PADUCAH GASEOUS DIFFUSION PLANT SITE SPECIFIC ADVISORY BOARD

Chartered under the Federal Advisory Committee Act

CO-CHAIRS
Mark Donham
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Vicki Jones
1131 Hamburg Road
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BOARD MEMBERS
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Ray McLennan
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Connie J. Sykes
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Bill Tanner
6072 Rosebud Road
Metropolis, Illinois 62960

Rev. Gregory Waldrop
701 Broadway
Paducah, Kentucky 42001

Informal Meeting Minutes

August 21, 1997

The August 21, 1997, Site Specific Advisory Board (SSAB) meeting took place at Heath High School at 6:00 p.m.

The following board members were present: Nola Courtney, Mark Donham, Vicki Jones, Ronald Lamb, Bill Tanner and Gregory Waldrop. Ex Officio members present were: Carl Froede. Facilitator Present: Steve Kay. Also present were: Todd Adams, Carlos Alvarado, Jeannie Brandstetter, Bryan Clayton, Jeff Douthitt, Teresa Fields, Steve Hampson, Shelley Hawkins, Dennis Hill, Jimmy Massey, Wilson McGinn, John Morgan, Eric Morti, Teresa Perry, Myrna Redfield, Craig Rhodes and Jack Stickney.

The agenda was modified to allow the people from Oak Ridge giving a presentation on Budget Prioritization to give their presentation first.

The minutes from the July 17, 1997, meeting were not approved due to the lack of a quorum.

The first item on the agenda was the Environmental Management and Enrichment Facilities (EMEF) updates. There were no comments or questions.

The next thing on the agenda was a presentation on Budget Prioritization by Teresa Perry from Department of Energy (DOE) Oak Ridge Operations (ORO) and Wilson McGinn, LMER OR. Handouts were presented to everyone. Questions were asked about public input to the scoring. Teresa stated that it was pretty much up to the board. The OR SSAB set up a prioritization committee. It was suggested that someone from Paducah get in touch with the OR SSAB to discuss their handling of the prioritization and budget. Greg Waldrop asked about the detailed pages that explain each ranking. Myrna Redfield said she would provide these to the board. Mark Donham asked for a breakdown on the waste at the plant. Jimmy Massey stated that this information is covered in the Site Treatment Plan. It was suggested that a special meeting be held to discuss commenting on the 2006 Accelerated Cleanup Discussion Draft and the disposition of the $30,000 SSAB fiscal year (FY) 1997 funds. This meeting will be held on Thursday September 4 at 6:00 p.m. in the DOE Site Office.

Shelley Hawkins presented everyone with three handouts on Public Participation in the Fiscal Year 1998 Environmental Management Budget and the Paducah Gaseous Diffusion Plant (PGDP) Document Management System Administrative Record Index on Waste Area Grouping (WAG) 6 and WAG 22 Solid Waste Management Units (SWMUs) 7 and 30.

The next item for discussion was the Overview of the WAG 6 Work Plan. A handout was given. Bryan Clayton and Eric Morti discussed the latest developments on the WAG 6 project. Eric stated that it is still very early in the process.

The WAG 22 Remedial Investigation (RI) Report - Summary overview of SWMUs 7 and 30 was discussed by Carlos Alvarado. He stated that due to the size of the report a summary was sent out. He also stated that anyone interested in receiving the entire report could receive one by asking. Jack Stickney asked if there were any elevated polychlorinated biphenyl (PCB) levels found. Bob Pratt stated that the subsurface soil was generally clean except right up against the pits. He stated that the main concern is the surface. Elevated levels of uranium were found. It is possible that it is coming from Drum Mountain, which is on this site. Mark Donham asked if there were records of what was burned at C-747. Jimmy Massey stated that there are sketchy records at best. Mark asked about the beryllium that was found. He stated that it was the first time he had seen it and wanted to know if it was significant. Jimmy Massey stated that he did not know the source. It was stated that it had been detected before in WAGs 1&7.

The next item on the agenda was the Community Relations Plan. The deadline for public comment is September 26. It will be on the agenda for next month.

An update on Vortec was the next item on the agenda. Carlos stated that the litigation had been settled. DOE will do an Environmental Assessment (EA). There will be public participation on the EA. The 17 largest pieces of ordered pieces of equipment can be placed on the pad but not hooked together. Argonne National Laboratories is writing the EA.

The next item on the agenda was the letter to Representative Whitfield. Vicki Jones passed out copies of the draft letter for comment. It was suggested that the SSAB try to get someone to come to either the October or November meeting. The Internet address for the Energy and Water Appropriations Bill is http://www.thomas.loc.gov/cp105/cp105query.html. The bill number is 105-190.

Membership status was the next item for discussion. At the current time Nola Courtney had only received 3 of the 4 pending members information. If was decided to wait one week to get the last person's information, then Carlos would forward them on.

The next item on the agenda was the National Dialogue Workshop. The information was to be faxed to the contact by Friday August 22, 1997. Vicki Jones, Nola Courtney and Mark Donham were planning on attending. There is money in the budget to pay for the trip. On Saturday of the Workshop there will be a panel discussion on SSABs. They want to have at least one person present from every SSAB. It was suggested that the co-chairs consult with the rest of the people who are interested in going and decide between them who would participate on the panel.

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The next meeting will be held on September 18, 1997, at the Heath High School at 6:00 p.m. The meeting was adjourned.

Tentative Agenda for the September 18, 1997, meeting:

Minutes
Information (Handouts)
EMEF Project Updates
Review of the Community Relations Plan
Review of the SSAB Draft Work Plan
An update on the new members
Administrative Plans for the board

Action Items

Myrna Redfield will provide detailed pages that explain each ranking on budget prioritization

MEMORANDUM
SITE SPECIFIC ADVISORY BOARD

TO: SSAB Members
Ex Officio Members

FROM: Mark Donham
Vicki Jones

DATE: August 8, 1997

SUBJECT: **MEETING REMINDER**

The next SSAB meeting will be August 21, 1997, at 6:00 p.m. in the Heath High School. The following is the tentative agenda and action items:

Tentative Agenda

Minutes
Information (Handouts)
EMEF Project Updates
Overview of the WAG 6 Work Plan
WAG 22 RI Report - Summary overview of SWMUs 7 and 30
A presentation on Budget Prioritization
Review of the Accelerated Cleanup Plan
Review of the Community Relations Plan
Update on Vortec
Review of the SSAB Draft Work Plan

Action Items

Jimmy Massey will give the board a number on the amount of PCBs used in the plant in the past.
Jimmy Massey will provide the board with the location of the Northeast Plume background wells.
Jimmy Massey will provide the board with numbers on the amount of water treated each day from the Northeast Plume.
Vicki Jones will contact someone from Whitfields office to come to talk to the board in January.
Jeannie Brandstetter will supply a list of meeting places to the SSAB.

MEMORANDUM
SITE SPECIFIC ADVISORY BOARD

TO: Distribution

FROM: Mark Donham
Vicki Jones

DATE: August 4, 1997

SUBJECT: **AUGUST 21, 1997, INFORMAL MEETING MINUTES**

Attached are the subject informal meeting minutes. The next meeting will be held September 18, 1997, at the Heath High School at 6:00 p.m. Please review and provide comments or changes at the September 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
Ray McLennan
Connie J. Sykes
Bill Tanner
Gregory Waldrop

Ex Officio Distribution List
Wayne Davis
Carl Froede, Jr.
Jimmie C. Hodges
Tuss Taylor
John A. Volpe

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Informal Meeting Minutes

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DRAFT

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PLEASE SIGN IN

Paducah Gaseous Diffusion Plant
Site Specific Advisory Board

NAME	AFFILIATION
Teresa Fields	DOE/EASI
Carlos Alvarado	DOE/PAD
Nola Courtney	SSAB
Jeannie Brandstetter	EnSafe/LMES/Pub Affairs
[illegible]	SSAB
Mark Donhan	SSAB
Vicki Jones	SSAB
Todd Adams	Radiation Control Program, State
JACK STICKNEY	AIP-Ky FFOU
Steve Hampson	UKFFOU/RCP
BRYAN CLAYTON	LMES
Eric E Morti	LMES
Shelley Hawkins	Jacobs
JEFF Douthitt	LMES
Robert Pratt	LMES
Myrna E Redfield	DOE
John Morgan	LMES
TERESA PERRY	DOE/ORO
Wilson McGinn	LMER/Oak Ridge
Steve Kay	RKI

August 21, 1997

PADUCAH GASEOUS DIFFUSION PLANT SITE SPECIFIC ADVISORY BOARD
U.S. DEPARTMENT OF ENERGY
ENVIRONMENTAL MANAGEMENT & ENRICHMENT FACILITIES
PROJECT UPDATE
AUGUST 21, 1997

ENVIRONMENTAL RESTORATION

Northwest Plume Interim Remedial Action Pilot Plant

More than 190 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.

Elevated levels of TCE influent have been detected recently so the project team has reduced pumping rates to stay within the system's operating capacity. In the event that additional pumping from the south extraction wells is necessary to contain the plume, additional treatment capacity or modification of the operational goal will have to be considered.

Northeast Plume Interim Containment System

The Northeast Plume project includes extraction wells in the northeast quadrant of DOE property with an underground pipeline running to the existing PGDP cooling towers as part of the containment system.

Routine operations began in March 1997, with more than 40 million gallons of groundwater treated to date.

Lasagna demonstration

The Lasagna soil remediation technology 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 which are removed by treatment zones containing iron filings.

Phase IIA installation was completed in August 1996 and the process was operational through Feb. 26, 1997, with post-demonstration sampling completed the week of March 3, 1997.

DOE EM-50 granted the Lasagna consortium another extension of the Phase IIA project, allowing it to operate through August 1997. The DOE now plans to propose its preferred remedial measures for SWMU 91, which is advancement into Phase IIB, full-scale remediation.

The public comment period for the Proposed Remedial Action Plan is Jan. 15-March 3, 1998. The following have been tentatively scheduled around those dates:

Jan. 14 — Public notice of availability published in Paducah Sun.

Feb. 12 — Public meeting if requested by Feb. 4

Feb. 10 — Notice of meeting cancellation in Paducah Sun if not requested.

If full-scale remediation is undertaken, the remediation will be funded by EM-40 (the office of the Deputy Assistant Secretary for Environmental Restoration), which funds the remainder of Paducah's Environmental Restoration and Waste Management program.

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 located on the DOE reservation. They are the KOW sewage treatment facility, a known Toluene spill site and a burn area.

The current proposed plan includes continued controlled access, groundwater monitoring and deed restrictions in the preferred alternative. Field work to make riprap repairs at the landfill was completed Aug. 12, 1997.

The current tentative schedules have DOE signing the Record of Decision in late September, with regulator signings projected for mid-October 1997.

Waste Area Group 3/burial grounds
WAG 3 is composed of three burial grounds within the PGDP security fence. The FY 97 scope of this project include the development of a work plan scoping document and work plan. The draft scoping document was submitted to the regulators on March 27, 1997.

A Data Quality Objectives meeting with regulators was held June 17.

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, utilities and building foundations 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 used to prepare a WAG 6 Remedial Investigation Work Plan, which was submitted to the regulatory agencies in August, 1996. The plan focuses on contaminant distribution and movement. 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.

Work during July and August concentrated on clearing drilling sites of buried utilities and installing shallow soil borings. The shallow soil borings were predominantly installed in utility corridors to identify potential migration pathways of contaminants. Limited Regional Gravel Aquifer drilling was performed to assist in delineating the Northeast and Northwest Plume source areas.

Plans for September include continued drilling of the shallow utility corridor borings. Installation of piezometers to facilitate groundwater flow direction will begin, and deeper RGA and McNairy formation drilling will continue.

Waste Area Groups 9 & 11
WAGs 9 & 11 are composed of seven below ground liquid containment vessels.

The scope of work for this project includes development of an SAP, field sampling and development of a Site Evaluation Report. Historical analytical data was transmitted electronically to the Kentucky Division for Waste Management, and the data assessment report completed and delivered to DOE and KDEP.

A new schedule has been established for the Site Evaluation, including field work in August and September 1997.

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 small amount of contaminated material was removed from SWMU 124 in 1996. After further sampling, an additional removal action at this SWMU was planned for April 1997. Following that removal action, the state's Radiation Control Branch verified that no further action was needed at SWMU 124, and has issued a letter to that effect.

A public meeting will be held at 7 p.m. August 26, 1997 at the Lockheed Martin Energy Systems facility in the West Kentucky Technology Park in Kevil, Ky.

Because no requests were made for a public hearing administered by the Kentucky Division of Waste Management, tentatively scheduled to follow the meeting, it has been cancelled.

A 45-day public comment period on the Proposed Plan began July 26, 1997 and will end Sept. 8, 1997. Following the comment period, DOE will prepare a Record of Decision (ROD) for the selected action. The Proposed Remedial Action Plan is available at:

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.

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 was submitted to the regulatory agencies in July 1997, with comments due October 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.

The preferred option in the original Proposed 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 bind any radioactive compounds.

The DOE recently sought public comment on an Engineering Evaluation/Cost Analysis Summary (EE/CA Summary) for the cleanup of PCB sites. The summary describes the Non-Time-Critical Removal Action that DOE is considering — the excavation and temporary on-site storage of the contaminated soil. The focus of this removal action is the elimination of risk to workers from contact with soil. The final disposition of the soil would be determined at a later date, consistent with applicable laws and regulations.

Following incorporation of public comments, DOE will issue an Action Memorandum for the selected action on Sept. 8, 1997.

Waste Area Group 27/Potential trichloroethylene sources
WAG 27 consists of potential or known sources of TCE on the west side of the Paducah Gaseous Diffusion Plant. A second draft Remedial Investigation/Feasibility Study Work Plan is being developed for submittal to regulatory agencies on June 2, 1997.

The Remedial Investigation/Feasibility Study was transmitted to regulators June 30, 1997. Appendix H of this document is the first draft Sampling and Analysis Plan for the C-720 building. The EPA granted its approval of both on July 22. KDWM comments were received Aug. 11, 1997, and a comment resolution meeting will be scheduled as soon as possible.

Vortec Vitrification Project
Litigation involving the Vortec project has been tentatively settled. The DOE will conduct an Environmental Assessment before continuing construction on the project.

Federal Facility Agreement (FFA)
Under CERCLA, a Federal Facility Agreement is required between the state, EPA and DOE to set forth guidelines on how the site cleanup is to be managed.

The FFA has been approved by DOE, state and federal regulators and has been issued for public comment. Responses to those comments are currently under review.

The Community Relations Plan, due 60 days after signature of the FFA, was issued for public comment July 18.

Drum Mountain Scrap Removal
Drum Mountain must be moved from its present location before Oct. 1, 1998 to support Remedial Action activities at the Northwest Corner burial yards. Planning for this project consists of identifying the most cost-efficient method of packaging the wastestream.

March 15, 1998, is the deadline to have a contract in place to remove/characterize/package the waste.

PADUCAH GASEOUS DIFFUSION PLANT
SITE SPECIFIC ADVISORY BOARD
August 21, 1997

HOW MANY PCBs (GALLONS/POUNDS) ARE/WERE ON SITE AT PADUCAH?

See attached chart, Fig. 1

WHERE ARE THE BACKGROUND WELLS REFERENCED IN THE NORTHEAST PLUME DISCUSSION? — Debora Jolly

See attached map, Fig. 2

HOW MUCH WATER IS IN THE RCW SYSTEM; HOW MUCH MAKE-UP IS USED EACH DAY? — Debora Jolly

Makeup water use, the amount for each tower, and the total RCW flow is dependent on cascade power levels. On average right now, the plant uses ~14 million gallons of makeup water each day. Of this, since the C-637-2A tower is one of the larger, ~4 million gallons are used each day. The NE Plume adds ~260,000 gallons, or ~6 percent, to the flow in that tower.

HOW FAR DOES THE COOLING TOWER MIST TRAVEL FROM THE TOWERS? — Debora Jolly

Here we reference a cooling tower drift study, document reference ORNL/TM-6131, "Cooling Tower Drift Studies at the Paducah Gaseous Diffusion Plant." The study was done for chromium, which is a dissolved solid and travels only in the mist, not through volatilization. Since Tc99 is also a dissolved solid, reasonable comparisons can be made.

The result of the study showed that background levels for chromium were observed in all media studied (soil, surface water, foliage and litter) within 1.5 Km (~1 mile) of the down wind side of the tower. Our "significant" distance, as I stated in the SSAB presentation, then should be < 1 mile.

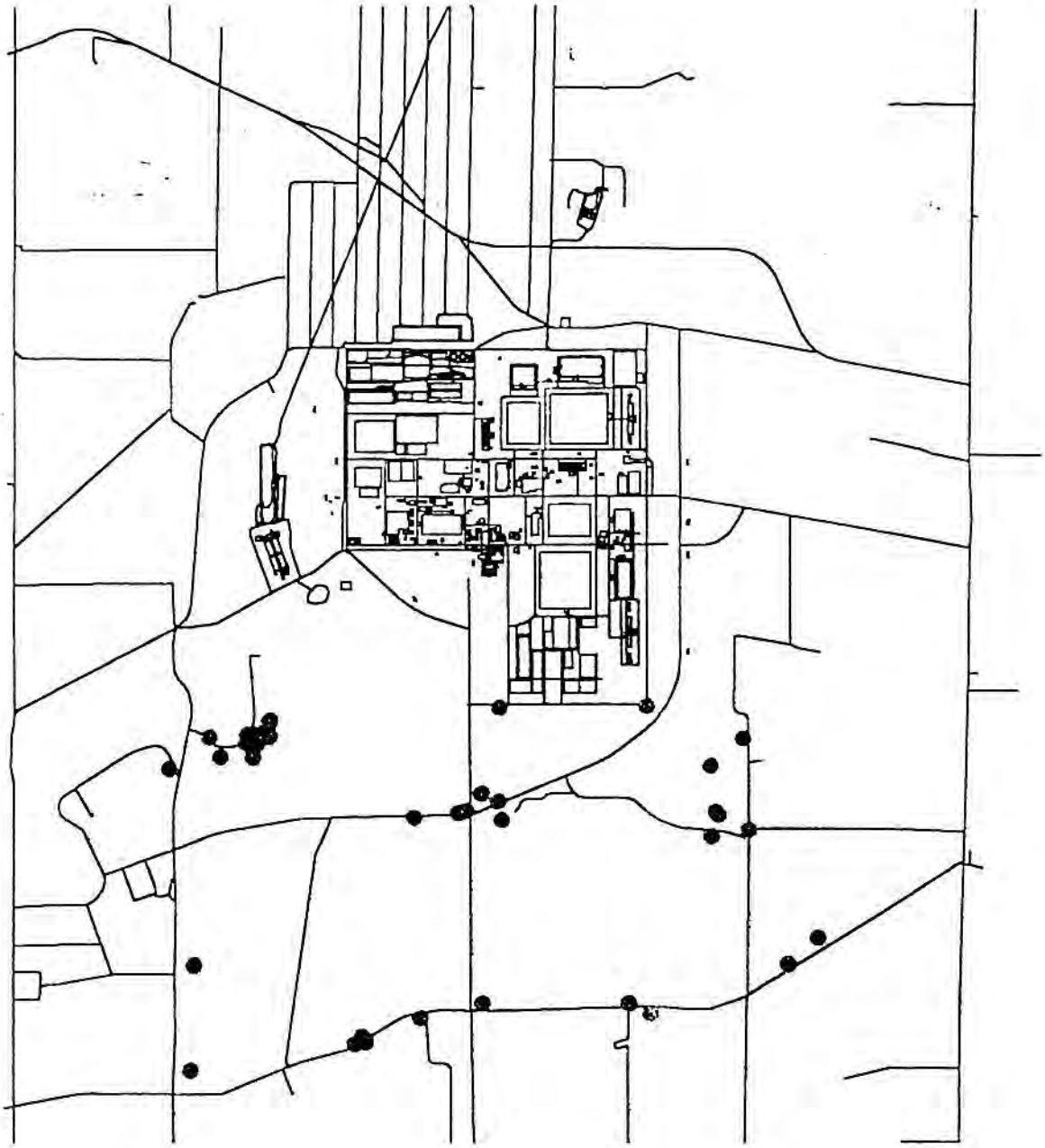
FIGURE 1
TRENDS IN DOE ANNUAL TOTAL PCB IN-SERVICE USAGE AT PGDP

Year ending	PCB transformers in use	Total PCBs in PCB transformers in service (kg)	PCB-contaminated transformers in service	Large capacitors in service
12/31/90	80	300,531	n/a	8,774
12/31/91	74	288,747	n/a	8,741
12/31/92	76	286,721	n/a	8,565
12/31/93	74	284,851	25	5,084
12/31/94	68	281,280	25	3,341
12/31/95	67	281,280	25	2,749
12/31/96	67	281,280	24	2,456
12/31/97	TBD	TBD	TBD	TBD

Sources: Bell et al. 1991, 1992, 1993; Milne et al. 1994; Milne 1995, 1996; Polston, 1993

TOTAL KILOGRAMS OF PCB WASTE IN STORAGE AT PGDP

1989	2,003,984
1990	2,273,873
1991	2,468,930
1993	2,534,372
1994	2,870,155
1995	2,880,219
1996	2,632,004



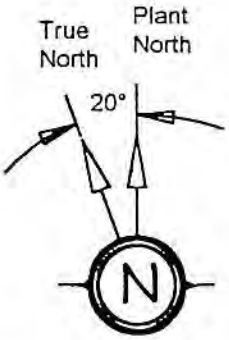
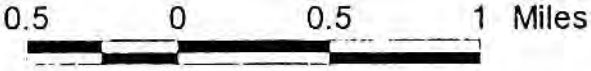


FIGURE 2
BACKGROUND WELLS USED
FOR NORTHEAST PLUME COMPARISON



WAG 6 Remedial Investigation Status
August 20, 1997
WAG 6 Project Team

Scope:
Develop and implement a remedial investigation and feasibility study for five SWMUs that make up the WAG 6. The five SWMUs are all located near the C-400 Building and are considered source areas for the Northwest and Northeast Plumes. The specific SWMUs are:

SWMU 11	C-400 TCE Leak Site
SWMU 26	C-400 to C-404 Underground Transfer Line
SWMU 40	C-403 Neutralization Tank
SWMU 47	C-400 Technetium Storage Tank Area
SWMU 203	C-400 Sump

Following the completion of the RI/FS a proposed plan and record of decision for the selected remedial action will be developed. The selected remedial action will designed and implemented following the signing of the record of decision.

Status of Drilling Activiites
- Drill Rigs Operating - 3
  + Two Direct-Push
  + One Roto-Sonic
- Boring Completed - 68/201
- Total Borings to be Installed - 201
- Pre-Entry Borings - 14
- Boring Locations Civil Surveyed - 199
- Boring Locations with Geophysics Comleted - 199

Status of Laboratory Activities
- Analysis Group - Number of Analyses
  + Metals - 44
  + PCBs - 45
  + Tc-99, Alpha/Beta Screen - 55
  + Semi-Volatiles - 45
  + Volatile Soil Gas - 54
  + Volatile Screens - 56
  + Volatiles - 21

- Work during the months of July and August concentrated on clearing drilling sites of buried utilities and installing shallow soil borings. The shallow soil borings were predominantly installed in utility corridores to identify potential migration pathways of contaminants. Limited RGA drilling was performed to assist in delineating the Northeast and Northwest Plume source areas.

draft

August 21, 1997

Ed Whitfield (R)
236 Cannon House Office Building
Washington, DC 20515

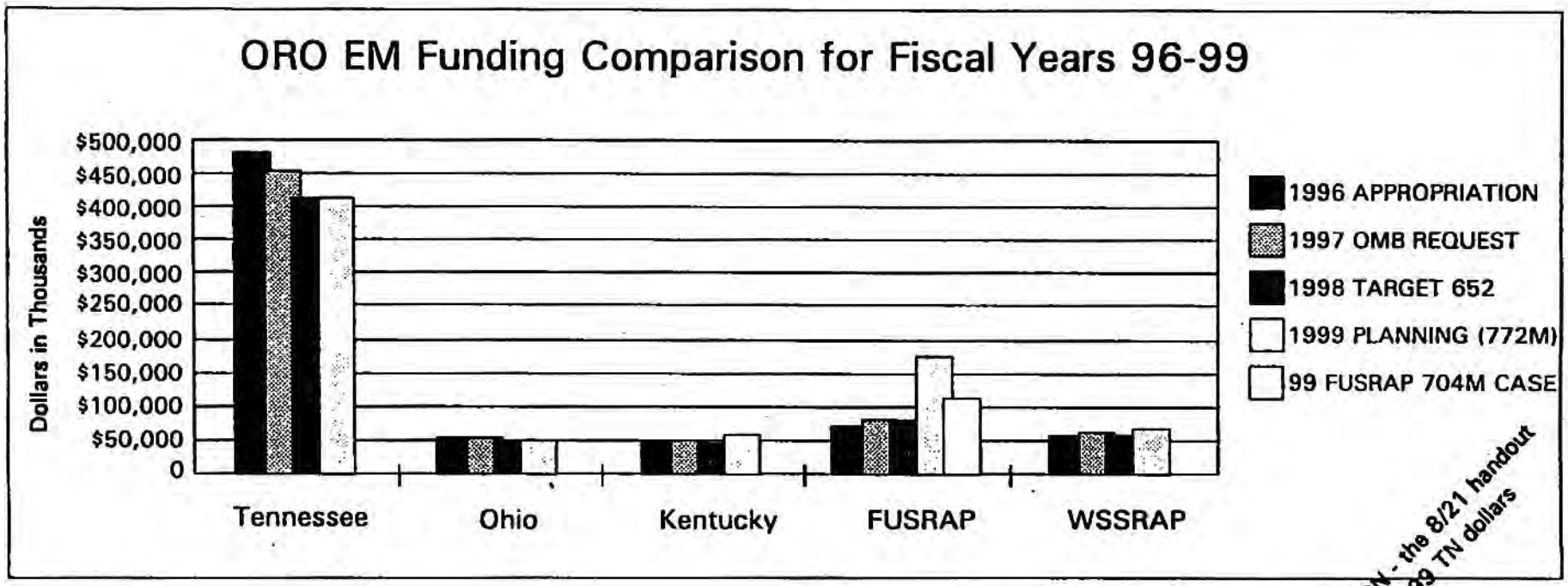
Dear Representative Whitfield:

I am writing you on behalf of the Paducah Gaseous Diffusion Plant's (PGDP) Site Specific Advisory Board (SSAB). The SSAB is an independent, nonpartisan, broadly representative organization consisting of a balanced mix of diverse interests with concerns related to the PGDP Department of Energy (DOE) activities. The SSABs primary mission is to provide DOE with informed recommendations and advice on major policy issues regarding environmental restoration and waste management activities at PGDP.

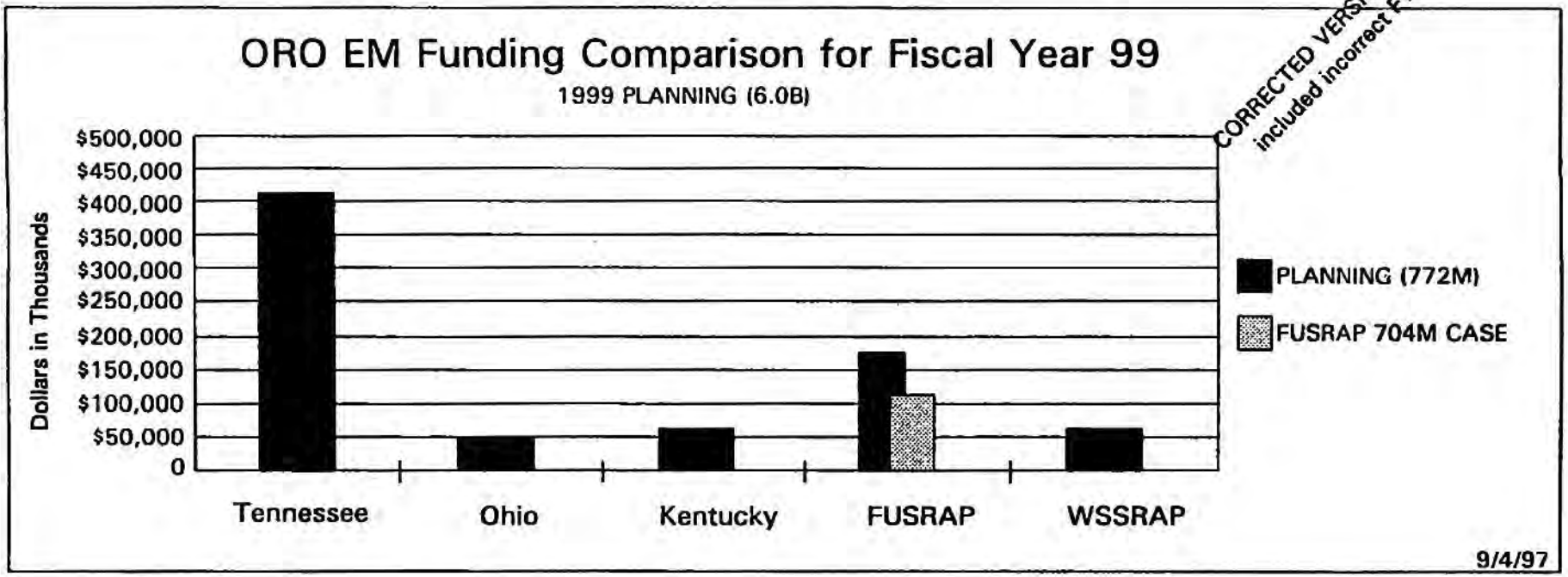
One area of interest for the SSAB is the budget and prioritization of DOE projects. The SSAB is requesting someone from your office meet with us (possibly in January) to discuss the budget process and how we might participate.

If you have any questions, please contact me at (502) 441-5058.

Vicki W. Jones
Co-chairperson



CORRECTED VERSION - the 8/21 handout included incorrect FY99 TN dollars



Issued Date	Document Number	Title	Author Organization	Receipient Organization	Type	v1 FG/RS/FU	v1 Access Number	Access Number
01-Jul-87	KY/B-262 AND KY/B-263	PRELIMINARY ASSESSMENT PADUCAH GASEOUS DIFFUSION PLANT SOLID WASTE MANAGEMENT UNITS	REMEDIAL ACTION PROGRAM - PGDP, PADUCAH, KENTUCKY	U. S. DEPARTMENT OF ENERGY	R	01/13/	910807035	LB09905-0164
28-Nov-89		ADMINISTRATIVE ORDER BY CONSENT (ACO) / ADMINISTRATIVE CONSENT ORDER	U.S. DEPARTMENT OF JUSTICE, WASHINGTON, D.C.	USEPA, WASHINGTON, D.C.; U.S. DEPARTMENT OF ENERGY	L	02/19/	910909023	I-02004-0002
01-Mar-87		FINAL COMMUNITY RELATIONS PLAN FOR PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY	COMMUNITY RELATIONS DEPARTMENT, PGDP, PADUCAH, KENTUCKY	U.S. DEPARTMENT OF ENERGY	PB	21/65/	910820014	A-00010-0002
23-Mar-88	DOE/OR/07-1203, V1&D2	PHASE I SITE INVESTIGATION WORK PLAN, VOL. 1	CH2M HILL, OAK RIDGE, TN	U.S DEPARTMENT OF ENERGY	G	08/37/	920715054	I-02300-0168
[illegible]	DOE/OR/07-1203,V2&D2	PHASE I SITE INVESTIGATION WORK PLAN, VOL. 2	CH2M HILL, OAK RIDGE, TENNESSEE	U. S. DEPARTMENT OF ENERGY	G	08/37/	920715055	I-02300-0169
[illegible]	KY/ER-4	RESULTS OF THE SITE INVESTIGATION, PHASE I AT THE PADUCAH GASEOUS DIFFUSION PLANT	CH2M HILL, OAK RIDGE, TENNESSEE	U. S. DEPARTMENT OF ENERGY	R	08/37/	910730000	I-02300-0001
16-Jul-91	KY8 890 008 982	NOTICE OF RCRA (HSWA) FINAL PERMIT DECISION/ISSUANCE OF HSWA PERMIT FOR 1984 RCRA AMENDMENTS U.S. DEPARTMENT OF ENERGY AND MARTIN MARIETTA ENERGY SYSTEMS, INC. PGDP, PADUCAH, KENTUCKY/PERMIT MODIFICATIONS	USEPA, REGION IV, ATLANTA, GA	U.S. DEPARTMENT OF ENERGY	G	02/17/	940407002	I-02003-0055
01-Dec-91	DOE/OR 1013	SUMMARY OF ALTERNATIVES FOR REMEDIATION OF OFF-SITE CONTAMINATION	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA; STATE OF KENTUCKY	R	08/38/	920827802	I-02400-0288
27-Dec-91	KY/SUB/13B-97777C P-03/1991/1 VOL 6	RESULTS OF THE PUBLIC HEALTH AND ECOLOGICAL ASSESSMENT, PHASE II	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA; STATE OF KENTUCKY	R	08/38/	920827801	I-02400-0287
01-Apr-92	KY/SUB/13B-97777C P-03/1991/1 VOLS 1 - 5	RESULTS OF THE SITE INVESTIGATION, PHASE II AT PGDP	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA; STATE OF KENTUCKY	R	08/38/	920714151	I-02400-0224
26-Apr-93		EXTENSION REQUEST FOR REMEDIAL INVESTIGATION (RI) ADDENDA	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA; STATE OF KENTUCKY	C	29/105/48	930511020	I-00309-0004
01-Jun-93	DOE/OR/07-1141&D1	REMEDIAL INVESTIGATION ADDENDUM FOR WAG 22 BURIAL GROUNDS AT PGDP	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA; STATE OF KENTUCKY	R	29/105/58	930701018	I-00309-0016
07-Jun-93		REMEDIAL INVESTIGATION (RI) ADDENDA-FUTURE LAND USE	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA; STATE OF KENTUCKY	C	29/105/61	930621005	I-00309-0015

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30-Jul-93		PHASE I AND PHASE II VALIDATED DATA PACKAGES AND CHAIN OF CUSTODY FORMS	CH2M HILL, OAK RIDGE, TENNESSEE	U.S. DEPARTMENT OF ENERGY	C	20/85/	930730003	I-00200-0002
13-Jan-94		USEPA COMMENTS ON D1 WAG 22 RI ADDENDUM - PGDP, PADUCAH, KENTUCKY	USEPA, REGION IV, ATLANTA, GA	U.S. DEPARTMENT OF ENERGY	C	29/105/61	940125004	I-00309-0017
03-Feb-94		D1 WAG 22 REMEDIAL INVESTIGATION (RI) ADDENDUM - CONFIRMATION OF AGREEMENT COMMENT RESOLUTION MEETING	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA.	C	29/105/61	940308032	I-00309-0019
13-Jul-94		NOTICE OF DEFICIENCY AND COMMENTS ON THE RI ADDENDUM FOR WAG 22 BURIAL GROUNDS AT PGDP, DOE/OR/07-1141&D1	STATE OF KENTUCKY	U.S. DEPARTMENT OF ENERGY; ERWM-MGR; USEC, PADUCAH, KENTUCKY	C	29/105/61	940810022	I-00309-0023
18-Jul-94		CORRECTIONS TO KENTUCKY COMMENTS ON THE RI ADDENDUM FOR WAG 22	STATE OF KENTUCKY	U.S. DEPARTMENT OF ENERGY; ERWM-MGR; USEC, PADUCAH, KENTUCKY	C	29/105/61	940810024	I-00309-0025
20-Mar-95	DOE/OR/07-1345&D1	REMEDIAL INVESTIGATION (RI) SAMPLING AND ANALYSIS PLAN FOR WAG 22, SWMUS 7, 30, AND 12	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	R	29/105/58	950406012	I-00311-0002
06-Jun-95	DOE/OR/07-1345&D1/A1	ADDENDUM TO THE REMEDIAL INVESTIGATION SAMPLING AND ANALYSIS PLAN FOR WAG 22, SWMUS 7 AND 30	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	R	/ /		I-00310-0011
[illegible]		COMMENTS ON THE REMEDIAL INVESTIGATION (RI) SAMPLING AND ANALYSIS PLAN (SAP) FOR THE C-747-A ARE, BURN AREA, AND UF4 DRUM YARD SWMUS 7, 30, AND 12, WAG 22, PGDP	USEPA, REGION IV, ATLANTA, GA	U.S. DEPARTMENT OF ENERGY/EM&EF MGR, PADUCAH, KENTUCKY	C	/ /		I-00309-0046
21-Jul-95		COMMENTS ON THE RI SAMPLING AND ANALYSIS PLAN FOR THE C-747-A AREA BURIAL GROUNDS, BURN AREA, AND UF4 DRUMYARD SWMUS 7, 30, AND 12 OF WAG 22 AT PGDP (DOE/OR/07-1345 &D1 AND THE ADDENDUM, DATED JUNE, 1995 (DOE/OR/07-1345&D1&A1	STATE OF KENTUCKY	U.S. DEPARTMENT OF ENERGY/MGR-EM&EF/USEC, PADUCAH, KENTUCKY	C	/ /		I-00309-0048
24-Jul-95		ER PROGRAM QUARTERLY REPORT, SECOND QUARTER, 1995	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	R	/ /		A-00005-0833

Issued Date	Document Number	Title	Author Organization	Receipient Organization	Type	v1 FG/RS/FU	v1 Access Number	Access Number
01-Sep-95		FINAL COMMENT RESOLUTION TABLE-REMEDIAL INVESTIGATION SAMPLING AND ANALYSIS PLAN (D1 VERSION) FOR THE C-746-A AREA BURIAL GROUND AND BURN AREA SWMU'S NUMBERS 7 AND 30, WAG NUMBER 22	SAIC-KEVIL, KY.	LMES-KEVIL, KY.	R	/ /		I-00309-0059
29-Sep-95	DOE/OR/07-1345&D2	REMEDIAL INVESTIGATION SAMPLING AND ANALYSIS PLAN FOR THE C-747-A AREA BURIAL GROUND AND BURN AREA SWMUS 7 AND 30 WAG 22	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA./STATE OF KENTUCKY	R	/ /		I-00309-0055
12-Nov-95		COMMENTS ON THE RI SAMPLING AND ANALYSIS PLAN FOR THE C-747-A BURIAL GROUNDS AND BURN AREA SWMUS 7 AND 30 , WAG 22, AT PGDP, PADUCAH, KENTUCKY (DOE/OR/07-1345&D2)	STATE OF KENTUCKY	U.S. DEPARTMENT OF ENERGY/MGR-EM&EF/USEC	C	/ /		I-00309-0061
13-Dec-95		COMMENT RESPONSE SUMMARY FOR THE RI SAMPLING AND ANALYSIS PLAN FOR WAG 22, SWMUS 7 AND 30	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	C	/ /		I-00309-0065
18-Dec-95	ADDENDUM TO DOE/OR/07-1345&D2	COMMENT RESPONSE SUMMARY FOR THE REMEDIAL INVESTIGATION SAMPLING AND ANALYSIS PLAN FOR SWMU'S 7 AND 30	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	R	/ /		I-00309-0062
19-Dec-95		APPROVAL OF THE RI SAMPLING AND ANALYSIS PLAN FOR THE C-747-A BURIAL GROUND AND BURN AREA, SWMUS 7 AND 30 OF WAG 22 AT PGDP, PADUCAH, KENTUCKY (DOE/OR/07-1345&D2)	USEPA, REGION IV, ATLANTA, GA	U.S. DEPARTMENT OF ENERGY/MGR-EM&EF, PADUCAH, KENTUCKY	C	/ /		I-00309-0064
05-Jun-96		REQUEST FOR REFERENCED PROCEDURE DOCUMENTS FROM THE SAMPLING AND ANALYSIS PLAN FOR THE C-747 AREA. SEPTEMBER 27, 1995, U.S. DEPARTMENT OF ENERGY, PGDP	STATE OF KENTUCKY	U.S. DEPARTMENT OF ENERGY	C	/ /		I-00300-0016
17-Jan-96		CONDITIONAL APPROVAL OF THE COMMENT RESPONSE SUMMARY FOR THE RI SAMPLING AND ANALYSIS PLAN FOR THE C-747-A AREA BURIAL GROUNDS AND BURN AREA SWMU NOS. 7 AND 30, WAG 22 AT PGDP, DECEMBER 1995, DOE/OR/07-1345&D2	STATE OF KENTUCKY	U.S. DEPARTMENT OF ENERGY/MGR-EM&EF/USEC, PADUCAH, KENTUCKY	C	/ /		I-00309-0066

Issued Date	Document Number	Title	Author Organization	Receipient Organization	Type	v1 FG/RS/FU	v1 Access Number	Access Number
09-Feb-96		PUBLIC NOTICE - AVAILABILITY OF ADMINISTRATIVE RECORD FILE FOR WAG 22, SWMUS 7 AND 30 AT PGDP	THE PADUCAH SUN	GENERAL PUBLIC	PB	/ /		I-00309-0067
15-Jul-96		RECORD OF CONVERSATION (ROC) - WAG 22 SWMUS 7 AND 30 ANALYTICAL METHODOLOGY ADOPTION	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	C	/ /		I-00309-0079
15-Aug-96		WAG 22 TEMPORARY PIEZOMETER INSTALLATION AT SWMUS 2, 7, AND 30	U.S. DEPARTMENT OF ENERGY	STATE OF KENTUCKY	C	/ /		I-00300-0032

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01-Jul-87	KY/B-262 AND KY/B-263	PRELIMINARY ASSESSMENT PADUCAH GASEOUS DIFFUSION PLANT SOLID WASTE MANAGEMENT UNITS	REMEDIAL ACTION PROGRAM - PGDP, PADUCAH, KENTUCKY	U. S. DEPARTMENT OF ENERGY	R	01/13/	910807035	LB09905-0164
13-Nov-90		ADMINISTRATIVE ORDER BY CONSENT (ACO) / ADMINISTRATIVE CONSENT ORDER	U.S. DEPARTMENT OF JUSTICE, WASHINGTON, D.C.	USEPA, WASHINGTON, D.C.; U.S. DEPARTMENT OF ENERGY	L	02/19/	910909023	I-02004-0002
01-Mar-91		FINAL COMMUNITY RELATIONS PLAN FOR PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY	COMMUNITY RELATIONS DEPARTMENT, PGDP, PADUCAH, KENTUCKY	U.S. DEPARTMENT OF ENERGY	PR	21/65/	910820014	A-00010-00[illegible]
23-May-89	DOE/OR/07-1203, V1&D2	PHASE I SITE INVESTIGATION WORK PLAN, VOL. 1	CH2M HILL, OAK RIDGE, TN	U.S DEPARTMENT OF ENERGY	G	08/37/	920715054	I-02300-0168
23-May-89	DOE/OR/07-1203,V2&D2	PHASE I SITE INVESTIGATION WORK PLAN, VOL. 2	CH2M HILL, OAK RIDGE, TENNESSEE	U. S. DEPARTMENT OF ENERGY	G	08/37/	920715055	I-02300-0169
[illegible]	KY/ER-4	RESULTS OF THE SITE INVESTIGATION, PHASE I AT THE PADUCAH GASEOUS DIFFUSION PLANT	CH2M HILL, OAK RIDGE, TENNESSEE	U. S. DEPARTMENT OF ENERGY	R	08/37/	910730000	I-02300-0001
16-[illegible]	KY8 890 008 952	NOTICE OF RCRA (HSWA) FINAL PERMIT DECISION/ISSUANCE OF HSWA PERMIT FOR 1984 RCRA AMENDMENTS U.S. DEPARTMENT OF ENERGY AND MARTIN MARIETTA ENERGY SYSTEMS, INC. PGDP, PADUCAH, KENTUCKY/PERMIT MODIFICATIONS	USEPA, REGION IV, ATLANTA, GA	U.S. DEPARTMENT OF ENERGY	G	02/17/	940407002	I-02003-0055
[illegible]	DOE/OR 1013	SUMMARY OF ALTERNATIVES FOR REMEDIATION OF OFF-SITE CONTAMINATION	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA; STATE OF KENTUCKY	R	08/38/	920827002	I-02400-0288
[illegible]	KY/SUB/13B-87777C P- 03/1991/1 VOL 6	RESULTS OF THE PUBLIC HEALTH AND ECOLOGICAL ASSESSMENT, PHASE II	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA; STATE OF KENTUCKY	R	08/38/	920827001	I-02400-0287
[illegible]	KY/SUB/13B-87777C P- 03/1991/1 VOLS 1 - [illegible]	RESULTS OF THE SITE INVESTIGATION, PHASE II AT PGDP	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA; STATE OF KENTUCKY	R	08/38/	920714151	I-02400-0224
[illegible]		PHASE I AND PHASE II VALIDATED DATA PACKAGES AND CHAIN OF CUSTODY FORMS	CH2M HILL, OAK RIDGE, TENNESSEE	U.S. DEPARTMENT OF ENERGY	G	20/85/	930730003	I-00200-0002
[illegible]	DOE/OR/07-1213&D1	INTEGRATED REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORK PLAN FOR WAG 6	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA; STATE OF KENTUCKY	R	26/32/35	940810032	I-00809-0030

Issued Date	Document Number	Title	Author Organization	Receipient Organization	Type	v1 FG/RS/FU	v1 Access Number	Access Number
[illegible]		COMMENTS ON THE INTEGRATED REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORK PLAN FOR WAG 6 AT PGDP	U.S. DEPARTMENT OF THE INTERIOR, COOKEVILLE, TN	U.S. DEPARTMENT OF ENERGY	C	26/32/32	940913010	I-00809-00[illegible]
[illegible]		USEPA COMMENTS ON THE INTEGRATED REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORK PLAN FOR WAG 6, PGDP, PADUCAH, KENTUCKY	USEPA, REGION IV, ATLANTA, GA	U.S. DEPARTMENT OF ENERGY; ERWM-MGR, PADUCAH, KENTUCKY	C	26/32/35	941020027	I-00809-0033
[illegible]		CONFIRMATION OF AGREEMENT WITH KENTUCKY ON DUE DATE OF D2	U.S. DEPARTMENT	USEPA, REGION IV, ATLANTA, GA; STATE OF KENTUCKY	C	26/32/48	941020028	I-00809-0034
[illegible]		WAG 13 AND 6 REPRIORITIZATION AND SPECIAL REQUESTS	STATE OF KENTUCKY	U.S. DEPARTMENT OF ENERGY; ERWM-MGR; USEC, PADUCAH, KENTUCKY	C	26/85/	950105021	I-00900-0012
[illegible]	DOE/OR/07-1243&D2	INTEGRATED REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORK PLAN FOR WAG 6 AT PGDP, PADUCAH, KENTUCKY	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	R	26/32/32	950406007	I-00809-0001
[illegible]		APPROVAL OF THE INTEGRATED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLAN FOR WAG 6 AT PGDP, PADUCAH, KENTUCKY	USEPA, REGION IV, ATLANTA, GA	U.S. DEPARTMENT OF ENERGY/EM&EF-MGR, PADUCAH, KENTUCKY	C	/ /		I-00809-0043
[illegible]		NEW PATH FORWARD - WAG 6 C-400 AREA	U. S. DEPARTMENT OF ENERGY	MGR-EM&EF, PADUCAH, KENTUCKY	C	/ /		I-00809-0044
[illegible]		REQUEST TO MODIFY REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) APPROACH FOR WAG 6	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	C	/ /		I-00807-0001
[illegible]		ADDITION OF SWMU 203 AT THE PGDP TO WAG 6 PURSUANT TO HAZARDOUS WASTE PERMIT NUMBER KY-890-008-982	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	C	/ /		I-00807-0002
[illegible]		GROUNDWATER TECHNICAL EXCHANGE MEETING AND WAG 6 PHASE I INDUSTRIAL SURVEY DATA QUALITY OBJECTIVE (DQO) MEETING	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	C	/ /		I-00809-0046
[illegible]		ER PROGRAM QUARTERLY REPORT, SECOND QUARTER, 1995	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	R	/ /		A-00005-0833

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31-[illegible]		AGREEMENT ON THE CONTINUATION OF DATA QUALITY OBJECTIVES (DQO) FOR WAG 6, PHASE I INDUSTRIAL HYDROGEOLOGY STUDY	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	C	/ /		I-00809-0050
[illegible]		REORGANIZATION OF WAGS 6, 27, 28, AND 3 - PGDP	STATE OF KENTUCKY	U.S. DEPARTMENT OF ENERGY/EM&EF-MGR/USEC	C	/ /		I-00806-0081
11-[illegible]		APPROVAL OF THE REVISED SWMU 203 ASSESSMENT REPORT (SAR) - PGDP	STATE OF KENTUCKY	U.S. DEPARTMENT OF ENERGY/EM&EF-MGR/USEC	C	/ /		I-00807-0004
13-[illegible]	DOE/OR/07-1406&D1	WORK PLAN FOR PHASE I OF THE WAG 6 REMEDIAL INVESTIGATION: INDUSTRIAL HYDROGEOLOGIC STUDY AT THE PGDP	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	R	/ /		I-00809-0051
09-[illegible]		COMMENTS ON THE PGDP WAG 6 PHASE I RI INDUSTRIAL HYDROGEOLOGIC STUDY WORK PLAN (DOE/OR/07-1406&D1)	STATE OF KENTUCKY	U.S. DEPARTMENT OF ENERGY/MGR-EM&EF/USEC, PADUCAH,KENTUCKY	C	/ /		I-00809-0055
20-[illegible]	DOE/OR/07-1406&D2	WORK PLAN FOR PHASE I OF THE WAG 6 REMEDIAL INVESTIGATION INDUSTRIAL HYDROGEOLOGIC STUDY AT THE PGDP, PADUCAH, KENTUCKY	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	R	/ /		I-00809-0054
03-Nov-95		COMMENTS ON THE PGDP REVISED WAG 6 PHASE I RI INDUSTRIAL HYDROGEOLOGIC STUDY WORK PLAN (DOE/OR/07-1406&D2)	STATE OF KENTUCKY	U. S. DEPARTMENT OF ENERGY/MGR-EM&EF/USEC	C	/ /		I-00809-0056
28-May-96	KY/ERWM-38	C-400 PROCESS AND STRUCTURE REVIEW	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	R	/ /		I-00809-0045
12-Jul-96	DOE/OR/07-1478&D1	PHASE I: PGDP WAG 6 INDUSTRIAL HYDROGEOLOGIC STUDY	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	R	/ /		I-00809-0061
28-Aug-96	DOE/OR/07-1243&D3	INTEGRATED RI/FS WORK PLAN FOR WAG 6 AT PGDP, PADUCAH, KENTUCKY	U.S. DEPARTMENT OF ENERGY	USEPA, REGION IV, ATLANTA, GA/STATE OF KENTUCKY	R	/ /		I-00809-0068
16-Oct-96		APPROVAL OF THE PGDP WAG 6 PHASE I REMEDIAL INVESTIGATION-INDUSTRIAL HYDROGEOLOGIC STUDY PROJECT REPORT (DOE/OR/07-1478&D1)	STATE OF KENTUCKY	U.S. DEPARTMENT OF ENERGY/MGR-EM&EF, PADUCAH, KENTUCKY	C	/ /		I-00809-0069
23-Oct-96		RESPONSE TO INQUIRIES CONCERNING THE WAG 6 INDUSTRIAL HYDROGEOLOGIC STUDY REPORT	U.S. DEPARTMENT OF ENERGY	U.S. DEPARTMENT OF THE INTERIOR, U.S. FISH AND WILDLIFE SERVICES, COOKEVILLE, TN	C	/ /		I-00809-0070

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12-Nov-96		COMMENTS ON THE INTEGRATED RI/FS WORK PLAN FOR WAG 6 (DOE/OR/07-1243&D3)	STATE OF KENTUCKY	U.S. DEPARTMENT OF ENERGY/MGR-EM & EF, PADUCAH, KY	R	/ /		I-00809-0073
06-Dec-96		COMMENT RESPONSE SUMMARY FOR THE WAG 6 INDUSTRIAL HYDROGEOLOGICAL STUDY REPORT (DOE/OR/07-1478&D2)	U.S. DEPARTMENT OF ENERGY	STATE OF KENTUCKY/USEPA, REGION IV, ATLANTA, GA.	R	/ /		I-00809-0074
27-Jan-97	DOE/OR/07-1243&D4	INTEGRATED REMEDIAL INVESTIGATION / FEASIBILITY STUDY WORK PLAN FOR WASTE AREA GROUPING 6 AT PGDP, PADUCAH, KY / RI/FS WORK PLAN	U. S. DEPARTMENT OF ENERGY, PADUCAH, KY	STATE OF KENTUCKY/USEPA, REGION IV, ATLANTA, GA	R	/ /		I-00809-0076
17-Jun-91		WAG 6 QUALITY ASSURANCE PLAN - CLOSE SUPPORT LABORATORY	CH2MHILL, KEVIL, KY	PE-EMEF, KEVIL, KY	R	/ /		I-00810-0003

Environmental Management Risk-Based Prioritization

The Management Evaluation Process

Programs:

Environmental Restoration EM-40

Waste Management EM-30

Weldon Spring
FUSRAP
Oak Ridge
Paducah
Portsmouth

Facility Transition

FUSRAP

WSSRAP

Environmental Management Project Prioritization

- Issues Facing Environmental Management
  - Decreasing funding
  - Accelerated Schedules
  - Numerous management objectives

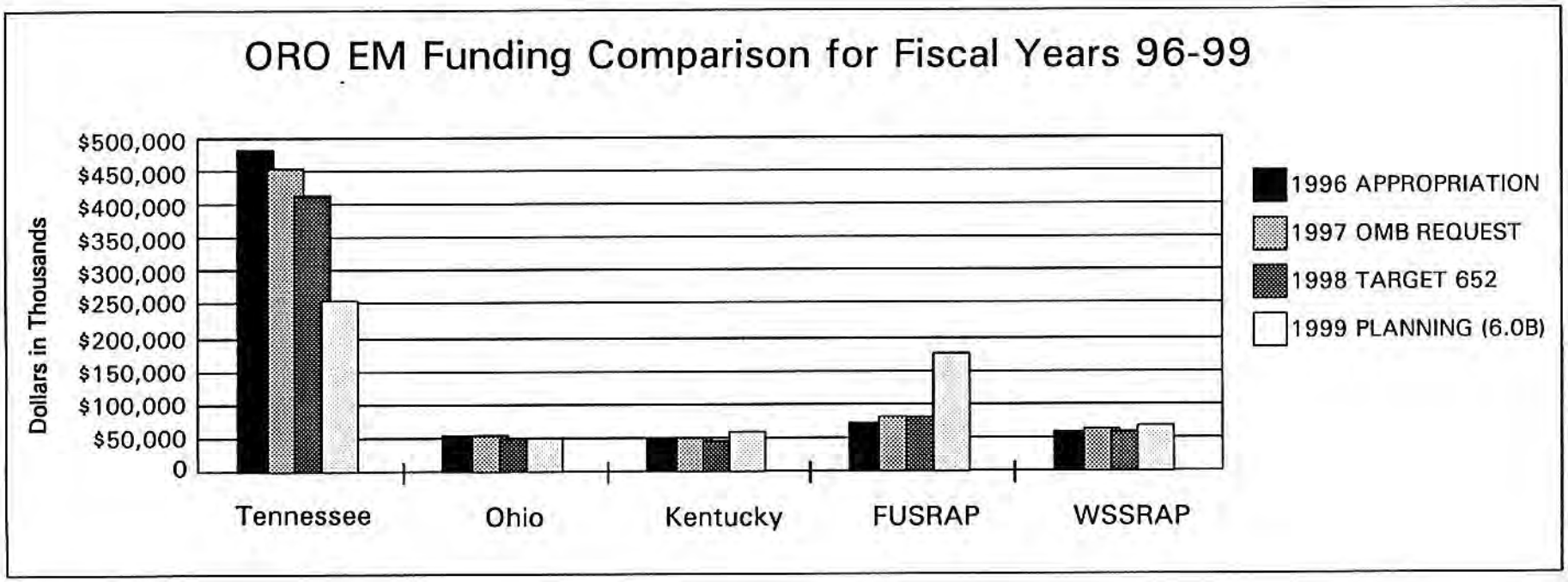
- The Priority Process is one Method to Systematically Address EM Issues

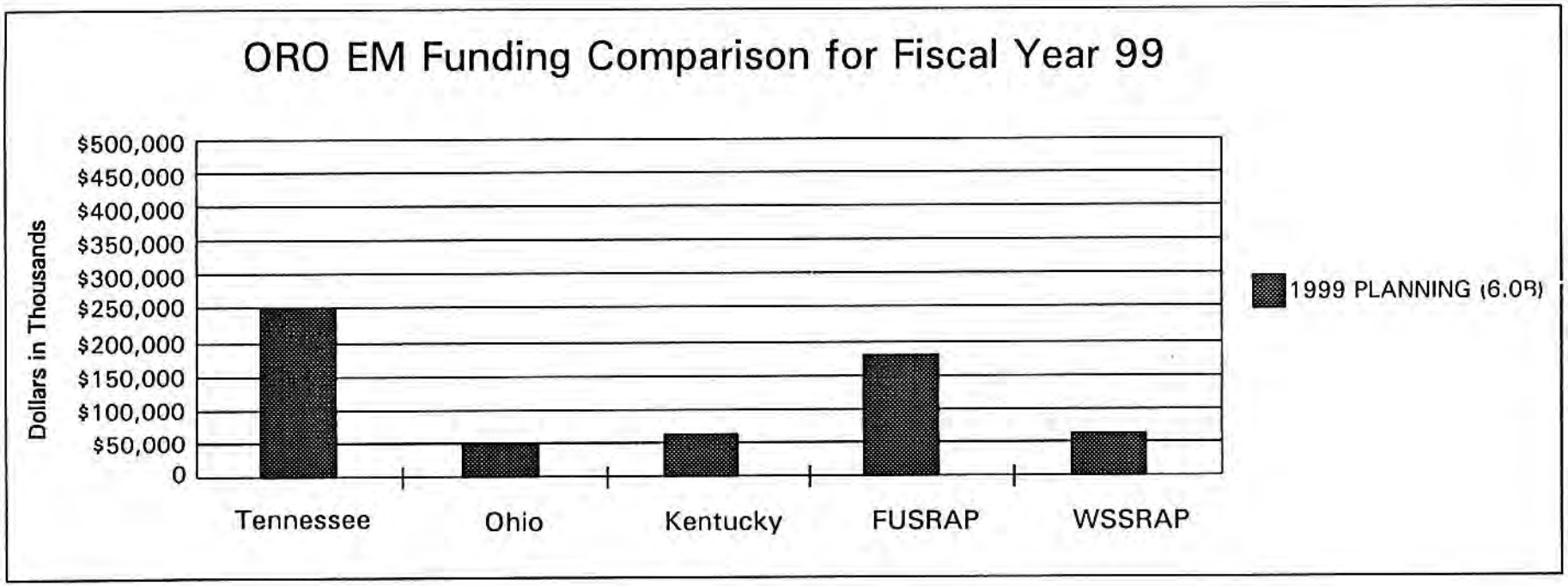
- Complexity of Integrating the Priority List
  - Balance Resources among cleanup activities, operational activities, small sites
    - Equity between states
    - Focus this evening is with Kentucky sites

Topics

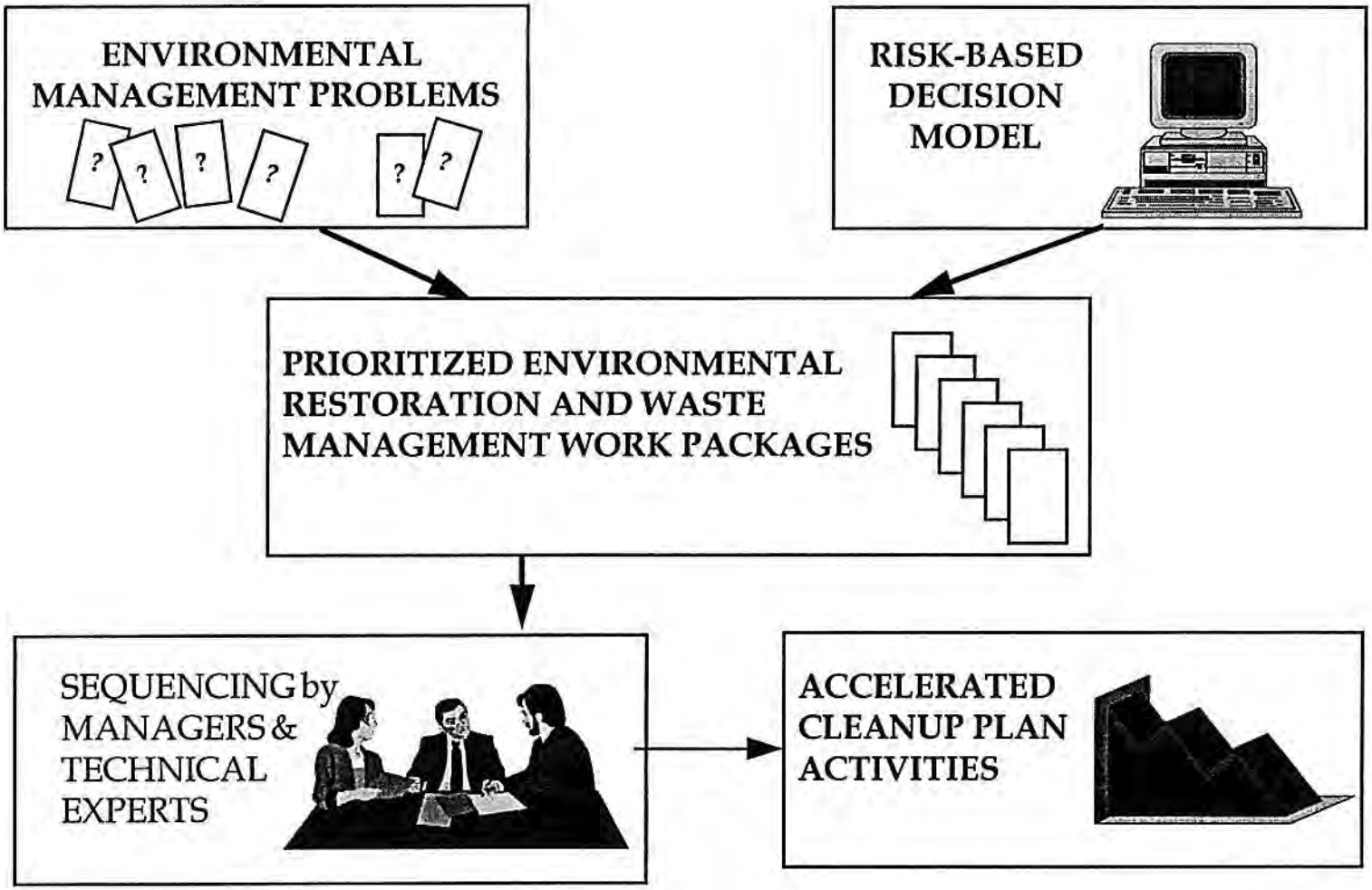
- DOE's Environmental Management (EM) Program has developed the Management Evaluation Process as a consistent risk-based approach that captures the spectrum of management issues associated with sites across the nuclear weapons complex.

- The information resulting from this process will be used to prioritize risks so DOE can work with Congress, regulators, and the public to deal with those risks in an orderly, cost-effective manner.


ORO EM Funding Comparison for Fiscal Years 96-99
Dollars in Thousands
$500,000
$450,000
$400,000
$350,000
$300,000
$250,000
$200,000
$150,000
$100,000
$50,000
0
Tennessee
Ohio
Kentucky
FUSRAP
WSSRAP
1996 APPROPRIATION
1997 OMB REQUEST
1998 TARGET 652
1999 PLANNING (6.0B)


ORO EM Funding Comparison for Fiscal Year 99
Dollars in Thousands
$500,000
$450,000
$400,000
$350,000
$300,000
$250,000
$200,000
$150,000
$100,000
$50,000
0
Tennessee
Ohio
Kentucky
FUSRAP
WSSRAP
1999 PLANNING (6.0B)

Strategy for Sequencing Accelerated Cleanup Plan



Prioritization Process

Review of the Management Evaluation Matrix

- Used for the 1998 budget cycle (analysis performed last year)
- Forms the basis for the Accelerated Cleanup Plan sequencing

Management Evaluation Matrix

- **What is the Management Evaluation Matrix?**

  A Management Tool to Evaluate and Categorize EM Activities Based on the Risks Associated with the Activities of Each Project

Objectives of the Management Evaluation Matrix (MEM)

- **Consistent, Systematic, Usable Framework for Evaluating and Categorizing EM Activities by Risk**
- **Integrated Risk Evaluation of Diverse Activities**
- **Compile Risk Management Information to Support Budget Decisions**
  - **Distinguish Activities that Address High Risks from Activities that Address Low Risks**

MEM Structure

- **What is Risk?**
  - **The product of:**

Impact of Severity (Consequence)

and

Impact of Likelihood (Probability)

MEM Structure

- Rows represent scale for determining severity of potential
- Columns represent scale for determining likelihood of potential impacts

IMPACT	EVENT LIKELIHOOD			
	Very High	High	Medium	Low
Severity Level 1				
Severity Level 2 Severity Level 3				

MEM Impact Categories

Rank Based on Risk Reduction

- **Public Safety and Health (PS), 25%**
- **Site Personnel Safety and Health (SP), 15%**
- **Environmental Protection (EN), 15%**
- **Compliance (CO), 12%**
- **Mission Impact (MI), 15%**
- **Mortgage Reduction (MR), 15%**
- **Social/Cultural/Economic Effects (SO), 3%**

Procedure for Generating a Score

- Work Package Scores
  - Based on two conditions
    - What are the impacts if the work <u>is not</u> performed?
      - Equals the before score
    - What are the impacts once the work is <u>finished</u>?
      - Equals the after score
  - Risk score is the sum of Net Benefit Scores for all the criteria

Procedure for Generating a Score

MEM Measures

<u>Risk Reduction</u> as

Work Package Benefit for

Each Impact Criterion

$$\Delta \text{ Net Benefit} = \text{Risk Score}_{(before)} - \text{Risk Score}_{(after)}$$

Procedure for Combining Scores

The summation of qualitative assessment values for all seven impact criteria yields the work package net value:

$$\text{MEM: } \triangle PS_x + \triangle SP_x + \triangle EN_x + \triangle CO_x + \triangle MI_x +$$

$$\triangle MR_x + \triangle SO_x = \text{Net Benefit Score}$$

Procedure for Combining Scores

Paducah example for Waste Area Groupings 1&7:

PS (1094) + SP (328) + EN (656) + CO (1181) + MI

(656) + SO (0) = 4571

Management Evaluation Matrix (MEM)

Sheet 1 of 2

LIKELIHOOD OF OCCURRENCE

IMPACTS	*A* ≤ 1 yr	*B* > 1 yr ≤ 10 yrs	*C* > 10 yrs ≤ 100 yrs	*D* > 100 yrs
	VERY HIGH	*HIGH*	*MEDIUM*	*LOW*
CATEGORY: PUBLIC SAFETY & HEALTH 25%				
(1) *PS1.* Immediate or eventual loss of life/permanent disability	*2500 H*	*1250 H*	*625 M*	*313 M*
(2) *PS2.* Excessive exposure and/or injury	*1250 H*	*625 M*	*313 M*	*156 L*
(3) *PS3.* Moderate to low-level exposure	*625 M*	*313 M*	*156 L*	*78 L*
CATEGORY: SITE PERSONNEL SAFETY & HEALTH 15%				
(4) *SP1.* Catastrophic - Injuries/illnesses involving permanent total disability, chronic or irreversible illnesses, extreme overexposure, or death	*1500 H*	*750 H*	*375 M*	*188 M*
(5) *SP2.* Critical - Injuries/illnesses resulting in permanent partial disability or temporary total disability > 3 months, or serious overexposure	750 H	375 M	188 M	94 L
(6) *SP3.* Marginal - Injuries/illnesses resulting in hospitalization, temporary, reversible illnesses with a variable but limited period of disability of < 3 months, slight overexposure, or exposure near limits (20-100%)	*375 M*	*188 M*	*94 L*	*47 L*
(7) *SP4.* Negligible - Injuries/illnesses not resulting in hospitalization, temporary reversible illnesses requiring minor supportive treatment, or exposures below 20% of limits	*188 M*	*94 L*	*47 L*	*23 L*
CATEGORY: ENVIRONMENTAL PROTECTION 15%				
(8)*EN1.* Catastrophic damage to the environment (widespread and long-term or irreversible effects)	*1500 H*	*750 H*	*375 M*	*188 M*
(9)*EN2.* Significant damage to the environment (widespread and short-term effects, or localized and long-term or irreversible effects)	*750 H*	*375 M*	*188 M*	*94 L*
(10)*EN3.* Minor to moderate damage to the environment (localized and short-term effects)	375 M	188 M	94 L	47 L

Use numbers in ( ) for ORO Scoring

ORO Specific Weights

IMPACTS	A ≤ 1 yr	B > 1yr ≤ 10yrs	C > 10 yrs ≤ 100 yrs	D > 100 yrs
	VERY HIGH	HIGH	MEDIUM	LOW
CATEGORY: COMPLIANCE 12%				
(11)CO1. Major noncompliance with Federal, state, or local laws; Enforcement Actions; or Compliance Agreements significant to ES&H and involving significant potential fines or penalties	1200 H	600 H	300 M	150 M
(12)CO2. Major noncompliance with Executive Orders; DOE Orders; or Secretary of Energy Directives (Notices or Guidance Memoranda) significant to ES&H and not involving significant potential fines and penalties	600 H	300 M	150 M	75 L
(13)CO3. Marginal noncompliance with Federal, State, Local Laws; Enforcement Actions; Compliance Agreements; Executive Orders; DOE Orders; or Secretary of Energy Directives significant to ES&H	300 M	150 M	75 L	38 L
(14)CO4. Significant deviation from good management practices	150 M	75 L	38 L	19 L
CATEGORY: MISSION IMPACT 15%				
(15)MI1. Serious negative impact on ability to accomplish major program mission	1500 H	750 H	375 M	188 M
(16)MI2. Moderate negative impact on ability to accomplish major program mission	750 H	375 M	188 M	94 L
CATEGORY: MORTGAGE REDUCTION 15%				
(17)MR1. Significant avoidable cost (today's dollars) due to degraded infrastructure, inefficient management systems or program implementation, accident-related capital loss, or operational expense (annual cost > 1% of annual site EM budget or > $5M)	1500 H	750 H	375 M	188 M
(18)MR2. Moderate avoidable cost (today's dollars) due to degraded infrastructure, inefficient management systems or program implementation, accident-related capital loss, or operational expense (annual cost .1-1% of annual site EM budget or $1-5M)	750 H	375 M	188 M	94 L
CATEGORY: SOCIAL/CULTURAL/ECONOMIC 3%				
(19)SO1. Significant adverse: Damage so severe to a social, economic, or cultural value, e.g., a Tribal burial ground, that no mitigation is possible, i.e., the value would be irrevocably lost.	300 H	150 H	75 M	38 M
(20)SO2. Moderate adverse: Damage the social/cultural/economic value. Mitigation may be possible, but would involve a considerable investment of time and money.	150 H	75 M	38 M	19 L

DOE-ORO Paducah FY 1999 Priority List Risk Scores
Sorted by Management Evaluation Matrix Net Score

Draft

FY 99 Rank	Subproject Title	Public S&H B/A	Public S&H HML	Public S&H NET	Site Personnel S&H B/A	Site Personnel S&H HML	Site Personnel S&H NET	Env. Protection B/A	Env. Protection HML	Env. Protection NET	MEM Risk Score	Compliance B/A	Compliance HML	Compliance NET	Mission B/A	Mission HML	Mission NET	Mortgage Reduction B/A	Mortgage Reduction HML	Mortgage Reduction NET	Social/Cult/Econ B/A	Social/Cult/Econ HML	Social/Cult/Econ NET	MEM Net Score
24	PAD Waste Management Treatment	3AD	M	547	4B7C	H	703	9AD	H	656	1906	11A14D	H	1181	15A16D	H	1406	17A18D	H	1406	19A20D	H	281	6180
39	PAD Waste Management Disposal	2B3D	M	547	5A7C	H	703	9A10C	H	656	1906	11A14D	H	1181	15A16D	H	1406	18AD	H	656	19AD	H	262	5412
76	PAD Waste Management Storage	2B3D	M	547	4B7C	H	703	9B10D	M	328	1578	11A13D	H	1162	15A16D	H	1406	18AD	H	656	19A20D	H	281	5083
80	Waste Area Grouping 22 (SWMUs 2&3/ Burial Grounds)	2A3C	H	1094	5A7C	H	703	9A10C	H	656	2453	11A14D	H	1181	15B16D	H	656	18AD	H	656	20DD	L	0	4946
83	Waste Area Grouping 22 (SWMUs 7&30/ Burial Grounds)	2A3C	H	1094	5A7C	H	703	9A10C	H	656	2453	11A14D	H	1181	15B16D	H	656	18AD	H	656	20DD	L	0	4946
84	Waste Area Grouping 6 (C-400/TCE Spills)	2A3C	H	1094	6A7C	M	328	9B10C	M	281	1703	11A14D	H	1181	15A16D	H	1406	18AD	H	656	20DD	L	0	4946
97	PAD Long Term Surveillance & Maintenance	2B3C	M	469	4B7C	H	703	9B10C	M	281	1453	11A14D	H	1181	15A16D	H	1406	18AD	H	656	20DD	L	0	4696
102	PAD Decommissioning Surveillance & Maintenance	2B3C	M	469	4B6C	H	656	9B10C	M	281	1406	11A14D	H	1181	15A16D	H	1406	18AD	H	656	20CD	L	19	4668
105	Waste Area Groupings 1 & 7	2A3C	H	1094	6A7C	M	328	9A10C	H	656	2078	11A14D	H	1181	15B16D	H	656	18AD	H	656	20DD	L	0	4571
121	Waste Area Grouping 27 (TCE Sources)	2A3C	H	1094	6A7C	M	328	9A10C	H	656	2078	11A14D	H	1181	15B16D	H	656	18BD	M	281	20DD	L	0	4196
124	Waste Area Grouping 23 (PCB sites)	2A3D	H	1172	6A7C	M	328	9A10C	H	656	2156	11A14D	H	1181	15B16D	H	656	NA	L	0	20DD	L	0	3993
126	Waste Area Grouping 28 (TCE Sources)	2A3C	H	1094	6A7C	M	328	9A10C	H	656	2078	11A14D	H	1181	15B16D	H	656	NA	L	0	20DD	L	0	3915
131	PAD Well Sampling	3BD	M	235	6A7C	M	328	10BC	M	94	657	11A14D	H	1181	15A16D	H	1406	18AD	H	656	20DD	L	0	3900
133	PAD Groundwater Operable Unit	2A3A	H	625	6A7C	M	328	9B10C	M	281	1234	11A14D	H	1181	15A16D	H	1406	NA	L	0	20DD	L	0	3821
146	Waste Area Grouping 3 (Burial Grounds)	2A3C	H	1094	5A7C	H	703	9B10C	M	281	2078	11A14D	H	1181	16DD	L	0	NA	L	0	20DD	L	0	3259
150	Lasagna (SWMU 91)	2A3C	H	1094	6A7C	M	328	9A10C	H	656	2078	14BD	L	56	15B16D	H	656	NA	L	0	20DD	L	0	2790
162	Waste Area Grouping 16	2C3D	M	235	6A7C	M	328	10AC	M	281	844	11A14D	H	1181	16DD	L	0	NA	L	0	20DD	L	0	2025
163	Waste Area Grouping 19	2C3D	M	235	6A7C	M	328	10AC	M	281	844	11A14D	H	1181	16DD	L	0	NA	L	0	20DD	L	0	2025
164	Waste Area Grouping 11	3CD	L	78	6A7C	M	328	10DD	L	0	406	11A14D	H	1181	16DD	L	0	18BD	M	281	20DD	L	0	1868
165	Waste Area Grouping 8	3CD	L	78	6A7C	M	328	10DD	L	0	406	11A14D	H	1181	16DD	L	0	NA	L	0	20DD	L	0	1587
166	Waste Area Grouping 9	3CD	L	78	6A7C	M	328	10DD	L	0	406	11A14D	H	1181	16DD	L	0	NA	L	0	20DD	L	0	1587
169	PAD SSAB	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

DOE-ORO Environmental Management FY 1998 Funding Profile ($6.0 Case)

(**Sorted by MEM Net Score**)

Final Draft

Last Scoring Review 7/25/97

ACP[1] OPTZ[2] Rank	EM Office	Site	Subproject Title	FY98 Budget Request ($1,000)	FY98 Cummulative	MEM[3] Risk Score	MEM Net Score
2	40	ORR	Environmental Mgt. Waste Management Facility	938	938	3203	7327
4	40	X-10	Melton Valley Watershed Record of Decision	864	1,802	2828	7102
5	40	X-10	Bethel Valley Watershed Record of Decision	2,136	3,937	2828	7102
6	40	Y-12	Bear Creek Valley Watershed ROD	2,069	6,006	2828	6877
8	40	X-10	Molten Salt Reactor Experiment Remediation	20,447	26,453	2594	6587
9	40	X-10	Gunite and Associated Tanks	9,153	35,606	2406	6418
10	40	K-25	East Tennessee Technology Park Record of Decision	1,499	37,105	2078	6352
11	40	Y-12	UEFPC Watershed ROD	5,063	42,168	2078	6352
14	30	CENT	Central MW Disposal Services	2,121	44,289	1906	6180
15	30	CENT	Central MW Treatment Services	5,372	49,661	1906	6180
17	30	CENT	ORR MW Disposal	4,974	54,635	1906	6180
18	30	Y-12	Private Sector Mixed Sludges (WETF Sludge)	5,100	59,735	1906	6180
19	30	CENT	ORR MLLW General Plant Projects	400	60,135	1906	6180
20	30	K-25	K-25 MW Disposal Services	200	60,335	1906	6180
21	30	K-25	K-25 MW Treatment Services	948	61,283	1906	6180
22	30	CENT	ORR On-Site Treatment	270	61,553	1906	6180
24	30	CENT	ORR Private Sector - Treatment Act	650	62,203	1906	6180
25	30	CENT	ORR Private Sector - Broad Spec.(RCRA BOI)	4,100	66,303	1906	6180
26	30	X-10	ORNL MW Disposal Services	11	66,314	1906	6180
27	30	X-10	ORNL MW Treatment Services	11	66,325	1906	6180
28	30	K-25	K-25 MW Treatment/Disposal	477	66,802	1906	6180
29	30	K-25	K-25 MW Treatment/Disposal	300	67,102	1906	6180
30	30	Y-12	Y-12 MW Disposal Services	75	67,177	1906	6180
31	30	Y-12	Y-12 MW Treatment Services	1,096	68,273	1906	6180
32	40	PAD	PAD Waste Management Treatment - ITO	4,656	72,929	1906	6180

Notes 1. ACP=Accelerated Cleanup Plan
2. OPTZ=Optimized (all MEM Categories)
3. MEM=Management Evaluation Matrix

98FUND11.XLS

DOE-ORO Environmental Management FY 1999 Priority List

****Sorted by MEM Net Score****

FY 99 Rank	EM Office	Site	Subproject Title	$6.0B Case	$5.5B Case	$5.0B Case	Apr. Acct[1]	MEM Risk Score	MEM Mortg. Reduction Score	MEM[2] Net Score	Impact of $5.0 Funding Level/ Advantage of $6.0 Plus Funding Level on Affected Data Element
1	40	WSS	Weldon Spring Waste Management	24,477	17,434	13,772	N	3281	1406	7555	No operation of TSA, MSA, Quarry Water Treatment Plant, Site Water Treatment Plant. Work will continue on Quarry Residuals FS, GW ROD will be completed, const. and waste placement will continue at disposal facility.
2	40	X-10	Melton Valley Watershed Record of Decision	257	257	257	D	2828	1406	7102	
3	40	X-10	Bethel Valley Watershed Record of Decision	632	632	632	D	2828	1406	7102	
4	40	Y-12	Bear Creek Valley Watershed ROD	2,116	2,116	2,116	D	2828	1406	6877	
5	40	WSS	Weldon Spring Disposal Facility	43,023	43,023	36,878	N	2500	1406	6774	Defers availability of disposal cell, extends WSSRAP by 2-3 years.
6	40	X-10	Molten Salt Reactor Experiment Remediation	19,535	19,535	19,535	D	2594	1406	6587	
7	40	X-10	Gunite and Associated Tanks	7,518	7,518	7,518	D	2406	1406	6418	
8	40	K-25	East Tennessee Technology Park Record of Decision	948	948	948	F	2078	1406	6352	
9	40	Y-12	UEFPC Watershed ROD	3,410	3,410	3,410	D	2078	1406	6352	
10	30	CENT	Central MW Disposal Services	2,390	2,390	2,390	D	1906	1406	6180	
11	30	CENT	Central MW Treatment Services	5,664	5,664	5,664	D	1906	1406	6180	
12	30	CENT	ORR MW Disposal	3,528	3,528	3,528	D	1906	1406	6180	
13	30	Y-12	Private Sector Mixed Sludges (WETF Sludge)	2,504	2,504	2,504	D	1906	1406	6180	
14	30	K-25	K-25 MW Treatment Services	1,060	1,060	1,060	D	1906	1406	6180	
15	30	CENT	ORR On-Site Treatment	302	302	302	D	1906	1406	6180	
16	30	CENT	ORR Private Sector - Broad Spec.(RCRA BOI)	18,881	1,342	1,342	D	1906	1406	6180	If this project is not funded, Mixed Waste Inventory Workoff will be delayed resulting in increased lifecycle cost and time delays in reaching steady state.
17	30	X-10	ORNL MW Disposal Services	12	12	12	D	1906	1406	6180	
18	30	X-10	ORNL MW Treatment Services	12	12	12	D	1906	1406	6180	
19	30	K-25	K-25 MW Treatment	272	272	272	D	1906	1406	6180	
20	30	Y-12	Y-12 MW Disposal Services	84	84	84	D	1906	1406	6180	
21	30	Y-12	Y-12 MW Treatment Services	1,226	1,226	1,226	D	1906	1406	6180	
22	30	K-25	K-25 MW Disposal	180	180	180	D	1906	1406	6180	
23	30	CENT	ORR MLLW General Plant Projects	750	0	0	D	1906	1406	6180	If these General Plant Projects are not funded, the infrastructure of storage, treatment, and disposal facilities will not be maintained in a manner to assure continuous operation as required in the permits for these facilities.
24	40	PAD	PAD Waste Management Treatment	10,550	5,520	4,519	F	1906	1406	6180	Delays VORTEC to FY2008, noncompliance with STP.
25	40	PORTS	PORTS Waste Management Treatment	12,501	11,840	10,194	F	1906	1406	6180	Site Treatment Plan milestones as negotiated with the regulators will be unachievable. NOVs, fines and penalties are likely. New regulatory dates will have to be negotiated. Overall completion of WM TSD will be delayed, program costs will increase.
26	30	CENT	ORR Private Sector - Treatment Act	327	327	327	D	1906	1406	6180	
27	30	X-10	MVST Capacity Increase	151	151	151	D	1906	1406	6161	
28	30	K-25	CNF Operations	5,399	5,399	5,399	D	1906	1406	6161	
29	30	K-25	TSCA Ops	20,933	20,933	13,101	D	1906	1406	6161	The program will be required to shutdown the incinerator in FY2000. If this occurs an alternative private sector alternative will be required to treat the incinerables. At this time there is no other known treatment source.
30	30	CENT	TRU Waste Treatment Support	5,866	5,866	5,866	D	1859	1406	6133	
31	40	Y-12	Bear Creek Valley Tributary Interception	2,548	2,548	2,548	D	2078	1406	6127	
32	40	Off-site	LEFPC Watershed Record of Decision	669	669	669	D	2500	656	6024	

Notes: 1. N=Non Defense, D=Defense, F=D &D Fund
2. MEM=Management Evaluation Matrix

Environmental Management Process for Sequencing Activities

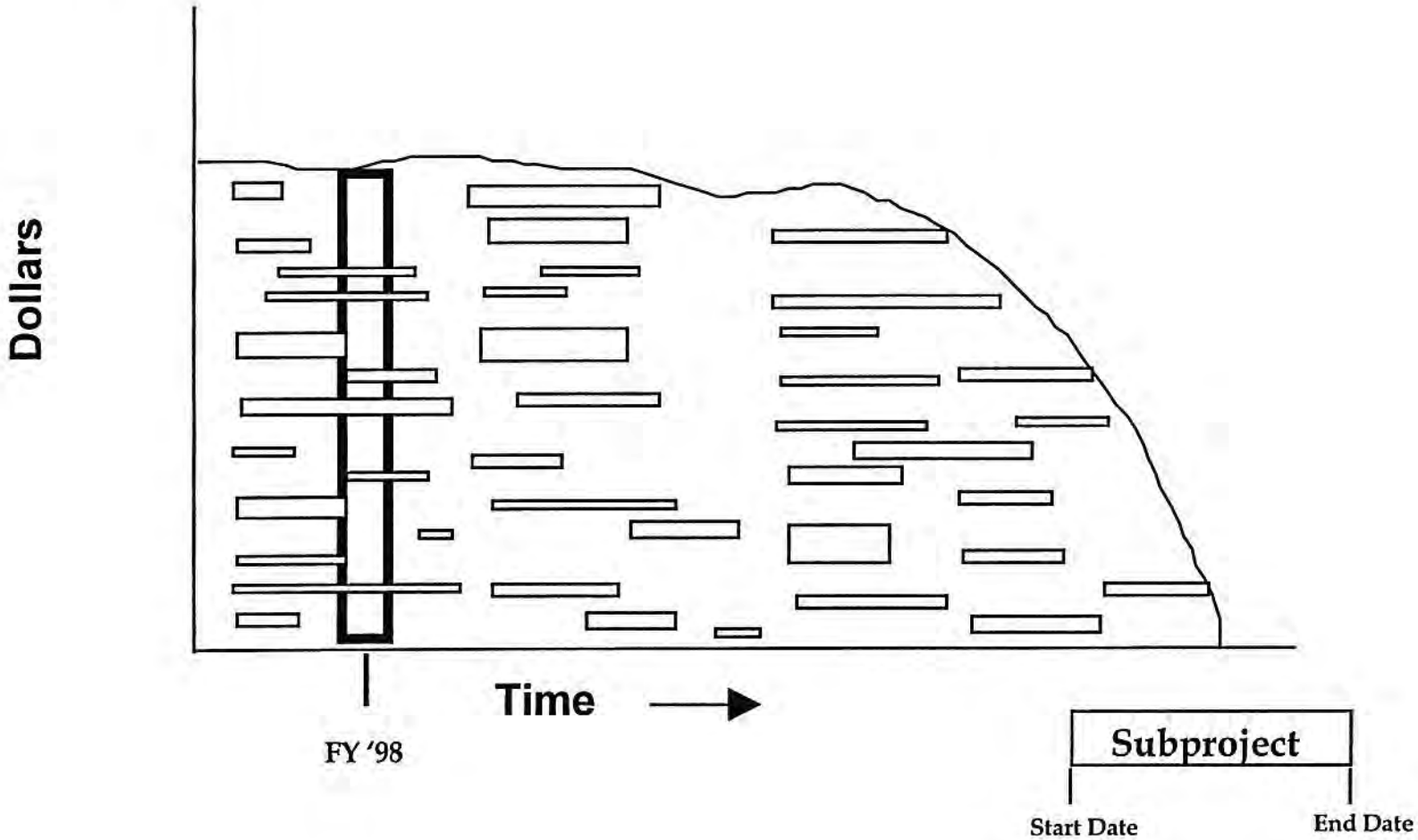
- Overview of process for sequencing subprojects for the Accelerated Cleanup Plan
- Schedule

Environmental Management: Prioritization and Sequencing

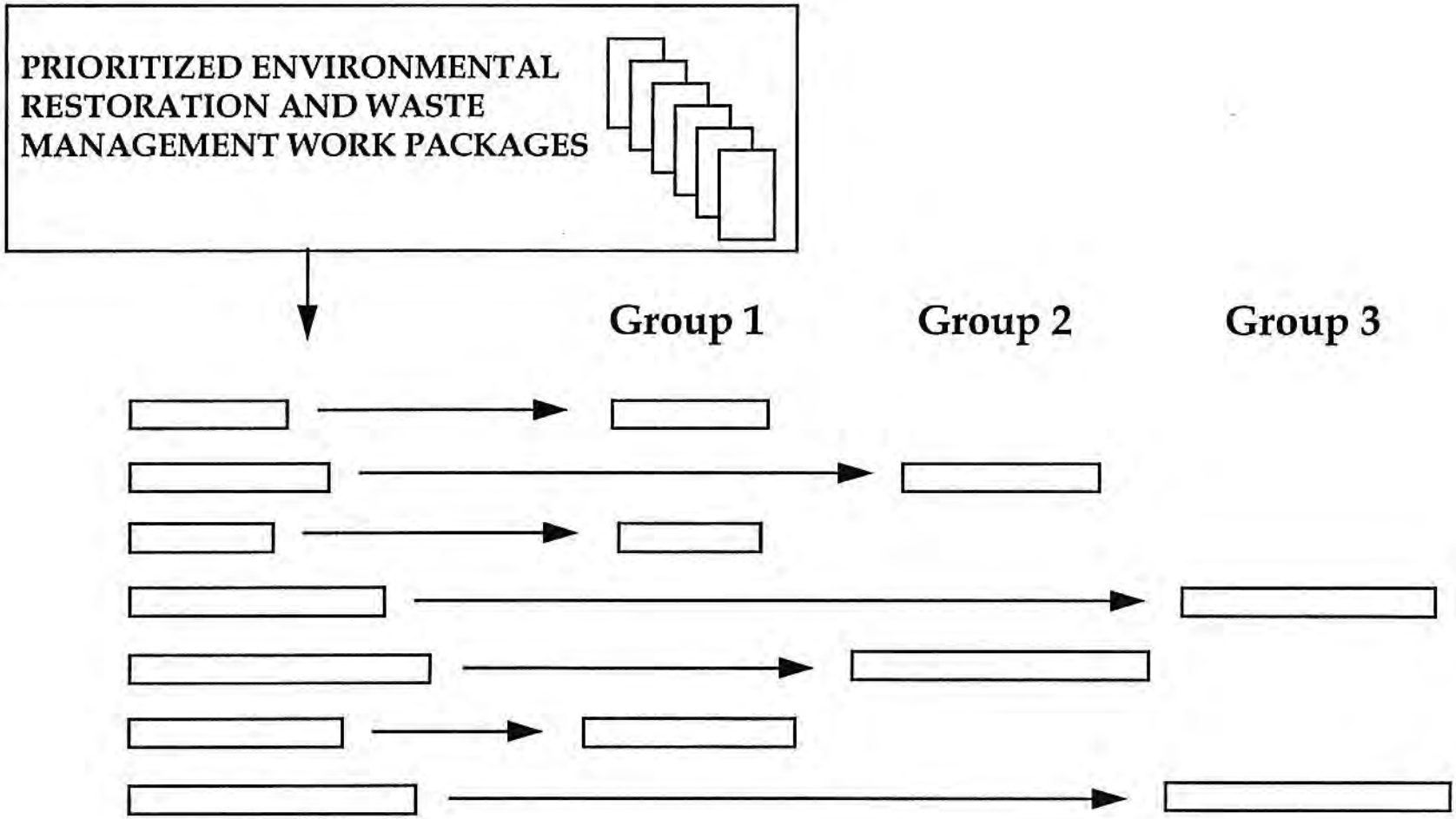
Change in Focus

- **Prioritization -**
  - **Primary focus on fiscal year funding profile**
- **Accelerated Cleanup Plan Sequencing -**
  - **Looks at impacts both to fiscal year and life cycle**

Environmental Management Process for Sequencing Activities



Environmental Management Process for Sequencing Activities



Environmental Management Process for Sequencing Activities

Group 1 Criteria

- **Activities that have a high risk reduction score (safety, health, environment)**

  Examples: WAGs 22, 23 & 6, Drum Mtn (UF_4) Removal
- **Activities that have a high mortgage reduction score**

  Examples: NE & NW Plumes, Waste Treatment & Disposal
- **Activities that are on-going or show considerable Program progress**

  Examples: Lasagna, NE/NW Plumes, Permitted Landfill
- **Activities that are needed to complete the rest of the Program**

  Examples: Scrap Removal/WAG 24

Environmental Management Process for Sequencing Activities

Group 2 Criteria

- **Activities that have a moderate risk reduction score**

  Examples: Waste Storage

- **Activities that fall into a logical sequencing of the Program**

  Examples: Sources cleaned up before groundwater, deactivation before D&D, treatment before disposal

- **Activities that show measurable progress**

  Examples: Legacy waste disposal, site-clean-up

Environmental Management Process for Sequencing Activities

Group 3 Criteria

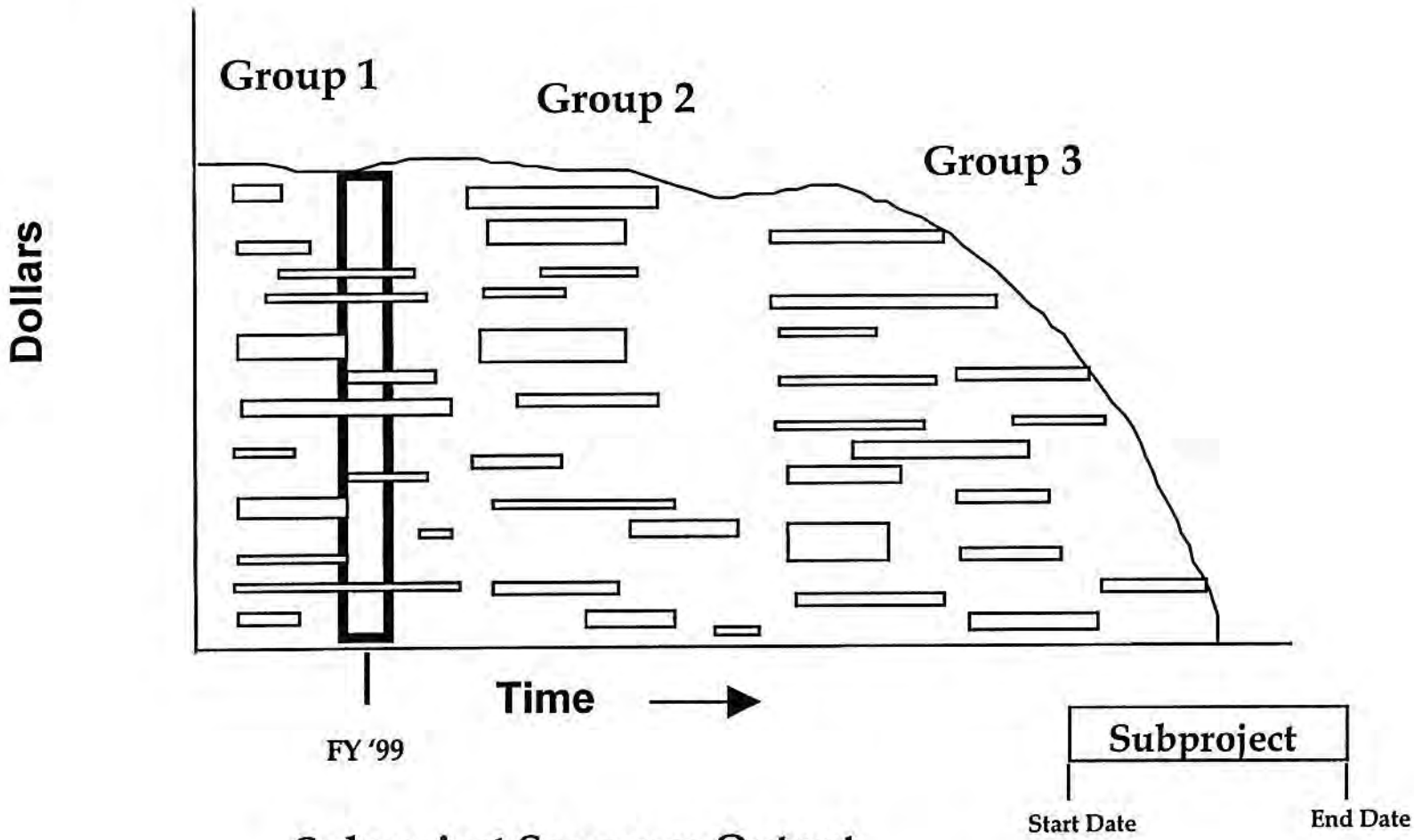
- **Activities that have a low risk reduction score**

  Examples: WAGs 15, 16, 19
- **Minimal institutional control required to maintain low risk & low liability**
- **Unable to be complete due to lack of technology**

  Examples: WAG6 (DNAPL Spill)
- **Activity dependent on completion of other activities**

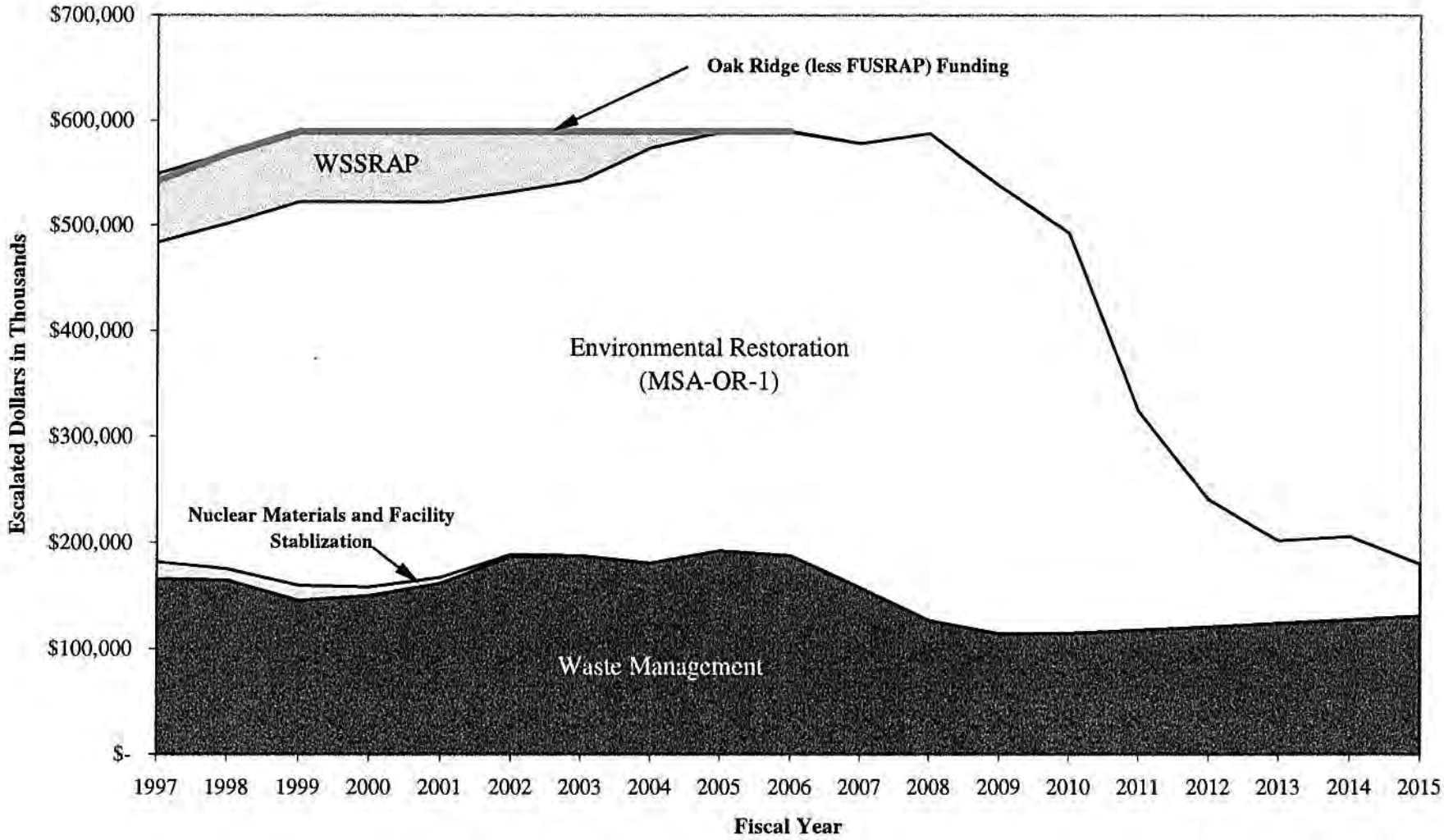
  Examples: Final actions for WAG 26 (groundwater) - Need to address contributing sources.

Environmental Management Subproject Profile



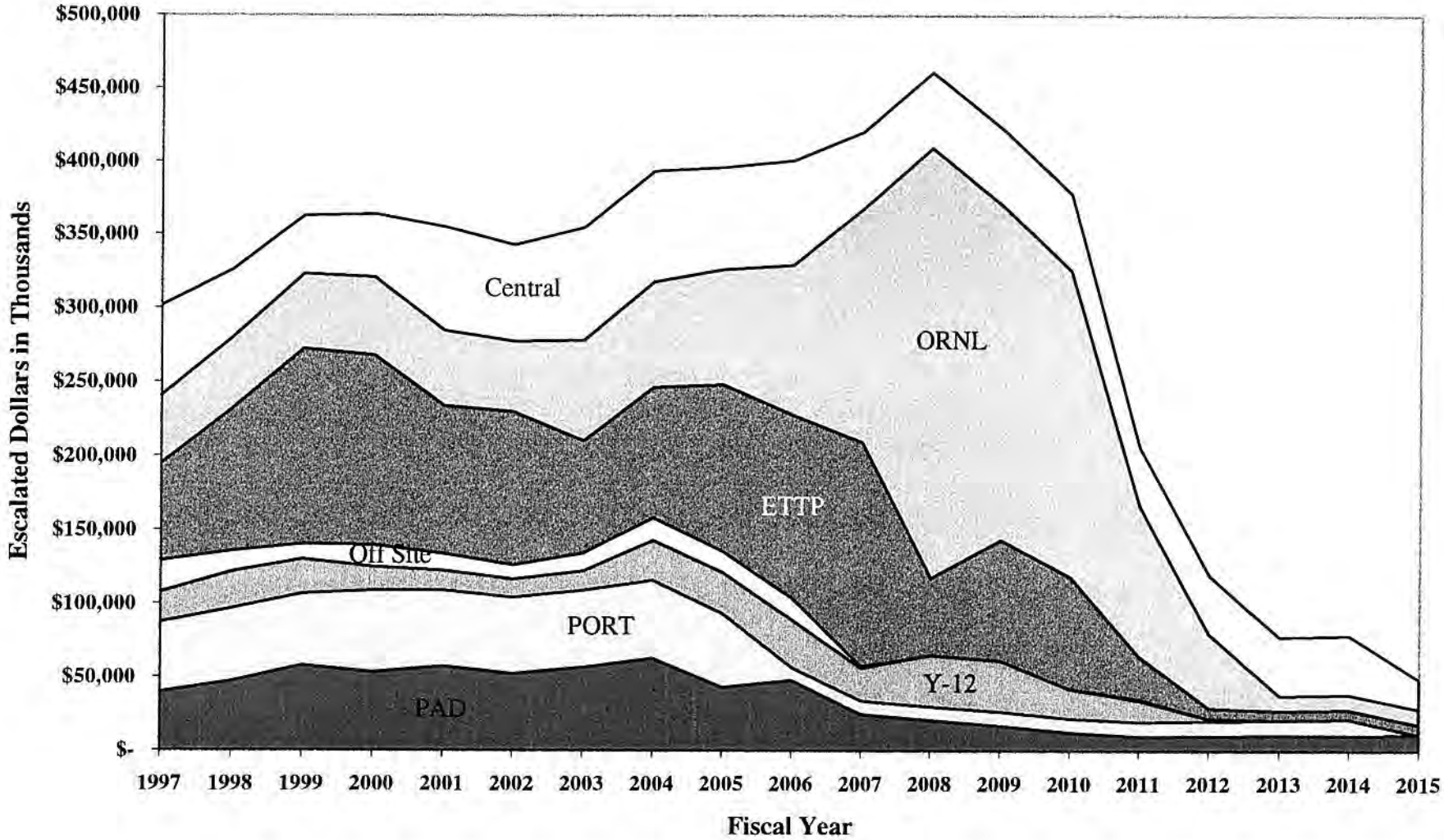
Subproject Sequence Output

Oak Ridge (less FUSRAP) Environmental Management
Accelerating the Cleanup Plan - $6.0B Case

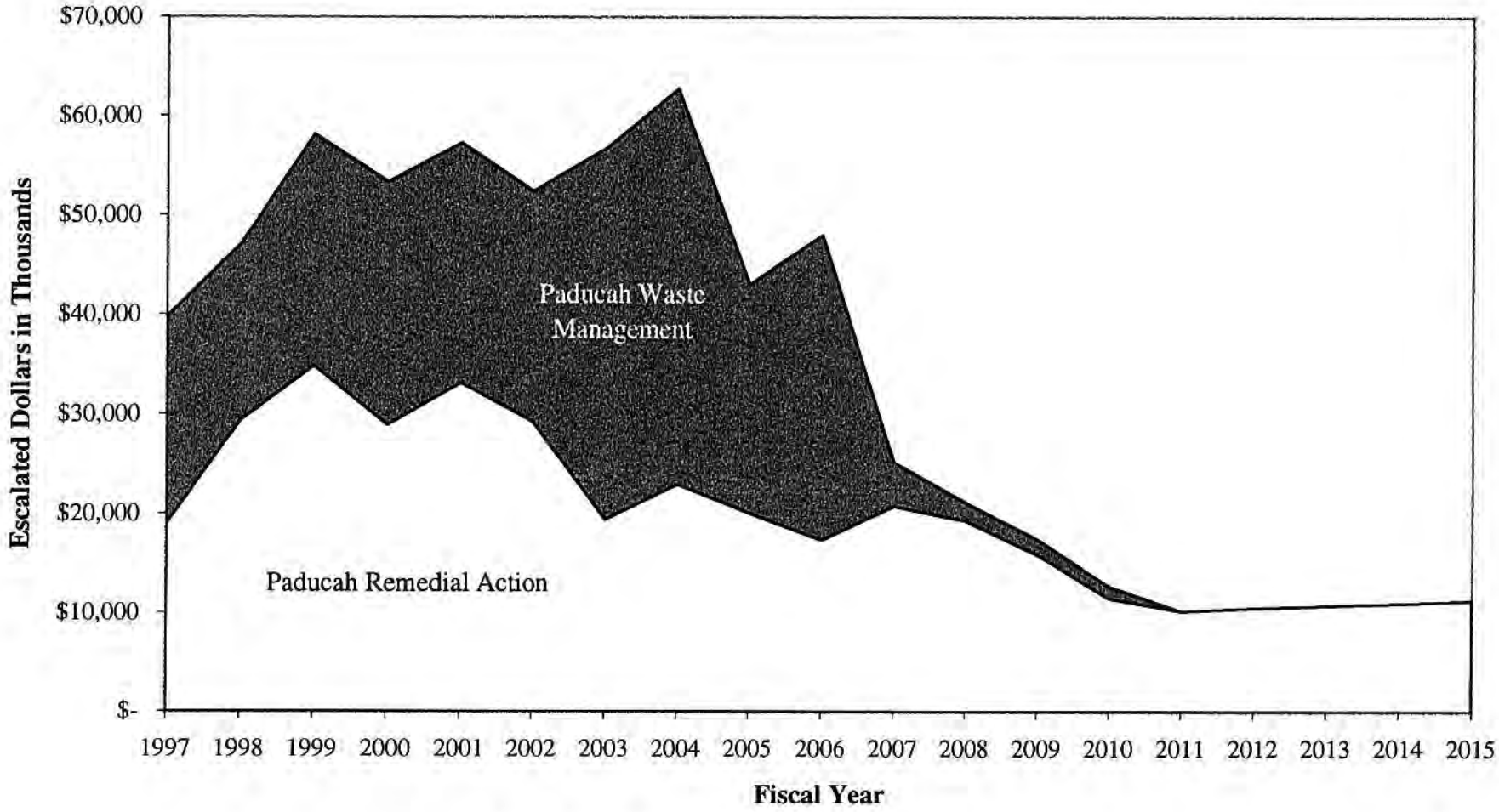


Oak Ridge Environmental Restoration (MSA-OR-1)
Accelerating the Cleanup Plan - $6.0B Case

EM-40



Oak Ridge Environmental Restoration
Accelerating the Cleanup Plan $6.0B Case
Paducah Site



811acp60final.xls Paducah Cht

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Data as of August 1, 1997

Events that Can Affect the Sequence of the Accelerated Cleanup Plan Subprojects

- Regulator Interactions
- FFA Managers Decisions
- Public Interactions
- Funding Changes
- Scope Changes
- End State Planning
- Record of Decision
  - Remedy Selection

DOE-ORO Environmental Management FY 1998 Funding Profile ($6.0 Case)

(**Sorted by MEM Net Score**)

Last Scoring Review 7/25/97

Final Draft

ACP[1] OPTZ[2] Rank	EM Office	Site	Subproject Title	FY98 Budget Request ($1,000)	FY98 Cummulative	MEM[3] Risk Score	MEM Net Score
2	40	ORR	Environmental Mgt. Waste Management Facility	938	938	3203	7327
4	40	X-10	Melton Valley Watershed Record of Decision	864	1,802	2828	7102
5	40	X-10	Bethel Valley Watershed Record of Decision	2,136	3,937	2828	7102
6	40	Y-12	Bear Creek Valley Watershed ROD	2,069	6,006	2828	6877
8	40	X-10	Molten Salt Reactor Experiment Remediation	20,447	26,453	2594	6587
9	40	X-10	Gunite and Associated Tanks	9,153	35,606	2406	6418
10	40	K-25	East Tennessee Technology Park Record of Decision	1,499	37,105	2078	6352
11	40	Y-12	UEFPC Watershed ROD	5,063	42,168	2078	6352
14	30	CENT	Central MW Disposal Services	2,121	44,289	1906	6180
15	30	CENT	Central MW Treatment Services	5,372	49,661	1906	6180
17	30	CENT	ORR MW Disposal	4,974	54,635	1906	6180
18	30	Y-12	Private Sector Mixed Sludges (WETF Sludge)	5,100	59,735	1906	6180
19	30	CENT	ORR MLLW General Plant Projects	400	60,135	1906	6180
20	30	K-25	K-25 MW Disposal Services	200	60,335	1906	6180
21	30	K-25	K-25 MW Treatment Services	948	61,283	1906	6180
22	30	CENT	ORR On-Site Treatment	270	61,553	1906	6180
24	30	CENT	ORR Private Sector - Treatment Act	650	62,203	1906	6180
25	30	CENT	ORR Private Sector - Broad Spec.(RCRA BOI)	4,100	66,303	1906	6180
26	30	X-10	ORNL MW Disposal Services	11	66,314	1906	6180
27	30	X-10	ORNL MW Treatment Services	11	66,325	1906	6180
28	30	K-25	K-25 MW Treatment/Disposal	477	66,802	1906	6180
29	30	K-25	K-25 MW Treatment/Disposal	300	67,102	1906	6180
30	30	Y-12	Y-12 MW Disposal Services	75	67,177	1906	6180
31	30	Y-12	Y-12 MW Treatment Services	1,096	68,273	1906	6180
32	40	PAD	PAD Waste Management Treatment - ITO	4,656	72,929	1906	6180

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98FUND11.XLS

DOE-ORO Environmental Management FY 1998 Funding Profile ($6.0 Case)
(**Sorted by MEM Net Score**)

Final Draft

Last Scoring Review 7/25/97

ACP[1] OPTZ[2] Rank	EM Office	Site	Subproject Title	FY98 Budget Request ($1,000)	FY98 Cummulative	MEM[3] Risk Score	MEM Net Score
33	40	PORTS	PORTS Waste Management-Treatment	7,076	80,006	1906	6180
34	30	X-10	MVST Capacity Increase	1,354	81,360	1906	6161
35	30	K-25	CNF Operations	5,058	86,418	1906	6161
36	30	K-25	TSCA Ops	20,672	107,090	1906	6161
37	30	CENT	TRU Waste Treatment Support	7,261	114,351	1859	6133
39	40	Y-12	Bear Creek Valley Tributary Interception	832	115,183	2078	6127
40	40	Off-site	LEFPC Watershed Record of Decision	1,441	116,624	2500	6024
42	30	CENT	Central MW Storage Services	906	117,530	1531	5805
43	40	Y-12	Reduction of Mercury in Plant Effluents	4,774	122,304	2828	5696
46	30	Y-12	Landfill V - LI	3,860	126,164	1906	5413
47	30	CENT	Central San/Ind Disposal Services	310	126,474	1906	5413
48	30	CENT	ORR Special Projects/Sewage Sludge	212	126,686	1906	5413
49	30	Y-12	Landfill Operation/Baler	5,500	132,186	1906	5413
51	30	Y-12	Y-12 San/Ind Disposal Services	216	132,402	1906	5412
52	40	PAD	PAD Waste Management Disposal - ITO	75	132,477	1906	5412
53	30	X-10	LLLW Evaporator Concentrate	500	132,977	1906	5412
54	30	X-10	LLLW Routine Operations	5,147	138,124	1906	5412
55	30	X-10	ORNL Rad Liquid/Gaseous Waste Operations	9,280	147,404	1906	5412
56	30	X-10	LLW General Plant Projects	500	147,904	1906	5412
57	30	X-10	ORNL LLW Treatment Services	394	148,298	1906	5412
59	30	X-10	ND-Melton Valley LLLW-CAT LI Support	135	148,433	1906	5412
60	30	X-10	ND-REDC Pretreat	2,000	150,433	1906	5412
62	30	CENT	Central TRU Storage Services	126	150,559	1906	5411
63	30	X-10	ORNL TRU Storage Services	461	151,020	1906	5411
64	30	X-10	TRU Storage Operations	1,162	152,182	1906	5411

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DOE-ORO Environmental Management FY 1998 Funding Profile ($6.0 Case)

(**Sorted by MEM Net Score**)

Last Scoring Review 7/25/97

Final Draft

ACP[1] OPTZ[2] Rank	EM Office	Site	Subproject Title	FY98 Budget Request ($1,000)	FY98 Cummulative	MEM[3] Risk Score	MEM Net Score
65	40	PORTS	PORTS Waste Management-Disposal	6,232	158,414	1906	5411
66	40	PORTS	X-701B Area	2,361	160,775	2078	5377
68	40	K-25	East Tennessee Technology Park Ponds	5,846	166,621	2078	5321
69	40	PORTS	X-749/120 Area	265	166,886	2078	5321
71	30	CENT	ORR LLW Volume Reduction (SEG)	500	167,386	1578	5233
72	30	Y-12	UCOF	850	168,236	1578	5233
73	30	Y-12	Y-12 LLW Treatment Services	259	168,495	1578	5233
74	30	CENT	Central LLW Treatment Services	701	169,196	1578	5233
75	30	K-25	K-25 LLW Treatment Services	350	169,546	1578	5233
79	30	X-10	FFA LLW Tank Compliance	4,500	174,046	1641	5165
80	40	ORR	Footprint Reduction/ Site Evaluations	1,350	175,396	2125	5105
82	30	Y-12	WETF	5,300	180,696	1578	5102
84	40	K-25	KAFAD Group I Building Demolition	4,000	184,696	2977	5095
85	30	X-10	Hazardous Storage Operations	375	185,071	1578	5085
86	30	K-25	Fissile Storage Unit Operations	331	185,402	1578	5085
87	30	K-25	Fissile Storage Unit Operations	331	185,733	1578	5085
88	30	K-25	K-25 HAZ Disposal Services	221	185,954	1578	5084
90	30	CENT	ORR HW Treatment/Disposal	815	186,769	1578	5084
91	30	X-10	ORNL HAZ Disposal Services	865	187,634	1578	5084
92	30	Y-12	Y-12 Haz Disposal Services	135	187,769	1578	5084
93	30	CENT	Central HAZ Disposal Services	669	188,438	1578	5084
94	30	Y-12	Mixed Waste Storage Ops	5,390	193,828	1578	5084
95	30	Y-12	Y-12 MW Storage Services	1,481	195,309	1578	5084
96	30	X-10	MW Storage Operations	2,428	197,737	1578	5084
97	30	X-10	ORNL MW Storage Services	2,296	200,033	1578	5084

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DOE-ORO Environmental Management FY 1998 Funding Profile ($6.0 Case)

(**Sorted by MEM Net Score**)

Last Scoring Review 7/25/97

Final Draft

ACP[1] OPTZ[2] Rank	EM Office	Site	Subproject Title	FY98 Budget Request ($1,000)	FY98 Cummulative	MEM[3] Risk Score	MEM Net Score
99	30	K-25	K-25 MW Storage Services	2,862	202,895	1578	5083
100	30	K-25	RCRA/Mixed/TSCA Storage	5,000	207,895	1578	5083
101	40	PAD	PAD Waste Management Storage - ITO	7,546	215,441	1578	5083
102	40	PORTS	PORTS Waste Management-Storage	10,204	225,645	1578	5083
105	40	Y-12	Bear Creek Valley SW/GW Diversion Trenches	888	226,533	2828	5002
107	40	PAD	Waste Area Group 22 (SWMUs 2&3/ Burial Grounds)	2,574	229,107	2453	4946
108	40	PORTS	PORTS Groundwater Demonstration	781	229,887	2078	4946
109	40	PORTS	PORTS Groundwater Protection	8,232	238,119	2078	4946
110	40	PAD	Waste Area Group 22 (SWMUs 7&30/ Burial Grounds)	2,356	240,475	2453	4946
111	40	PAD	Waste Area Grouping 6 (C-400/TCE Spills)	2,611	243,086	1703	4946
112	40	K-25	Deposit Removal	5,849	248,934	1484	4877
113	40	PORTS	Quadrant I Assessments	739	249,673	2828	4815
114	40	PORTS	Quadrant III Assessments	215	249,888	2828	4815
115	40	PORTS	Sitewide Surface Drainage	2,695	252,583	2156	4743
116	40	PORTS	7-Unit Area	354	252,937	2078	4721
118	40	K-25	ETTP Remedial Action Surveillance & Maintenance	922	253,859	1453	4716
122	40	X-10	ORNL Remedial Action Surveillance & Maintenance	3,664	257,523	1453	4715
124	40	Y-12	Y-12 Long Term S & M	1,083	258,607	1453	4715
125	40	Y-12	Y-12 Remedial Action S&M (97-98 ITO)	1,832	260,439	1453	4715
125.1	40	Y-12	Y-12 Remedial Action Surveillance & Maintenance	2,932	263,371	1453	4715
126	40	X-10	Old Hydrofracture Facility Pond/Tank Remediation	554	263,924	2156	4705
127	40	X-10	OHF Tank Sludges Removal	1,975	265,900	2156	4705
129	40	PAD	PAD Long Term Surveillance & Maintenance	3,919	269,818	1453	4696
130	40	PAD	PAD Remedial Action Surveillance & Maintenance	1,156	270,974	1453	4696
131	40	X-10	ORNL Main Plant Surface Impoundments	3,449	274,423	2125	4674

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DOE-ORO Environmental Management FY 1998 Funding Profile ($6.0 Case)
(**Sorted by MEM Net Score**)

Last Scoring Review 7/25/97

Final Draft

ACP[1] OPTZ[2] Rank	EM Office	Site	Subproject Title	FY98 Budget Request ($1,000)	FY98 Cummulative	MEM[3] Risk Score	MEM Net Score
132	40	K-25	ETTP Decommissioning Surveillance & Maintenance	23,411	297,834	1406	4668
133	40	K-25	East Tennessee Technology Park Landlord Program	14,361	312,195	1406	4668
134	40	X-10	ORNL Decommissioning Surveillance & Maintenance	3,982	316,177	1406	4668
135	40	PAD	PAD Decommissioning Surveillance & Maintenance	1,302	317,479	1406	4668
136	40	Y-12	Y-12 Decommissioning S&M (97-98 ITO)	1,037	318,516	1406	4668
136.1	40	Y-12	Y-12 Decommissioning Surveillance & Maintenance	1,478	319,994	1406	4668
137	40	PORTS	5-Unit Area	103	320,096	2078	4646
138	40	PAD	Waste Area Groupings 1 & 7	420	320,516	2078	4571
139	30	Y-12	CPCF Operation	1,727	322,243	1031	4555
140	30	Y-12	CPCF Upgrades	700	322,943	1031	4555
141	30	Y-12	LLW Storage Ops	500	323,443	1578	4483
142	30	Y-12	Y-12 LLW Storage Services	946	324,389	1578	4483
143	30	K-25	K-25 LLW Storage Services	1,991	326,380	1578	4483
144	30	K-25	LLW Storage Operations	1,676	328,056	1578	4483
145	30	X-10	ORNL LLW Storage Services	1,537	329,593	1578	4483
146	30	CENT	Central LLW Storage Services	1,095	330,688	1578	4483
147	30	X-10	LLW Storage	2,375	333,063	1578	4483
148	30	X-10	SLLW SWSA Operations (IMWF)	1,930	334,993	1578	4483
150	40	ORR	ORR Integrated Water Quality Program	6,281	341,274	2359	4365
153	40	Off-site	David Witherspoon, Inc. 1630 Site	3,013	344,287	2180	4298
154	40	Off-site	David Witherspoon, Inc. 901 Site	1,510	345,797	2180	4298
155	40	K-25	K-1070-A Contaminated Burial Ground	504	346,302	2453	4290
156	40	K-25	K-1070-C/D G Pit and Concrete Pad	2,444	348,746	2453	4290
157	30	X-10	ND-Bethel Valley FFA LI	2,035	350,781	1531	4286
157.1	30	X-10	ND-Bethel Valley FFA LI	180	350,961	1531	4286

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DOE-ORO Environmental Management FY 1998 Funding Profile ($6.0 Case)

(**Sorted by MEM Net Score**)

Last Scoring Review 7/25/97

Final Draft

ACP[1] OPTZ[2] Rank	EM Office	Site	Subproject Title	FY98 Budget Request ($1,000)	FY98 Cummulative	MEM[3] Risk Score	MEM Net Score
158	40	Off-site	Atomic City Auto Parts	1,217	352,179	2102	4220
159	40	PAD	Waste Area Grouping 27 (TCE Sources)	3,261	355,440	2078	4196
161	40	PORTS	Quadrant II Assessments	994	356,434	2078	4065
162	40	PORTS	Quadrant IV Assessments	429	356,863	2078	4065
163	40	PAD	Waste Area Group 23 (PCB sites)	3,363	360,225	2156	3993
165	40	X-10	Corehole 8 Plume Source	545	360,770	1453	3946
166	40	PAD	Waste Area Grouping 28 (TCE Sources)	2,645	363,415	2078	3915
167	40	K-25	K-1070-C/D and Mitchell Branch Plumes	3,755	367,170	2078	3915
169	40	K-25	K-1401 and K-1420 Sumps	773	367,943	2078	3915
172	40	PORTS	Peter Kiewit Landfill	5,036	372,979	2078	3915
173	30	Y-12	GWTF	1,083	374,062	1531	3911
174	30	Y-12	LSF Operations	883	374,945	1531	3911
175	40	PAD	PAD Well Sampling	2,237	377,182	657	3900
176	40	K-25	Stabilized Pond Waste Disposal	3,300	380,482	1180	3823
177	40	PAD	PAD Groundwater Operable Unit	600	381,082	1234	3821
178	30	CENT	Central LLW Disposal Services	803	381,885	1531	3800
179	30	CENT	NTS LLW	100	381,985	1531	3799
180	30	CENT	ORR Commercial/NTS Disposal	2,000	383,985	1531	3799
180.1	30	CENT	ORR Commercial/NTS Disposal	100	384,085	1531	3799
181	30	K-25	K-25 LLW Disposal Services	300	384,385	1531	3799
182	30	X-10	ORNL LLW Disposal Services	1,817	386,202	1531	3799
183	30	Y-12	Y-12 LLW Disposal Services	725	386,927	1531	3799
185	40	K-25	Process Equipment D&D (K-29, K-31, & K-33)	22,000	408,927	852	3795
188	40	PORTS	PORTS Sitewide D&D Surveillance & Maintenance	114	409,042	1031	3730
191	40	K-25	Unstabilized Pond Waste TSD	3,700	412,742	1180	3673

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DOE-ORO Environmental Management FY 1998 Funding Profile ($6.0 Case)

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Last Scoring Review 7/25/97

Final Draft

ACP[1] OPTZ[2] Rank	EM Office	Site	Subproject Title	FY98 Budget Request ($1,000)	FY98 Cummulative	MEM[3] Risk Score	MEM Net Score
193	60	EM60	Isotope Facilities Deactivation Program	4,747	417,489	1500	3637
197	40	Y-12	UEFPC East End DNAPL Plume	1,529	419,018	1203	3377
198	60	EM60	National Spent Fuel Program	2,021	421,039	1266	3290
199	40	PAD	Waste Area Grouping 3 (Burial Grounds)	871	421,910	2078	3259
201	40	PORTS	Supplemental Environmental Project (SEP)	300	422,211	1391	3134
213	40	K-25	K-1417-B Drum Storage Yard	3,959	426,169	477	2970
214	40	Off-site	Watts Bar	486	426,655	812	2930
218	40	PAD	Lasagna (SWMU 91)	1,700	428,355	2078	2790
222	40	X-10	ORNL Main Plant Inactive Tanks	961	429,316	532	2669
226	60	EM60	High Ranking Facilities Deactivation	3,625	432,941	1219	2569
227	30	CENT	ORR Private Sector - Treatment Act	250	433,191	1219	2568
228	40	Y-12	UEFPC Firing Range Soil Remediation	926	434,117	704	2560
232	40	Y-12	Bear Creek Valley Floodplain Hot Spot Removal	497	434,614	1203	2496
244	40	PORTS	Quadrant II Balance	1	434,615	1078	2371
249	40	Y-12	Filled Coal Ash Pond/Upper McCoy Branch	13	434,628	734	2290
259	40	PAD	Waste Area Grouping 19	370	434,998	844	2025
289	40	Off-site	Oak Ridge Tool - Engineering	66	435,064	750	1312
NA	30	ORR	Tulane/Xavier/Nuc Criticality	3,888	438,952		
NA	30	ORR	Program Management	3,310	442,262		
NA	30	ORR	Contractor Transition (EM-30 portion)	3,290	445,552		
NA	40	ORR	Contract Management Support	19,822	465,374		
NA	40	CENT	DOE Direct	8,500	473,874		
NA	40	CENT	Agreement in Principle	6,500	480,374		
NA	40	PAD	Contractor Transition (EM-40 portion)	1,000	481,374		
NA	40	ORR	Contractor Transition (EM-40 portion)	5,503	486,877		

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DOE-ORO Environmental Management FY 1998 Funding Profile ($6.0 Case)

(**Sorted by MEM Net Score**)

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Final Draft

ACP[1] OPTZ[2] Rank	EM Office	Site	Subproject Title	FY98 Budget Request ($1,000)	FY98 Cummulative	MEM[3] Risk Score	MEM Net Score
NA	40	PAD	PAD Program Management	4,286	491,162		
NA	40	PORTS	PORTS Program Management	3,666	494,828		
NA	40	ORR	Environmental Information Management	3,600	498,428		
NA	30	ORR	Program Management - DOE Direct	2,990	501,418		
NA	40	PAD	Site Specific Advisory Boards (Pad Only)	170	501,588		
NA	40	ORR	Site Specific Advisory Boards (OR Only)	107	501,695		
			Totals	**501,695**			
			Control Table	**501,695**			
			Waste Management	**165,049**			
			Environmental Restoration (MSA-OR-1)	**326,253**			
			Nuclear Materials & Facility Stablization	**10,393**			
			Totals	**501,695**			

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Last Scoring Review 7/25/97

DOE-ORO Environmental Management FY 1999 Priority List

Sorted by MEM Net Score

FY 99 Rank	EM Office	Site	Subproject Title	$6.0B Case	$5.5B Case	$5.0B Case	Apr. Acct[1]	MEM Risk Score	MEM Mortg. Reduction Score	MEM[2] Net Score	Impact of $5.0 Funding Level/ Advantage of $6.0 Plus Funding Level on Affected Data Element
1	40	WSS	Weldon Spring Waste Management	24,477	17,434	13,772	N	3281	1406	7555	No operation of TSA, MSA, Quarry Water Treatment Plant, Site Water Treatment Plant. Work will continue on Quarry Residuals FS, GW ROD will be completed, const. and waste placement will continue at disposal facility.
2	40	X-10	Melton Valley Watershed Record of Decision	257	257	257	D	2828	1406	7102	
3	40	X-10	Bethel Valley Watershed Record of Decision	632	632	632	D	2828	1406	7102	
4	40	Y-12	Bear Creek Valley Watershed ROD	2,116	2,116	2,116	D	2828	1406	6877	
5	40	WSS	Weldon Spring Disposal Facility	43,023	43,023	36,878	N	2500	1406	6774	Defers availability of disposal cell, extends WSSRAP by 2-3 years.
6	40	X-10	Molten Salt Reactor Experiment Remediation	19,535	19,535	19,535	D	2594	1406	6587	
7	40	X-10	Gunite and Associated Tanks	7,518	7,518	7,518	D	2406	1406	6418	
8	40	K-25	East Tennessee Technology Park Record of Decision	948	948	948	F	2078	1406	6352	
9	40	Y-12	UEFPC Watershed ROD	3,410	3,410	3,410	D	2078	1406	6352	
10	30	CENT	Central MW Disposal Services	2,390	2,390	2,390	D	1906	1406	6180	
11	30	CENT	Central MW Treatment Services	5,664	5,664	5,664	D	1906	1406	6180	
12	30	CENT	ORR MW Disposal	3,528	3,528	3,528	D	1906	1406	6180	
13	30	Y-12	Private Sector Mixed Sludges (WETF Sludge)	2,504	2,504	2,504	D	1906	1406	6180	
14	30	K-25	K-25 MW Treatment Services	1,060	1,060	1,060	D	1906	1406	6180	
15	30	CENT	ORR On-Site Treatment	302	302	302	D	1906	1406	6180	
16	30	CENT	ORR Private Sector - Broad Spec.(RCRA BOI)	18,881	1,342	1,342	D	1906	1406	6180	If this project is not funded, Mixed Waste Inventory Workoff will be delayed resulting in increased lifecycle cost and time delays in reaching steady state.
17	30	X-10	ORNL MW Disposal Services	12	12	12	D	1906	1406	6180	
18	30	X-10	ORNL MW Treatment Services	12	12	12	D	1906	1406	6180	
19	30	K-25	K-25 MW Treatment	272	272	272	D	1906	1406	6180	
20	30	Y-12	Y-12 MW Disposal Services	84	84	84	D	1906	1406	6180	
21	30	Y-12	Y-12 MW Treatment Services	1,226	1,226	1,226	D	1906	1406	6180	
22	30	K-25	K-25 MW Disposal	180	180	180	D	1906	1406	6180	
23	30	CENT	ORR MLLW General Plant Projects	750	0	0	D	1906	1406	6180	If these General Plant Projects are not funded, the infrastructure of storage, treatment, and disposal facilities will not be maintained in a manner to assure continuous operation as required in the permits for these facilities.
24	40	PAD	PAD Waste Management Treatment	10,550	5,520	4,519	F	1906	1406	6180	Delays VORTEC to FY2008, noncompliance with STP.
25	40	PORTS	PORTS Waste Management Treatment	12,501	11,840	10,194	F	1906	1406	6180	Site Treatment Plan milestones as negotiated with the regulators will be unachievable. NOVs, fines and penalties are likely. New regulatory dates will have to be negotiated. Overall completion of WM TSD will be delayed, program costs will increase.
26	30	CENT	ORR Private Sector - Treatment Act	327	327	327	D	1906	1406	6180	
27	30	X-10	MVST Capacity Increase	151	151	151	D	1906	1406	6161	
28	30	K-25	CNF Operations	5,399	5,399	5,399	D	1906	1406	6161	
29	30	K-25	TSCA Ops	20,933	20,933	13,101	D	1906	1406	6161	The program will be required to shutdown the incinerator in FY2000. If this occurs an alternative private sector alternative will be required to treat the incinerables. At this time there is no other known treatment source.
30	30	CENT	TRU Waste Treatment Support	5,866	5,866	5,866	D	1859	1406	6133	
31	40	Y-12	Bear Creek Valley Tributary Interception	2,548	2,548	2,548	D	2078	1406	6127	
32	40	Off-site	LEFPC Watershed Record of Decision	669	669	669	D	2500	656	6024	

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33	30	CENT	Central MW Storage Services	762	762	762	D	1531	1406	5805	
34	40	Y-12	Reduction of Mercury in Plant Effluents	2,403	2,403	2,403	D	2828	0	5696	
35	30	CENT	Central San/Ind Disposal Services	384	384	384	D	1906	656	5413	
36	30	CENT	ORR Special Projects-Sewage Sludge	237	237	237	D	1906	656	5413	
37	30	Y-12	Landfill Operation / Baler	5,792	5,792	5,792	D	1906	656	5413	
38	30	Y-12	Y-12 San/Ind Disposal Services	1,360	1,360	1,360	D	1906	656	5412	
39	40	PAD	PAD Waste Management Disposal	2,181	2,181	2,181	F	1906	656	5412	
40	30	X-10	LLLW Evaporator Concentrate	559	559	559	D	1906	656	5412	
41	30	X-10	LLLW Routine Operations	5,496	5,496	5,496	D	1906	656	5412	
42	30	X-10	ORNL Rad Liquid/Gaseous Waste Operations	9,824	9,824	9,824	D	1906	656	5412	
43	30	X-10	LLW General Plant Projects	750	0	0	D	1906	656	5412	If these General Plant Projects are not funded, the infrastructure of storage, treatment, and disposal facilities will not be maintained in a manner to assure continuous operation as required in the permits for these facilities.
44	30	X-10	ORNL LLW Treatment Services	438	438	438	D	1906	656	5412	
45	30	CENT	Central TRU Storage Services	141	141	141	D	1906	656	5411	
46	30	X-10	ORNL TRU Storage Services	516	516	516	D	1906	656	5411	
47	30	X-10	TRU Storage Operations	1,277	1,277	1,277	D	1906	656	5411	
48	40	PORTS	PORTS Waste Management Disposal	2,030	2,030	2,030	F	1906	656	5411	
49	40	PORTS	X-701B Area	4,042	1,689	1,689	F	2078	656	5377	The X-701B Soil CMI will be rescheduled and this will cause a one year delay in the completion of cleanup at PORTS. Cleanup schedules will be renegotiated with the regulators with possible NOVs.
50	40	K-25	East Tennessee Technology Park Ponds	2,832	2,832	2,832	F	2078	656	5321	
51	40	PORTS	X-749/120 Area	183	183	183	F	2078	656	5321	
52	30	CENT	ORR LLW Volume Reduction (SEG)	1,175	559	559	D	1578	1406	5233	If this project is not funded, significant workoff does not occur until FY06 resulting in increased life cycle inventory costs.
53	30	Y-12	UCOF	951	951	951	D	1578	1406	5233	
54	30	Y-12	Y-12 LLW Treatment Services	290	290	290	D	1578	1406	5233	
55	30	CENT	Central LLW Treatment Services	658	658	658	D	1578	1406	5233	
56	30	K-25	K-25 LLW Treatment Services	391	391	391	D	1578	1406	5233	
57	30	X-10	FFA LLW Tank Compliance	4,791	4,054	4,054	D	1641	656	5165	If this project is not funded, then the Tank Program will be delayed until FY02 requiring renegotiation of the Agreement.
58	40	ORR	Footprint Reduction/ Site Evaluations	2,516	2,516	2,516	D	2125	281	5105	
59	30	Y-12	WETF	5,662	5,662	5,662	D	1578	656	5102	
60	30	Y-12	Y-12 MLLW General Plant Projects	462	0	0	D	1578	656	5102	If these General Plant Projects are not funded, the infrastructure of storage, treatment, and disposal facilities will not be maintained in a manner to assure continuous operation as required in the permits for these facilities.
61	40	K-25	KAFAD Group I Building Demolition	12,920	12,920	12,920	F	2977	281	5095	
62	30	X-10	Hazardous Storage Operations	419	419	419	D	1578	656	5085	
63	30	K-25	Fissile Storage Unit Operations	370	370	370	D	1578	656	5085	
64	30	K-25	Fissile Storage Unit Operations	370	370	370	D	1578	656	5085	
65	30	K-25	K-25 Haz Disposal Services	188	188	188	D	1578	656	5084	
66	30	CENT	ORR HW Treatment/Disposal	911	911	911	D	1578	656	5084	

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67	30	X-10	ORNL Haz Disposal Services	931	931	931	D	1578	656	5084	
68	30	Y-12	Y-12 Haz Disposal Services	151	151	151	D	1578	656	5084	
69	30	CENT	Central HAZ Disposal Services	649	649	649	D	1578	656	5084	
70	30	Y-12	Mixed Waste Storage Ops	4,488	4,488	4,488	D	1578	656	5084	
71	30	Y-12	Y-12 MW Storage Services	1,542	1,542	1,542	D	1578	656	5084	
72	30	X-10	MW Storage Operations	951	951	951	D	1578	656	5084	
73	30	X-10	ORNL MW Storage Services	2,559	2,559	2,559	D	1578	656	5084	
74	30	K-25	K-25 MW Storage Services	3,083	3,083	3,083	D	1578	656	5083	
75	30	K-25	RCRA/Mixed/TSCA Storage	4,473	4,473	4,473	D	1578	656	5083	
76	40	PAD	PAD Waste Management Storage	10,407	10,407	10,407	F	1578	656	5083	
77	40	PORTS	PORTS Waste Management Storage	11,083	11,083	11,083	F	1578	656	5083	
78	40	Y-12	Bear Creek Valley Boneyard/ Burnyard	2,452	2,452	2,452	D	2828	281	5002	
79	40	Y-12	Bear Creek Valley SW/GW Diversion Trenches	117	117	117	D	2828	281	5002	
80	40	PAD	Waste Area Grouping 22 (SWMUs 2&3/ Burial Grounds)	2,993	2,993	2,993	F	2453	656	4946	
81	40	PORTS	PORTS Groundwater Demonstration	784	784	784	F	2078	281	4946	
82	40	PORTS	PORTS Groundwater Protection	8,012	8,012	8,012	F	2078	281	4946	
83	40	PAD	Waste Area Grouping 22 (SWMUs 7&30/ Burial Grounds)	2,204	2,204	2,204	F	2453	656	4946	
84	40	PAD	Waste Area Grouping 6 (C-400/TCE Spills)	3,208	3,208	3,208	F	1703	656	4946	
85	40	PORTS	Quadrant I Assessments	164	164	164	F	2828	0	4815	
86	40	PORTS	Quadrant III Assessments	157	157	157	F	2828	0	4815	
87	40	PORTS	Sitewide Surface Drainage	302	0	0	F	2156	0	4743	The Little Beaver Creek interim action will be rescheduled and this will cause a one year delay in the completion of cleanup at PORTS. Cleanup schedules will be renegotiated with the regulators with possible NOVs.
88	40	PORTS	7-Unit Area	4,488	4,488	4,488	F	2078	0	4721	
89	40	K-25	ETTP Long Term Surveillance & Maintenance	1,323	1,323	1,323	F	1453	656	4716	
90	40	K-25	ETTP Remedial Action Surveillance & Maintenance	1,177	1,177	1,177	F	1453	656	4716	
91	40	X-10	ORNL Long Term Surveillance & Maintenance	695	695	695	D	1453	656	4715	
92	40	X-10	ORNL Facility Stabilization Projects	676	676	676	D	1453	656	4715	
93	40	X-10	ORNL Remedial Action Surveillance & Maintenance	3,852	3,852	3,852	D	1453	656	4715	
94	40	Y-12	Y-12 Long Term S & M	1,243	1,243	1,243	D	1453	656	4715	
95	40	Y-12	Y-12 Remedial Action Surveillance & Maintenance	4,176	4,176	4,176	D	1453	656	4715	
96	40	X-10	Old Hydrofracture Facility Pond/Tank Remediation	426	426	426	D	2156	656	4705	
97	40	PAD	PAD Long Term Surveillance & Maintenance	5,778	5,778	5,778	F	1453	656	4696	
98	40	X-10	ORNL Main Plant Surface Impoundments	13,091	13,091	13,091	D	2125	656	4674	
99	40	K-25	ETTP Decommissioning Surveillance & Maintenance	28,584	28,584	28,584	F	1406	656	4668	
100	40	K-25	East Tennessee Technology Park Landlord Program	14,749	14,749	14,749	F	1406	656	4668	
101	40	X-10	ORNL Decommissioning Surveillance & Maintenance	3,796	3,796	3,796	D	1406	656	4668	
102	40	PAD	PAD Decommissioning Surveillance & Maintenance	1,127	1,127	1,127	F	1406	656	4668	
103	40	Y-12	Y-12 Decommissioning Surveillance & Maintenance	1,489	1,489	1,489	D	1406	656	4668	
104	40	PORTS	5-Unit Area	440	440	440	F	2078	0	4646	

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105	40	PAD	Waste Area Groupings 1 & 7	89	89	89	F	2078	656	4571	
106	30	Y-12	CPCF Operation	1,931	1,931	1,931	D	1031	656	4555	
107	30	Y-12	LLW Storage Ops	559	559	559	D	1578	656	4483	
108	30	Y-12	Y-12 LLW Storage Services	1,059	1,059	1,059	D	1578	656	4483	
109	30	K-25	K-25 LLW Storage Services	2,183	2,183	2,183	D	1578	656	4483	
110	30	K-25	LLW Storage Operations	1,874	1,874	1,874	D	1578	656	4483	
111	30	X-10	ORNL LLW Storage Services	1,721	1,721	1,721	D	1578	656	4483	
112	30	CENT	Central LLW Storage Services	942	942	942	D	1578	656	4483	
113	30	X-10	LLW Storage	2,421	2,421	2,421	D	1578	656	4483	
114	30	X-10	SLLW SWSA Operations (IMWF)	2,049	2,049	2,049	D	1578	656	4483	
115	40	ORR	ORR Integrated Water Quality Program	7,011	7,011	7,011	D	2359	0	4365	
116	40	Off-site	David Witherspoon, Inc. 1630 Site	664	664	664	D	2180	0	4298	
117	40	K-25	K-1070-A Contaminated Burial Ground	992	992	992	F	2453	0	4290	
118	40	K-25	K-1070-C/D G Pit and Concrete Pad	4,622	4,622	4,622	F	2453	0	4290	
119	30	X-10	ND-Bethel Valley FFA LI	352	352	352	D	1531	656	4286	
120	40	Off-site	Atomic City Auto Parts	2,484	2,484	2,484	D	2102	0	4220	
121	40	PAD	Waste Area Grouping 27 (TCE Sources)	2,682	2,682	2,682	F	2078	281	4196	
122	40	PORTS	Quadrant II Assessments	190	190	190	F	2078	0	4065	
123	40	PORTS	Quadrant IV Assessments	305	305	305	F	2078	0	4065	
124	40	PAD	Waste Area Grouping 23 (PCB sites)	2,926	2,926	2,926	F	2156	0	3993	
125	40	X-10	Corehole 8 Plume Source	1,324	1,324	1,324	D	1453	656	3946	
126	40	PAD	Waste Area Grouping 28 (TCE Sources)	2,822	2,822	2,822	F	2078	0	3915	
127	40	K-25	K-1070-C/D and Mitchell Branch Plumes	13	13	13	F	2078	0	3915	
128	40	PORTS	Peter Kiewit Landfill	2,023	1,884	1,884	F	2078	0	3915	The PK IRM conversion to passive treatment will be rescheduled. This will have a minor impact on the remainder of the program.
129	30	Y-12	GWTF	1,211	1,211	1,211	D	1531	656	3911	
130	30	Y-12	LSF Operations	915	915	915	D	1531	656	3911	
131	40	PAD	PAD Well Sampling	1,879	1,879	1,879	F	657	656	3900	
132	40	K-25	Stabilized Pond Waste Disposal	11,254	9,534	0	F	1180	656	3823	If this project is not funded, reindustrialization of the ETTP will be hampered because the area where this waste is stored has been requested by BNFL.
133	40	PAD	PAD Groundwater Operable Unit	594	594	594	F	1234	0	3821	
134	30	CENT	Central LLW Disposal Services	772	772	772	D	1531	1406	3800	
135	30	CENT	ORR Commercial/NTS Disposal	2,819	2,169	2,169	D	1531	1406	3799	If this project is not funded, Off-site Disposal is delayed resulting in steady state not being achieved until FY14
136	30	K-25	K-25 LLW Disposal Services	335	335	335	D	1531	1406	3799	
137	30	X-10	ORNL LLW Disposal Services	2,192	2,192	2,192	D	1531	1406	3799	
138	30	Y-12	Y-12 LLW Disposal Services	908	908	908	D	1531	1406	3799	
139	40	K-25	Process Equipment D&D (K-29, K-31, & K-33)	51,637	51,637	51,637	F	852	1406	3795	
140	40	X-10	Hydrofracture Injection/ Monitoring Wells	1,770	1,770	1,770	D	1219	656	3768	
141	40	PORTS	PORTS Sitewide D&D Surveillance & Maintenance	113	113	113	F	1031	656	3730	

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142	40	K-25	Unstabilized Pond Waste TSD	8,976	6,899	5,078	F	1180	656	3673	If this project is not funded, a non-compliance of the Commissioner's Order the Site Treatment Plan, will occur. Violation of this order will result in fines and penalties to DOE.
143	60	EM60	Isotope Facilities Deactivation Program	6,782	6,782	6,782	D	1500	656	3637	
144	40	Y-12	UEFPC East End DNAPL Plume	1,919	1,919	0	D	1203	281	3377	CERCLA Early Action Milestones will be missed, planned removal actions will not be implemented leading to FFA non-compliances. Lack of progress on contaminated GW containment measures will result in addtl. contaminant migration to offsite Union Valley.
145	60	EM60	National Spent Fuel Program	4,570	4,570	4,570	D	1266	656	3290	
146	40	PAD	Waste Area Grouping 3 (Burial Grounds)	2,816	2,816	2,816	F	2078	0	3259	
147	40	X-10	Fission Product Pilot Plant	436	0	0	D	922	281	3040	Missed FFA milestone; increased potential for release as building deteriorates.
148	40	K-25	K-1417-B Drum Storage Yard	4,546	0	0	F	477	656	2970	If this project is not funded, a RCRA non-compliance will occur resulting in fines and penalties to DOE.
149	40	Off-site	Watts Bar	419	0	0	D	812	0	2930	CERCLA ROD-required monitoring will not be conducted leading to non-compliances with the FFA. Lack of monitoring could allow increasing contaminant trends to go undetected and unmitigated, leading to an increase risk in this large public-access waterway.
150	40	PAD	Lasagna (SWMU 91)	292	292	292	F	2078	0	2790	
151	40	PORTS	Quadrant IV Balance	824	0	0	F	1453	0	2690	The X-734 CMI will be rescheduled and this will cause a one year delay in the completion of cleanup at PORTS. Cleanup schedules will be renegotiated with the regulators with possible NOVs.
152	40	X-10	ORNL Main Plant Inactive Tanks	674	0	0	D	532	281	2669	Violates intent of FFA to remediate tanks, increased potential for releases.
153	60	EM60	High Ranking Facilities Deactivation	2,724	2,724	2,724	D	1219	656	2569	
154	40	Y-12	UEFPC Firing Range Soil Remediation	21	0	0	D	704	0	2560	CERCLA early action remediation efforts will be suspended leading to non-compliances with project Action Memorandum & FFA. Lack of progress on soil remediation will result in additional contaminant migration into Upper East Fork Poplar Creek and offsite.
155	40	Y-12	UEFPC Salvage Yard Soil Remediation	212	0	0	D	704	0	2560	CERCLA early action milestones will be missed leading to non-compliances with the Federal Facilities Agreement. Lack of progress on soil remediation will result in additional contaminant migration into the Upper East Fork Poplar Creek and offsite.
156	40	Y-12	Bear Creek Valley Floodplain Hot Spot Removal	3,575	0	0	D	1203	0	2496	CERCLA early action milestones will be missed leading to non-compliances with the FFA. Lack of progress on soil remediation will result in additional contaminant migration into Bear Creek.
157	40	X-10	ORNL Reactor Cooling Towers Demolition	136	0	0	D	587	656	2480	Increased potential for safety hazards from deteriorated condition: Risk of fire from deteriorated cooling towers would not be abated potentially allowing spread on contaminants if a fire occurred.
158	40	PORTS	Quadrant II Balance	1,196	0	0	F	1078	0	2371	The X-633 interim action and a process waste lines investigation will be rescheduled and this will cause a one year delay in the completion of cleanup at PORTS. Cleanup schedules will be renegotiated with the regulators with possible NOVs.
159	40	X-10	Metal Recovery Facility	1,273	0	0	D	477	656	2370	Violation of CERCLA; requirement to start field activity 15 months after ROD; MRF D&D would not start causing FFA milestones to be missed with fines and penalities assessed.

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160	40	PORTS	Quadrant III Balance	168	0	0	F	1078	0	2315	The Don Marquis CMI will be rescheduled and this will cause a one year delay in the completion of cleanup at PORTS. Cleanup schedules will be renegotiated with the regulators with possible NOVs.
161	40	X-10	Old Hydrofracture Facility	204	0	0	D	634	281	2152	Missed FFA milestone; increased potential for release as building deteriorates; EE/CA preparation will stop, causing FFA milestone to be missed with fines and penalities assessed.
162	40	PAD	Waste Area Grouping 16	1,188	1,188	1,188	F	844	0	2025	
163	40	PAD	Waste Area Grouping 19	1,442	1,442	1,442	F	844	0	2025	
164	40	PAD	Waste Area Grouping 11	1,077	1,077	1,008	F	406	281	1868	Impacts completion of PA/SI for WAG 11, and increases mortgage cost.
165	40	PAD	Waste Area Grouping 8	355	355	0	F	406	0	1587	PA/SI for this unit will be delayed, non-compliance with RCRA/HSWA permit, increases long term costs if RI/FS required later.
166	40	PAD	Waste Area Grouping 9	1,412	310	0	F	406	0	1587	PA/SI for this unit will be delayed, non-compliance with RCRA/HSWA permit, increases long term costs if RI/FS required later.
167	40	K-25	Legacy Container Disposition Initiative	8,430	0	0	F	328	281	1396	If this project is not funded there is a possibility for RCRA non-compliances.
168	40	ORR	Agreement in Principle	6,676	6,075	5,528	F	NA	NA	NA	Less financial support will be provided to the states of Tennessee and Kentucky for oversight of the Environmental Management Program.
169	40	PAD	PAD SSAB	151	151	151	F	NA	NA	NA	
170	40	ORR	Site Specific Advisory Boards (OR Only)	110	110	110	F	NA	NA	NA	
			Totals	601,068	536,422	501,580					
			EM-40 MSA-OR-1 Total	362,706	326,608	309,406					
			EM-40 WSS Total	67,500	60,457	50,650					
			Environmental Restoration	430,206	387,065	360,056					
			Waste Management	156,786	135,281	127,449					
			Nuclear Materials & Facility Stabilization	14,076	14,076	14,076					
			(FUSRAP not included in report)								
			Totals	601,068	536,422	501,580					

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