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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
April 18, 1996

FROM/APPROVAL: Nancy Werdel Date 5/16/96
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: Dennis P. Faulk Date 16 May 96
for Dennis Faulk/Kevin Oates, 100 Aggregate Area Unit Managers, EPA (B5-01)

APPROVAL: R. McLeod Date 5/16/96
for Robert G. McLeod, 300 Area Unit Manager, RL (H0-12)

APPROVAL: Jeanne Wallace Date 6/6/96
Jeanne Wallace, 300 Area Aggregated Area Unit Manager
WA Dept of Ecology (B5-18)

APPROVAL: David R. Einan Date 16 May 96
David R. Einan, 300 Area Aggregated Unit Manager, EPA (B5,01)



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) Steve Slate PNL (K9-14)
 Mark Hanson PNL (K9-02) Bill Stillwell PNL (K9-09)
 Roy Gephart PNL (K9-70) Ben Johnson PNL (K9-70)

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

- Attachment #1 - Agenda
 - Attachment #2 - Attendance Record
 - Attachment #3 - Meeting Minutes
 - Attachment #4 - Status Package
 - Attachment #5 - 200 Area Status
 - Attachment #6 - 300-FF-1 Area Status
 - Attachment #7 - 300-FF-2 Area Status
-

Prepared by:  Date 6/10/96
Gary Gesell/Tamen Lundquist (H0-17)

Concurrence by:  Date 6/10/96
Greg Eidam, BHI Remedial Action Projects Manager (H0-17)

APRIL 1996 UMM AGENDA**1:00 p.m. 100 Areas**

- Review Meeting Minutes
- Comments on Status Package
- "D" Pond Remediation Status
- B/C Analytical Equipment Status
- Status of Remedial Design Report Review
- Status of Sampling and Analysis Plan Review
- B/C Remediation Schedule Review
- Open Discussion

2:30 p.m. 300 Area

- Review Meeting Minutes
- Comments on Status Package
- ROD Review Status and Initial Comments
- Remedial Design Status
- Open Discussion

4:00 Close

NOTE: The 200 Areas will not meet this month. The 200 Areas UMM meeting will be replaced by a 200 Areas Strategy workshop scheduled for April 18. The purpose of this workshop will be to continue the development of a strategy on how to proceed with the 200 Areas assessment and remediation.

Unit Managers' Meeting Minutes
April 18, 1996

General Information

- The April UMM was held; however, attendance was low because of the HAB subcommittee meeting.
- Please provide independent comments, if any, on the April Status Package and March meeting minutes. The March minutes will be signed by the remaining signatories at the May UMM.

100 AREAS

ERDF Disposal Issues

- The EPA is working on an ESD for the ERDF ROD that will enable disposal of RCRA waste in ERDF, but will not specifically authorize waste disposal from any particular site. Such disposal must be authorized by separate decision documents. The ERDF ESD will be completed by July 1, following a 30-day public comment period.
- Consistent with the ERDF ESD (above), ERDF disposal of waste from the 183-H Solar Evaporation Basins may be included in the 100 Areas ESD, which is being written to add more sites to the existing 100 Areas ROD.
- D-Ponds may also be included in the 100 Areas ESD. However, this is only a backup plan. The ERC is currently looking at alternative disposal options for D-Ponds (i.e., as nondangerous, non-Rad waste for use as fill at the low-level burial grounds).
- The ERDF ROD will authorize disposal of all Hanford Site IDW, per EPA. No subsequent site-specific decision documents will be needed to authorize disposal of IDW in ERDF.

RDR/RAWP

- The draft RDR/RAWP is completed, which helps put the SAP in perspective. Work will begin again in 2 weeks.
- Ecology, EPA, and DOE requested copies of the SAP.

300 AREA**Action Items**

None.

300-FF-1/300-FF-5 Record of Decision

- The draft ROD is currently being reviewed; DOE will provide comments on April 24. Internally, a few issues and a few inconsistent references remain.
- The ERC provided requested figures for the ROD to EPA.
- The ERC review of the 300-FF-1 ROD is complete.
- It was recommended that a discussion be included in the ROD that allows for areas outside of FF-1 and within the shadow of the boundary to be removed if within the operating areas of this cleanup.

300-FF-1 Remedial Design Activities

- The 30% design review starts on April 23. The design review presentation is on April 24 at 2:00 p.m. Comments are due back COB, May 2.
- A preliminary draft annotated outline for the RDR/RAWP is complete. A copy was provided to EPA and Ecology.
- Sampling and Analysis Plan
 - DQO meetings were held on April 2, 9, and 17
 - DQO needs to be completed by May 2 to maintain the design schedule
 - SAP/RDR/RAWP Tri-Party Agreement submittal timing: the timing difference is about 1 week (mid-August) to release the document.
- The ERC suggested to maintain a degree of independence regarding conflicts before the ROD is signed.

300-FF-5 Operational and Maintenance Plan

- The O&M plan will be ready to issue for regulator review after the ROD is completed; the EPA does not want to see it until the ROD is completed.
- It was suggested to include the "Points of Compliance" (the design of the O&M plan) in the ROD.

Forecasted Activities

- Continue to support the ROD.
- Continue remedial design; 60% design review starts on June 3.
- Start remedial action planning.

300-FF-2

The 300-FF-2 activities were not discussed, but a handout was provided for update; the information is provided below.

Status of 300-FF-2 Cone Penetrometer Borings at the 316-4 Crib/618-10 Burial Ground

March 18, 1996

On March 18, 1996, field activities were initiated at the 316-4 Crib/618-10 Burial Ground per the workscope that had been previously discussed with and approved by the regulators and DOE-RL. This workscope included installation of four cone penetrometer borings around the 316-4 Crib area to help determine the nature and extent of contamination found in the groundwater during the sampling that had taken place in September 1995 at well 699-S6-E4A.

The first CPT boring reached a depth of approximately 17.7 m (58 ft) where it encountered a hard layer, which in turn contributed to failure of the drill rod. The drill rod broke off approximately 4.5 m (15 ft) below the surface and was deemed irretrievable. The boring was abandoned using a bentonite backfill, and the drill rig was moved over several feet to make a second attempt. The second attempt reached approximately 17 m (56 ft) before failure of the drill rod occurred again at a depth of 3.9 m (13 ft). At this time it was decided that the rig would be moved to the second location to determine whether the first location had simply been placed over a large boulder that could not be penetrated.

Late on March 18 at the second location, another attempt was made to install a CPT boring. A depth of approximately 17.3 m (57 ft) was achieved before the drill rod failed. This time the rod broke at only 1.6 m (5.5 ft) below the surface. The surface sands were removed to allow the

drillers to clamp onto the broken rod, and they were able to successfully retrieve the remaining rods.

After discussions to evaluate progress to date, it was hypothesized that there is a caliche or cemented sand layer at approximately 16.7 m (55 ft) that is inhibiting the drill rod penetration. This layer is potentially really extensive since the two locations attempted thus far are at least 30.5 m (100 ft) apart. It was concluded that as the drill rod hit the caliche that the resonant energy in the rod was transferred back up the rod to the point where the overlying sand formation was reached. At this point there was sufficient movement allowed in the loose sand that movement of the rod occurred to the point where the threaded joints were breaking.

March 19, 1996

On March 19, a larger diameter 6.1-m (20-ft) section of drill rod was driven into the upper sands. The smaller CPT rod was then inserted and boring was initiated. The caliche layer was encountered again at about 17.3 m (57 ft). This time drilling was able to continue and break through the caliche, which was about 1.5 m (5 ft) thick. A depth of 19.3 m (63.5 ft) was reached at which time drilling once again became more difficult and the drill rod broke off at about 3.2 m (10.5 ft) below the surface. Using tools that the drillers had available, they were able to remove the broken threaded section and reattach to the drill rod.

At this time (approximately 12:15 p.m.) work was halted by the ERC field superintendent, and discussions were held with all field personnel to reevaluate the situation. It was concluded that the methods being used would not likely succeed. Rather than attempting to penetrate further and risk losing another section of drill rod, it was agreed that the rod should be pulled out and other methods of penetrating the subsurface be evaluated.

At 2:45 p.m. on March 19, the field superintendent was contacted for a status. An alternate method using a larger diameter drill rod to air rotary drill down to just above the water table will be attempted on March 20. Using a larger drill rod with an air compressor and a drill bit to penetrate the hard layer, a larger hole will be opened and driven until groundwater is almost reached. The air compressor will be turned off and the rod will be pushed the remainder of the distance to groundwater in order to not compromise the volatile organic samples that are to be taken, along with the other analytes. If this method is successful, then further borings may be attempted. If unsuccessful, work will be halted until a more comprehensive evaluation can be performed.

March 20, 1996

As of 10:00 a.m. on March 20, a depth of 16.7 m (55 ft) had been reached and advancement had been slowed due to the caliche layer. In addition, a hydraulic pump on the rig that acts to cool the drilling head had ceased to operate, and work was stopped to investigate the situation. No additional work had been completed by close of business (COB) since a new pump had to be

procured. It was projected that work would restart approximately around noon on March 21. In addition to a new pump, a new drill bit was being procured. The ERC field superintendent felt that this should greatly increase the ability to drill through the caliche layer. As of COB March 20, about \$17,756 has been spent out of a budget of \$26,500 for Water Development. After this boring is completed, a reevaluation will take place to determine if further work is needed.

March 21, 1996

As of noon on March 21, the drill rig had been repaired and a new bit was installed. At about 2:30 p.m., a depth of 19.8 m (65 ft) had been reached, but forward motion was slow. It was intended that the air compressor would be shut off near 21.3 m (70 ft); the CPT drill rod and sampler would then be exchanged for the rod and bit being used, and the sampler would then be pushed into the water table. From a cost perspective, the ERC field superintendent indicated that Water Development was willing to guarantee the four sample points if ERC was willing to pay for 1 to 2 additional days of rig time (about \$7,000). This will be confirmed before proceeding with the remaining borings.

March 22, 1996

On March 22, after repairing mechanical problems (hose, sub) that had occurred, drilling was continued. A different cutting bit was attached to the end of the drill rod. About 0.305 m (1 ft) of sample from material at the bottom of the hole was removed and containerized. It had the appearance of basalt pebbles and grey flour from material that had been ground up. Due to difficulties encountered, the 6.3-cm (2.5-in.) CPT rod was removed and 12.2 m (40 ft) of the larger 76-mm (2.9-in.) casing was inserted. This was followed by the 4.4-cm (1.75-in.) CPT rod with a 2 roller cone bit and the use of air to remove the cuttings. Because the larger 76-mm (2.9-in.) casing had been inserted, the loss of air to the formation was reduced; however, cuttings were also forced to the surface. Work was stopped to install a cuttings diverter to prevent the potential spread of the cuttings being blown to the surface. Work resumed and the hole was driven to 22 m (72.4 ft). Groundwater was tagged at about 21.6 m (71 ft). Work was halted for the day.

March 25, 1996

On March 25, groundwater sampling activities at the hole were initiated. Some problems were being encountered with the amount of silt that was present in the water sample. As of late morning, due to a meeting requiring the presence of the RCT, work was temporarily halted at the site.

In parallel with this activity, an ERC project team meeting took place from 8:30 to 10:00. After discussing options, it was decided that the most effective approach to achieving the project objectives would be to (1) sonically drive a 11.4-cm (4.5-in.) casing down to approximately 12.2 to 15.2 m (40 to 50 ft) or to the top of the hard layer; (2) core with a core barrel down to

approximately 0.305 m (1 ft) above groundwater or to about 21.3 m (70 ft); (3) monitor all soils removed with the core barrel for H&S monitoring and rad constituents; and (4) reinsert the CPT rods with a sampling tip through the larger casing, and drive the rod to groundwater where sampling would be performed. Modifications to the Water Development contract and the Radiation Work Permit would be made, and the Waste Control Plan would be reviewed to determine if it required modification. A rough-order-magnitude estimate of approximately \$30,000 was determined to cover the cost of one additional day for Water Development; these costs are associated with ERC staff coverage, the cost for drums to contain drill cuttings (if required), and a possible sample of the cuttings for waste designation purposes (if required).

Subsequent to the meeting, it was determined that the existing Waste Control Plan was adequate to address the modified workscope, and the Project Lead (C. Johnson) received verbal approval from DOE (R. McLeod) to proceed with the revised scope.

As of 3:00 p.m., a modified bailer/sampling pump system had been devised to reduce the amount of silt that was being withdrawn during sampling, and sampling activities had been started up again. In addition, it had been determined that the RWP and HASP did not require modification, the Water Development contract modifications had been put in place, and equipment for the revised drilling/boring method had been brought to the jobsite to prepare for the next boring on March 26.

March 26, 1996

Sampling activities at the first boring to reach groundwater (designated as Borehole B2763) were completed at about 8:30 a.m. Activities to remove the casing and abandon the boring were completed by about 10:00 a.m., and preparations to move to the next location were begun. The next sample location (designated as Borehole B2764) is between the 618-10 Burial Ground and the 316-4 Crib.

Activities at the next location began by using a 11.4-cm (4.5-in.) drilling rod with an open bit on the end. Approximately every 3 to 4.5 m (10 to 15 ft), the drill rods were tripped out and soils that were accumulated up into the drill bit were removed at the surface and monitored. At 10.3 to 11.5 m (34 to 38 ft), the material had the appearance of 7.6-cm (3-in.) rounded pebbles, gravels, and silts. Some cobbles up to 12.7 cm (5 in.) were present. A harder layer was encountered from 11.5 to 12.8 m (38 to 42 ft). The material was softer between 15.8 to 17 m (52 to 56 ft). During removal of the drill rods, with 6.7 m (22 ft) of rod still in the hole, the OVM detected >70 ppm of organic vapors present in the drill rod. Work was halted and the drive head was replaced on the drill rods to close off the rods. Work was stopped for the day until the situation could be reassessed and appropriate precautions taken. Workers indicated that the odor was like a sweet musty smell, not that of diesel oil. It was also noted by the workers that the drive barrel was excessively hot from dry drilling through the gravels, and it was suggested that the hot drive barrel may have acted to heat the organics in the soils and caused the volatilization that was seen as offgas. Later conversations with the RCT and sampler indicated

that soils appeared to be getting slightly damp at 11.5 m (38 ft), and were more so later at about 14.6 m (48 ft).

March 27, 1996

Discussions with site personnel were held early in the day. Revisions were made to the RWP and HASP to address the VOAs that had been detected. Supplies (bottle cart, airlines, respirators and masks, whites, etc.) were located and brought to the jobsite by about noon. After reviewing the situation and procedures with field personnel, the driller and field superintendent removed the remaining drill rod. Monitoring was performed at various steps, and no notable vapors were found. (Arrangements had been made to obtain a vapor sample via Tedlar bag for field screening analysis to assist in identifying the vapors, but was not required when none were found.) The drive barrel was sleeved, and then the soils in the barrel were knocked loose and dropped into a drum. It was noted that the soils at the bottom of the barrel (16.4 to 17 m [54 to 56 ft]) appeared slightly moist, the center area (15.8 to 16.4 m [52 to 54 ft]) was relatively dry, and the top section (15.5 to 15.8 m [51 to 52 ft]) was fairly moist. It was suggested that the heat from the drive barrel may have "cooked" the soils and drove the moisture to the upper section. An E-tape was used to determine the depth to the bottom of the hole, which was determined to be 15.5 m (51 ft). This implied that since the previous day's depth had been 17 m (56 ft), that about 1.5 m (5 ft) of the hole had sloughed in over night.

After containing the soils and removing the 11.4-cm (4.5-in.)-drive barrel, the workers added a quantity of sand and bentonite to seal off the possible open zone where the vapors had originated; the workers were then taken off supplied air and out of whites. The smaller CPT rods were attached and rods with a sample tip were driven down to groundwater. Water was tagged at 18.7 m (61.5 ft) with the rods extending down to about 19.8 m (65 ft).

The sampling crew set up and began sampling with no noted difficulties. They noted that the water was silty for a short time (>100 NTU), but clarified after a short time. Sampling was completed about 4:00 p.m., and the crew backpulled the rods and abandoned the hole. The drilling equipment was rigged down and demobilized off site.

Status of Second Round Groundwater Sampling at the 618-11 Burial Ground Vicinity

Groundwater sampling of four wells near the 618-11 Burial Ground was initiated during activities taking place at the 316-4 Crib area. While awaiting rig repairs on March 20, the samplers performed sampling from the 699-12-4D well. On March 21, a second sampling crew completed another well, and the remaining two wells were sampled on March 22. Samples should be ready for shipment by March 26.

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Attachment 4

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STATUS PACKAGE

UNIT MANAGERS' MEETING - APRIL 1996

SOURCE OPERABLE UNITS

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

200 AREAS

300 AREA

prepared by

DOE-RL

4/18/96

100 AREAS

Focused Feasibility Studies and Proposed Plans

100 Area Remaining Sites ESD - In project meetings held during March, an Explanation of Significant Differences (ESD) was promoted by the U.S. Environmental Protection Agency (EPA) and the Washington State Department of Ecology (Ecology) to address some of the remaining 100 Area radioactive liquid waste sites by attaching them to the current Record of Decision (ROD) for the 100 Areas. This approach is consistent with the strategy presented in EPA and Ecology's February letter concerning RODs for the 100 Areas. The regulators have agreed to prepare a draft ESD addressing approximately 34 sites to be available for their review in June 1996.

Correspondence from EPA to the U.S. Department of Energy (DOE), Richland Operations Office (RL) received in late March, however, indicated that prioritization of EPA's work load has resulted in their inability to address this (and several other) DOE projects. It is not clear how EPA's position on this matter will affect the Remaining Sites project.

100-IU-1/100-IU-3/100-IU-4/100-IU-5 PP - Following the signing of the "no action" ROD in February 1996, an action remains to close out the bioremediation of soil from 100-IU-1 that is stockpiled at 100-B/C. DOE has submitted a data summary indicating that adequate bioremediation has occurred, and that use of the soil is not restricted.

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 the *100 Area Record of Decision Strategy* recommended that the 100-IU-2 and 100-IU-6 Operable Units (OU) be addressed through Washington State regulations (e.g., solid waste regulations) rather than CERCLA. The advantages and disadvantages of the regulators' 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 focus feasibility studies (FFS) and proposed plans (PP) for these OUs since receiving a letter from EPA (October 20, 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. Some high-priority radioactive liquid effluent disposal sites located in these OUs are candidates for the proposed June 1996 ESD (discussed above).

100-DR-2/100-HR-2 - Work has been suspended on FFSs and PPs for these OUs since receiving a letter from Ecology (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. Some high-priority radioactive liquid effluent disposal sites located in these OUs are candidates for the proposed June 1996 ESD (discussed above).

Treatability Studies

Rock Screening - The *100 Area Rock Screening Study* (BHI-00722) was issued in February 1996.

B/C Demonstration Project

100-BC-1 ERA - The *100-B/C Demonstration Project Final Report* was issued in March. The verification package for 116-B-4 was received and forwarded to EPA for concurrence. The verification package for 116-B-5 is being drafted.

B/C Area

Group 1 Remedial Design - Detailed design is complete for all 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), 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 was provided for regulatory review on April 2, 1996. The Sampling and Analysis Plan was drafted and provided for regulatory review on April 5, 1995.

Remedial Action - Seven bids were received on March 25. The technical evaluation is in progress, and the award is anticipated in April.

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

200-UP-2 FFS - The 200-UP-2 FFS is currently undergoing DOE and regulatory review. Comments were received from RL and HQ. Comments from Ecology on the 200-UP-2 FFS are anticipated in April 1996. The proposed plan is currently undergoing DOE review. The proposed plan is scheduled to be submitted to the regulators by April 30, 1996, to meet a Tri-Party Agreement milestone.

Barrier FFS - Comments were received from EPA and Ecology on the Barrier FFS. Comment dispositions are being developed, and a meeting is scheduled for April 4, 1996, to resolve comments.

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, the Environmental Restoration Contractor (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 OU 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 OUs. 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. Still awaiting Ecology approval of the letter agreement.

200-BP-1 Operable Unit

Prototype Barrier Testing - PNNL continues testing and monitoring activities on the prototype barrier. The 1,000-year rain event testing was conducted the last week of March 1996.

200 Areas Strategy

A workshop was held between the Tri-Parties to develop a 200 Areas Remedial Action Strategy. During the workshop, several key assumptions were agreed to and the criteria for grouping the waste sites was established. The proceedings of the workshop will be documented in meeting minutes. The following actions still need to be completed to develop the strategy: conduct the grouping of the waste sites, finalize assumptions, determine ways to streamline the process, and develop priorities. Follow-on meetings are planned for April. A draft strategy is to be prepared by May 31, 1996.

300 AREA

300-FF-1 Operable Unit

Proposed Plan - N/A.

Record of Decision - The EPA has submitted a draft ROD to DOE for review. The project schedule is based on a completed ROD by May 14, 1996.

Remedial Design - The remedial design subcontractor is on schedule to submit the 30% design on April 22, 1996. During the weekly progress meeting with the subcontractor, no major issues were identified. Two DQO sessions were held on April 2 and April 9 for the Sampling and Analysis Plan. The DQO is progressing and needs to be completed by the time the 30% design review is complete.

300-FF-2 Operable Unit

RI/FS Work Plan/ LFI Report - Preparation of the LFI report is presently underway. ERC review of the draft report is scheduled to begin on May 13, 1996.

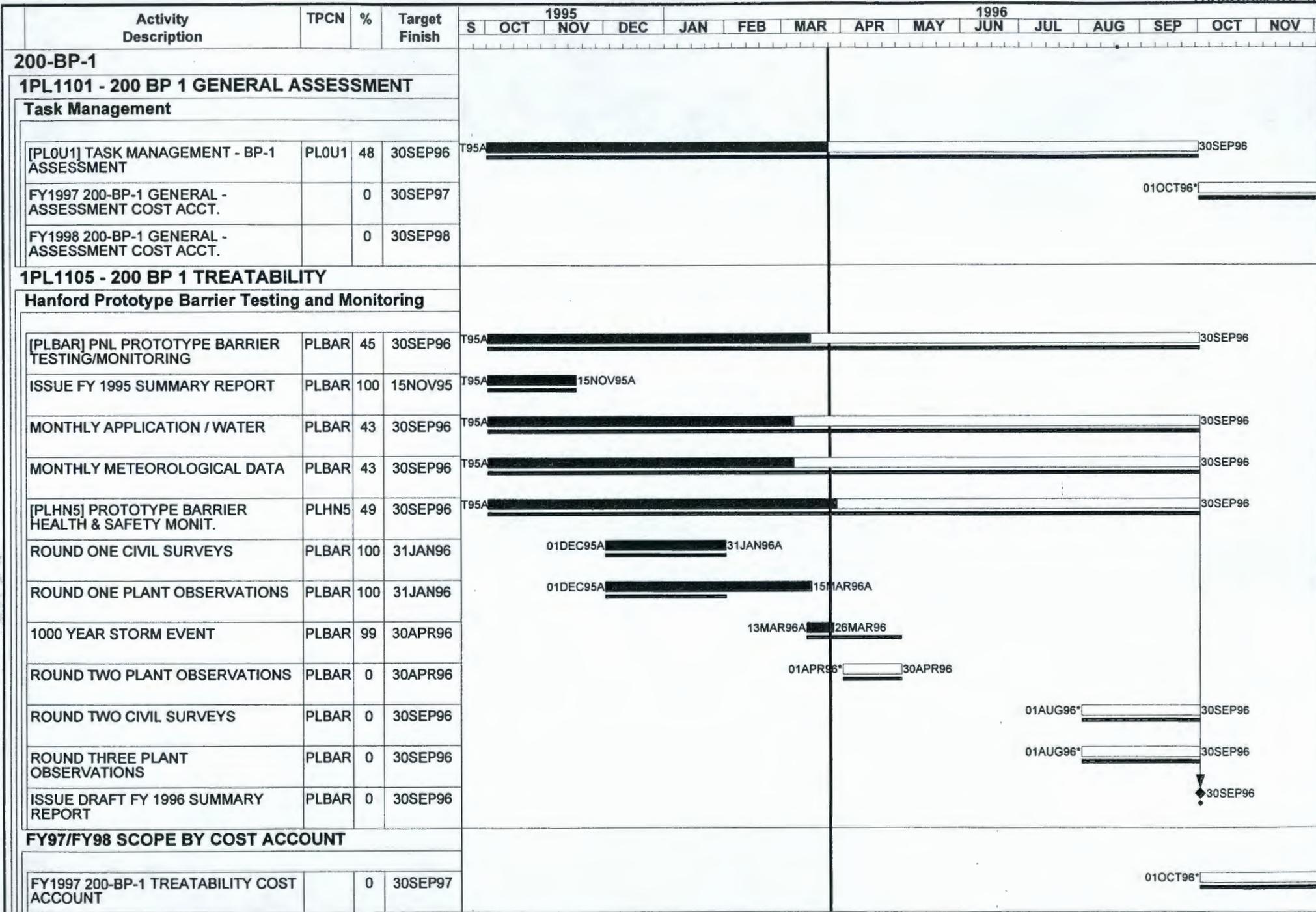
Field Investigations - The second round of groundwater sampling activities began on March 18. Sampling from four wells near the 618-11 Burial Ground was completed by March 22. After encountering a very hard layer near the 316-4 Crib/618-10 Burial Ground and three unsuccessful attempts to install cone penetrometer (CPT) borings, the hard layer was successfully penetrated at two locations. Sampling was completed at both locations.

At the second location between the 316-4 Crib and the 618-10 Burial Ground, the presence of organic vapors at 70 ppm was noted. Because of the difficulties associated with drilling through this hard layer and the possible volatilization of organics from the subsurface, a meeting was held with the regulators on April 1 to discuss the status of sampling. It was the consensus that the two remaining CPT borings would not be attempted, and that enough data for the LFI report had been collected at this time. Selected analyses from the two CPT borings completed would be expedited at the laboratory to obtain the data sooner. After the data is evaluated, further discussions with the regulators will be held so that decisions on possible further workscope at the site may be made. Attachment 1 is a chronology of the events as they occurred relative to this sampling effort. It has been provided to document all of the activities that took place, and to provide background for the proposed actions and recommendations that were discussed on April 1.

Groundwater sampling from 699-S6-E4A was completed on April 3 with the use of appropriate respiratory protection. Data from this well has also been prioritized at the laboratory. Priority data from the two CPT borings is scheduled to be delivered to the ERC on April 16, followed on April 22 by the data from well 699-S6-E4A. The remaining data that was not prioritized is scheduled for delivery on May 13.

300-FF-5 Operable Unit

Operations and Maintenance Plan - The DQO Summary Report was completed and signed by the decisionmakers and is attached as Appendix A to the Operations and Maintenance Plan. The Operations and Maintenance Plan is complete and is ready for submittal to DOE and the regulators upon issuance of the ROD. This assumes that no changes occur as a result of the ROD review currently underway.



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Project Start 28AUG95
 Project Finish 30SEP98
 Data Date 25MAR96
 Plot Date 15APR96

Early Bar
 Target Bar
 Progress Bar
 Critical Activity

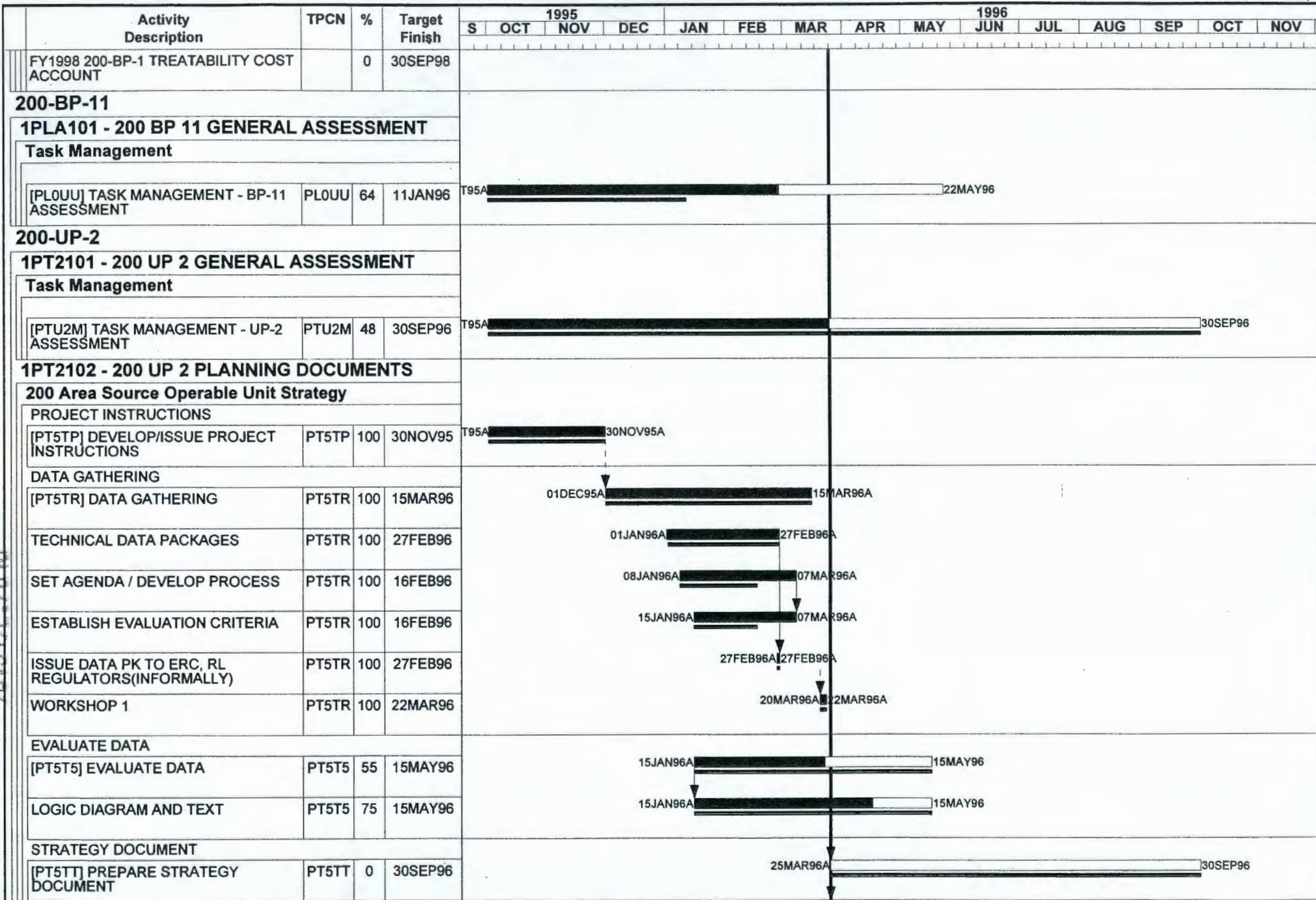
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BUCK

ERC - RICHLAND
 200 AREA SOURCE
 PROJECT REVIEW

Sheet 1 of 5

K. ROWE 2-9609			
Date	Revision	Checked	Approved



9613492 7648

Project Start 28AUG95
 Project Finish 30SEP98
 Data Date 25MAR96
 Plot Date 15APR96

Early Bar
 Target Bar
 Progress Bar
 Critical Activity

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BUCK

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

K. ROWE 2-9609			
Date	Revision	Checked	Approved

Activity ID	Activity Description	TPCN	%	Target Finish	1995			1996										
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
FY95 CARRYOVER ACTIVITIES-FS III DOCUMENT																		
3A0050	REWRITE - INCORPORATE COMMENTS IN FS III	P211A	100	23OCT95			20NOV95A											
3A0055	DELIVER FINAL FS III TO DOE	P211A	100	24OCT95			21NOV95A			21NOV95A								
FY95 CARRYOVER ACTS.-PROCESS TRENCH CLOSURE PLAN																		
3A0400	INCORPORATE REGULATOR COMMENTS & SUBMIT TO DOE	P211K	100	23OCT95			22NOV95A											
3A0405	TRANSMIT FINAL CLOSURE PLAN TO DOE	P211K	100	13NOV95			22NOV95A			22NOV95A								
3A0410	REGULATOR ADVANCED REVIEW PERIOD	P211K	100	27NOV95			22NOV95A			01DEC95A								
3A0415	PUBLIC REVIEW	P211K	100	31JAN96			04DEC95A						17JAN96A					
3A0417	PUBLIC REVIEW EXTENSION	P211K	100										18JAN96A			09FEB96A		
3A0420	PUBLIC MEETING	P211K	100	04JAN96									25JAN96A			25JAN96A		
300-FF-1 PROPOSED PLAN (INC. FY95 CARRYOVER)																		
3A0150	INCORPORATE REGULATOR COMMENTS AND REVISE	P211G	100	23OCT95			16NOV95A											
3A0155	TRANSMIT FINAL PROPOSED PLAN TO DOE	P211G	100	24OCT95			16NOV95A			16NOV95A								
3A0160	REGULATOR ADVANCED REVIEW PERIOD	P211G	100	10OCT95			17NOV95A			01DEC95A								
3A0165	PUBLIC REVIEW	P211G	100	09NOV95			04DEC95A						17JAN96A					
3A0167	PUBLIC REVIEW EXTENSION	P211G	100										18JAN96A			09FEB96A		
3A0170	PUBLIC MEETING	P211G	100	25OCT95									25JAN96A			25JAN96A		
3A0175	SUPPORT FOR ROD ISSUE	P211G	69	02FEB96									12FEB96A					14MAY96
3A0180	ISSUE ROD	P211G	0	07FEB96														14MAY96
PRE-DESIGN REPORT																		
3A0015	PREPARE DRAFT PRE-DESIGN REPORT	P211M	100	27OCT95			12DEC95A											

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Project Start 28AUG95
 Project Finish 07OCT96
 Data Date 11APR96
 Plot Date 17APR96

Early Bar
 Target Bar
 Progress Bar
 Critical Activity

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ERC - Richland
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 Project Review

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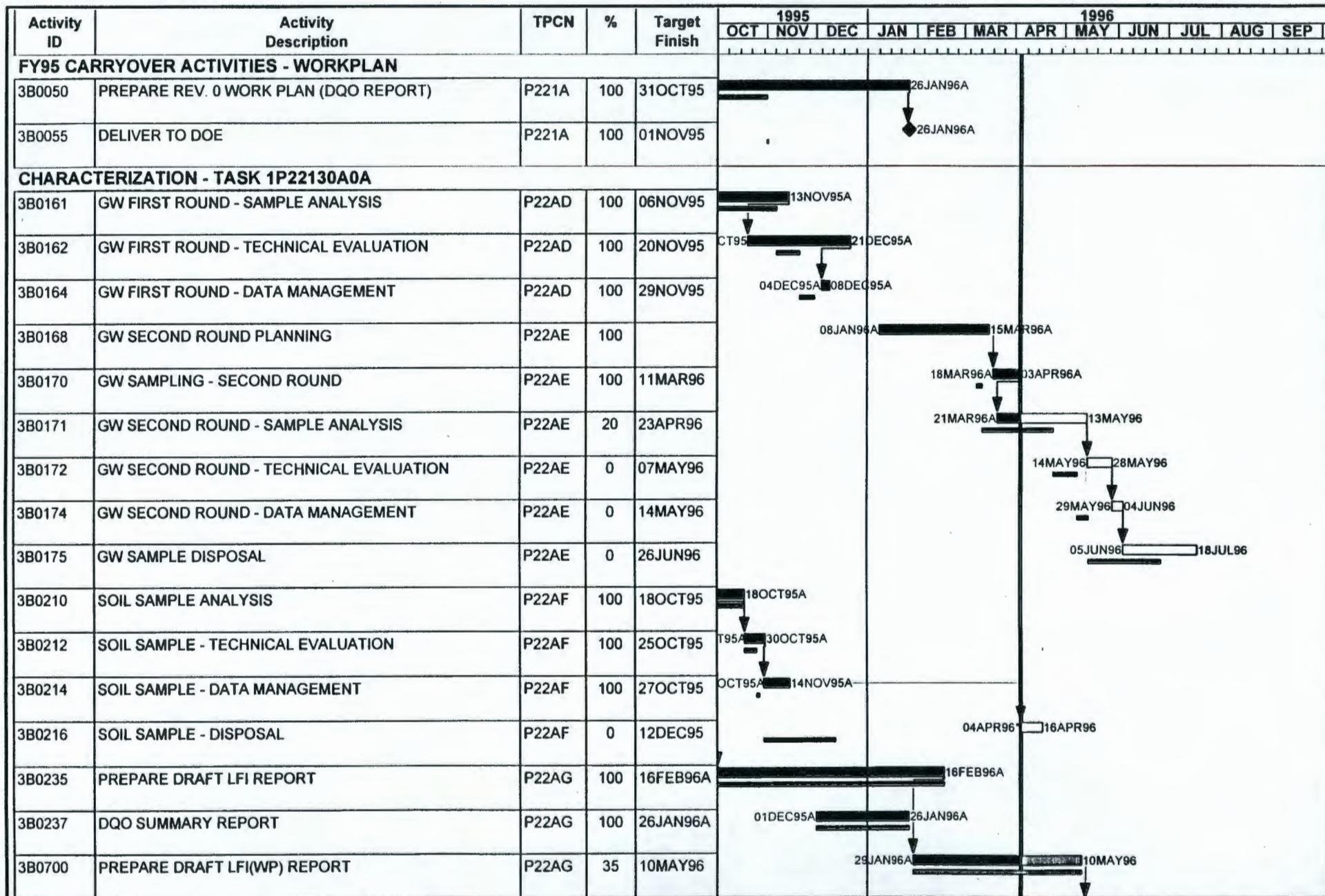
W Lambert 2-0070

Date	Revision	Checked	Approved

Activity ID	Activity Description	TPCN	%	Target Finish	1995			1996								
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
300-FF-5 PROPOSED PLAN																
3C0002	INCORPORATE COMMENTS & ISSUE FINAL PLAN TO DOE	P2541	100		16NOV95A											
3C0004	REGULATOR ADVANCED REVIEW PERIOD	P2541	100	10OCT95	17NOV95A 01DEC95A											
3C0005	PUBLIC REVIEW	P2541	100	09NOV95	04DEC95A 17JAN96A											
3C0006	PUBLIC MEETING	P2541	100	25OCT95	25JAN96A 25JAN96A											
3C0007	PUBLIC REVIEW EXTENSION	P2541	100		18JAN96A 09FEB96A											
3C0008	SUPPORT FOR ROD ISSUE	P2541	69	06FEB96	12FEB96A 14MAY96											
3C0009	ISSUE ROD	P2541	0	09FEB96	17MAY96											
O&M PLAN (FY95 CARRYOVER)																
3C0827	HOLD DQO SESSION	P2543	100	06NOV95	15FEB96A 28FEB96A											
OPERATION & MAINTENANCE PLAN																
3C0012	ADDRESS DOE COMMENTS	P2545	95	20OCT95	12APR96											
3C0016	TRANSMIT TO DOE	P2545	0	23OCT95	4MAY96 15MAY96											
3C0020	DOE TRANSMIT TO REGULATORS	P2545	0	30OCT95	16MAY96 22MAY96											
3C0024	REGULATOR REVIEW	P2545	0	18DEC95	23MAY96 11JUL96											
3C0026	INCORPORATE REGULATOR COMMENTS	P2545	0	04JAN96	12JUL96 25JUL96											
3C0028		P2545	0	09FEB96	26JUL96 03SEP96											

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Project Start	28AUG95	Early Bar	FFFS	ERC - Richland 300 - FF - 5 Project Review	Sheet 1 of 1	W Lambert 2-0078		
Project Finish	03SEP96	Target Bar			Date	Revision	Checked / Approved	
Data Date	11APR96	Progress Bar						
Plot Date	17APR96	Critical Activity						
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Project Start: 28AUG95
 Project Finish: 01MAR96
 Data Date: 04APR96
 Plot Date: 11APR96

Early Bar
 Target Bar
 Progress Bar
 Critical Activity

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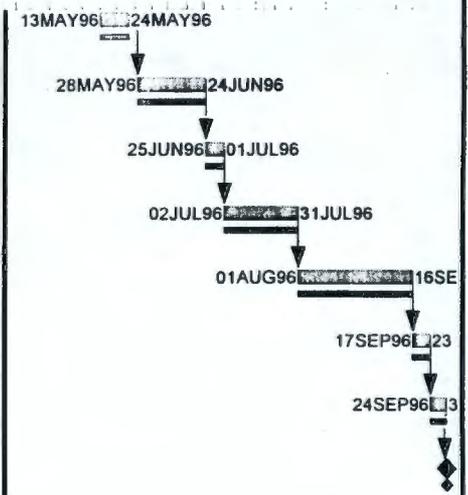
FFP2

ERC - Richland
 300 - FF - 2
 Project Review

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W Lambert 2-8079			
Date	Revision	Checked	Approved

Activity ID	Activity Description	TPCN	%	Target Finish	1996																	
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						
3B0710	LFI DRAFT ERC INTERNAL REVIEW	P22AG	0	24MAY96									13MAY96	24MAY96								
3B0715	INCORP. ERC COMMENTS & ISSUE DECISIONAL DRAFT	P22AG	0	24JUN96									28MAY96	24JUN96								
3B0716	ERC TRANSMIT DEC. DRAFT FOR DOE REVIEW	P22AG	0	01JUL96									25JUN96	01JUL96								
3B0717	DOE REVIEW OF LFI	P22AG	0	31JUL96									02JUL96	31JUL96								
3B0718	INCORP. DOE COMMENTS & PREP. DRAFT A	P22AG	0	16SEP96									01AUG96	16SEP96								
3B0719	TRANSMIT DRAFT A TO DOE	P22AG	0	23SEP96																	17SEP96	23
3B0720	DOE TRANSMITS DRAFT A FOR REGULATOR REVIEW	P22AG	0	30SEP96																	24SEP96	3
3B0722	DOE DELIVERS LFI (DRAFT A) TO REGULATORS	P22AG	0	30SEP96																		



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