

**Paducah Gaseous Diffusion Plant
Citizens Advisory Board
Meeting Minutes
January 20, 2005**

The January 20, 2005 Citizens Advisory Board (CAB) meeting was held at the CAB office in Paducah, Kentucky at 5:30 p.m.

Board members present: Chad Kerley, Ricky Ladd, Shirley Lanier, Bobby Lee, Linda Long, Rhonda McCorry, Janet Miller, and John Russell

Board members absent: Barry Eadens, Jim Smart and Dorothy Starr

Ex Officio members and related regulatory agency employees present: Brian Baker, Tuss Taylor, and Vicki Voisard, Kentucky Division of Waste Management; Albert Westerman, Kentucky Department of Environmental Services; Doug Dawson and Tim Kreher, Kentucky Department Fish and Wildlife Resources; and David Williams, Environmental Protection Agency

Deputy Designated Federal Official present: William Murphie

DOE Portsmouth/Paducah Chief Operating Officer present: Rachel Blumenfeld

DOE Federal Coordinator present: David Dollins

DOE-related employees present: Linda Beach, Jennifer Blewett, Jeannie Brandstetter, Tracey Brindley, Mike Clark, Greg Cook, Larry Copeland, Kim Crenshaw, Jim Ethridge, Greg Felts, Bruce Ford, Ed Holmes, Patricia Holsapple, W. G. Holsapple, Mike Hughes, Lester Hurst, Steve Kay, David Kozlowski, Reinbaud Kuerr, Gene Perry, Scott Smith, Joe Tarantino, and Glenn VanSickle

Public: John Anderson, Charlie Martin, and Vijay Sazawal

Agenda

Kerley called the meeting to order at 6:00 p.m. Board facilitator Steve Kay asked if there were any proposed modifications to the agenda. Kerley stated the Burial Grounds Operable Unit presentation would be postponed until the February Board meeting. **The Board adopted the agenda as modified by consensus.**

Minutes

Kay asked if there were any proposed modifications to the draft November minutes. There were no modifications. **The Board approved the minutes as submitted by consensus.**

Deputy Designated Federal Official's Comments

Progress of the Paducah Project

Murphie reported December progress as follows:

- Three bridges have been set across the drainage ditch at the Depleted Uranium Hexafluoride (DUF₆) Conversion Facility. A field weld shop has been installed to use during installation of utility lines. Work is ongoing for storm drains and backfilling operations.
- Characterization of inside DOE Material Storage Area (DMSA) material is ongoing. 6,969 ft³ of inside DMSA material has been characterized in the first quarter of Fiscal Year (FY) 2005.
- The Burial Grounds Operable Unit (BGOU) Remedial Investigation/Feasibility Study Scoping document was submitted to regulators in December 2004. A Remedial Investigation/Feasibility Workplan is due to regulators on June 30, 2005.
- DOE is continuing to work to resolve the shipping issues in the Scrap Metal Removal project. Resizing operations continue on classified scrap in preparation for containerization and shipping once transportation issues are resolved.
- Disposed of 3,520 ft³ of Legacy Waste in the first quarter of FY05. 129,836 ft³ of 452,604 ft³ has been disposed over the project life.
- The C-400 Source Removal Record of Decision is under review by the regulators. The Commonwealth of Kentucky requested a review extension to February 4. The Southwest Plume Site Investigation/Risk Assessment will be submitted to the regulators on February 17, 2005.
- The U. S. Department of Energy (DOE) submitted the Surface Water Operable Unit Sampling and Analysis Plan to the regulators on December 15, 2004. Mobilization activities for the site investigation will begin upon approval.
- The Paducah remediation contract was awarded to North Wind Paducah Cleanup Company, LLC on January 10, 2005. Transition completion is expected by March 31, 2005.

Gene Perry, North Wind Paducah Cleanup Company, LLC President and Project Manager, said North Wind is looking forward to working with the Citizens Advisory Board (CAB). He said he had worked with the Idaho CAB and believes that experience will allow North Wind to meet the CAB's expectations.

Federal Coordinator Comments

Dollins encouraged the Board to comment on the CAB's Annual Report. He said graphics would be incorporated after January 28.

Dollins stated EHI provided the Executive Committee a more detailed budget in January. He said the new monthly budget allows the CAB to see which categories money is spent.

Dollins said DOE received a resignation letter from Doug Raper effective January 17 due to a relocation to Lexington. He stated Raper was a valued member of the Board and DOE appreciates his service. He commended Raper on an outstanding job while serving on the Board.

Dollins said he is working on a response to the Board's End State Vision recommendation.

Dollins said DOE has been meeting with the Commonwealth of Kentucky and the Environmental Protection Agency regarding the BGOU. He said the BGOU is a high priority project and potential for the most cost expenditures, and DOE is working to resolve issues and concerns with the regulators for the upcoming investigation. The BGOU workplan is due to the regulators June 2005.

Dollins said DOE is providing a letter to Russell discussing the C-746-U Landfill. He said the letter is responding to concerns Russell has expressed regarding disposal options, the waste forecast, and seismic issues.

Comments

Russell expressed his appreciation to DOE on providing sufficient graphs to indicate planned versus actual information on the Scrap Metal project.

Task Forces/Presentations

Waste Disposition Task Force

Russell said the presentation of the C-746-U Solid Waste Landfill initiated two recommendations to be discussed in the Waste Disposition task force.

Russell said the first recommendation lets the Board go on record expressing interest in the timely resolution of possible Holocene era displacement in the vicinity of the C-746-U Landfill. Russell said a draft recommendation is provided in the Board packet requesting that resolution of the Holocene displacement issue should continue to be a high priority activity of the Kentucky Research Consortium of Energy and Environment and DOE should continue to encourage through its grant oversight a resolution of the issue as soon as possible. **The Board approved the recommendation by consensus.**

Russell said the second draft recommendation requested that waste projections for activities of site remediation and plant decommissioning be reviewed and updated by DOE as needed in order to achieve a sufficient level of precision to support investigation of disposal options. **The Board approved the recommendation by consensus.**

Water Quality Task Force

Lee provided a draft review of the Comprehensive Environmental Resource, Conservation, and Liability Act (CERCLA) remedial process. She said most of DOE's ongoing projects at the Paducah Gaseous Diffusion Plant being reviewed by the Water Quality task force are in the first stages of the CERCLA process. Murphie suggested a chart that displays the critical operable units and the CERCLA schedule for

each project. He said he would discuss the chart with Bechtel Jacobs Company LLC (BJC) to be provided to the CAB. Taylor suggested adding the removal process to the chart.

Lee said Long is scheduled to provide a presentation on the Surface Water Operable Unit On-Site Phase 1 Sampling and Analysis Plan in February. She said a Southwest Plume presentation is scheduled in March.

Long Range Strategy/Stewardship

Kerley said comments on the CAB's Annual Report are due to the support staff on January 28.

Kerley reported on the chairs conference call that was held in December. He said the Semi-annual Chairs Meeting is April 27-29 at the Savannah River Site.

Kerley presented a review of the Draft Fiscal Year 2005 Site Management Plan for the Paducah Site. Taylor said the Commonwealth of Kentucky has requested a 30-day extension for review of this document.

Kerley said the KRCEE-DOE Earmark Quarterly Report for activities through 9/30/04 was provided to the CAB. Lee requested a copy of the report; additional copies are available from staff.

Community Outreach

McCorry said the Community Outreach task force is preparing a Speakers Bureau to inform the public on the projects that are being conducted at the plant. She said the presentation would be provided at the March Board meeting. She said Lee is scheduled to attend the February task force to review the template for the CAB's web site. McCorry said the task force is researching possibilities for an effective membership drive. She said a spreadsheet log is being developed to track public comments and responses.

Administrative Issues

Review of Workplan

Kay asked if there were any proposed modifications to the workplan. There were none.

Review of February Agenda

Kay asked if there were any proposed modifications to the agenda. Kerley noted the BGOU presentation should be added to the February agenda.

Action Items

Kay reported the action for updated information on the C-746-U Landfill is still pending. Dollins requested to leave this action pending until the CAB receives the letter from DOE in response to this issue.

Subcommittee Reports

Executive Committee

Kerley said there was discussion at the Executive Committee meeting about whether presentations should be provided by the prime contractor and DOE instead of the Board members. Dollins said project management could provide assistance to the members to prepare presentations. Murphie said prime contractor assistance should be utilized in a reasonable time frame. He suggested seeking help from EHI and the support staff to prepare the presentations.

Kerley said two applicants would be recommended to DOE for Board membership. In addition, Membership Ad Hoc needs to be established for additional vacancies. He asked if 15 members is the maximum for Board membership. Board bylaws stipulate a maximum of 18 members. Murphie said as membership recommendations are requested, DOE will evaluate the justification for additional members above the 15-member mark.

Kerley said the letter signed by all advisory board chairs requesting a National Stakeholder Forum on Waste Disposition is provided in the Board packets. He said the Paducah Site Annual Site Environmental Report Summary is also included in the packet.

Kerley said an election would be held at the February Board meeting to fill the unexpired term for Chair. He said nominations would be accepted until the February meeting. McCorry volunteered to Chair the Nominations Ad Hoc.

Long suggested sending a letter of appreciation to Raper and Tanner for their service to the Board. **The Board approved to send the appreciation letter by consensus.**

Murphie announced Kyle McSlarrow, Deputy Secretary of Energy, resigned from office earlier in the month. He said McSlarrow was a very strong advocate for the Paducah site.

Murphie extended the invitation for all new members to view the Paducah site.

Ladd asked if North Wind would have an on-site integrator for the remediation contract or would it be handled out of the Lexington office. Murphie said there are certain integrating activities that Bechtel Jacobs LLC performs and those activities will become North Wind's responsibility. He said North Wind will not manage the contract but will serve as the integrator for the contract.

The meeting adjourned at 8:40 p.m.

Progress at the PADUCAH PROJECT

Update to the Citizens Advisory Board

January 20, 2005



William Murphie
U.S. Department of Energy
Manager
Portsmouth/Paducah Project Office



DUF₆ Conversion Project

- Set 3 bridges across drainage ditch
- Installed field weld shop to use during installation of utility lines
- Ongoing work on storm drains and backfilling operations





DUF₆ Conversion Project

- From Dec. 22 until Jan. 17 essentially no work was completed on construction because of the snow storm and intense rain
- Back to work full force on Monday, January 17
- Future construction not delayed and critical path not affected

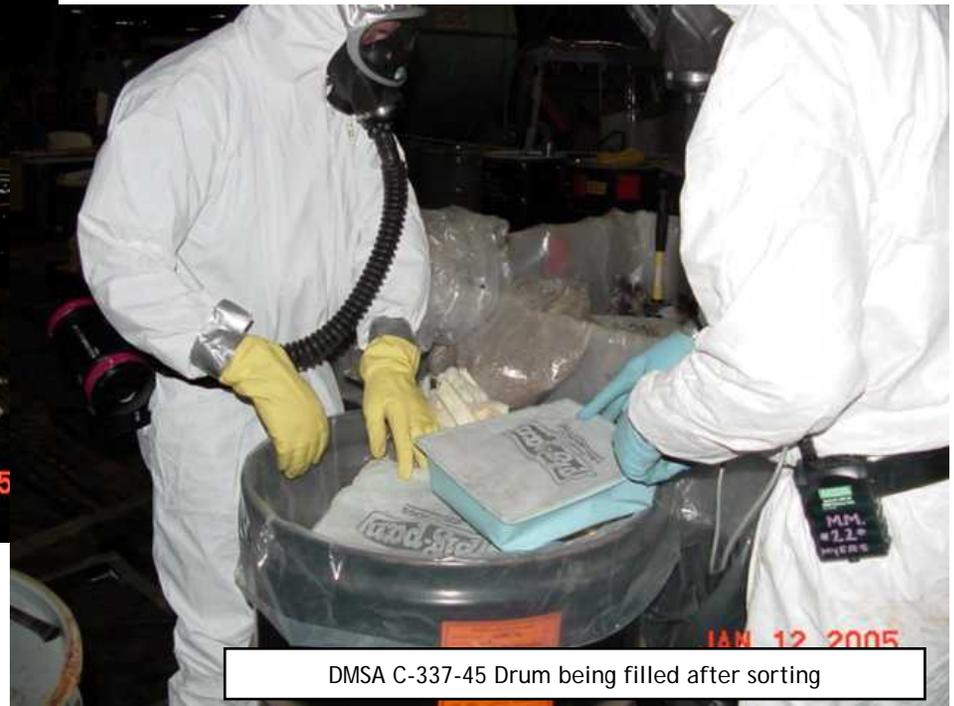




DMSAs

- Working on Indoor DMSAs
- Characterized 4,824 cubic feet of material in December; 6,969 cubic feet in first quarter FY05
- Over project life 633,700 of 865,000 cubic feet estimated total volume of material from inside and outside DMSAs characterized

DMSA C-337-45 drum material being sorted

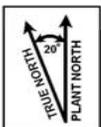
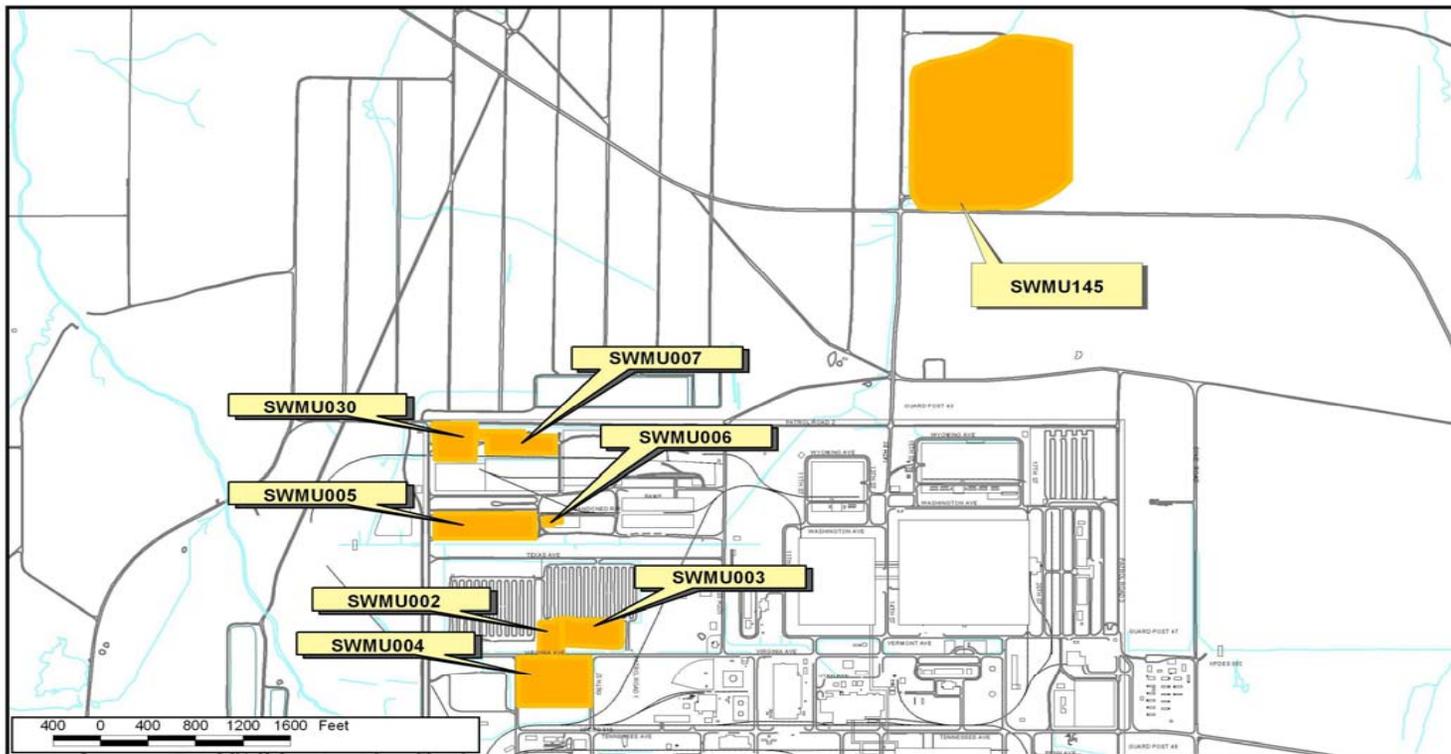


DMSA C-337-45 Drum being filled after sorting



Burial Grounds

- D1 Remedial Investigation/Feasibility Study Scoping Document submitted to regulators in December 2004
- Meetings discussing scope ongoing with regulators
- RI/FS Work Plan due June 30, 2005



LEGEND

 Burial Grounds

U.S. DEPARTMENT OF ENERGY
DOE OAK RIDGE OPERATIONS,
PADUCAH GASEOUS DIFFUSION PLANT

BECHTEL BECHTEL JACOBS COMPANY LLC
managed for the DEPARTMENT OF ENERGY under
U.S. GOVERNMENT CONTRACT DE-AC-66-OR227000
Oak Ridge, Tennessee • Paducah, Kentucky • Portsmouth, Ohio

 **TETRA TECH, INC.**
800 Oak Ridge Turnpike, A-600 • Oak Ridge, Tennessee 37830
(423) 483-9900 • FAX: (423) 483-2014 • www.tetrattech.com

FIGURE No. c5ac9000sk356.apr
DATE 10-19-04



Scrap Metal Removal

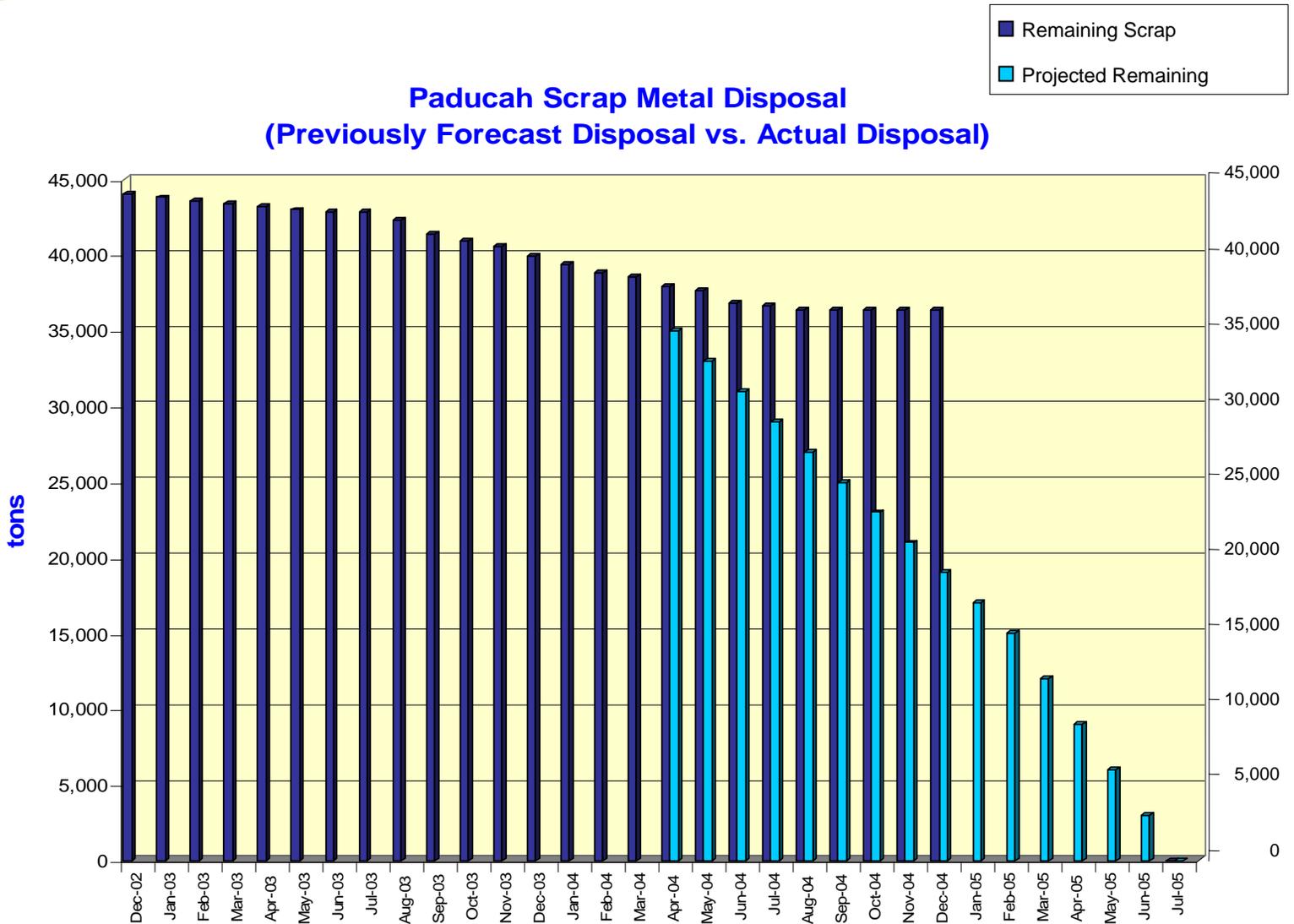
Current Status

- Scrap metal shipments remained suspended through the October - December period
- BJC is continuing to work to resolve shipping issues
- Field crews resized approximately 900 tons of scrap during the quarter
- Resizing operations continue on classified scrap to prepare it for containerization and shipping once transportation issues are resolved



Scrap Metal Removal

**Paducah Scrap Metal Disposal
(Previously Forecast Disposal vs. Actual Disposal)**



* A revised forecast will be presented once transportation issues are resolved



Legacy Waste

Project Status

- Disposed of 3,520 cubic feet Agreed Order waste in landfill in the first quarter of FY05
- 129,386 of 452,604 cubic feet disposed over project life
- Legacy waste shipments remained suspended





Groundwater Operable Unit

C-400 ROD

- D2 C-400 ROD submitted to regulators December 2
- Kentucky requested review extension to February 4

Southwest Plume

- Site Investigation/Risk Assessment Report submittal due February 17, 2005



Surface Water Operable Unit

Project Status

- Received regulator comments on D1 Surface Water Sampling and Analysis Plan (SAP)
- D2 SAP submitted to regulators on December 15, 2004
- EPA has approved D2 SAP; Kentucky approval pending
- Mobilization activities for site investigation will begin after approval of the D2 SAP



Transition to New Contractor

Transition Status

- Contract awarded January 10, 2005 to North Wind Paducah Cleanup Company, LLC
- Transition process began immediately
- Transition completion expected by March 31, 2005
- Infrastructure awards in procurement process
- Introduction of Gene Perry, North Wind President and Project Manager





SITE MANAGEMENT PLAN PADUCAH GASEOUS DIFFUSION PLANT

Annual Revision-FY 05

Site Management Plan

- Required under Federal Facility Agreement (FFA)
- Outlines DOE's strategic approach for cleanup
- DOE is required to submit the SMP to US EPA and Kentucky Natural Resources and Environmental Protection Cabinet (KNREPC) for review and approval by November 15 of each year
- Purpose of the SMP
 - Coordinate and document potential and selected operable units (OUs) including removal actions
 - Define cleanup priorities
 - Identify work activities serving as the basis for enforceable timetables and deadlines
 - Establish long-term cleanup goals

Strategic Cleanup Initiatives

- Groundwater OU Strategic Initiative
- Burial Grounds OU Strategic Initiative
- Surface Water OU Strategic Initiative
- Soils OU Strategic Initiative
- Decontamination and Decommissioning (D&D) OU Strategic Initiative

Strategic Cleanup Initiatives

- Primary objectives
 - Necessary actions to prevent on-site and off-site human exposure posing unacceptable risk
 - Ensure safe environmental conditions for industrial workers
 - Implement actions providing greatest opportunity for significant risk reduction prior to closure

Site Cleanup Strategy

- Source areas and affected media were first segregated into OUs
- Initial screening of OUs were further segregated into 3 areas:
 - Accelerated response action needed
 - Additional characterization/risk evaluation needed
 - Source areas associated with plant operations
- All SWMUs (currently 552) and areas of concern (AOCs) requiring investigation or response were assigned to an OU

Site Cleanup Strategy (cont.)

- Results of characterization activities will be used to support prioritization and decision making for future response actions
- Final CSOU evaluation will occur following completion of D&D
 - Future land use assumptions will be reassessed and modified as necessary
 - Scope will include baseline human health and ecological risk assessment to evaluate residual risks remaining
 - Will identify necessary additional actions to ensure long-term protectiveness

Site Cleanup Objectives

- Protect residential receptors from exposure to contaminated groundwater in areas off DOE property
- Protect recreational users from exposure to contaminated surface water, sediments, and biota areas outside the security fence

Site Cleanup Objectives (cont.)

- Protect industrial workers from exposure to waste and contaminated soils and sediments in areas inside the security fence
- Protect environmental receptors in areas outside the security fence

Risk Prioritization Criteria

- Mitigate immediate threats, both on- and off-site
- Reduce further migration of off-site contamination
- Address sources contributing to off-site contamination
- Address remaining sources contributing to on-site contamination

Risk Prioritization Criteria (cont.)

- Perform D&D of the currently operating GDP units impacted by plant operations
- Evaluate the final CSOU

Scope and Schedules

- This revision of the SMP updates the FY04 SMP (D2) version approved April 2004
- This revision of the SMP incorporates enforceable milestones for FY05, FY06 and FY07
- Enforceable completion dates for the five site-wide media OUs are also included

Proposed FY 2004 SMP Schedules

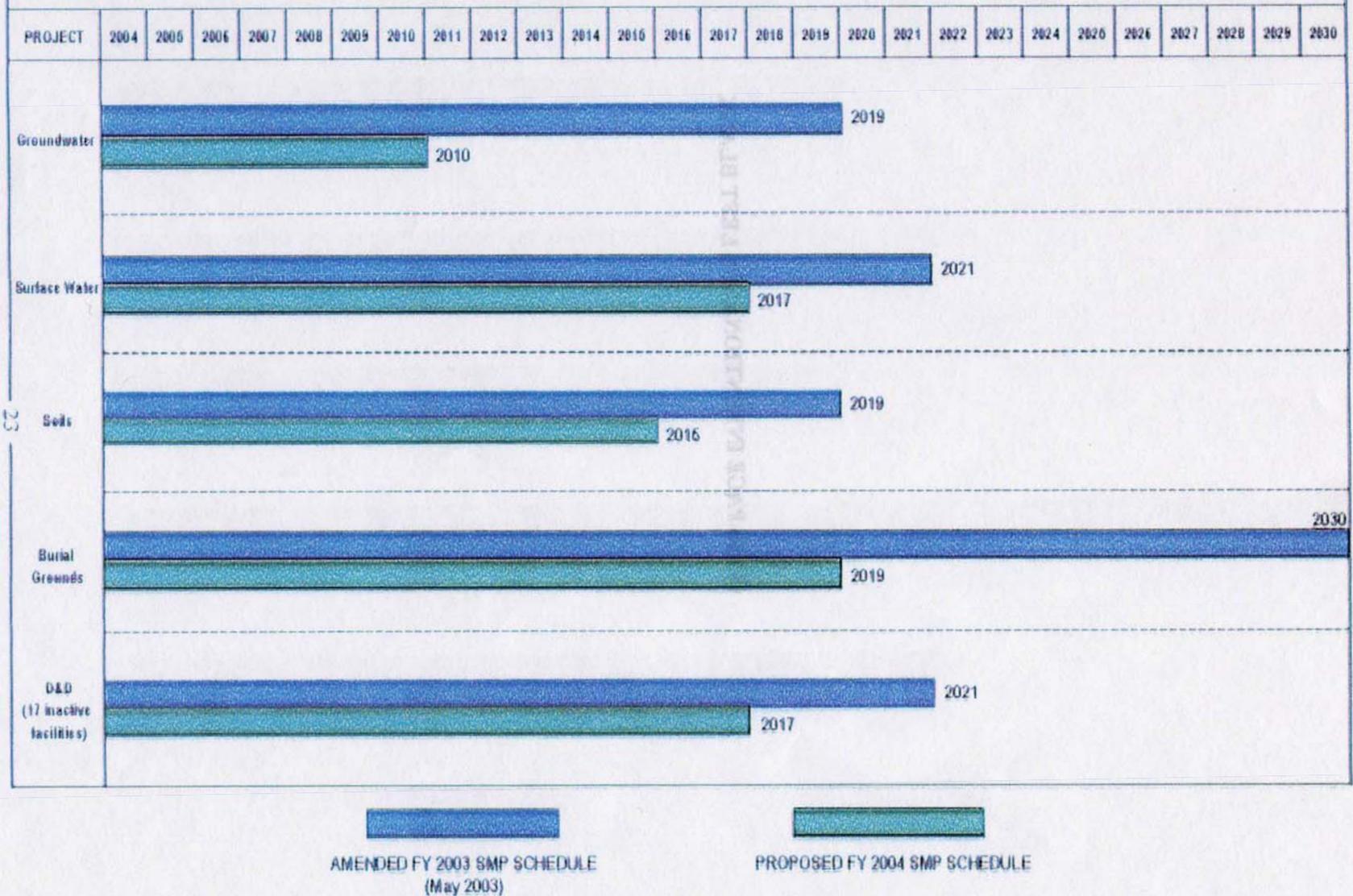


Fig. 6. Proposed FY 2004 SMP Schedule.

Enforceable Timetables and Deadlines; Planning Dates with Long-Term Targets

Subproject	Deliverable	Enforceable timetable and deadlines		Planning dates with long-term targets for decision documents ^{a,b}	Comments
		FY 2005 – FY 2007	Outyear		
Groundwater OU (Southwest Plume and Sources)	D1 Site Investigation/Risk Assessment Report ^c	1/3/05			
	D1 Proposed Plan	7/2/05			
	D1 ROD	1/3/06			
	D1 Remedial Action Completion Report		9/30/10		
Groundwater OU (C-400)	D1 Remedial Design Work Plan ^f	3/21/05			ROD signature expected in February 2005.
	D1 Remedial Action Work Plan ^g	1/13/06			
	D1 Remedial Design Report (90% Design) ^h	3/14/06			
	D1 Remedial Action Completion Report		9/30/10		
S- and T-Landfills	D1 Site Evaluation Report	9/30/05			
Decontamination and Decommissioning (17 Inactive Facilities)	D1 Action Memorandum (C-340 Facility)			3rd quarter – 2012	CERCLA decision documents completed and field work addressing infrastructure at C-410 initiated and ongoing.
	D1 Removal Action Completion Report (C-410, C-340, and 15 Inactive Facilities)		9/30/17		
Surface Water OU – North–South Diversion Ditch (Sections 1 and 2) ^d	D1 Remedial Action Completion Report	5/16/05			CERCLA decision documents completed and field work complete.
Surface Water OU (Scrap Metal)	CERCLA decision documents completed.				Fieldwork initiated and ongoing.
Surface Water OU (On-Site)	D1 Site Investigation/Risk Assessment Report ^{c,i}	4/27/06			
	Removal Notification ⁱ	6/23/06			
	D1 Action Memorandum ⁱ	4/12/07			
	D1 Removal Action Work Plan ⁱ	8/10/07			

Subproject	Deliverable	Enforceable timetable and deadlines		Planning dates with long-term targets for decision documents ^{a,b}	Comments
		FY 2005 – FY 2007	Outyear		
Surface Water OU (Off-Site)	D1 Decision Document ^c			3rd quarter – 2015	
	D1 Response Action Completion Report		9/30/17		
Site-Wide Soils OU Removal	D1 Decision Document ^c			4th quarter – 2011	Implementation of the Soils Removal Action will be timed to occur upon completion of RI Characterization under the Site-Wide Soils OU Remedial Project.
Site-Wide Soils OU Remedial	D1 ROD			3rd quarter – 2012	
	D1 Remedial Action Completion Report		9/30/15		
Burial Grounds OU ^e	D1 Remedial Investigation/Feasibility Study Work Plan	6/30/05			
	D1 ROD			2nd quarter – 2009	
	D1 Remedial Action Completion Report		9/30/19		

^a Not enforceable dates. Used for planning purposes only.

^b Long-term decision document target dates are intended to represent either D1 ROD and/or D1 Action Memorandum dates.

^c The sampling and analysis plans and the site investigation/risk assessment reports for the Groundwater OU (Southwest Plume and Sources) and Surface Water OU (On-Site) subprojects will be treated as primary documents for purposes of the Federal Facility Agreement review/approval/dispute procedures.

^d The phases listed for this project are as shown in the approved ROD. As described in the approved ROD, Phase I included construction of a surge basin and hard-piping, and Phase II includes the excavation of waste from Sections 1 and 2 of the North-South Diversion Ditch.

^e Note that investigation of SWMU 4 as a source of groundwater contamination is included in Groundwater OU (Southwest Plume and Sources).

^f Deliverable date is adjusted to reflect previously approved milestone extensions for the Proposed Plan and ROD reviews.

^g Remedial Action Work Plan deliverable date is modified to provide consistency with the associated remedial design.

^h The revised date reflects a more accurate schedule associated with developing remedial designs for an action of this magnitude.

ⁱ Dates are updated to reflect revised scope and forecasted schedule adjustments.

CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act.

DMSA = DOE Material Storage Area.

FY = fiscal year.

OU = operable unit.

ROD = record of decision.

SWMU = solid waste management unit.



SITE MANAGEMENT PLAN PADUCAH GASEOUS DIFFUSION PLANT

Annual Revision-FY 05