

SITE SPECIFIC ADVISORY BOARD (SSAB)

Meeting Minutes

February 20, 1997

The February 20, 1997, the SSAB meeting took place at the Lockheed Martin Energy Systems Conference Room at 6:00 p.m.

The following board members were present: Nola Courtney, Mark Donham, W. G. Harvey, Vicki Jones, Ronald Lamb, Ex Officio members present were: Wayne Davis, Carl Froede, Annette Hayden, Jimmie Hodges, John Volpe. Facilitator Present: Steve Kay, Also present were: Carlos Alvarado, Jeannie Brandstetter, Teresa Fields, Missy Howell, Ray McLennan, Brad Montgomery, and Matt Vick.

The amended meeting minutes from the November 21, 1996, meeting were approved by consensus.

The first item on the agenda was Federal Facilities Agreement (FFA) discussions. Jimmie Hodges said the FFA was sent to Headquarters for Al Alm's approval. DOE was sent a letter saying the FFA was basically acceptable except for two items. One item was a easy change to make and the other change was budget language. The state and DOE are working out the budget language changes. Jimmie Hodges stated that as soon as the FFA was approved for public comment he would send each member of the SSAB a copy.

The next item on the agenda was the membership drive. Nola Courtney reported that she had not received any other applications since the last meeting. She did receive 1 application at the meeting. It was decided that if there was only 1 application in a category and that category needed to be filled, it could be filled with only 1 application.

The next item on the agenda is Financial Committee Report. There was a hour long presentation on the budget process prior to the SSAB meeting given by Myrna Redfield of DOE and Brad Montgomery of LMES. Jimmie Hodges stated that he would generate a draft work plan and budget for submittal to the SSAB. Jimmie Hodges also stated that any travel done by the Board would be done like government employee travel. Expenses would be on per diem rates unless an exception approved by Jimmie Hodges for actual expenses in special circumstances was approved.

Letterhead for the SSAB was discussed. The sample that Jeannie Brandstetter presented was accepted with a minor change of adding E-mail addresses.

The St. Louis trip report was the next item on the agenda. Mark Donham attended on behalf of the Paducah SSAB. Carlos Alvarado attended as the DOE counterpart. Mark told about some of the other SSAB activities. He discussed the National Dialogue Overview. The National Dialogue is just in the preliminary phase. It has not been approved by the Secretary of Energy. He also discussed presentations made on the 10-Year Plan. Jimmie Hodges added that a mailing of the 10-Year Plan will be submitted February 28, 1997.

The next item on the agenda was the Work Plan. Steve Kay stressed the importance of establishing a Work Plan. The Board has to have a Work Plan to establish what issues they want to address. The Board decided to have presentations to establish background information on the items they wanted to address.

WAGs 1 and 7 was the next item on the agenda. It was reported that the ROD was currently being reviewed internally. An extension to the comment period was given to the SSAB. As soon as the comments on the Proposed Plan are received, it will be submitted.

Vortec discussions were the next topic on the agenda. It was asked if DOE could bring in a Task Force member from Fernald to give a presentation on their vitrification plant. Jimmie Hodges said that they were DOE people and it should not be any problem getting a member of the Task Force here. Jimmie said that it would be best to have the Task Force come after the report on the operation of the vitrification unit was complete.

The last item on the agenda was a change in the calendar. Steve Kay requested that the May meeting be held on May 22 instead of May 15. The Board agreed that this was acceptable.

The next meeting will be held on March 20, 1997, at the West Kentucky Vocational Technical School cafeteria at 6:00 p.m. The meeting was adjourned.

Tentative Agenda for the March 20, 1997, meeting:

Minutes
EMEF Project Updates
FFA Update
Membership Update
Financial Committee Report
Background on Process of Documents
Proposed Budget
10-Year Plan Update

Action Items

Investigate options on space for meetings - Jeannie Brandstetter
Copy of FFA to Board when Public Comment period starts - Jimmie Hodges
Get a list of descriptions of codes from discharge reports and list of Safe Drinking Water Standards and Limits - Jimmie Hodges

DRAFT

**MEMORANDUM
SITE SPECIFIC ADVISORY BOARD**

TO: Distribution
FROM: Mark Donham
Vicki Jones
DATE: February 26, 1997
SUBJECT: FEBRUARY 20, 1997, MEETING MINUTES

Attached are the subject meeting minutes. The next meeting will be held March 20, 1997, at the West Kentucky Vocational Technical School cafeteria at 6:00 p.m. Please review and provide comments or changes at the March meeting.

SSAB Distribution List

Nola Courtney
Mark Donham
Tommy Fletcher
David Fuller
W. G. Harvey, Sr.
Vicki Jones
William L. Kressenberg
Ronald Lamb
Linda Long
Connie J. Sykes
Gregory Waldrop

Ex Officio Distribution List

Wayne Davis
Carl Froede, Jr.
Annette Hayden
Jimmie C. Hodges
John A. Volpe

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SSAB sign in

- Feb. 20, 1997

Wayne J. Davis
 W. G. Harvey
 Tommie Hester
 Carlos Alvarado
 Annette Hayden
 Carl Froede Sr.
 Mark Donham
 Vicki Jones
 Nola Courtney
 Rosealene Ramsey
 John C. Volyn PhD

Ky Dept of Fish & Wildlife
SSAB

DOE
DOE

Ky. DWM
EPA Region 4
SSAB

SSAB

SSAB

SSAB
KY Radiation Control

**PADUCAH GASEOUS DIFFUSION PLANT SITE SPECIFIC ADVISORY BOARD
U.S. DEPARTMENT OF ENERGY
ENVIRONMENTAL MANAGEMENT & ENRICHMENT FACILITIES
PROJECT UPDATE
FEB. 20, 1997**

ENVIRONMENTAL RESTORATION

Northwest Plume Interim Remedial Action

More than 135 million gallons of water have been treated at the Northwest Plume Groundwater Treatment Facility since operations began Sept. 1, 1995. The facility operates to contain a high contamination zone of the degreaser trichloroethylene and the man-made radionuclide technetium-99.

January and February activities include continued remedial operations (water extraction and treatment) and routine operation and maintenance of facility. Maintenance activities for Extraction Well 230, which is experiencing a reduction on flow rate, are underway. The facility has been in operations 96 percent of the time from August '96 to December '96.

An Explanation of Significant Differences (ESD) to the July 1993 Record of Decision has been developed and made available for regulatory and public comment. The ESD was developed to make three modifications to the Record of Decision: (1) elimination of the activated carbon filters, (2) reversal of the sequence of two treatment units (ion exchange unit and air stripper) and (3) elimination of the iron filings treatability study. The document explains the circumstances and the need for these modifications.

Comments are being evaluated for incorporation at this time.

Northeast Plume Interim Remedial Action

The Northeast Plume project involves the installation of extraction wells in the northeast quadrant of DOE property with an underground pipeline running to the existing PGDP cooling towers as part of a newly completed treatment system.

This regional gravel aquifer's contamination comes solely from the degreaser trichloroethylene.

A technical demonstration of an in-site air stripper has been postponed, and will not be included in this project as originally planned. The Operations and Maintenance Plan for this treatment system was submitted to the regulatory agencies in November, and a briefing on the system and the Operations and Maintenance Plan was provided Nov. 19, 1996. Regulatory agencies have approved the O & M plan to allow operations to begin. Construction was completed in December 1996, and testing of the system prior to initiation of operations is complete.

A pumping test to collect hydrogeologic information about the aquifer is ongoing, and routine operations are planned to begin in March 1997.

Lasagna demonstration

The Lasagna soil remediation technology now being tested at PGDP works by using buried electrodes to move water through contaminated soil. Applied current drives the water an inch a day from a positive to a negative electrode. Along the way, the water picks up contaminants from the soil.

Phase IIA installation was completed in August 1996 and the process now underway will be active through Feb. 28, 1997, with final sampling planned for March, 1997. In April 1997, DOE will evaluate Phase II results to determine if full-scale remediation is feasible.

If undertaken, the remediation will be funded by EM-40, which funds the remainder of Paducah's Environmental Restoration and Waste Management program. A proposed plan and Record of Decision schedule is in development, with a final Record of Decision targeted for October 1997 if a decision for full-scale remediation is made. An overview of that schedule will be provided to the SSAB when finalized.

Waste Area Groups 1 & 7/C-746-K Landfill, Kentucky Ordnance Works

WAG 1 consists of a fire training area, the plant sewage treatment facility and a known trichloroethylene spill site inside the PGDP security fence. WAG 7 consists of five underground storage tanks at the plant water treatment facility, and an inactive sanitary landfill outside the security fence. Three SWMUs are connected with the former Kentucky Ordnance Works (KOW) and are now located on the DOE reservation. They are the KOW sewage treatment facility, a known Toluene spill site and a burn area.

The original proposed plan included the preferred alternative of a constructed wetland system to treat leachate at the landfill, which contains fly ash and other miscellaneous materials. The Kentucky Division of Water disagreed with the treatment option based on the treatment of leachate in the waters of the Commonwealth. The revised proposed plan includes continued groundwater monitoring and deed restrictions in the preferred alternative.

A public meeting was held Jan. , 1997 at the West Kentucky Vocational School. The public comment period was extended from Dec. 23, 1996 - Feb. 5, 1997 to end March 7, 1997.

Comments will be addressed before the draft Record of Decision is finished April 8, 1997.

Waste Area Group 6/Trichloroethylene spill site

The C-400 TCE spill site is a major source of TCE in the groundwater and soil. The Industrial Hydrogeologic Study focused on piping, utility and building foundation in the C-400 building area to determine how these man-made structures and systems influence groundwater infiltration and flow.

The data from this investigation was utilized to prepare a WAG 6 Remedial Investigation Work Plan, which was submitted to the regulatory agencies in August, 1996, which focus on contaminant distribution and movement. Regulatory agency review of the work plan is now complete, and DOE is in the process of addressing regulatory agency comments. A Treatability

Study Program Plan to identify needed treatability studies to collect data necessary to remediate contaminants expected to be found during the investigation is being developed, and was submitted to the regulatory agencies by Nov. 26, 1996.

Comments on the WAG 6 Remedial Investigation/Feasibility Study Plan were received from the regulatory agencies in November, 1996, and resolution of those comments has been completed, via Jan. 20, 1997 submittal of a second draft Work Plan. Planning to implement field work during summer 1997 is ongoing.

Waste Area Group 17/Rubble piles

The piles of concrete rubble that make up Waste Area Grouping 17 have been investigated for contamination. The rubble, derived from demolition of sidewalks, parking lots and other concrete structures at PGDP during the 1970s, was used as construction material in the Ballard County Wildlife Management area, McCracken County Wildlife Management Area and on Department of Energy property.

A Remedial Investigation Report was submitted to the state and EPA on Nov. 9, 1996, and a briefing was given to regulatory agencies Nov. 20. The DOE position, based on the results, is no further action at the remaining rubble piles. Regulatory agencies have commented, and resolution is ongoing. A second draft Remedial Investigation report is due to the agencies by April 14, 1997.

A second phase of the removal action at one of the Solid Waste Management Units is scheduled for March 1997.

The public will have an opportunity to comment on the Proposed Plan for WAG 17 from May 26 - July 9, 1997. A public meeting is scheduled to be held June 17 at the Lockheed Martin Energy Systems facility in Kevil.

Waste Area Group 22/Burial grounds

This project includes the investigation of burial grounds in the northwest corner of the plant (SWMUs 7 & 30) and in the west-central portion of the plant (SWMU 2). Original plans included installation of a cap at SWMU 2, the C-749 Uranium Burial Ground, but investigation activities have determined that the buried material was saturated in the water table, indicating a cap would have limited effect.

A Data Summary Report, summarizing and evaluating data collected during investigation activities, is being prepared and was provided to the regulatory agencies in February. A meeting with the agencies is planned for March 1997 to determine a path forward for this site.

The development of a Remedial Investigation Report is ongoing at SWMUs 7 & 30, the C-747-A Uranium Burial Ground and C-747-A Burn Area. This RI report is to be submitted to the regulatory agencies in July, 1997.

Waste Area Group 23/Polychlorinated Biphenyls (PCBs) Spill Sites

Past use of PCBs and subsequent accidental spills and leaks of oils that contain PCBs caused

surface soil contamination at several Solid Waste Management Units inside the PGDP security fence.

A Proposed Plan was issued in June 1996 for a 45-day public comment period. The preferred option in that plan was the excavation and treatment of the soil containing PCBs greater than 25 ppm using a thermal treatment technology known as vitrification. This process destroys organics, such as PCBs, and produces a glass which will tie up any radioactive compounds.

DOE has proposed a PCB soil cleanup of 25 ppm for WAG 23, which is consistent with Environmental Protection Agency guidance for industrial sites and is within the acceptable risk range approved under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). However, the Commonwealth is attempting to impose a more stringent cleanup level than EPA by including requirements to place a 10-inch cover on areas having PCBs greater than 1 ppm.

In order to move ahead, an agreement has to be reached between DOE and the state to excavate soils containing 25 parts per million PCBs or greater as an Interim Remedial Action, and defer decision on soils containing 1 to 25 ppm. If a decision is made to clean up to lower levels, it can be performed as the Final Action for WAG 23. If a the decision is made at a later date requiring more restrictive clean-up, it will increase the scope and costs at WAG 23, and would significantly increase the number of low-risk areas at PGDP requiring remediation. Upon final resolution of the remedial level between EPA, DOE and the state, additional work may be required if a lower cleanup level is selected, or the interim action will be made final if the 25 ppm level is chosen as the remedial level.

Waste Area Group 27/Potential trichloroethylene sources

A Remedial Investigation/Feasibility Study Work Plan has been developed and submitted to regulatory agencies. WAG 27 consists of potential or known sources of TCE on the west side of the Paducah Gaseous Diffusion Plant.

Site Evaluations

Site evaluations are being performed at low risk Waste Area Groups to determine if releases have occurred. If no releases are detected, or if releases pose no risk, the further characterization through the RI/FS process is not warranted. If contamination is detected in the Site Evaluation, then the data is utilized to focus the RI/FS process.

A Site Evaluation for WAG 15, has been submitted to the agencies. This evaluation indicated no risks at the units in WAG 15, and recommended no further action for the Solid Waste Management Units in the WAG.

Sampling and Analysis Plans for Site Evaluations at WAG 9 and WAG 11 have been initiated.

Environmental Management Site-Specific Advisory Board
1997 Meeting Schedule
2-12-97

Fernald:

Mar. 15
May 10
July 12
Sept. 20
Nov. 15

Hanford:

Apr. 3,4
May 1,2
July 10,11
Sept. 4,5
Oct. 8,9
Nov. 6,7
Dec. 4,5

Idaho:

Mar. 18,19
May 20,21
July 22,23
Sept. 16,17

Los Alamos:

Mar. 11
Apr. 8
May 13
June 10
July 8
Aug. 12
Sept. 9
Oct. 14
Nov. 11
Dec. 9

Monticello:

Feb. 18
Mar. 18

Nevada:

Mar. 8
Apr. 2
May 7
June 4
July 2
Aug. 6
Sept. 3
Oct. 1

Oak Ridge:

Apr. 2
May 7
June 4
July 2
Aug. 6
Sept. 3

Paducah:

Feb. 20
Mar. 20
Apr. 17
May 15
June 19
July 17
Aug. 21
Sept. 18
Oct. 16
Nov. 20
Dec. 18

Pantex:

Feb. 25
Mar. 25
Apr. 22
May 27
June 24

Rocky Flats:

Mar. 6
Apr. 3
May 1
June 5
July 3
Aug. 7
Sept. 4
Oct. 2
Nov. 6
Dec. 4

Sandia:

Feb. 19
Mar. 19
Apr. 16
May 21
June 18
July 15
Aug. 19
Sept. 16
Oct. 21
Nov. 18
Dec. 16

Savannah River:

Mar. 24,25
May 12,13
July 21,22
Sept. 22,23
Nov. 24,25

MEETING SUMMARY
Department of Energy Environmental Management SSAB
Federal Coordinator and Chairperson Meeting
Adam's Mark Hotel, St. Louis, Missouri
January 23, 1997

SSAB CHAIRS/MEMBERS PRESENT:

John Applegate, Fernald; Marilyn Reeves and George Kyriazis, Hanford; Charles Rice, Idaho; the Honorable Carl Tsosie, Los Alamos; Dale Schutte, Nevada; Randall Gordon, Oak Ridge; Mark Donham, Paducah; Mavis Belisle, Pantex; Tom Marshall, Rocky Flats; Jesse Dompree, Sandia; Ann Loadholt, Savannah River; and Rick Cavanaugh, St. Louis.

DOE FEDERAL SSAB COORDINATORS/FIELD STAFF PRESENT:

Mike Jacobs, Fernald; Jon Yerxa, Richland; Woody Russell, Idaho; Kevin Rohrer, Nevada; Sandy Perkins, Oak Ridge; Carlos Alvarado, Paducah; Tom Williams, Pantex; Larry Helmerich, Rocky Flats; de'Lisa Bratcher, Savannah River; and Albert Johnson, representative for St. Louis.

DOE HEADQUARTERS STAFF PRESENT:

Cindy Kelly, Director, EM Office of Intergovernmental and Public Accountability; Don Beck, Deputy Director, EM Office of Intergovernmental and Public Accountability; Jill Lytle, Deputy Assistant Secretary for EM Office of Nuclear Material and Facility Stabilization; Patty Bubar, Director, Office of Planning and Analysis, EM Office of Waste Management; and Randy Kaltreider, Deputy Director, Program Integration Office, EM Office of Nuclear Material and Facility Stabilization.

OTHER PARTICIPANTS:

Jeff Breckel, Washington Department of Ecology; Earle Dixon, Nevada SSAB Technical Advisor; Elizabeth Kraft, League of Women Voters; Theresa Sebik, Apex Technology; Elaine Tholen, SAIC; and Stephanie Merkle, ECO.

PRESENTATIONS:

National Dialogue Presentation by Jill Lytle

Jill Lytle, who has the lead on the National Dialogue, gave an overview of this department-wide effort which is now in the planning stages. As envisioned, this initiative will provide a comprehensive view of DOE's intersite nuclear material and waste decisions in order to better integrate decision-making across DOE and enhance stakeholder understanding of and involvement in these decisions. To this end, the National Dialogue will work to develop consensus values and principles for key programmatic decisions for nuclear material and waste, and possibly develop new models for DOE decisions. However, it should be emphasized that the National Dialogue in itself is not a decision-making process.

An internal DOE Senior Advisory Board and Implementation Team have been established for the National Dialogue. An External Planning Group, composed of members of the SSABs, EMAB, Tribes and other stakeholders, has been formed to provide input into concept design and implementation. The League of Women Voters has sponsored several workshops for the Planning Group.

The National Dialogue has three phases: Phase I consists of numerous dialogues/meetings with the Planning Group and other stakeholders. This phase has been ongoing for approximately one year. In Phase II, a series of workshops will take place in the field for discussion and education, and to provide the "big picture" of DOE's policy-making process. These workshops are scheduled to take place between February and June 1997. Phase III will entail developing a set of values and principles for DOE decision-making. This phase is pending approval by the new Secretary of Energy.

A discussion of the National Dialogue revealed the following concerns and comments by SSAB chairs and members:

Concerns:

- The National Dialogue is unnecessary and will duplicate efforts of the SSABs.
- The initiative may undermine the success of the SSABs and threaten board funding.
- The process is too local and piecemeal; it appears to be a top-down approach.
- The SSABs should have been involved earlier in the process.
- SSABs need regular updates; some boards have received little information on the initiative.
- The members selected for the Planning Group are too "pro" National Dialogue.
- The National Dialogue should come under the umbrella of the SSAB program.
- DOE is making important policy decisions before the National Dialogue is up and running.
- The National Dialogue must consider all interests to be successful.
- This is an overwhelming project; there is too much going on in the department.
- Due to budget constraints and the ambitious nature of the effort, there are concerns about future funding.

Potential Advantages:

- The National Dialogue will improve DOE's national decision-making process.
- It will provide more direction and focus on major departmental policy decisions.
- There will be more site-to-site communication and discussions prior to making decisions.
- Will allow SSABs to play an expanded role in the national decision-making process.
- Stakeholders will better understand how national decisions are made.
- More opportunities for SSABs and stakeholders to influence long-range decisions.
- Will help fill in the "gaps" in DOE's existing public participation efforts.
- Could save money and lead to decisions which are implementable and sustainable -- more acceptable to the public.

The role of the SSABs was also discussed. Jill Lytle and the Planning Group proposed that in addition to providing input into the design and execution of the National Dialogue, the boards could host and participate in workshops in the field and serve as members of the future steering committee.

Ten-Year Plan Presentation by Patty Bubar

This presentation was given by Patty Bubar, the stakeholder involvement leader for the Ten-Year Plan. At this time, agreement has not been reached with the Office of Management and Budget on site budget numbers to use for Fiscal Year 1999 and outyears; thus, Ten-Year Plans are being developed around two budget scenarios. The national Ten-Year Plan draft will be completed by March 1997. While data and input from each site will be included, this will not be an integrated plan. On September 30, 1997, the first official Ten-Year Plan will be released, which will contain tightened budget assumptions and more cross-site integration. The Ten-Year Plan is an attempt to projectize within EM; and is expected to drive the budget decisions beginning with Fiscal Year 1999.

Patty emphasized that the Ten-Year Plan is not a decision-making process, and the document will be updated periodically to reflect progress, new developments and other issues. Various national stakeholder groups have been consulted for advice about the public participation process for the Ten-Year Plan. The stakeholder involvement process is still being defined, but should not disrupt ongoing public participation efforts.

Sites currently should be involving stakeholders in revising the July Ten-Year Plans, for release in March. This includes reaching agreement on planning assumptions for use in the March Plans, preparing Action Plans to clarify how longer-term issues will be resolved, formulating the workscope for the Fiscal Year 1999 budget (and beyond), and preparing for a public comment period in April and May. Sites have prepared and submitted to Headquarters their Action Plans and Stakeholder Involvement Plans. Headquarters is coordinating site activities and working to integrate the Ten-Year Plan with other initiatives, such as the National Dialogue, the Contractor Integration effort, etc.

The following comments and concerns were raised by SSAB chairs and members:

- The role of the SSABs in the process should be more clearly defined.
- Inadequate time for SSAB/stakeholder involvement in the Ten-Year Plan and 1999 budget.
- The process to integrate all site 10-year plans by September 1997 is not defined; neither is the public comment process.
- Some SSABs have not been well informed about the Ten-Year Plan process.
- DOE has not responded to public comments made by SSABs and other stakeholders.
- The role of privatization in the Ten-Year Plan needs clarification.
- The Ten-Year Plan should be flexible.
- There are too many plans at each site; instead, there should be one integrated plan per site.
- There is a need to address intersite transfer of waste issues.
- Existing milestones and agreements should not be disregarded.
- The relationship between the Ten-Year Plan and the National Dialogue should be defined.

According to Patty, public comments from the field in the Ten-Year Plan are to be addressed at the site level through their Action Plans. Should SSAB chairs and members need further information, Patty can be contacted at (301) 903-7130. A potential mid-summer meeting with the SSABs on the Ten-Year Plan was also discussed, but no decisions were made.

GENERAL DISCUSSION:

Updates were given by each SSAB chair or board member, along with advice and "lessons learned" for Paducah, the newest SSAB. Among the boards, there were common concerns and issues related to operating with decreased funding, and deciding where SSABs should focus their limited time. The difficulties and solutions related to decision-making and reaching consensus is a topic which may warrant further discussion between boards or at another meeting.

Issues for Follow-up or Future Discussion:

- Clarification on use of travel funds from SSAB/DOE budgets.
- Feedback and information on CRESP.
- Community perception of SSABs and board independence.
- 15% SSAB budget decrease.
- Use of recommendations by other agencies.
- Need for new consultative process.
- Need for clarification on role of site manager, site contractor, SSABs, regulators, etc.
- Clarification on direct grants by SSABs is necessary.
- Need for more communication and visits between boards.
- How often should these meetings take place and for how long? Should more than one representative from each SSAB attend?
- Some participants expressed the desire for a "chairs only" meeting.

In addition, the National Site-Specific Advisory Board Directory will be updated and mailed to all board members, along with a schedule of SSAB meetings at each site.

Miscellaneous:

On February 5, 1997, all boards are invited to attend a Nevada panel discussion on low-level waste. Also, Chuck Rice of Idaho gave an open invitation to members of other boards to attend Idaho SSAB meetings should they find it helpful. Savannah River will host a spent fuel forum in Summer 1997, and all board members are invited to attend.

PARTICIPANT LIST
ENVIRONMENTAL MANAGEMENT SITE-SPECIFIC ADVISORY BOARD
FEDERAL COORDINATOR AND CHAIRPERSON MEETING
THURSDAY, JANUARY 23, 1997

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Feb. 20, 1997

Budget Committee /SSAB

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Mark Donham

Annette Hayden

Carl Froede

Matt Vick

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Operations Office: OR ID No.: 5300-U -
 ADS Title: PAD Remedial Action

Revision Date: 04/11/1996

WBS No.: 1. 4.12. 7. 1. Category: ER
 WBS Title: REMEDIAL ACTIONS Facility/WAG: PADUCAH GASEOUS DIFFUSION PLANT
 Installation: PADUCAH GASEOUS DIFFUSION PLANT CID: OR21400
 Line Item Number: NA TPC: 0
 TEC: 0 A-106 Project: NO S&H: DIRECT

O.O. Manager: D.W. Dollins Phone: 502-441-6819
 H.Q. Manager: Behram Shroff Phone: 301-903-2588
 S&H Manager: P.A. GOURIEUX Phone: 502-441-5062
 Auxiliary Fields: 1. P.A. GOURIEUX 2. B.J. Montgomery 3. B.J. Clayton

Estimated ADS Cost

EXPENDITURE TO-DATE (THRU FY1995):	7 YEAR TARGET FUNDING TOTAL (FY 1996 - FY 2002):	ESTIMATED COST TO COMPLETION (COST BEYOND FY 2002, IF ANY):	TOTAL COST:
79,628	124,024	678,742	882,394

ACTIVITY SUMMARY

The scope of this ADS is to investigate, characterize, evaluate, and remediate releases from the operations of the PGDP to determine if and what types of remediation will be required to comply with DOE, EPA, and Kentucky State environmental regulations. Activities covered under this ADS include workplan and sampling plan development, field investigation, laboratory analysis, risk assessment, treatability studies, feasibility studies, facility construction, facility maintenance, operation, surveillance and maintenance, remediation technology development, well construction, well sampling, remediation design, and remediation construction. Also included in this ADS is work directed toward reduction of mortgage costs through deployment of innovative technologies. Several in-situ flushing/treatment technologies that may reduce the total cost of projects may be tested or demonstrated jointly with EM-50.

See narrative portion of the ADS for further work description.

BUDGET IMPACTS

Funding constraints will provide for minimum compliance with current regulatory driven monitoring requirements. The FY98 funding level provides potential for receiving non-compliances with the HSWA permit associated with the non-completion of Remedial Investigations and initiation of RI workplans. Non-compliances with well sampling activities will also result at the decrement and target funding levels. Inadequate support for technology assessment, geologic and hydrogeologic evaluation, and contaminant migration studies exists at this funding level.

The following projects will not receive funding at the target level and will result in fines, penalties, and non-compliances with the RCRA Permit and FFA;

- *Initiate contracting and preparations for fieldwork for WAG 27 (\$427).
- *Initiate contracting and preparation for fieldwork for WAG 28 (\$583).
- *Initiate construction of WAG 23, PCB Spill Sites Remedial Action. Planned action is excavation of contaminated soils with on-site treatment of waste (\$4608).
- *Develop no further action proposed plan and ROD for documentation for WAG 17, concrete rubble piles (\$1066).

BUDGET IMPACTS Continued

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BUDGET IMPACTS Continued

- *Develop Remedial Investigation Work Plan for WAG 3, and initiate contracting for fieldwork (\$832).
- *Develop Remedial Investigation Work Plan for WAG 15, and initiate contracting for fieldwork (\$1049).
- *Continue Well sampling of the groundwater plumes and site landfills (\$2908)
- *Initiate WAG 24 workplan development and issuance of workplan for review (\$520)

For discussion of additional impacts, see narrative portion of ADS.

ADS SUMMARY FUNDING PROFILE (\$000)

B&R Cat.	FY96APPR	FY97PRES	FY97APPR	FY98 DECREMENT	FY98 TARGET	FY98 PLANNING
OE	23,375	19,504	0	14,111	16,229	28,350
CE	0	0	0	0	0	0
GPP	0	0	0	0	0	0
LI	0	0	0	0	0	0
TOTAL	23,375	19,504	0	14,111	16,229	28,350

S&H FUNDING PROFILE (\$000)

B&R Cat.	FY96	FY97	FY98 DECREMENT	FY98 TARGET	FY98 PLANNING
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	0	0	0	0	0

FY98 DRIVER CATEGORY (\$000)

	DECREMENT	TARGET	PLAN	IMM RISK
A Compliance Agreement	12,955	15,073	27,066	0
B Court Order or Consent Decree	0	0	0	0
C Fed. Statute or Regulation	0	0	0	0
D State or Local Statute or Reg.	0	0	0	0
E DOE Order - Safety & Health	0	0	0	0
F DOE Order - Management & Other	0	0	0	0
G Agreement in Principle	0	0	0	0
H Proposed Compliance Agreement	0	0	0	0
I Other Essential Mgmt Function	1,156	1,156	1,284	0
TOTAL	14,111	16,229	28,350	0

ADS TARGET LEVEL (\$000)

B&R Cat.	FY99	FY00	FY01	FY02
OE	16,229	16,229	16,229	16,229
CE	0	0	0	0
GPP	0	0	0	0
LI	0	0	0	0
TOTAL	16,229	16,229	16,229	16,229

S&H TARGET LEVEL (\$000)

B&R Cat.	FY99	FY00	FY01	FY02
OE	0	0	0	0
CE	0	0	0	0
GPP	0	0	0	0
LI	0	0	0	0
TOTAL	0	0	0	0

ADS PLANNING LEVEL (\$000)

B&R Cat.	FY99	FY00	FY01	FY02
OE	28,350	28,350	28,350	28,350
CE	0	0	0	0
GPP	0	0	0	0
LI	0	0	0	0
TOTAL	28,350	28,350	28,350	28,350

S&H PLANNING LEVEL (\$000)

B&R Cat.	FY99	FY00	FY01	FY02
OE	0	0	0	0
CE	0	0	0	0
GPP	0	0	0	0
LI	0	0	0	0
TOTAL	0	0	0	0

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BUDGET DETAIL PROFILE (\$000)

DESC: ASSESSMENT		APPR: F SUB-DESC: A					
PROGRAM: EM		TITLE: RCRA/CERCLA Investigations					
B&R CODE	FY96 APPR	FY97 PRES	FY97 APPR	FY98 DECREMENT	FY98 TARGET	FY98 PLANNING	
EU2010301	2,662	5,723	0	646	1,705	1,688	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
TOTAL	2,662	5,723	0	646	1,705	1,688	

FY98 DRIVER CATEGORY

	DECREMENT	TARGET	PLAN	IMM RISK
A Compliance Agreement	646	1,705	1,688	0
B Court Order or Consent Decree	0	0	0	0
C Fed. Statute or Regulation	0	0	0	0
D State or Local Statute or Reg.	0	0	0	0
E DOE Order - Safety & Health	0	0	0	0
F DOE Order - Management & Other	0	0	0	0
G Agreement in Principle	0	0	0	0
H Proposed Compliance Agreement	0	0	0	0
I Other Essential Mgmt Function	0	0	0	0
TOTAL	646	1,705	1,688	0

ADS TARGET LEVEL (\$000)

B&R CODE	FY 99	FY 00	FY 01	FY 02
EU2010301	1,705	1,705	1,705	1,705
	0	0	0	0
	0	0	0	0
	0	0	0	0
TOTAL	1,705	1,705	1,705	1,705

ADS PLANNING LEVEL (\$000)

B&R CODE	FY99	FY00	FY01	FY02
EU2010301	1,688	1,688	1,688	1,688
	0	0	0	0
	0	0	0	0
	0	0	0	0
TOTAL	1,688	1,688	1,688	1,688

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BUDGET DETAIL PROFILE (\$000)

DESC: ASSESSMENT	APPR: F SUB-DESC: A					
PROGRAM: EM TITLE: PGDP Well Sampling						
B&R CODE	FY96 APPR	FY97 PRES	FY97 APPR	FY98 DECREMENT	FY98 TARGET	FY98 PLANNING
EU2010301	0	2,764	0	0	0	2,908
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
TOTAL	0	2,764	0	0	0	2,908

FY98 DRIVER CATEGORY

	DECREMENT	TARGET	PLAN	IMM RISK
A Compliance Agreement	0	0	2,908	0
B Court Order or Consent Decree	0	0	0	0
C Fed. Statute or Regulation	0	0	0	0
D State or Local Statute or Reg.	0	0	0	0
E DOE Order - Safety & Health	0	0	0	0
F DOE Order - Management & Other	0	0	0	0
G Agreement in Principle	0	0	0	0
H Proposed Compliance Agreement	0	0	0	0
I Other Essential Mgmt Function	0	0	0	0
TOTAL	0	0	2,908	0

ADS TARGET LEVEL (\$000)

B&R CODE	FY 99	FY 00	FY 01	FY 02
EU2010301	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
TOTAL	0	0	0	0

ADS PLANNING LEVEL (\$000)

B&R CODE	FY99	FY00	FY01	FY02
EU2010301	2,908	2,908	2,908	2,908
	0	0	0	0
	0	0	0	0
	0	0	0	0
TOTAL	2,908	2,908	2,908	2,908

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BUDGET DETAIL PROFILE (\$000)

DESC: CLEANUP					APPR: F	SUB-DESC: C
PROGRAM: EM TITLE: Groundwater and Support Facilities						
B&R CODE	FY96 APPR	FY97 PRES	FY97 APPR	FY98 DECREMENT	FY98 TARGET	FY98 PLANNING
EU2010302	20,713	11,017	0	13,465	14,524	23,754
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
TOTAL	20,713	11,017	0	13,465	14,524	23,754

FY98 DRIVER CATEGORY				
	DECREMENT	TARGET	PLAN	IMM RISK
A Compliance Agreement	12,309	13,368	22,470	0
B Court Order or Consent Decree	0	0	0	0
C Fed. Statute or Regulation	0	0	0	0
D State or Local Statute or Reg.	0	0	0	0
E DOE Order - Safety & Health	0	0	0	0
F DOE Order - Management & Other	0	0	0	0
G Agreement in Principle	0	0	0	0
H Proposed Compliance Agreement	0	0	0	0
I Other Essential Mgmt Function	1,156	1,156	1,284	0
TOTAL	13,465	14,524	23,754	0

ADS TARGET LEVEL (\$000)

B&R CODE	FY 99	FY 00	FY 01	FY 02
EU2010302	14,524	14,524	14,524	14,524
	0	0	0	0
	0	0	0	0
	0	0	0	0
TOTAL	14,524	14,524	14,524	14,524

ADS PLANNING LEVEL (\$000)

B&R CODE	FY99	FY00	FY01	FY02
EU2010302	23,754	23,754	23,754	23,754
	0	0	0	0
	0	0	0	0
	0	0	0	0
TOTAL	23,754	23,754	23,754	23,754

REGULATORY REQUIREMENTS

Primary Regulatory Driver: RCRA
CAA: N CWA: N SDWA: N RCRA: Y R3004U: Y TSCA: N CERCLA: Y NEPA: N
DOE: Y IAG: N OSHA: N ORD: N ST: Y TRI: Y FED: Y FICA: N
OTHER 1: Y OTHER 2: N OTHER 3: N

OTHER1:
FFA

Description

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MILESTONES (With a plan date of 10/01/1995 or beyond)

NONE

NARRATIVE

Activities Completed to Date/Current Year (FY 1996) Description:

Activities Completed to Date

- *Administrative Consent Order between DOE and USEPA signed into place 11/88 to address contaminated groundwater
- *Completed Phase I Investigation of the groundwater contamination and issued Phase I report (12/90)
- *Completed Phase II Investigation of the groundwater contamination and issued Phase II report (12/91)
- *ROD for Interim RA of the NW Plume signed by DOE and USEPA 7/93
- *Final RD Report for the interim RA of the NW Plume submitted to EPA/KDEP 12/94
- *Final ROD for interim action for the North-South Diversion Ditch approved by DOE and USEPA (3/94)
- *Completed waterline construction and connection of residents to municipal water for the DOE Water Policy (5/94)
- *Completed colloid sampling study designed to investigate transport mechanism for Tc-99 in groundwater (4/94)
- *Completed Interim Corrective Measures of C-746-K Landfill (Cap upgrades)
- *Completed NE Plume characterization fieldwork (11/94)
- *Completed WAG 23 Treatability Study Program Plan (1/95)
- *RI Addendum on WAG 23 received approval (1/95)
- *Issued the NE Plume Preliminary Characterization Study Report (2/95)
- *Completed construction of Subcontractor Staging Area (3/95)
- *Obtained ROD signature on the NE Plume (6/95)
- *Completed construction of the NW Plume IRA treatment facility (6/95)
- *WAG 22 (SWMUs 2&3) Issued D2 Feasibility Study (2/95), Issued D2 Proposed Plan (5/95), initiated RA design (7/95), and obtained ROD signature (9/95)
- *Issued Post construction Report for Waterline installation (7/95)
- *WAG 22 (SWMUs 7&30) Submitted D2 Sampling and Analysis Plan for approval (8/95)
- *Initiated design activities (10/95) and construction (5/96) for Northeast Plume Interim Remedial Action, under incentive task order contracting mechanism.
- *Obtained approval from Kentucky on modified closure plans for C-400-C Nickel Stripper and C-409 Hazardous Waste Pilot Plant (3/96).
- *Completed closure of C-400-C Nickel Stripper and C-409 Hazardous Waste Pilot Plant (8/96).
- *Initiated fieldwork on WAG 22, SWMU 2 and 3 interim remedial action and WAG 22, SWMU 7 and 30 investigations (8/96?).
- *Completed construction activities on Waste Storage Facility Phase I. (8/96)
- *Completed documentation on 1995 activities of well capping and locking for the DOE Water Policy Implementation
- *Initiated pilot operations for the Northwest Plume Interim Remedial Action. (8/95)
- *Submitted the D0 and D1 for the WAG 23 Feasibility Study, D1 and D2 Proposed Plan, and signed ROD for project. (9/96)
- *WAG 22 RI/FS (SWMUs 2&3) submit sampling plan to DOE and regulators and obtained regulatory approval.*Developed and submitted D1 RI/FS Work Plan for WAG 6 (8/96).

Budget Year (FY 1997) Description:

- *Complete construction of NE Plume Interim Remedial Action groundwater extraction facility and pipeline to cooling towers, and initiate operations (\$2243).
- *Initiate remedial design for the WAG 23 PCB Sites (\$1559).
- *Continue routine remedial action surveillance and maintenance activities

NARRATIVE Continued

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NARRATIVE Continued

(\$1100).

*Complete pilot operations phase of Northwest Plume Treatability Facility, determination of long-term operation strategy, and initiate long-term operating strategy. (\$3074).

*Initiate NW Plume Dissolved Phase RI/FS to evaluate possible methods/alternatives to address the dissolved portion of the NW plums (\$550).

*Perform background soils characterization for Paducah Site needed to support Remedial Investigations/Actions (\$800).

*Initiate Phase IIB of Lasagna Demonstration to remediate SWMU 91 (\$1500).

*Initiate design and construction of remedial action for WAG 22, SWMU 2 and 3 (\$3200).

*Complete remedial investigation of WAG 22, SWMU 7 and 30, and initiate RI Report (\$450).

*Complete RI/FS Work Plan for WAG 27 and submit to regulatory agencies (\$100).

*Initiate work on RI/FS Work Plan for WAG 28 (\$100).

*Address regulatory agency comments on WAG 6 DI RI/FS Work Plan, and initiate contracting for fieldwork on WAG 6 RI/FS (\$1173).

*Initiate design for WAG 1 and 7 Remedial Action, based upon 1996 ROD (\$2155).

*Continue Groundwater OU assessment of NW and NE Plumes including modelling of the plumes migration pathway, maintenance of the GIS/EIMS, and technical evaluations of data generated from pump & treat facilities and monitoring wells (\$1500).

The following projects have received no funding in FY 97 and will result in possible penalties, fines, and noncompliances with RCRA permit and FFA. The needed funding is indicated along with the project.

*PGDP well sampling (\$2710K)

*WAG 17 (\$200K)

*WAG 24 (\$115K)

*WAG 3 (\$300K)

Planning Year (FY 1998) Description:
Decrement Level:

*Initiate limited sampling and analysis activities for WAG 6 RI/FS (\$1725).

*Continue operations of NE Plume Interim Remedial Actions. Involves extraction of groundwater and pumping to cooling towers to strip TCE, with needed operations and maintenance of pumps and equipment (\$524).

*Initiate construction for WAGs 1 and 7 Remedial Action. Primary SWMU requiring remedial action will be the C-746-K Inactive Sanitary Landfill (\$6287).

*Continue operations of NW Plume Interim Remedial Action Facility.

Requires extraction of groundwater, pumping to NW Plume Treatment Facility, removing TCE and Tc-99, then discharging. Includes needed operation and maintenance of equipment and pumps, as well as influent and effluent sampling (\$3773).

*Continue RA Surveillance and Maintenance Activities (\$1156).

*Continue Groundwater OU assessment of the NW and NE Plumes (\$646).

Target Level--Includes Decrement Level plus following:

*Complete the construction of Interim Remedial Measure for WAG 22, SWMUs 2 and 3. Initiate ongoing surveillance and maintenance of remedial action (\$1059).

*Complete RI for WAG 22, SWMUs 2 and 30, and initiate Feasibility Study for buried ground (\$1059).

The following projects will not receive funding at the target level and will result in fines, penalties, and non-compliances with the RCRA Permit and FFA;

*Initiate contracting and preparations for fieldwork for WAG 27 (\$427).

*Initiate contracting and preparation for fieldwork for WAG 28 (\$583).

NARRATIVE Continued

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NARRATIVE Continued

- *Initiate construction of WAG 23, PCB Spill Sites Remedial Action. Planned action is excavation of contaminated soils with on-site treatment of waste (\$4608).
- *Develop no further action proposed plan and ROD for documentation for WAG 17, concrete rubble piles (\$1066).
- *Develop Remedial Investigation Work Plan for WAG 3, and initiate contracting for fieldwork (\$832).
- *Develop Remedial Investigation Work Plan for WAG 15, and initiate contracting for fieldwork (\$1049).
- *Continue Well sampling of the groundwater plumes and site landfills (\$2908)
- *Initiate WAG 24 workplan development and issuance of workplan for review (\$520)

Planning Level:

- Planning includes activities in target and decrement and the following:
- *Initiate contracting and preparations for fieldwork for WAG 27 (\$427).
 - *Initiate contracting and preparation for fieldwork for WAG 28 (\$583).
 - *Initiate construction of WAG 23, PCB Spill Sites Remedial Action. Planned action is excavation of contaminated soils with on-site treatment of waste (\$4608).
 - *Develop no further action proposed plan and ROD for documentation for WAG 17, concrete rubble piles (\$1066).
 - *Develop Remedial Investigation Work Plan for WAG 3, and initiate contracting for fieldwork (\$832).
 - *Develop Remedial Investigation Work Plan for WAG 15, and initiate contracting for fieldwork (\$1049).
 - *Continue Well sampling of the groundwater plumes and site landfills (\$2908)
 - *Initiate WAG 24 workplan development and issuance of workplan for review (\$520)

S&H Narrative:

S & H activities are funded by plant overhead.

Outyears (FY 1999 - FY 2002) Description:

- Outyear activities will include;
- *Development of a Proposed Plan and Record of Decision for WAG 22 (SWMUs 7&30) in FY 98 and 99
 - *Operation and maintenance on capping and well monitoring for WAG 22 (SWMUs 2&3)
 - *Maintain the lease agreement to be renegotiated in FY 99
 - *Operation and maintenance of treatment systems on the NE and NW plumes
 - *Development of decision documents for NW and NE plumes
 - *Start of construction for remedial actions on WAG 23 FY 98
 - *Continued well sampling and monitoring
 - *Submit RI/FS workplans for regulatory review
 - WAG 20 FY 98
 - WAG 21 FY 98
 - WAG 19 FY 99
 - WAG 24 FY 99
 - WAG 12 FY 00
 - WAG 18 FY 00
 - *Start field investigations per the approved regulatory schedule
 - *Issue Preliminary Characterization Study Reports per approved schedules
 - *Implement Treatability Studies to support field investigations

Additional Impacts Not Described in Budget Impacts:

Supporting Documents:

NARRATIVE Continued

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NARRATIVE Continued

This ADS is backed up by a baseline and life cycle baseline.

- A:
- B:
- C:
- D:

PRIOR YEAR ADS CROSS REFERENCES

Prior Year ADS #: OR- - -
 Prior Year ADS Title:

Effective Date of Transfer: 02/28/1995
 Transferred in its entirety: Y
 Explanation of Change:

Scope Change: This ADS is written at WBS level 5 and contains the following ADSs: 5301 through 5314. Dollar Change: Funding in this ADS is the accumulated funding for the above mentioned ADSs.

User Defined Worksheet

	0.00	0.00	0.00	0.00	0.00	
	0.00	0.00	0.00	0.00	0.00	
	0.00	0.00	0.00	0.00	0.00	

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Risk Summary Data
 RDS SUMMARY
 "BEFORE" CASE

CONSQ. LEVEL	PUBLIC S&H				SITE PERSONNEL S&H				ENVIRONMNTL IMPACT				COMPLIANCE				MISSION IMPACT				COST EFFECTIVENESS				SOCIAL/CULT ECON							
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D				
1)						1			5				16				4	8											2		1	
2)	11	1	2						5	2										2	7	1										
3)	1	1			14				2	1		1																				13
4)																																

1)	PADUCR94F0016	2A		3A		2A		1A		1B		2D	1)	PADUCR94F0016
2)	PADUCR94F0018	2A		3A		1A		1A		1A		2D	2)	PADUCR94F0018
3)	PADUCR94F0019	2A		3A		1A		1A		2A		1A	3)	PADUCR94F0019
4)	PADUCR94F0021	2A		3A		1A		1A		2A		1A	4)	PADUCR94F0021
5)	PADUCR94F0024	2A		3A		3A		1A		1B	2A	1C	5)	PADUCR94F0024
6)	PADUCR94F0049	2B		1B		2B		1A		1A	2A	2D	6)	PADUCR94F0049
7)	PADUCR94F0057	2A		3A		1A		1A		1A	2A	2D	7)	PADUCR94F0057
8)	PADUCR94F0058	2A		3A		1A		1A		1B	2A	2D	8)	PADUCR94F0058
9)	PADUCR94H0052	2C		3A		3D		1A		2D		2D	9)	PADUCR94H0052
10)	PADUCR95B0094	2A		3A		2A		1A		1B	2B	2D	10)	PADUCR95B0094
11)	PADUCR95B0095	2A		3A		2A		1A		1B		2D	11)	PADUCR95B0095
12)	PADUCR95C0021	3A		3A		3A		1A		1B		2D	12)	PADUCR95C0021
13)	PADUCR95M0028	2A		3A		2A		1A		1B	2A	2D	13)	PADUCR95M0028
14)	PADUCR95M0029	2A		3A		2A		1A		1B	2A	2D	14)	PADUCR95M0029
15)	PADUCR95M0047	2C		3A		2B		1A		2D		2D	15)	PADUCR95M0047
16)	PADUCR96T0003	3B				3B		1A		1A	2A	2D	16)	PADUCR96T0003

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RDS Detail Screen

ADS Number: OR 5300U
 RISK EVALUATION

1) RDS Number: PADUCR94F0016

	BEFORE		DURING		AFTER	
	CONSEQ	LIKELI	CONSEQ	LIKELI	CONSEQ	LIKELI
PUBLIC S&H	2	A	2	A	3	D
SITE PER S&H	3	A	3	A	4	C
ENVIRON IMPACT	2	A	1	A	3	C
COMPLIANCE	1	A			4	D
MISSION IMPACT	1	B			2	D
COST EFFECTIVENESS						
SOCIAL/CULT ECON	2	D	2	D	2	D

PROJECT COST ESTIMATE

	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
OE	802	1,559	4,608	2,000	1,167	0	0
CE	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0
LI	0	0	0	0	0	0	0
TOTAL	802	1,559	4,608	2,000	1,167	0	0

RDS Detail Screen

ADS Number: OR 5300U
 RISK EVALUATION

2) RDS Number: PADUCR94F0018

	BEFORE		DURING		AFTER	
	CONSEQ	LIKELI	CONSEQ	LIKELI	CONSEQ	LIKELI
PUBLIC S&H	2	A	1	A	3	A
SITE PER S&H	3	A	2	A	4	C
ENVIRON IMPACT	1	A			3	C
COMPLIANCE	1	A			4	D
MISSION IMPACT	1	A			2	D
COST EFFECTIVENESS						
SOCIAL/CULT ECON	2	D	2	D	2	D

PROJECT COST ESTIMATE

	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
OE	537	600	646	600	600	600	600
CE	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0
LI	0	0	0	0	0	0	0
TOTAL	537	600	646	600	600	600	600

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ADS Number: OR 5300U
 RISK EVALUATION

3) RDS Number: PADUCR94F0019

	BEFORE		DURING		AFTER	
	CONSEQ	LIKELI	CONSEQ	LIKELI	CONSEQ	LIKELI
PUBLIC S&H	2	A	1	B	3	B
SITE PER S&H	3	A	3	A	4	C
ENVIRON IMPACT	1	A	1	A	3	C
COMPLIANCE	1	A			4	D
MISSION IMPACT	2	A			2	D
COST EFFECTIVENESS						
SOCIAL/CULT ECON	1	A	2	D	2	D

PROJECT COST ESTIMATE							
	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
OE	4,020	3,074	3,773	3,548	3,755	4,237	4,300
CE	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0
LI	0	0	0	0	0	0	0
TOTAL	4,020	3,074	3,773	3,548	3,755	4,237	4,300

RDS Detail Screen

ADS Number: OR 5300U
 RISK EVALUATION

4) RDS Number: PADUCR94F0021

	BEFORE		DURING		AFTER	
	CONSEQ	LIKELI	CONSEQ	LIKELI	CONSEQ	LIKELI
PUBLIC S&H	2	A	1	B	3	B
SITE PER S&H	3	A	3	A	4	C
ENVIRON IMPACT	1	A	1	A	3	C
COMPLIANCE	1	A			4	D
MISSION IMPACT	2	A			2	D
COST EFFECTIVENESS	2	A			2	D
SOCIAL/CULT ECON	1	A	2	D	2	D

PROJECT COST ESTIMATE							
	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
OE	5,097	2,243	524	500	500	500	500
CE	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0
LI	0	0	0	0	0	0	0
TOTAL	5,097	2,243	524	500	500	500	500

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ADS Number: OR 5300U
 RISK EVALUATION

5) RDS Number: PADUCR94F0024

	BEFORE		DURING		AFTER	
	CONSEQ	LIKELI	CONSEQ	LIKELI	CONSEQ	LIKELI
PUBLIC S&H	2	A	2	A	3	D
SITE PER S&H	3	A	3	A	4	C
ENVIRON IMPACT	3	A	3	B	3	D
COMPLIANCE	1	A			4	D
MISSION IMPACT	1	B			2	D
COST EFFECTIVENESS						
SOCIAL/CULT ECON	1	C	1	C	1	D

PROJECT COST ESTIMATE

	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
OE	0	2,018	1,066	191	350	1,563	657
CE	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0
LI	0	0	0	0	0	0	0
TOTAL	0	2,018	1,066	191	350	1,563	657

RDS Detail Screen

ADS Number: OR 5300U
 RISK EVALUATION

6) RDS Number: PADUCR94F0049

	BEFORE		DURING		AFTER	
	CONSEQ	LIKELI	CONSEQ	LIKELI	CONSEQ	LIKELI
PUBLIC S&H	2	B	3	C	3	C
SITE PER S&H	1	B	3	C	4	C
ENVIRON IMPACT	2	B	3	C	3	C
COMPLIANCE	1	A			4	D
MISSION IMPACT	1	A			2	D
COST EFFECTIVENESS	2	A			2	D
SOCIAL/CULT ECON	2	D	2	D	2	D

PROJECT COST ESTIMATE

	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
OE	1,121	1,100	1,156	1,300	1,400	1,600	1,600
CE	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0
LI	0	0	0	0	0	0	0
TOTAL	1,121	1,100	1,156	1,300	1,400	1,600	1,600

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ADS Number: OR 5300U
 RISK EVALUATION

7) RDS Number: PADUCR94F0057

	BEFORE		DURING		AFTER	
	CONSEQ	LIKELI	CONSEQ	LIKELI	CONSEQ	LIKELI
PUBLIC S&H	2	A	2	A	3	C
SITE PER S&H	3	A	2	A	4	C
ENVIRON IMPACT	1	A	2	B	3	C
COMPLIANCE	1	A			4	D
MISSION IMPACT	1	A			2	D
COST EFFECTIVENESS	2	A			2	D
SOCIAL/CULT ECON	2	D	2	D	2	D

PROJECT	COST ESTIMATE						
	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
OE	1,170	1,173	1,725	474	373	195	329
CE	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0
LI	0	0	0	0	0	0	0
TOTAL	1,170	1,173	1,725	474	373	195	329

RDS Detail Screen

ADS Number: OR 5300U
 RISK EVALUATION

8) RDS Number: PADUCR94F0058

	BEFORE		DURING		AFTER	
	CONSEQ	LIKELI	CONSEQ	LIKELI	CONSEQ	LIKELI
PUBLIC S&H	2	A	2	A	3	C
SITE PER S&H	3	A	3	A	4	C
ENVIRON IMPACT	1	A	1	A	3	C
COMPLIANCE	1	A			4	D
MISSION IMPACT	1	B			2	D
COST EFFECTIVENESS	2	A			2	D
SOCIAL/CULT ECON	2	D	2	D	2	D

PROJECT	COST ESTIMATE						
	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
OE	1,179	2,155	6,287	4,531	1,813	0	0
CE	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0
LI	0	0	0	0	0	0	0
TOTAL	1,179	2,155	6,287	4,531	1,813	0	0

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ADS Number: OR 5300U
 RISK EVALUATION

9) RDS Number: PADUCR94H0052

	BEFORE		DURING		AFTER	
	CONSEQ	LIKELI	CONSEQ	LIKELI	CONSEQ	LIKELI
PUBLIC S&H	2	C	2	C	3	D
SITE PER S&H	3	A	3	A	4	C
ENVIRON IMPACT	3	D	3	D	3	D
COMPLIANCE	1	A			4	D
MISSION IMPACT	2	D			2	D
COST EFFECTIVENESS						
SOCIAL/CULT ECON	2	D	2	D	2	D

PROJECT	COST ESTIMATE						
	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
OE	0	100	1,049	1,411	2,053	464	264
CE	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0
LI	0	0	0	0	0	0	0
TOTAL	0	100	1,049	1,411	2,053	464	264

RDS Detail Screen

ADS Number: OR 5300U
 RISK EVALUATION

10) RDS Number: PADUCR95B0094

	BEFORE		DURING		AFTER	
	CONSEQ	LIKELI	CONSEQ	LIKELI	CONSEQ	LIKELI
PUBLIC S&H	2	A	2	A	3	C
SITE PER S&H	3	A	2	A	4	C
ENVIRON IMPACT	2	A	2	B	3	C
COMPLIANCE	1	A			4	D
MISSION IMPACT	1	B			2	D
COST EFFECTIVENESS	2	B			2	D
SOCIAL/CULT ECON	2	D	2	D	2	D

PROJECT	COST ESTIMATE						
	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
OE	250	100	427	450	545	1,000	71
CE	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0
LI	0	0	0	0	0	0	0
TOTAL	250	100	427	450	545	1,000	71

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ADS Number: OR 5300U
 RISK EVALUATION

11) RDS Number: PADUCR95B0095

	BEFORE		DURING		AFTER	
	CONSEQ	LIKELI	CONSEQ	LIKELI	CONSEQ	LIKELI
PUBLIC S&H	2	A	2	A	3	C
SITE PER S&H	3	A	2	A	4	C
ENVIRON IMPACT	2	A	2	B	3	C
COMPLIANCE	1	A			4	D
MISSION IMPACT	1	B			2	D
COST EFFECTIVENESS						
SOCIAL/CULT ECON	2	D	2	D	2	D

PROJECT	COST ESTIMATE						
	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
OE	0	100	583	786	121	103	142
CE	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0
LI	0	0	0	0	0	0	0
TOTAL	0	100	583	786	121	103	142

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ADS Number: OR 5300U
 RISK EVALUATION

12) RDS Number: PADUCR95C0021

	BEFORE		DURING		AFTER	
	CONSEQ	LIKELI	CONSEQ	LIKELI	CONSEQ	LIKELI
PUBLIC S&H	3	A	3	A	3	D
SITE PER S&H	3	A	1	C	4	D
ENVIRON IMPACT	3	A	2	A	3	D
COMPLIANCE	1	A			4	D
MISSION IMPACT	1	B			2	D
COST EFFECTIVENESS						
SOCIAL/CULT ECON	2	D	2	D	2	D

PROJECT	COST ESTIMATE						
	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
OE	0	115	520	1,000	121	103	142
CE	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0
LI	0	0	0	0	0	0	0
TOTAL	0	115	520	1,000	121	103	142

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ADS Number: OR 5300U
 RISK EVALUATION

13) RDS Number: PADUCR95M0028

	BEFORE		DURING		AFTER	
	CONSEQ	LIKELI	CONSEQ	LIKELI	CONSEQ	LIKELI
PUBLIC S&H	2	A	2	A	3	C
SITE PER S&H	3	A	2	B	4	C
ENVIRON IMPACT	2	A	2	A	3	C
COMPLIANCE	1	A			4	D
MISSION IMPACT	1	B			2	D
COST EFFECTIVENESS	2	A			2	D
SOCIAL/CULT ECON	2	D	2	D	2	D

PROJECT COST ESTIMATE

	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
OE	70	450	1,059	1,800	2,000	500	500
CE	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0
LI	0	0	0	0	0	0	0
TOTAL	70	450	1,059	1,800	2,000	500	500

RDS Detail Screen

ADS Number: OR 5300U
 RISK EVALUATION

14) RDS Number: PADUCR95M0029

	BEFORE		DURING		AFTER	
	CONSEQ	LIKELI	CONSEQ	LIKELI	CONSEQ	LIKELI
PUBLIC S&H	2	A	2	A	3	C
SITE PER S&H	3	A	2	B	4	C
ENVIRON IMPACT	2	A	2	A	3	C
COMPLIANCE	1	A			4	D
MISSION IMPACT	1	B			2	D
COST EFFECTIVENESS	2	A			2	D
SOCIAL/CULT ECON	2	D	2	D	2	D

PROJECT COST ESTIMATE

	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
OE	2,931	3,200	1,059	500	250	250	250
CE	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0
LI	0	0	0	0	0	0	0
TOTAL	2,931	3,200	1,059	500	250	250	250

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 RISK EVALUATION

15) RDS Number: PADUCR95M0047

	BEFORE		DURING		AFTER	
	CONSEQ	LIKELI	CONSEQ	LIKELI	CONSEQ	LIKELI
PUBLIC S&H	2	C	2	C	3	C
SITE PER S&H	3	A	2	B	4	C
ENVIRON IMPACT	2	B	2	B	3	C
COMPLIANCE	1	A			4	D
MISSION IMPACT	2	D			2	D
COST EFFECTIVENESS						
SOCIAL/CULT ECON	2	D	2	D	2	D

PROJECT	COST ESTIMATE						
	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
OE	0	100	832	112	116	355	674
CE	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0
LI	0	0	0	0	0	0	0
TOTAL	0	100	832	112	116	355	674

RDS Detail Screen

ADS Number: OR 5300U
 RISK EVALUATION

16) RDS Number: PADUCR96T0003

	BEFORE		DURING		AFTER	
	CONSEQ	LIKELI	CONSEQ	LIKELI	CONSEQ	LIKELI
PUBLIC S&H	3	B	3	B	3	D
SITE PER S&H						
ENVIRON IMPACT	3	B	3	B	3	C
COMPLIANCE	1	A			4	D
MISSION IMPACT	1	A			2	D
COST EFFECTIVENESS	2	A			2	D
SOCIAL/CULT ECON	2	D	2	D	2	D

PROJECT	COST ESTIMATE						
	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
OE	2,813	2,710	2,908	2,895	2,984	3,085	3,190
CE	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0
LI	0	0	0	0	0	0	0
TOTAL	2,813	2,710	2,908	2,895	2,984	3,085	3,190

MSA OR-1
FY 97 Budget History
New BA
(\$ in Thousands)

		FY 97 ADS Submission (4/95)	FY 97 OMB Target (10/95)	FY 97 Pres. Budget (2/96)	FY 97 House/ Senate Marks (7/96)	FY 97 with Holdbacks (8/96)
D&D Fund	EU	250,256	227,696	198,200	166,200	164,540
Defense	EW	84,539	79,339	76,488	76,488	73,782
Non-Defense	EX	41,706	42,512	42,012	38,249	37,445
Total		376,501	349,547	316,700	280,937	275,767

MSA OR-1 FUNDING BY STATE

CASE I: PROPORTIONAL TO TOTAL FUNDING

	<u>1995</u>		<u>1996</u>		<u>1997</u>		<u>Revised 1997</u>	
EU	259.5		230.7		198.2		166.2	
EW	76.1		85.2		76.5		76.5	
EX	<u>51.5</u>		<u>36.5</u>		<u>42.0</u>		<u>38.2</u>	
Totals	387.1		352.4		316.7		280.9	
	<u>1995</u>	<u>%</u>	<u>1996</u>	<u>%</u>	<u>1997</u>	<u>%</u>	<u>Revised 1997</u>	<u>%</u>
TN	265.0	68.5	245.7	69.8	218.8	69.1	194.1	69.1
OH	68.2	17.6	58.2	16.5	53.5	16.9	47.5	16.9
KY	<u>53.9</u>	13.9	<u>48.3</u>	13.7	<u>44.4</u>	14.0	<u>39.3</u>	14.0
Totals	387.1		352.2		316.7		280.9	
					↑ <i>President's Budget</i>		↑ <i>House/ Senate Markup</i>	

PROJECT	OLD HQ ADS	HQ ADS	NEW OCADS
NE PLUME IRA ROD #1 CONST/OPER - INCENTIVE	5302	5300U	53EP
PGDP WELL SAMPLING - FY 97	5311	5300U	53G7
PGDP WELL SAMPLING - INCENTIVE	5311	5300U	53GW
DITCH 011 & 012 ICM - INCENTIVE	5302	5300U	53HI
GROUNDWATER OU - INCENTIVE	5302	5300U	53HI
NW PLUME - CONTAINMENT - INCENTIVE	5302	5300U	53HW
PGDP RA ROUTINE S&M - FY 97	5314	5300U	53R7
WAG 22 (SYMU 2 & 3) - INCENTIVE	5302	5300U	53S2
PGDP RA ROUTINE S&M - INCENTIVE	5314	5300U	53SM
WAG 6 PHASE I HYDROGEOLOGIC INDUSTRIAL STUDY	5309	5300U	53WB
PGDP D&D ROUTINE S&M - FY 97	5701	5700U	57D7
PGDP D&D ROUTINE S&M - INCENTIVE	5701	5700U	57SM
WASTE STORAGE FACILITY PHASE I	5301	5300U	5321
NW PLUME - CONTAINMENT - Non-Incentive	5302	5300U	5322
NE PLUME IRA ROD #2 CONST/OPER - Non-Incentive	5302	5300U	5323
N'S DITCH DESIGN/CONSTRUCTION	5302	5300U	5324
WAG 22 (SYMU 2 & 3) - Non-Incentive	5302	5300J	5325
WAG 22 (SYMU 7 & 30) - Non-Incentive	5302	5300J	5329
WAG 23 TREATABILITY STUDIES	5302	5300U	5328
WAGs 4 & 7 R/FS	5304	5300U	5329
WAG 17 RFI (CONCRETE RUBBLE PILES)	5309	5300U	5330
REMEDIATION OF SYMU #1 USING THE LASAGNA PROC	5311	5300U	5331
ER CONSTRUCTION STAGING AREA	5301	5300U	5332
DECON PAD	5301	5300U	5333
INDIRECT COMMITMENTS (LEASE)	5301	5300U	5334
DITCH 011 & 012 ICM - Non-Incentive	5302	5300U	5335
PADUCAH BACKGROUND LEVELS IN SOIL	5302	5300U	5336
DOE WATER POLICY IMPLEMENTATION	5302	5300U	5337
HYDROGEOLOGIC SUPPORT FOR ER	5311	5300U	5338
IRON FILINGS RESEARCH	5311	5300J	5339
INTERA NAPL PARTITIONING TRACER TEST	5311	5300U	5340
C-400-C NICKEL STRIPPER	5313	5300U	5341
C-403 NEUTRALIZATION PIT	5313	5300U	5342
C-409 PILOT PLANT	5313	5300U	5343
PGDP RA ROUTINE S&M - Non-Incentive	5314	5300U	5344
PGDP RESIDENTS WATER - Non-Incentive	5314	5300J	5345
WELL MAINTENANCE CONTRACTS - Non-Incentive	5314	5300J	5346
PGDP WELL SAMPLING - Non-Incentive	5314	5300U	5347
WELL ABANDONMENT	5314	5300U	5348
WAG 8 RFI	5309	5300U	5349
WAG 13	5306	5300U	5350
WAG 8	5306	5300U	5351
WAG 9	5308	5300U	5352
USTs	5312	5300U	5353
GROUNDWATER OU - Non-Incentive	5302	5300U	5354
WAG 27	5302	5300U	5355
WAG 28	5302	5300U	5356
WAG 3	5313	5300U	5357
WAG 24 R/FS	5302	5300U	5358
WAG 24 REMOVAL - REMOVAL OF DRUM MOUNTAIN	5302	5300U	5359
PGDP ER PROGRAM MANAGEMENT	5501	5500U	5521
PGDP D&D ROUTINE S&M - Non-Incentive	5701	5700U	5721
WASTE TREATMENT (NON-HTO)		5200U	5231
WASTE STORAGE (NON-HTO)		5200U	5232
PAD VORTEC FY97 ENGINEERING PROJECTS		5200U	5233
PAD WASTE MANAGEMENT REGULATORY ISSUES/ANALYSIS		5200U	5234
C-733 FIRE UPGRADES		5200U	5235
SOLID WASTE LANDFILL CONSTRUCTION		5200U	523F
WASTE DISPOSAL		5200U	52DI
WASTE STORAGE		5200U	52ST
WASTE TREATMENT		5200U	52TR

Common Types of Contracts used at PGDP

- Task Work Agreements (LMES)
- Incentive Tasks Orders (LMES)
- Tasks Orders (Jacobs)

FY 1997 PRESIDENT'S BUDGET**URANIUM PROGRAMS****Budget Authority (in \$1000's)**

	FY 1996	FY 1997
	-----	-----
Portsmouth	20,363	17,510
Paducah	20,886	15,827
K-25	29,442	19,727
DOE and OTHER	4,188	11,927
	-----	-----
Total Uranium Programs	74,879	64,991
	=====	=====

FY 1997 PRESIDENT'S BUDGET

OAK RIDGE OPERATIONS OFFICE

Summary By DOE Site/Plant
(Budget Authority in Millions of Dollars)

Plant/Site	FY 1996	FY 1997 President's Budget
Y-12	444.8	435.7
ORNL	380.0	380.0
ORISE	44.7	43.2
K-25 (Non-Environmental Mgt)	39.4	36.1
LMES-Environmental Mgt	478.5	428.7
LMES Work for Others	84.5	116.4
FEDERAL PERSONNEL	72.4	71.6
DOE DIRECT	139.2	144.4
	-----	-----
Subtotal Oak Ridge	1683.5	1654.1
PORTSMOUTH	79.1	67.5
PADUCAH	69.4	58.4
WSSRAP	57.7	67.5
FUSRAP	74.0	83.1
CEBAF	68.0	70.0
	-----	-----
TOTAL ORO	2031.7	2000.6
	=====	=====

ENVIRONMENTAL MANAGEMENT

Budget Authority (In \$1000's)

	FY 1996 -----	FY 1997 -----
Y-12		
Waste Management/Corrective Actions	36,754	31,718
Environmental Restoration	26,713	26,713
Total	62,302	58,481
ORNL		
Waste Management/Corrective Actions	72,227	63,049
Environmental Restoration	53,531	51,035
Technology Development	15,477	12,427
Facility Transition	13,408	16,018
Other	3,377	2,236
Total	158,080	144,765
K-25		
Waste Management/Corrective Actions	48,999	46,530
Environmental Restoration	103,318	80,943
Technology Development	5,785	4,841
Facility Transition	555	357
Total	158,668	132,471
CENTRAL		
Waste Management/Corrective Actions	43,894	34,155
Environmental Restoration	55,583	53,528
Other	0	3,313
Total	99,477	90,996
DOE DIRECT/FED PERSONNEL		
Waste Management/Corrective Actions	3,349	2,890
Environmental Restoration	56,738	54,404
Technology Development	6,535	4,000
Facility Transition	197	0
Program Direction	21,594	19,477
Total	88,413	80,871
TOTAL OAK RIDGE	566,940	507,584
PADUCAH		
Environmental Restoration	48,303	42,551
Technology Development	155	0
Total	48,458	42,551
PORTSMOUTH		
Environmental Restoration	58,155	49,476
WSSRAP		
Environmental Restoration	57,700	67,500
FUSRAP		
Environmental Restoration	73,982	83,079
TOTAL NON-TENNESSEE	238,295	242,606
TOTAL ENVIRONMENTAL MANAGEMENT	805,235	750,190

Task Work Agreement Approvals

Northeast Plume Operations and Maintenance

WBS Number 7.1.02.16.10

ADS 5302

[Signature]
Task Manager

8.29.96
Date

[Signature]
Project Manager

8.29.96
Date

[Signature]
Manager, Environmental Restoration Division

8/29/96
Date

[Signature]
DOE Program Manager

8/29/96
Date

[Signature]
Paducah Site Manager, DOE

8/29/96
Date

Attachment 1

Northeast Plume Operations and Maintenance
WBS Number 7.1.16.10

Responsibility Assignment Matrix

	7.1.02.16.01 Project Management	7.1.02.16.02 Project Support Services	7.1.02.16.10.04 Monitoring Plan	7.1.02.16.10.05 Monitoring
C064 - Contract Support		Support		
R069 - Engineering			Support	Support
D077 - HAZWRAP		Support		
R063 - Waste Management				Support
R065 - Information Management		Support		
R067 - Business Management		Support		
R070 - Environmental Restoration	Primary	Primary	Primary	Support
R071 - Quality Assurance			Support	Support
SC01 - Off-site Subcontract			Support	Primary
TS01 - Jacobs Engineering			Support	Support
UASV - LMUS Analytical Services				Support
UCAS - LMUS Cascade Operations			Support	Support

TASK WORK AGREEMENT
NORTHEAST PLUME OPERATIONS AND MAINTENANCE

WBS Number 1.4.12.7.1.02.16.10

CCADS 5323

ADS 5302

7/29/96

Internal Use Only
Caution

This document has not been given final patent clearance and is intended for internal use only. If this document is to be given public release, it must be cleared through the site Technical Information Office which will see that the proper patent and technical information reviews are completed in accordance with Energy Systems Policy.

Task Work Agreement
Northeast Plume Operations and Maintenance
7/29/96 - Rev 0

1. Introduction

A Record of Decision dated June 1995 requires that a groundwater pump and treat facility and two innovative technologies be put into operation on the NE Plume at PGDP. The Operations and Maintenance (O&M) on the NE Plume will include all activities subsequent to the completion of the construction phase that are required to keep the remediation facilities operational.

2. Technical Plan

2.1 Task Objective

The FY 1997 objective of this task is to review the design and construction projects to assure these tasks are completed in a manner consistent with the O&M objectives. Also during FY 1997, plans, procedures, and activities necessary for preparation for O&M will be completed. This work will include, but is not limited to, issue of D1 of the O&M plan to the regulators, comment resolution, development of standard operating procedures, training of operational personnel, readiness review assessment, preparation of an Integrated Test Plan, preparation of contracts for the O&M work, and initiating operations and maintenance of the facility.

The EAC BA for this task will be \$878K.

2.2 Key Assumptions

Technical Assumptions

The northeast groundwater plume does not contain technetium-99 (⁹⁹Tc) at a level necessary for treatment.

The United States Enrichment Corporation (USEC) through its operation and maintenance contractor, Lockheed Martin Utility Services, Inc. (LMUS), will support the Record of Decision by treating the Northeast Plume Treatment System (NEPTS) groundwater through the operating cooling towers for removal of the trichloroethylene (TCE).

Task Work Agreement
Northeast Plume Operations and Maintenance
7/29/96 - Rev 0

LMUS will be responsible for maintenance of NEPTS equipment within the plant fenced boundary via a Memorandum of Understanding (MOU) with LMES. The LMES Project Manager will provide technical direction and support for necessary scheduled and unscheduled maintenance activities.

Estimate Assumptions

The cost estimate was derived using AES Standard Value File RER2276A. The NEPTS will be co-operated by the contractor operating the Northwest Plume Pilot Plant. The contractor will be responsible for operation and maintenance of the NEPTS and associated support services including, but not limited to, safety and health, sampling, laboratory analysis, and quality assurance. The NEPTS will not be incentivized before the end of FY 1997.

Schedule Assumptions

The Northeast Plume Treatment System (NEPTS) operation and maintenance activities will begin February 3, 1997.

2.3 Task Scope

Monitoring - WBS 7.1.02.16.10.05

This WBS will cover the O&M on the NEPTS, including all activities that are required to keep the remediation facilities operational. The performance of the Integrated Test will also be included.

Jacobs Engineering will conduct a simulation of the NE Plume interim remedial action to verify the aquifer test results and recalibrate the model using NE Plume data. Jacobs Engineering will also perform optimization simulations of the hydraulic containment system to determine the optimum extraction rate to control the plume. The modeling simulations will be used to recommend further actions or modifications to the system. Solute transport modeling will be conducted to evaluate plume travel times and to predict contaminant contributions downgradient of the extraction wells. This activity will also support future remedial decisions.

Task Work Agreement
Northeast Plume Operations and Maintenance
7/29/96 - Rev 0

regarding Technical Impracticability waivers, Alternative Concentration Levels, or natural attenuation. An Explanation of Significant Differences (ESD) will also be developed.

Monitoring Plan - WBS 7.1.02.16.10.04

A number of preparation activities must take place prior to the O&M phase. These activities may include, but are not limited to, the preparation of the O&M Plan, preparation of operating procedures, preparation of plans such as quality assurance plan, health and safety, and waste management plans, conduct of operations applicability matrix preparation, familiarization of the O&M contractor with the NEPTS, Integrated Test Plan development, readiness review assessment, and O&M contract preparation and associated budget estimating.

Project Management - WBS 7.1.02.16.01

This WBS will provide for a project manager to lead this project. Activities may include project oversight, review of design and construction activities, field inspection, preparation of necessary project documentation, plans, and procedures, cost data evaluation, project reporting, coordinating team and support group efforts, and status meetings.

Project Support Services - WBS 7.1.02.16.02

Baseline Coordination support will include tracking of costs on the MCIS, project analyst evaluation of cost data, EU cost estimate, coordination of reporting for the MSR, PTS, and schedules. Support from Business Management will include review of financial data assistance with issuance of ESOs, directives, and FIN Plans. Assistance will also be provided for BCP development and issuance.

2.4 Method of Accomplishment

The method of accomplishment for the Northeast Plume Operation and Maintenance is as follows (see Attachment 1, Responsibility Assignment Matrix):

Task Work Agreement
Northeast Plume Operations and Maintenance
7/29/96 - Rev 0

Monitoring - WBS 7.1.02.16.10.05

The operation and maintenance of the NEPTS will be performed by a subcontractor. The subcontractor will be responsible for day to day operation of the facility including, but not limited to, collection of data and data management, implementation of preventive and unscheduled maintenance, sample coordination and on-site laboratory analysis, interfacing with confirmation laboratories, health and safety compliance, quality assurance, and procurement. The subcontractor will supply LMES with information required for financial and technical reporting. Support for operation and maintenance activities will be supplied by LMES Environmental Restoration, Waste Management, Engineering, Quality Assurance, and LMUS Analytical Services and Cascade Operations via the MOU process. Jacobs Engineering will supply support for NE Plume data modeling.

Monitoring Plan - WBS 7.1.02.16.10.04

This work will be accomplished through a combination of LMES and subcontractor support, and LMUS via the MOU process.

Project Management - WBS 7.1.02.16.01

This work will be accomplished by the LMES Project Manager of the Environmental Restoration Division.

Project Support Services - WBS 7.1.02.16.02

This work will be accomplished by LMES Environmental Restoration, Business Management, and Information Management. LMES Oak Ridge will provide contract maintenance and cost estimation support (HAZWRAP) services.

2.5 Task Plan

The schedule and milestone log are attached. Remedial action start is currently scheduled for October 4, 1996.

Task Work Agreement
Northeast Plume Operations and Maintenance
7/29/96 - Rev 0

2.6 Total Task Cost Estimate

The total estimated FY 1997 cost for the Northeast Plume Treatment System is \$878K, of which \$317K is for the preparation for operation and maintenance and \$561K is estimated for the first 8 months of operation and maintenance. The BCWS Plans identify new BCWS, prior year BCWS is accounted for in the baseline. See the following attachments for detailed information:

- Attachment 1 - Responsibility Matrix
- Attachment 2 - BA Projection
- Attachment 3 - BCWS Plan by Prime
- Attachment 4 - BCWS Plan by WBS
- Attachment 5 - Commitment Incurrence
- Attachment 6 - WBS
- Attachment 7 - Schedule
- Attachment 8 - Milestone Log

Overview of
Upcoming Deliverables/Documents
Paducah EM Program

For the Site-Specific Advisory Board Budget Committee
February 20, 1997

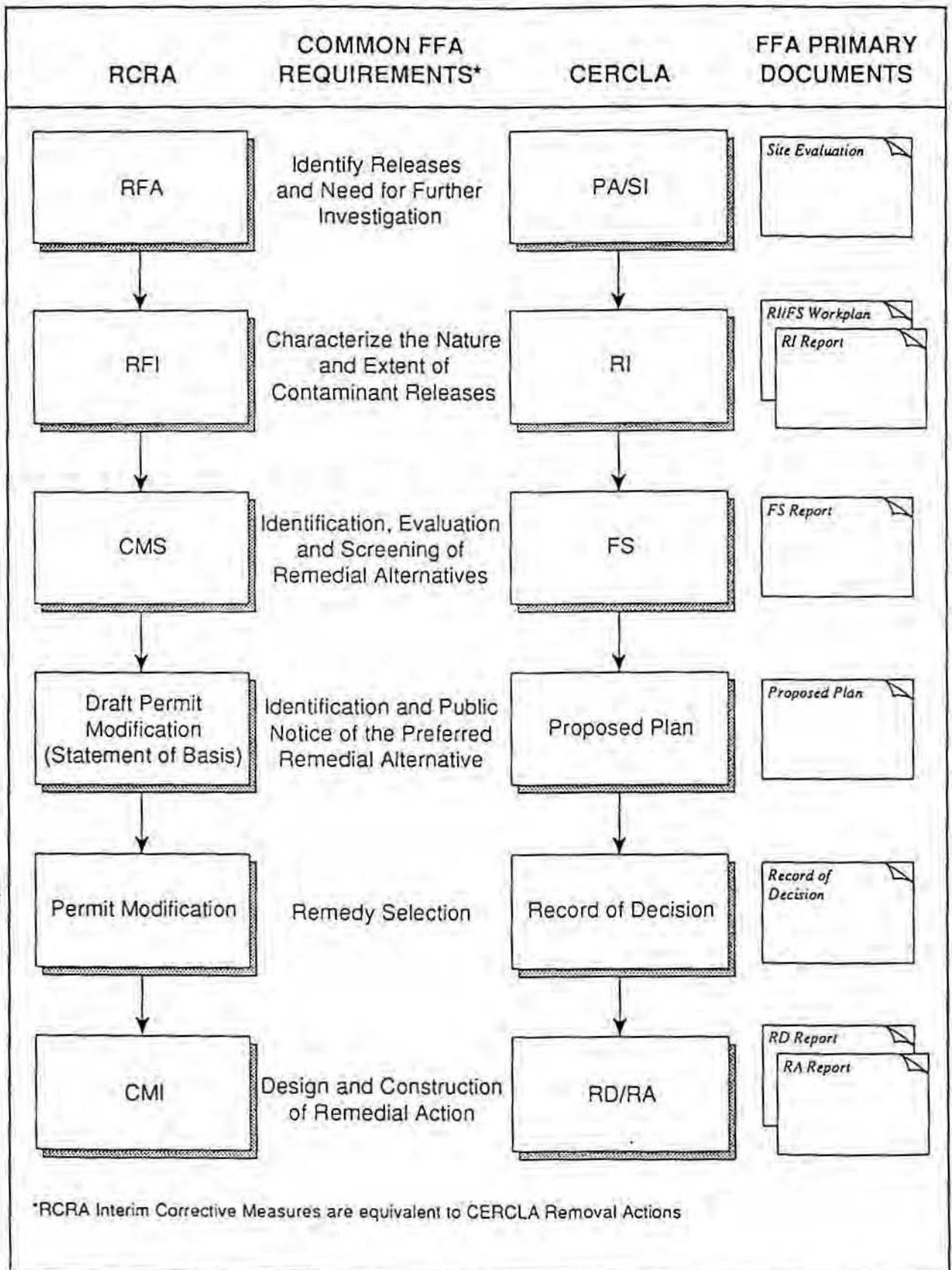


Figure 3.1. Comparison of the RCRA and CERCLA processes.

CERCLA Process and Documentation

Site Evaluation Work Plan

Plan for conducting a Site Evaluation. Site Evaluations are conducted as sites identified as potentially low risk, for which No Further Action may be appropriate. Data is collected to determine if a release has occurred from these units.

Site Evaluation Report

Documents results of RI/FS Process. If no release has occurred, then No Further Action determination will be pursued, and process ends here. If a release has occurred, then data collected is used to focus the RI/FS process.

Remedial Investigation/Feasibility Study Work Plan

Identifies plans to collect data and evaluate alternatives to remediate SWMUs located in this WAG. Generally includes sampling and analysis plans, schedule for performing sampling and report development.

Remedial Investigation Report

Documents results of remedial investigation. Information presented includes sampling results, analytical data, data assessment results, data presentation, interpretation of analytical data, evaluation of contaminant migration, and a risk assessment.

Feasibility Study Report

Evaluates potential alternatives for remediation by comparison against CERCLA Criteria.

Proposed Plan

Presents DOE's recommended remedy to the public as a part of public participation process. Generally presents overview of unit, risks, and an overview of alternatives evaluated in the FS, along with selected remedy.

Record of Decision (ROD)

Legally binding documentation of the selected action. This document also responds to public comments received on the Proposed Plan.

Paducah EM Programmatic Documents

General*	Federal Facilities Agreement	Under Negotiation, final Schedule not Defined	Tri-party (DOE, EPA, and Kentucky) that defines cleanup program for the site. Identifies method for coordination of RCRA and CERCLA requirements to accomplish remediation of the site, and current year commitments. Required as a result of PGDP being listed on the National Priorities List.
General*	Site Management Plan	To be finalized with the FFA	Appendix to SMP that defines specific goals, strategies, and deliverables for the site cleanup program. The SMP is updated yearly, and includes enforceable deliverables for the next two years and outyear commitments.
General*	D1 Community Relations Master Plan	*60 Days after FFA signed	Identifies overall plan for community involvement in the Paducah ER Program, and is a requirement of the FFA.
General	D2 Data Management Plan	*90 Days after FFA signed	Identifies plan for management of data collected as a part of ER Program, and is a requirement of FFA.
General*	Paducah Site Treatment Plan	NA	Paducah Plan to characterize, treat, and dispose of mixed wastes.
General*	Integrated Waste Treatment Plan <i>mgmt.</i>	12/9/96 (Revised Annually)	Describes past, present, and future Paducah Waste Management Activities. Serves as a planning document for the WM Program.

Paducah EM Project Specific Documents
FY-1997

Project	Document	Date Due	Description/Comments
Vortec Demonstration	Vortec Operating and Maintenance Manual	Under Development Schedule not Defined	Procedures for the operation and performance of maintenance on the Vortec facility. Will be completed and prior to initiation of demonstration.
WAG 6*	D2 Remedial Investigation Work Plan	1/30/97	Defines requirements for investigation of WAG 6, the C-400 Cleaning and Decontamination Building area. This area is expected to be one of the major sources of TCE, and potentially Tc-99, contamination at the Plant. As such, investigation and remediation of this site is of high priority for the Paducah Program.
WAG 22, SWMUs 2	Preliminary Characterization Summary Report	2/19/97	Documents results of characterization activities performed at SWMU 2, the C-749 Uranium Burial Ground
WAG 22, SWMUs 2*	D1 Feasibility Study	8/29/97	Evaluates potential alternatives for remediation at SWMU 2. SWMU 2 is the Uranium Burial Ground which contains pyrophoric (spontaneously combustible in air) uranium. One of the potential alternatives for remediation of this site is excavation and storage of the material. Costs for such a remedy may run up into the hundreds of millions of dollars.

WAG 22, SWMU 7 and 30	D1 Remedial Investigation Report	7/28/97	Documents results of investigation at SWMU 7 and 30, C-747-A Burial Ground and Burn Area. Will include a data presentation, evaluation of contaminant migration, and a risk assessment.
WAG 1 and 7	D1 Record of Decision	2/07/97	Addresses public comments on the Proposed Plan; serves to document selected action.
WAG 1 and 7	Signed Record of Decision	4/21/97	Incorporates any regulatory agency comments on D1 Record of Decision and includes DOE signature. Upon EPA signature, becomes final. Kentucky generally does not sign RODs, but concurs.
WAG 17, Concrete Rubble Piles	D2 Remedial Investigation Report	4/4/97	Addresses regulatory agency comments on D1 Remedial Investigation Report.
WAG 17, Concrete Rubble Piles	D1 Proposed Plan	4/4/97	Presents DOE's recommended remedy for WAG 17 to the public as a part of public participation process.
WAG 17, Concrete Rubble Piles	D1 Record of Decision	8/17/97	Addresses public comments on the Proposed Plan; serves to document selected action.
WAG 17, Concrete Rubble Piles	Signed Record of Decision	9/21/97	Incorporates any regulatory agency comments on D1 Record of Decision and includes DOE signature. Upon EPA signature, becomes final. Kentucky generally does not sign RODs, but concurs.

LASAGNA	D1 Proposed Plan	4/18/97	Presents DOE's recommended remedy for SWMU 91, the Cylinder Drop Test Area, to the public as a part of public participation process.
LASAGNA	D1 Record of Decision	9/1/97	Serves to document selected action. This document also responds to public comments received on the Proposed Plan
WAG 27, TCE Sources (West Side of Plant)	D2 Remedial Investigation and Feasibility Study Work Plan		Addresses regulatory agency comments on D1 RI/FS Work Plan, which was submitted to the regulatory agencies on 11/15/97.
WAG 28, TCE Sources (East Side of Plant)	D1 Remedial Investigation and Feasibility Study Work Plan	5/15/97	Identifies plans to collect data and evaluate alternatives to remediate SWMUs located in this WAG.
WAG 3 Burial Grounds	RI/FS Scoping Document	3/30/97	Serves as a source of information
WAG 15 Site Evaluation	RCRA Permit Modification	3/30/97	Requests modification of the Facility Hazardous Waste Management Permit to identify sites in WAG 15 as requiring No Further Action, based upon results of Site Evaluation performed in 1996. Site Evaluation Report submitted to regulatory agencies in December 1996.
Background Soils Report	D1 Background Soils Report	4/15/97	Provides a report that will establish background concentrations of specific radionuclides and metals in soils near PGDP.

WAG 9 and WAG 11	Site Evaluation Work Plan	2/28/97	Plan for conducting a Site Evaluation for WAG 9 and 11. These are identified as potentially low-risk sites, for which no further action may be appropriate. Site Evaluation will collect data to determine if release has occurred from these units. If no release has occurred, then No Further Action determination will be pursued.
WAG 9 and 11*	Site Evaluation Report	9/26/97	Documents investigation activities conducted as a part of the Site Evaluation. If no release is identified, this report will serve as a basis for a No Further Action Permit Modification for units within these WAGs. Obtaining No Further Actions for sites which pose no risk a key part of the 10-Year Plan cleanup strategy for the Paducah Site.
Northeast Plume	Post-Construction Report	3/16/97	Documents construction activities for NE Plume Containment System.

ER Program Project-Specific Documents
Fiscal Year 1998

Project	Document	Date Due	Description/Comments
Northwest Plume Interim Remedial Action	Annual Report	12/1/97	Second annual report on operations and effectiveness of NW Plume Interim Remedial Action. Data will be utilized in making decision for long-term operations of the NW Plume Pilot Pump and Treat Facility.
Northwest Plume Interim Remedial Action	Record of Decision Modification	6/30/98	Will serve as required 5-year Record of Decision Review for this project, and will address continued operation of NW Plume Pilot Pump and Treat Facility.
WAG 22, SWMU 2 and 3	D1 Proposed Plan	11/25/97	Presents DOE's recommended remedy for SWMU 2 and 3 of WAG 22 to the public as a part of public participation process.
WAG 22, SWMU 2 and 3	D1 Record of Decision	5/21/98	Serves to document selected action. This document also responds to public comments received on the Proposed Plan
WAG 22, SWMU 2 and 3	Record of Decision Signature	7/17/98	Incorporates any regulatory agency comments on D1 Record of Decision and includes DOE signature. Upon EPA signature, becomes final. Kentucky generally does not sign RODs, but concurs.
WAG 1 and 7	D1 Remedial Design Report	12/7/97	Presents design of planned remedial action for this WAG.

WAG 22, SWMU 7 and 30	D1 Feasibility Study Report	1/10/98	Evaluates potential alternatives for remediation at SWMUs 7 and 30.
WAG 22, SWMU 7 and 30	D1 Proposed Plan	4/1/98	Presents DOE's recommended remedy for SWMU 7 and 30 of WAG 22, to the public as a part of public participation process.
WAG 22, SWMU 7 and 30	D1 Record of Decision	6/1/98	Serves to document selected action. This document also responds to public comments received on the Proposed Plan
WAG 6	D1 RI Report	7/16/98	Documents results of investigation at WAG 6, the C-400 Cleaning Building area. Will include a data presentation, evaluation of contaminant migration, and a risk assessment.
LASAGNA	ROD Signature	10/8/97	Incorporates any regulatory agency comments on D1 Record of Decision and includes DOE signature. Upon EPA signature, becomes final. Kentucky generally does not sign RODs, but concurs.
WAG 27	RI Report	9/28/97	Documents results of investigation at WAG 27, TCE Sources on the west side of the plant Will include a data presentation, evaluation of contaminant migration, and a risk assessment.
WAG 3	DI RI/FS Work Plan	11/15/97	Identifies plans to collect data and evaluate alternatives to remediate SWMUs located in this WAG.

WAG 11	DI RI/FS Work Plan	5/15/97	Identifies plans to collect data and evaluate alternatives to remediate SWMUs located in this WAG.
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IV-2
APPENDIX IV

WAG 1				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
100	Fire Training Area	-	Common Geographic Location	<ul style="list-style-type: none"> - C-615 Sewage Plant (SWMU 38) removed per operating unit status. - KOW sites moved to WAG 10. - Moved SWMUs 94 & 95 to WAG 10.
136	C-740 TCE Spill Site	-		
WAG 2				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
86	C-631 Pumphouse and Cooling Tower	10	Operating Units Common Operational Processes Common Remedial Technologies Common Contaminant Types	<ul style="list-style-type: none"> - SWMU 4 moved to WAG 3 - WAG created for cooling towers. - Schedule for RI/FS after operations cease.
87	C-633 Pumphouse and Cooling Tower	5		
88	C-635 Pumphouse and Cooling Tower	11		
89	C-637 Pumphouse and Cooling Tower	8		
WAG 3				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
4	C-747 Contaminated Burial Ground	2	Common Remedial Technologies Common Geographic Location Common Release Mechanisms	<ul style="list-style-type: none"> - D2 RFI WP for WAGs 2, 3, & 14 reduced in scope. - D2 RFI WP date will be proposed in SMP.
5	C-746-F Classified Burial Ground	-		
6	C-747 Burial Area	-		
WAG 4				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
72	C-200 Underground Gasoline Tank	-	Common Contaminant Types Common Remedial Technologies Common Release Mechanisms	<ul style="list-style-type: none"> - Being addressed under the UST program.
73	C-710 Underground Gasoline Tank	-		
142	C-750-A 10,000 Gal. Gasoline UST	-		
143	C-750-B 10,000 Gal. Diesel UST	-		

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WAG 5				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
31	C-720 Compressor Pit Water Storage Tank	9	Common Release Mechanisms	<ul style="list-style-type: none"> - Moved SWMU 87 to WAG 2. - Moved SWMU 99 to WAG 6. - Moved SWMUs 82 & 83 to WAG 8. - Moved SWMU 16 to WAG 14. - Moved SWMU 75 to WAG 19.
76	C-632-B Sulfuric Acid Storage Tank	-		
77	C-634-B Sulfuric Acid Storage Tank	10		
169	C-410-E HF Vent Surge Protection Tank	16		
WAG 6				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
11	C-400 Trichloroethylene Leak Site	-	Suspected Sources of <u>Off-site</u> Contamination Common Remedial Technologies Common Contaminant Types	<ul style="list-style-type: none"> - DNAPL sites - Scope will include expanded PA/SI for the entire C-400 area. - Moved SWMU 47 to WAG 5. - Moved SWMU 78 to WAG 16. - Moved SWMU 98 to D&D WAG.
26	C-400 to C-404 Underground Transfer Line	14		
40	C-403 Neutralization Tank	-		
47	C-400 Technetium Storage Tank Area	-		
203	C-400 Sump	-		
WAG 7				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
8	C-746-K Inactive Sanitary Landfill	-	Suspected Sources of <u>Off-site</u> Contamination Common Geographic Location	<ul style="list-style-type: none"> - KOW site (SWMU 157) moved to WAG 15.
130	C-611 550-Gal. Gasoline UST	-		
131	C-611 50-Gal. Gasoline UST	-		
132	C-611 2000-Gal. Oil UST	-		
133	C-611 Unknown Size, Grouted UST	-		
134	C-611 1000-Gal. Diesel/Gasoline Tank	-		

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WAG 8				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
82	C-531 Electric Switchyard	5	Operating Units Common Contaminant Types Common Remedial Technologies	<ul style="list-style-type: none"> - Schedule for RI/FS after operations cease. - Moved SWMU 89 to WAG 2. - Moved SWMU 71 to D&D WAG
83	C-533 Electric Switchyard	5		
84	C-535 Electrical Switchyard	-		
85	C-537 Electrical Switchyard	-		
WAG 9				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
27	C-722 Acid Neutralization Tank	-	Common Remedial Technologies Common Geographic Location Common Release Mechanisms	<ul style="list-style-type: none"> - Moved SWMU 31 to WAG 5. - Moved SWMU 97 to WAG 15.
28	C-712 Acid Neutralization Lagoon	15		
165	C-616-L Pipeline and Vault Soil Contamination	-		
170	C-729 Acetylene Building Drain Pits	-		
WAG 10				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
94	KOW Trickling Filter and Leach Field	1	Common Geographic Location Common Ownership	<ul style="list-style-type: none"> - Transfer to DOD - Moved SWMU 86 to WAG 2. - Moved SWMU 77 to WAG 5. - Moved SWMU 20 to WAG 11. - Moved SWMU 92 to WAG 19. - Moved SWMU 195 to WAG 20.
95	KOW Burn Area	1		
157	KOW Toluene Spill Area	7		
182	Western Portion of Yellow Water Line	-		

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WAG 11				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
19	C-410-B HF Neutralization Lagoon	-	Common Contaminant Types Common Remedial Technologies Common Geographic Location Common Operational Processes	- Moved SWMU 88 to WAG 2. - Moved SWMU 145 to WAG 21.
20	C-410-E Emergency Holding Pond	10		
41	C-410-C Neutralization Tank	-		
WAG 12				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
17	C-616-E Sludge Lagoon	-	Operating Units Common Contaminant Types Common Geographic Location Common Remedial Technologies	- Schedule for RI/FS when operations cease.
18	C-616-F Full Flow Lagoon	-		
42	C-616 Chromate Reduction Facility	-		
WAG 13				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
21	C-611-W Sludge Lagoon	-	Operating Units Common Contaminant Types Common Remedial Technologies Common Geographic Location	- Schedule for RI/FS when operations cease. - Moved SWMU 138 to WAG 21.
22	C-611-Y Overflow Lagoon	-		
23	C-611-V Lagoon	-		
185	C-611-4 Horseshoe Lagoon	-		
WAG 14				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
13	C-746-P Clean Scrapyard	24	Operating Units Common Contaminant Types Common Remedial Technologies	- Schedule of RI/FS when operations cease. - Moved SWMU 26 to WAG 6.
16	C-746-D Classified Scrapyard	5		

WAG 15				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
24	C-750-D UST	9	Common Contaminant Types Common Remedial Technologies Common Release Mechanisms	- Moved SWMU 193 to WAG 28. - Moved SWMU 28 to WAG 9. - Moved SWMU 137 to WAG 16.
97	C-601 Diesel Spill	9		
139	C-746-A1 UST	15		
140	C-746-A2 UST	15		
WAG 16				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
78	C-420 PCB Spill Site	6	Common Contaminant Types Common Remedial Technologies Common Media Type Common Migration Pathway	- Split off from WAG 19. - Low-level PCB sites. - Runoff migrates to Big Bayou Creek. - Moved SWMU 169 to WAG 5.
137	C-746-A Inactive PCB Area	15		
153	C-331 PCB Soil Contamination (West)	19		
155	C-333 PCB Soil Contamination (West)	19		
156	C-310 PCB Soil Contamination (West Side)	19		
161	C-743-T01 Trailer Site (Soil Backfill)	19		
164	KPDES Outfall Ditch 017 (Soil Backfill)	19		
*WAG 17				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
93 103-129 146-152 175 184 197	Concrete Rubble Pile(s)	-	Suspected Sources of <u>Off-site</u> Contamination Common Contaminant Types Common Remedial Technologies	

* Only the concrete rubble piles will be investigated for AOCs 93, 105, 106, 107, 129, and 175. Soils and sediments associated with these particular AOCs will be investigated with WAGs 18 and 25.

WAG 18				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
62	C-375-S6 Southwest Ditch (KPDES 009)	-	Operating Units Common Contaminant Types Common Remedial Technologies Hydraulically Connected Areas Common Migration Pathway	- Integrator Unit - Includes KPDES ditches that discharge to Big Bayou Creek. - Moved SWMUs 58, 59,60,61,66,67,& 171 to WAG 25.
63	C-375-W7 Oil Skimmer Ditch (KPDES 008)	-		
65	Big Bayou Creek	25		
68	C-375-W8 Effluent Ditch (KPDES 015)	-		
69	C-375-W9 Effluent Ditch (KPDES 001)	-		
199	Big Bayou Creek Monitoring Station	-		
WAG 19				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
75	C-633 PCB Spill Site	5	Common Contaminant Types Common Remedial Technologies	- Low-level PCB sites. - Runoff migrates to Big Bayou Creek. - Moved SWMUs 153,155,156,161, & 164 to WAG 16.
92	Fill area for dirt from the C-420 PCB Spill Site	10		
135	C-333 PCB Soil Contamination	-		
154	C-331 PCB Soil Contamination (Southeast)	-		
160	C-745 Cylinder Yard Spoils (PCB Soils)	-		
162	C-617-A Sanitary Water Line (Soil Backfill)	-		
163	C-304 Bldg/HVAC Piping System (Soil Backfill)	-		
WAG 20				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
166	C-100 Trailer Complex Soil Contamination	-	Common Contaminant Types Common Remedial Technologies	- Reserved for newly identified residual level RAD sites.
172	C-726 Sandblasting Facility	20		
195	Curlee Road Contaminated Soil Mounds	10		
200	Soil Contamination South of TSCA Waste Storage Facility	-		

WAG 21				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
138	C-100 Southside Berm	13	Common Contaminant Types Common Remedial Technologies	- Reserved for heavy metal sites.
145	Residential/Inert Landfill Borrow Area	11		
158	Chilled-Water System Leak Site	-		
176	C-331 RCW Leak Northwest Side	-		
177	C-331 Leak East Side	-		
180	Outdoor Firing Range (WKWMA)	-		
181	Outdoor Firing Range (PGDP)	-		
WAG 22				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
2	C-749 Uranium Burial Ground	-	Suspected Sources of <u>Off-site</u> Contamination Common Contaminant Types Common Remedial Technologies Common Geographic Location Common Release Mechanisms	
3	C-404 Low-level Radioactive Waste Burial Ground	-		
7	C-747-A Burial Ground	-		
30	C-747-A Burn Area	-		
WAG 23				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
**1	C-747-C Oil Land Farm	-	Suspected Sources of <u>Off-site</u> Contamination Common Contaminant Types Common Remedial Technologies	- Moved SWMU 1 to WAG 27 also.
32	C-728 Clean Waste Oil Tank	-		
33	C-728 Motor Cleaning Facility	-		
56	C-540-A PCB Staging Area	-		
57	C-541-A PCB Waste Staging Area	-		
74	C-340 PCB Transformer Spill Site	-		
79	C-611 PCB Spill Site	-		
80	C-540-A PCB Spill Site	-		
81	C-541 PCB Spill Site	-		

**Investigation of SWMU 1 under WAG 23 will include PCB soils only.

WAG 24				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
12	C-747-A UF ₄ Drum Yard	-	Suspected Sources of <u>Off-Site</u> Contamination Common Contaminant Types Common Remedial Technologies Common Geographic Location Common Migration Pathways	<ul style="list-style-type: none"> - Closed scrapyards. - SWMU 12 should be removed from scope of WAG 22 SAP. - Moved SWMU 13 to WAG 14.
14	C-746-E Contaminated Scrapyard	-		
15	C-746-C Scrapyard	-		
WAG 25				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
58	N-S Diversion Ditch (Outside)	18	Operating Units Common Contaminant Types Common Remedial Technologies Hydraulically Connected Areas Common Migration Pathway	<ul style="list-style-type: none"> - Integrator Unit - Includes KPDES ditches that discharge to Little Bayou Creek. - Moved SWMU 65 to WAG 18.
59	N-S Diversion Ditch (Inside)	18		
60	C-375-E2 Effluent Ditch (KPDES 002)	18		
61	C-375-E5 Effluent Ditch (KPDES 013)	18		
64	Little Bayou Creek	-		
66	C-375-E3 Effluent Ditch (KPDES 010)	18		
67	C-375-4 Effluent Ditch (C-340 Ditch)	18		
168	KPDES Outfall Ditch 012	-		
171	C-617-A Lagoons	18		

***Investigation of SWMU 1 under WAG 27 will include investigation of all contaminated media except PCB-contaminated soils.

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WAG 26				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
201	Northwest Plume	-	Common Contaminant Types Common Remedial Technologies Common Media Type Hydraulically Connected	- Integrator Unit
202	Northeast Plume	-		
WAG 27				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
***1	C-747-C Oil Landfarm	23	Suspected sources of NW Plume Common Contaminant Types Common Remedial Technologies	- DNAPL sites - Scope will include expanded PA/SI on C-720 area.
91	UF ₆ Cylinder Drop Test Area	6		
196	C-746-A Septic System	15		
WAG 28				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
99	C-745 Kellogg Building Site	5	Suspected Sources of NE Plume Common Contaminant Types Common Remedial Technologies	- DNAPL sites - Scope will include expanded PA/SI on SWMUs 82, 83, 84, 85, and C-340 area.
183	McGraw UST			
193	McGraw Southside Cylinder Yards	15		
194	McGraw Construction Facility (South Side)	15		
204	Dykes Road Historical Staging Area			
WAG 29 (Postconstruction)				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
38	C-615 Sewage Treatment Plant			
102	Plant Storm Sewer			
159	C-746-H3 Storage Pad			
178	C-724-A Paint Spray Booth			
179	Plant Sewer System			

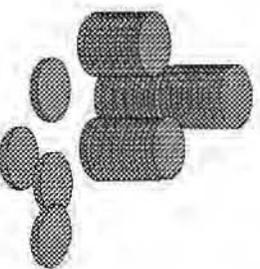
IV-11

WAG 30 (D&D)				
SWMU	Description	Previous WAG	Grouping Criteria	Comments
55	C-405 Incinerator	11		
70	C-333-A Vaporizer	16		
71	C-337-A Vaporizer	8		
98	C-400 Basement Sump	6		
101	C-340 Hydraulic System	5		
167	C-720 Whiteroom Sump	9		
192	C-710 Acid Interceptor Pit	15		
198	C-410-D Area Soil Contamination	20		

Budget Process

Paducah

February 20, 1997

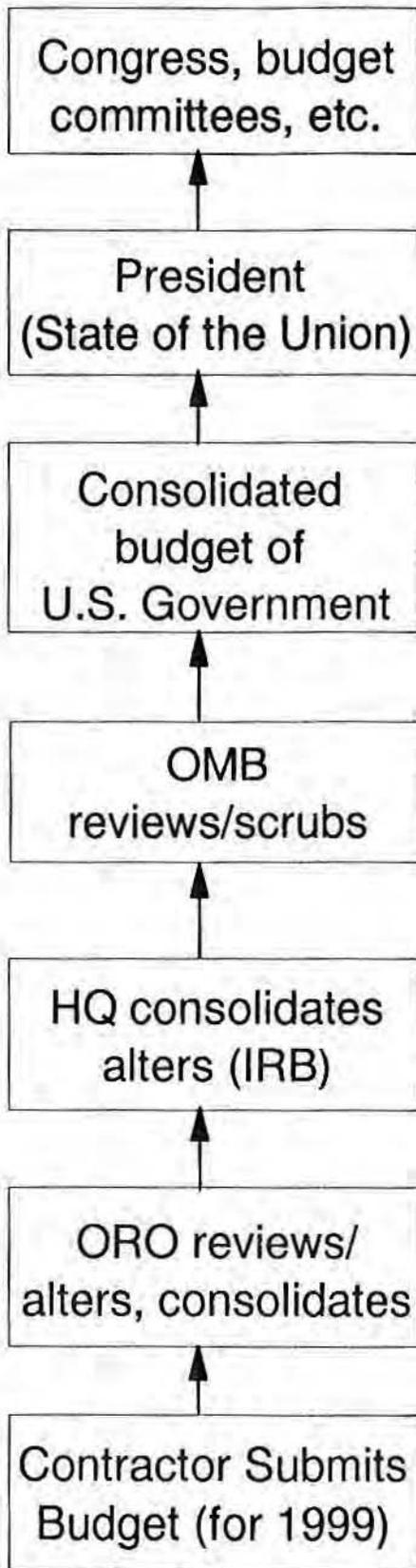


General

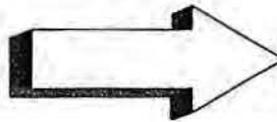
- Federal Agencies (i.e., DOE) Fiscal Year goes from October 1st -- September 29th
- Budget runs in a 3 year cycle
 - Current Year
 - Budget Year
 - Planning Year

Budget Process

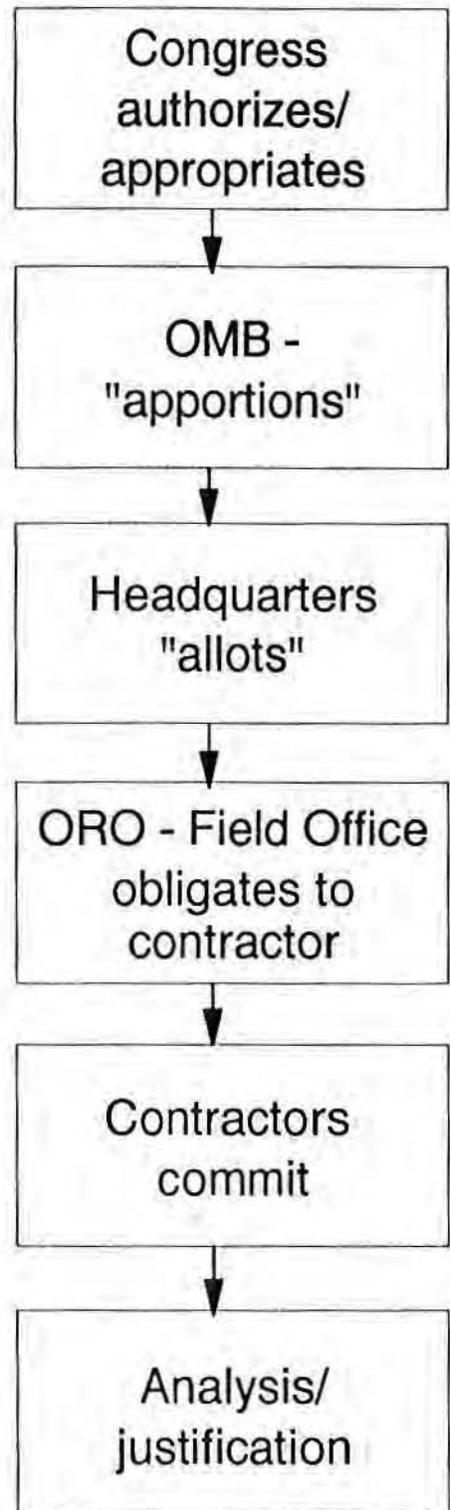
Budget Formulation



1999



Budget Execution



1997

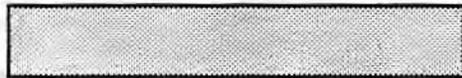
CONGRESSIONAL BUDGET PROCESS

Budget Year

Budget Year +1

Budget Year +2

O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S



DOE Prepares FY +2 Budget Request



DOE Budget Request Submitted to OMB



OMB Prepares President's Budget Request



Presidential Budget Request Submitted to Congress



Congress Finalizes Budget



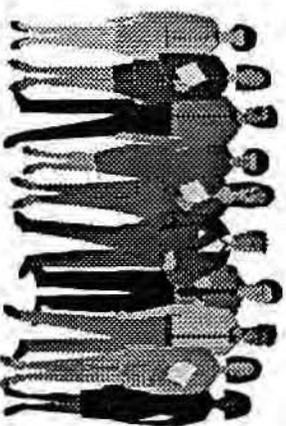
Budget Allocated to DOE

National Dialogue Overview

Presentation to SSAB Chairs Meeting

St. Louis, Missouri

January 23, 1997



What is the National Dialogue

- *An effort to provide comprehensive background information to facilitate stakeholder understanding and involvement in current and future DOE decision making processes.*
- *It is not a separate decision making process.*



DOE Goals for the National Dialogue

- *Provide a comprehensive overview of DOE's nuclear waste and materials decisions.*
- *Provide an opportunity for intersite stakeholder discussions.*
- *Develop a credible data base that defines where waste and materials are now, and highlights possible options for long term storage and disposition.*

National Dialogue Goals

(Cont'd)

- *Potentially develop consensus values and principles.*
- *Potentially apply these values and principles to some near term waste and materials decisions.*
- *Perhaps, develop new models for decision making for DOE consideration*



Proposed Scope of National Dialogue

- *Key programmatic nuclear material and waste decisions.*
- *Focus on inter-site transfers of nuclear materials and waste to accommodate treatment, storage, disposal, or disposition.*



Proposed Scope of National Dialogue (Cont'd.)

DOE Nuclear Material and Waste

- *Highly Enriched Uranium*
- *Spent Fuel*
- *Depleted Uranium Hexafluoride*
- *High Level Waste*
- *Transuranic Waste*
- *Low Level Waste*
- *Plutonium*
- *Mixed Waste*

Background

- *Grassroots demand, largely from WA. State.*
- *Discussed at Pu Roundtable (Oct. 95).*
- *Consulted with SSABs Chairs, EMAB, and NGA.*
- *Established Cooperative Agreement with League of Women Voters (May, 96).*

Background (Cont'd)

- *Formed Internal Senior Advisory Board and Implementation Team.*
- *Formed External Planning Group (July, 96).*
- *External Planning Group Mtg (Nov. & Dec. 1996 and January 1997).*



Role of League of Women Voters

- *Working closely with DOE, design, implement, and evaluate a series of workshops on nuclear waste and materials decisions. Will emphasize neutral forums and inclusiveness.*
- *Establish planning committee to provide input into the Dialogue design.*



External Planning Committee Members

- *SSABs*
- *EMAB*
- *NRDC*
- *Nuclear Energy Institute*
- *Energy Communities Alliance*
- *NCSL*
- *Native Americans*
- *Military Production Network*
- *United Negro College Fund Environmental
Committee*
- *Natl Governors Association*



DOE Proposed Path Forward

- *Phase I: Ongoing Dialogues with SSABs, NGA, EMAB , Tribes and other stakeholder groups.*
- *Phase II: Field Education/Discussion Workshops to provide big picture. (Feb-June)*
- *Phase III: Work to develop values and principles for decision making. (April 97-December 97+)*
- *Phase II approved, phase III waiting approval.*

Next Steps for Phase II

- *Local or stakeholder specific organizations offer to sponsor field workshop (e.g. UNLV, National Tribal group).*
- *League of Women Voters Grants available to supplement local efforts to ensure inter-site component.*
- *DOE Headquarters provides national perspective.*



First Steps for Phase III

- *“Concept” has been developed with input from planning group and other stakeholders.*
 - *educate and inform, develop values and principles, explore equity, commit to DOE feedback.*
- *Jill Lytle presents proposal to Secretary Pena (end of February).*



Steps for Designing Phase III

- *Key issues (e.g. steering committee).*
- *Hire process design experts.*
- *Receive draft design (April 97).*
- *Review and finalize design (May 97).*
- *Implement design...*
- *Produce draft national values and principles (Dec 97).*
- *Anticipate continuation of efforts through 98.*

Suggested Roles for SSABs

- *Phase I: provided input into concept.*
- *Phase II: host workshops, design and participate in workshops.*
- *Phase III: provide input into design and participate in the execution as appropriate.*
- *Serve on steering committee*