearing completion and will be available for DOE and regulatory concurrence in February.

B/C Area

Group 1 Remedial Design - Detailed design is essentially complete for the sites in 100-BC-1 (116-B-1, 116-B-11, 116-B-13, 116-B-14, 116-C-1, 116-C-5, and the B/C north pipelines) and is continuing for the two sites in 100-DR-1 (116-D-1A, 116-D-1B), and one site in 100-HR-1 (116-H-1). The Draft Remedial Design Report/Remedial Action Work Plan is near completion and will be available for review in February.

200 AREAS**200-UP-2 Operable Unit**

200-UP-2 FFS - The 200-UP-2 FFS is currently undergoing DOE and regulatory review. A presentation with the regulators, RL, and DOE-HQ was held February 12, 1996, to kick off the regulator and DOE review cycle. Comments are requested within 45 days per the Tri-Party Agreement. The proposed plan is being prepared for transmittal to RL for their review on or before March 15, 1996. The proposed plan is scheduled to be submitted to the regulators by April 30, 1996, to meet a Tri-Party Agreement milestone.

Barrier FFS - The Barrier FFS was transmitted to the regulators for review on February 12, 1996. Comments were requested within 30 days.

200-BP-11 Operable Unit

200-BP-11 Work/Closure Plan - The schedule to implement Volume 1 of the *200-BP-11 Operable Unit RFI/CMS and 216-B-3 Main Pond, 216-B-63 Trench, and 216-A-29 Ditch Work/Closure Plan* (DOE/RL-93-74, Draft B) continues to be negotiated amongst Ecology, ERC, and DOE-RL. This issue has been elevated to formal dispute resolution and is before the Tri-Parties Inter Agency Management Integration Team (IAMIT) to resolve. At the IAMIT meeting held on December 20, 1995, the Tri-Parties agreed to extend resolution of the dispute until February 15, 1996. The IAMIT met on February 14, 1996, to discuss resolution of the dispute. It was tentatively agreed that \$500,000 would be budgeted in FY 1998 to initiate the 200-BP-11 Operable Unit characterization. The work/closure plan will not be submitted for public review at this time. The Tri-Parties agree to work on developing a strategy for the 200 Area Source Operable Units. This will dictate the scope of work to be conducted for the 200 Areas. The agreement will be documented in a letter approved by Ecology and RL.

200-BP-1 Operable Unit

Prototype Barrier Testing - PNNL continues testing and monitoring activities on the prototype barrier. Plant and animal surveys are being conducted and will be completed in March 1996. Preparation continues for the 1,000-year rain event that is scheduled for March 27, 1996. Accelerated precipitation activities continued to add three times the normal precipitation to the northern half of the barrier.

200 Areas Strategy

A workshop has been scheduled between the Tri-Parties to initiate the development of a 200 Areas Remedial Action Strategy. The workshop is scheduled for March 20, 21, and 22, 1996. A workshop source book was transmitted to the participants March 1, 1996. The source book is to be reviewed before the workshop.

300 AREA

300-FF-1 Operable Unit

Proposed Plan - N/A.

Record of Decision - The public comment period for the 300-FF-1 and 300-FF-5 Proposed Plan and 300 Area Process Trenches Closure Plan was closed on February 9, 1996. The EPA is drafting the ROD. The project schedule is based on a completed ROD by May 14, 1996.

Remedial Design - Bids were received and evaluated, and a remedial design subcontract was awarded on February 23, 1996; design is underway. The subcontractor has submitted the following documents to ERC for internal review: Draft Schedule, Draft Quality Assurance Plan, and Design Basis Annotated Outline. A meeting was held on February 28, 1996 with EPA, Ecology, and DOE to discuss planning for the Remedial Design Report (RDR) and Remedial Action Work Plan (RAWP). It was agreed at that meeting to combine the two documents for one Tri-Party Agreement submittal. An option is being looked at to include the Sampling and Analysis Plan to the RDR/RAWP as an appendix. An action from that meeting is to prepare an annotated outline of the RDR/RAWP for all parties to review.

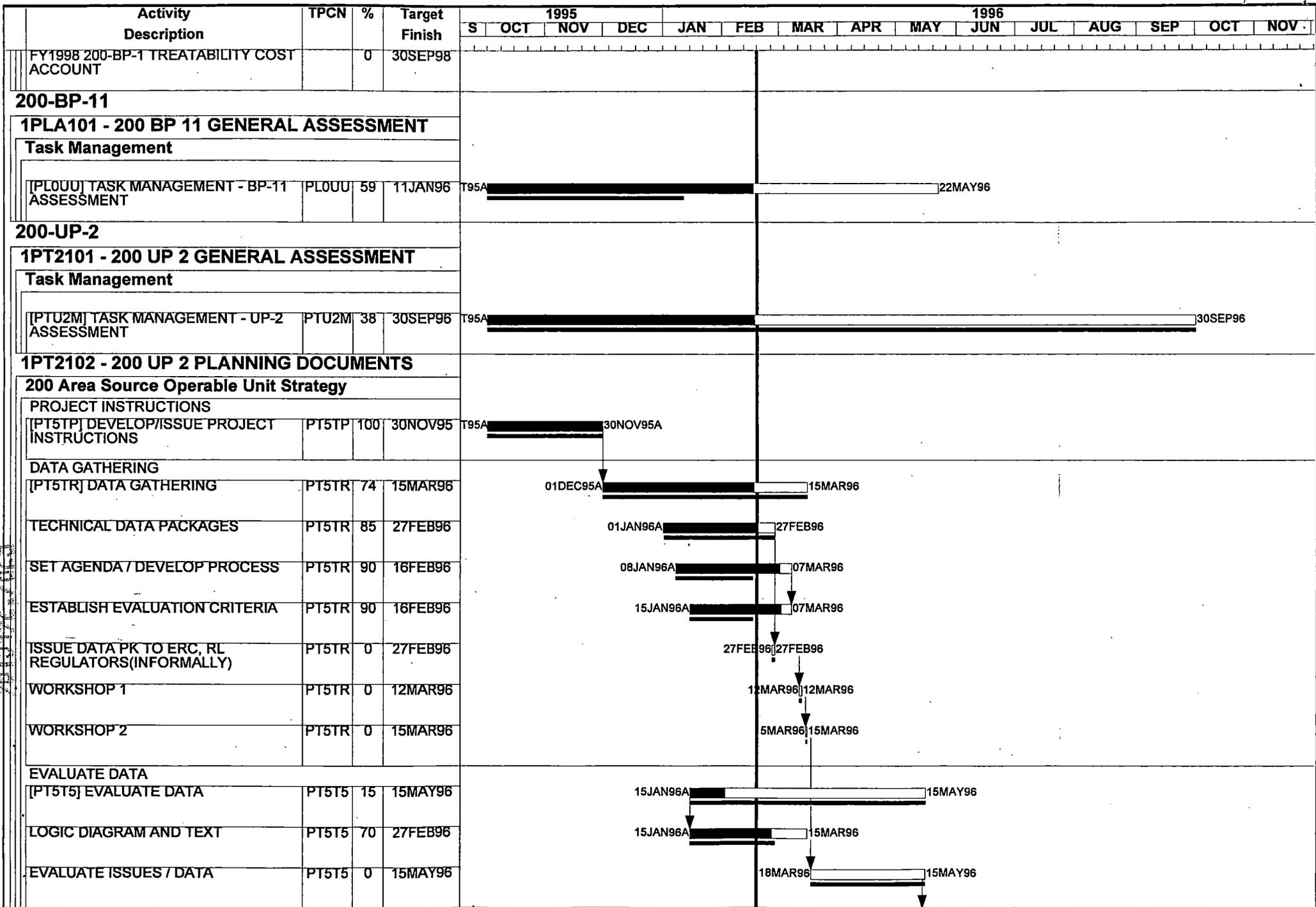
300-FF-2 Operable Unit

RI/FS Work Plan/ LFI Report - The Tri-Party Agreement Change Control Form (M-13-95-02) that directs the ERC to cease work on finalization of the work plan and proceed directly to preparation of the Limited Field Investigation (LFI) report was approved by the regulators on February 16, 1996. Preparation of the LFI report is presently underway. The report, *Summary of the 300-FF-2 Operable Unit Data Quality Objective Process*, BHI-00601, was issued to RL on January 26.

Field Investigations - Meetings to discuss the workscope for the second round of groundwater sampling were held with the regulators. The revised scope includes installation and sampling from 4 cone penetrometer borings near the 316-4 Crib and well 699-S6-E4A. Field activities are scheduled to begin on March 18.

300-FF-5 Operable Unit

Operations and Maintenance Plan - Two DQO sessions were held on February 21 and 28. Meeting minutes have been prepared and forwarded to participants for comment. A DQO Summary Report is being prepared and will be included as an appendix to the Operations and Maintenance Plan.



0613102 7625

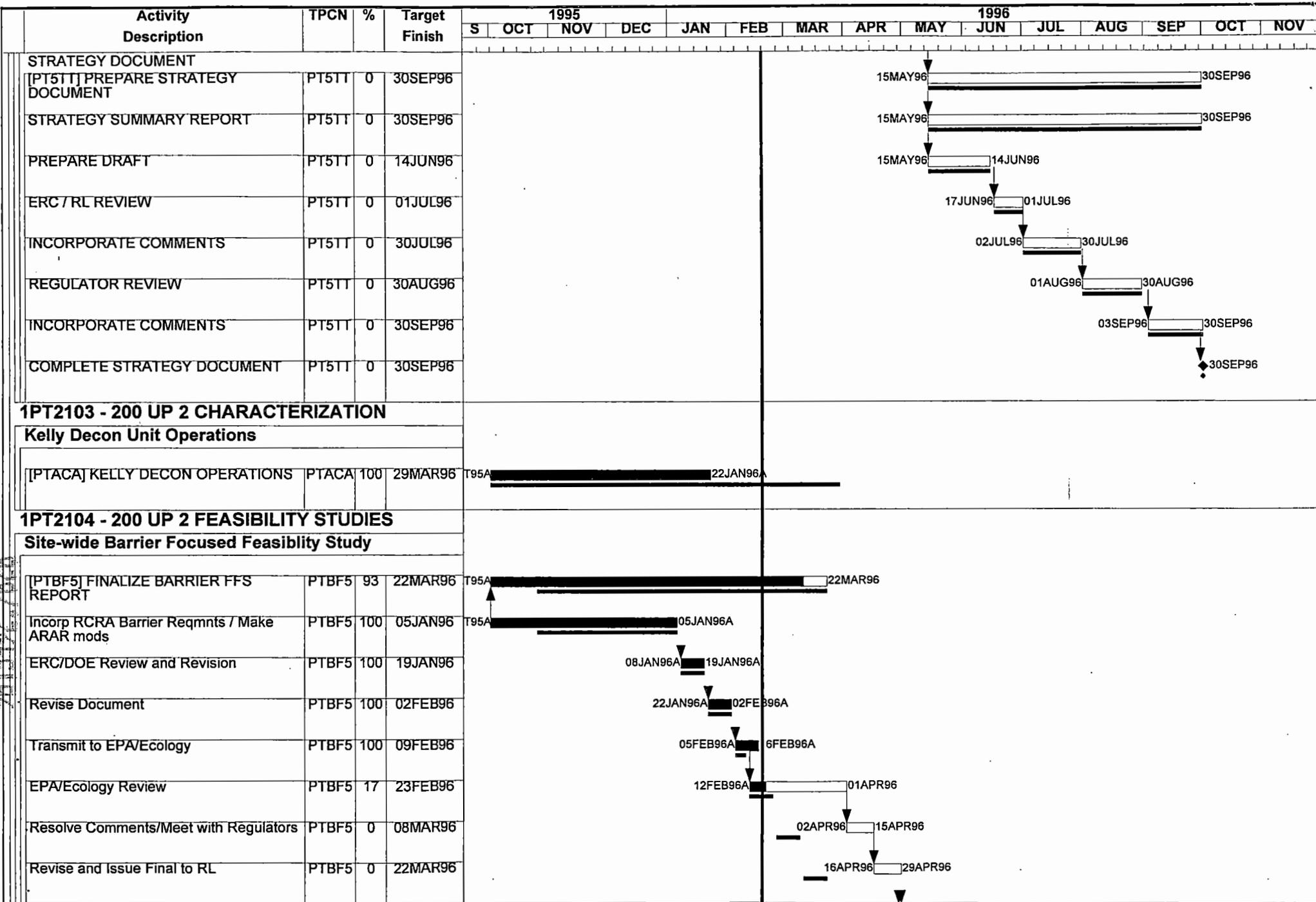
| | | | |
|----------------|---------|--------------|-------------------|
| Project Start | 28AUG95 | [White Bar] | Early Bar |
| Project Finish | 30SEP98 | [Black Bar] | Target Bar |
| Data Date | 19FEB96 | [Grey Bar] | Progress Bar |
| Plot Date | 15MAR96 | [Dashed Bar] | Critical Activity |

BUCK

**ERC - RICHLAND
200 AREA SOURCE
PROJECT REVIEW**

Sheet 2 of 5

| | | | |
|----------------|----------|---------|----------|
| K. ROWE 2-9609 | | | |
| Date | Revision | Checked | Approved |
| | | | |
| | | | |



Project Start 28AUG95
 Project Finish 30SEP96
 Data Date 19FEB96
 Plot Date 15MAR96

Early Bar
 Target Bar
 Progress Bar
 Critical Activity

BUCK

© Primavera Systems, Inc.

ERC - RICHLAND
 200 AREA SOURCE
 PROJECT REVIEW

Sheet 3 of 5

K. ROWE 2-9809

| Date | Revision | Checked | Approved |
|------|----------|---------|----------|
| | | | |
| | | | |
| | | | |

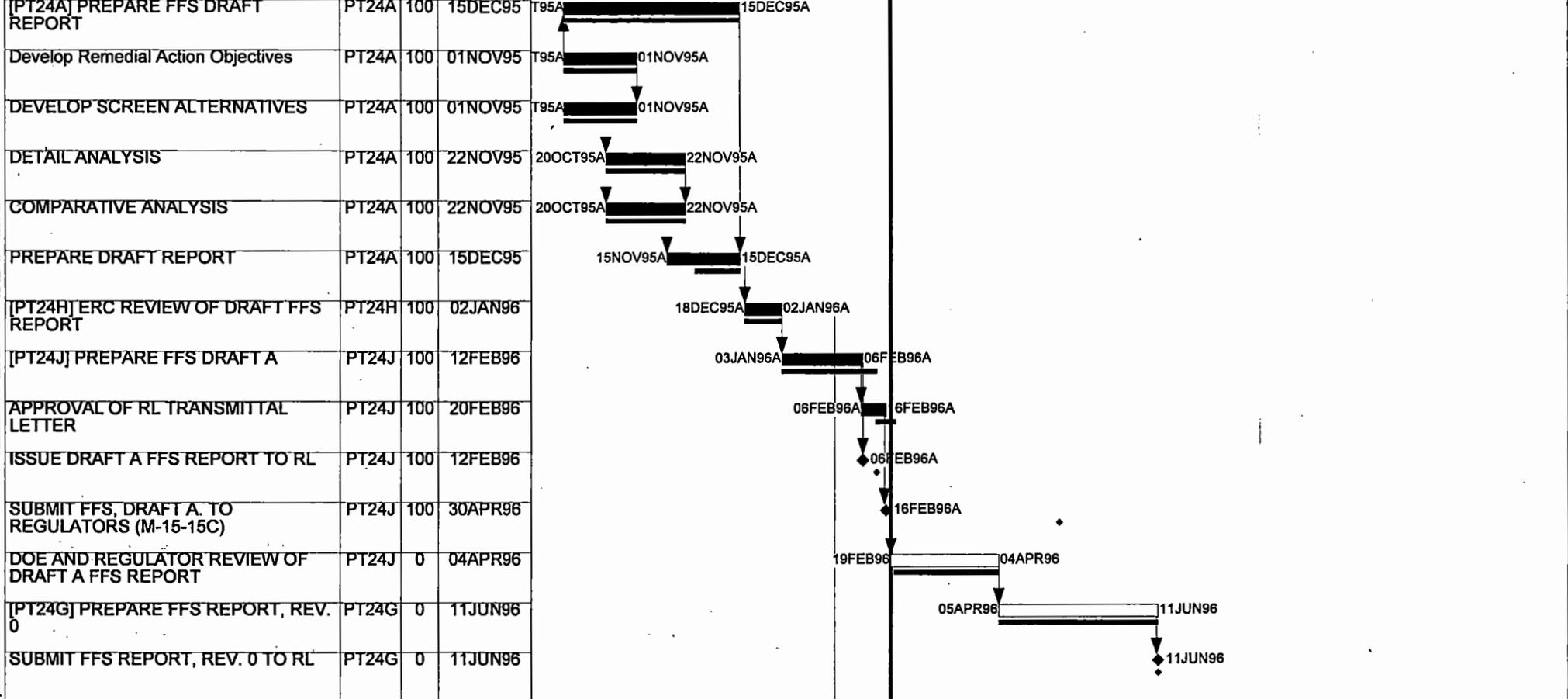
06/21/97 7:29

17/07/96

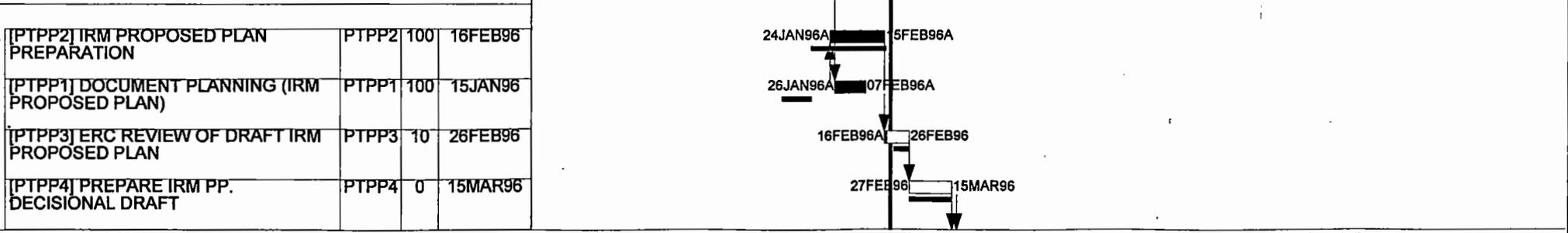
| Activity Description | TPCN | % | Target Finish | 1995 | | | | | 1996 | | | | | | |
|----------------------|------|---|---------------|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| | | | | S | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG |

Issue Barrier FFS Report to RL PTFB5 0 22MAR96 ◆29APR96

200-UP-2 Focused Feasibility Study



200-UP-2 IRM Proposed Plan



0613102 7627

170200

| | | |
|----------------|---------|-------------------|
| Project Start | 28AUG95 | Early Bar |
| Project Finish | 30SEP98 | Target Bar |
| Data Date | 19FEB96 | Progress Bar |
| Plot Date | 15MAR96 | Critical Activity |

BUCK

**ERC - RICHLAND
200 AREA SOURCE
PROJECT REVIEW**

| | | | | |
|--------------|----------------|---------|----------|--|
| Sheet 4 of 5 | K. ROWE 2-9609 | | | |
| Date | Revision | Checked | Approved | |
| | | | | |
| | | | | |

Distribution
Unit Manager's Meeting: Remedial Action Unit/Source Operable Units
100, 200, and 300 Areas

| | |
|-----------------------------------|--|
| Nancy Werdel | DOE-RL, RDS (H0-12) |
| Mike Thompson | DOE-RL, RDS (H0-12) |
| Glenn Goldberg | DOE-RL, RDS (H0-12) |
| John Murphy | DOE-RL, RDS (H0-12) |
| Julie Erickson | DOE-RL, RDS (H0-12) |
| Nicole Kimball | DOE-RL, RDS (H0-12) |
| Bryan Foley | DOE-RL, RDS (H0-12) |
| Robert McLeod | DOE-RL-ERD (H0-12) |
| Ellen Mattlin | DOE-RL, EAP (A5-15) |
| | |
| Lisa Treichel | DOE-HQ (EM-442) |
| Steve Balone | DOE-HQ (EM-442) |
| | |
| Dennis Faulk | 100 Aggregate Area Manager, EPA (B5-01) |
| David Einan | EPA |
| Paul Beaver | EPA |
| Larry Gadbois | EPA |
| Kevin Oates | EPA |
| | |
| Phil Staats | 100 Aggregate Area Manager, WDOE (B5-18) |
| Chuck Cline | WDOE (Lacey) |
| Wayne Soper | WDOE (Kennewick) |
| Ted Wooley | WDOE (Kennewick) |
| Gary Freedman | WDOE (Kennewick) |
| Norman Hepner | WDOE (Kennewick) |
| David Holland | WDOE (Kennewick) |
| Keith Holliay | WDOE (Kennewick) |
| | |
| Lynn Albin | Washington Dept. of Health |
| | |
| G. R. Eidam | (H0-17) |
| G. O. Gesell | (H0-17) |
| T. L. Lundquist | (H0-17) |
| J. R. James | (H0-17) |
| G. E. Van Sickle | (H0-17) |
| J. G. Woolard | (H0-17) |
| C. R. Johnson | (H0-17) |
| R. A. Carlson | (H0-17) |
| L. C. Hulstrom | (H9-11) |
| M. J. Galgoul | (H9-12) |
| Alvina Goforth | BHI DCC (H0-09) |
| Kay Kimmel | MAC (B1-42) |
| T. M. Wintczak | BHI (H0-11) |
| Andrea Hopkins | BHI (H9-11) |
| Tom Page (Please route to:) | PNL (K9-18) |
| Cheryl Thornhill | PNL (K9-14) |
| Mark Hanson | PNL (K9-02) |
| Roy Gephart | PNL (K9-70) |
| Steve Slate | PNL (K9-14) |
| Bill Stillwell | PNL (K9-09) |
| Ben Johnson | PNL (K9-70) |

Please inform Tamen Lundquist (372-9562) of BHI
of deletions or additions to the distribution list. Attachment #1