



June 16, 2016

Chair
Renie Barger

Vice-Chair
Mike Kemp

Board Members
Cindy Butterbaugh
Victoria Caldwell
Judy Clayton
Basil Drossos
Nancy Duff
Eddie Edmonds
Tom Grassham
Shay Morgan
Bill Murphy
Kevin L. Murphy
Cindy Ragland
Richard Rushing
Ken Wheeler
Carol Young

Jennifer Woodard
DOE DDFO

Buz Smith
DOE Federal Coordinator

Board Liaisons

Brian Begley
*Division of Waste
Management*

Julie Corkran
*Environmental Protection
Agency*

Mike Hardin
Fish and Wildlife Resources

Stephanie Brock
Radiation Health Branch

Support Services
EHI Consultants, Inc.
111 Memorial Drive
Paducah, KY 42001
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info@pgdp CAB.org

Agenda for the June Board Meeting

6:00

Call to order, introductions
Review of agenda

DDFO Comments

--25 minutes

Federal Coordinator Comments

-- 5 minutes

Liaison Comments

-- 5 minutes

Administrative Issues

-- 10 minutes

Subcommittee Chair Comments

-- 10 minutes

Public Comments

-- 15 minutes

Final Comments

-- 10 minutes

Adjourn

FY 2016 DOE Budget Cycle Update Paducah Gaseous Diffusion Plant

Jennifer Woodard
June 16, 2016



Federal Budget Process



Budget
Process
Begins

FY18

Field Office
Formulates
Budget
per Baseline

DOE HQ
Submits
Consolidated
Budget

EXECUTIVE
ORDERS

FY16

OMB
Distributes
Appropriated
Funds

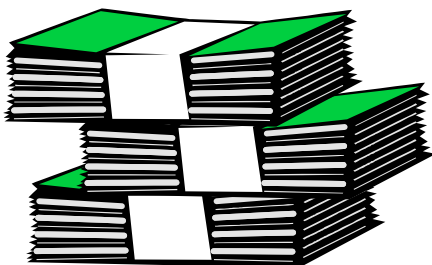
FY17

Presidential/
OMB Budget
Submitted

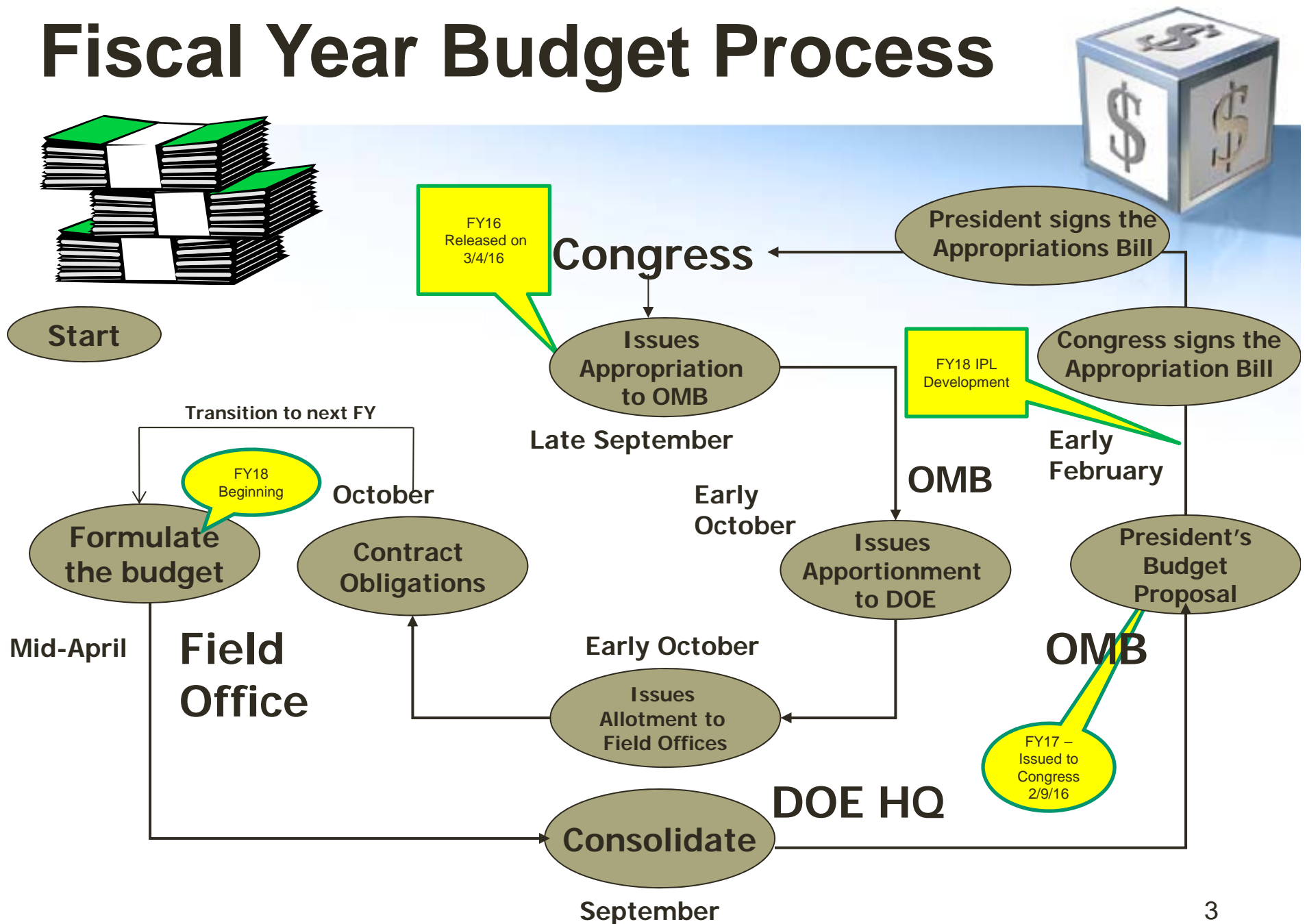
CONTINUING
RESOLUTIONS

President
Signs
Appropriations
Bill

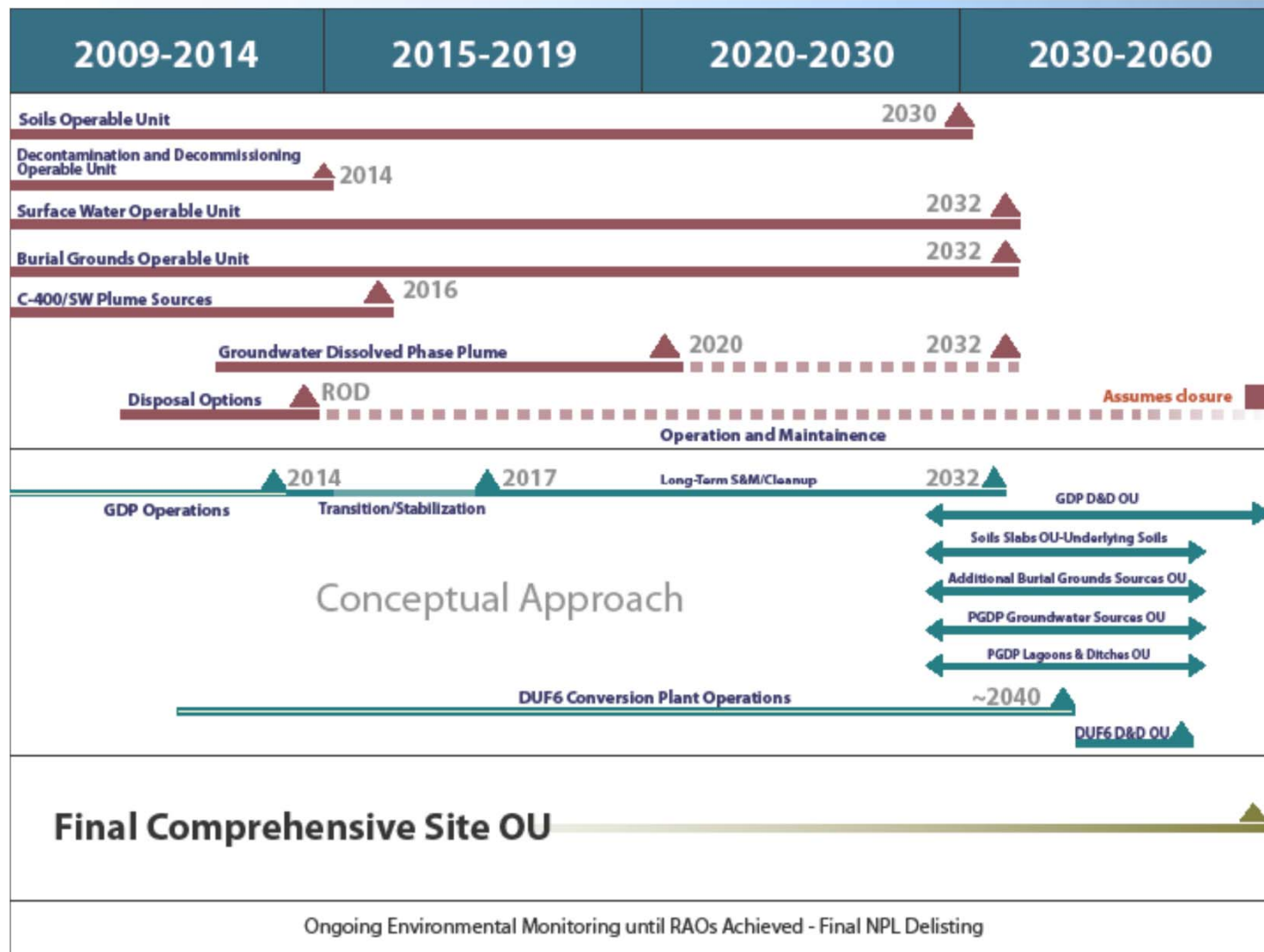
Congressional
Budget
Approval



Fiscal Year Budget Process



Paducah Cleanup Schedule



FY15 Accomplishments



- ✓ **Groundwater**
 - Completed C-400 Phase IIb Treatability Study
 - Completed C-400 Phase IIa Well Abandonment (214 wells)
 - Initiated Southwest Plume SWMU 1 Deep Soil Mixing
 - Completed EPA and KDEP Additional Work Request for Southwest Plume SWMUs 211-A and 211-B (6 locations)
 - Initiated C-612 Pump and Treat (NW Plume) Upgrades

- ✓ **Burial Grounds**
 - Completed EPA and KDEP Additional Work Request for Burial Grounds SWMU 4 (10 locations)

- ✓ **Soils**
 - Completed Soils Remedial Investigation fieldwork
 - Completed Soils Sitewide Investigation

- ✓ **Waste Disposal Alternatives**
 - Completed EPA and KDEP Additional Work Request for Waste Disposal Alternative DPTs (19 locations)

FY15 Accomplishments (continued)



- ✓ **D&D OU**
 - Completed the structural demolition of the C-410 Complex

- ✓ **Five-Year Review**
 - Completed Vapor Intrusion Study – Water Policy actions

- ✓ **Surface Water**
 - Completed sampling and concrete disposal at old groundwater monitoring station (SWMU 199)

- ✓ **Deactivation**
 - Initiated C-400 Deactivation Work
 - Completed the disposal of >200,000 gallons of lube oil
 - Completed the disposal of >105,000 gallons of PCB transformer oil
 - Completed the removal of 97,000 pounds of R-114 (Freon) from C-337 Process Building
 - Completed C-746-A Floor Removal
 - Removed all material from C-746-B Doors 1 and 2

FY15 Accomplishments (continued)



- ✓ **Utility Optimization**
 - Completed construction and testing for five (5) New Package Boilers
 - Consolidated 14kV power feed from four (4) to one (1) switchyard
- ✓ **Continue Cell Treatment Preparation.**
 - Completed fabrication of four (4) of the ten (10) portable cell treatment carts
 - Completed facility modifications (i.e., cooling water, lube oil skid installation, etc.) in the C-337 Process Building
- ✓ Completed resurfacing of C-337 Process Building roof (over 1M ft²)
- ✓ Completed removal of loose material & fissile material (10 tons) from the C-720 Maintenance and Storage Building
- ✓ Initiated removal of loose material & fissile material from the C-409 Stabilization Building
- ✓ Completed C-746-U Landfill Leachate Treatment System Upgrade
- ✓ Completed C-751 Fuel Facility UST Closure (last 2 USTs on site)

FY16 Budget



- Under Continuing Resolution until December 22, 2015
 - ✓ No impact to ongoing field activities
 - ✓ No impact to near-term enforceable milestone dates
- FY16 President's Budget request to Congress was \$232M
- Congress approved \$263M for Paducah in FY16
- FY15 carryover funds to FY16 were \$92M
- FY16 OMB apportionments were received on March 4, 2016
 - ✓ Per the FFA, DOE will submit within 60 days an impact evaluation of all projects scheduled for FY16 and FY17
 - ✓ If allotment is greater than the project costs, DOE shall propose additional work or an acceleration of scheduled work at PGDP



Major Work Activities for FY16



✓ Groundwater

- Complete C-400 Phase IIb Treatability Study Report
- Complete Southwest Plume SWMU 1 Deep Soil Mixing Verification Sampling, Monitoring Well Installation, and Submit Remedial Action Completion Report
- Northeast Plume Optimization (Complete RAWP and Start Installation of Transect Wells)
- Complete Northwest Plume Facility Upgrades
- Complete SWMUs 211-A and 211-B Final Characterization Report and Notification Letter
- Perform Groundwater Modeling

✓ Burial Grounds

- Complete SWMU 4 Phase V Sampling and Test Pit Sampling and Submit Remedial Investigation Report Addendum
- Complete SWMUs 5&6 Dispute Resolution and Revised Proposed Plan
- Complete SWMUs 2, 3, 7, and 30 Dispute Resolution and Submit Revised Feasibility Study

✓ Soils

- Complete Soils Remedial Action 2 Report
- Complete SWMU 1 Soil Sampling and Submit Remedial Investigation Report Addendum
- Complete Soils SWMU 27 and SWMU 229 Remedial Investigation Report Addendums
- Initiate Soils SWMU 27 Removal Action

Major Work Activities for FY16 (Continued)



- ✓ **Waste Disposal Alternatives**
 - Complete Dispute Resolution and Submit Revised Feasibility Study

- ✓ **D&D OU**
 - Sealed C-410 slab, deconned heavy equipment and completed disposal of waste
 - Complete C-410 RAR and D&D OU Completion Notification Letter

- ✓ **Five-Year Review**
 - Initiate Vapor Intrusion Study – C-400 Building
 - Complete the Five-Year Review Addendum for the Water Policy area

- ✓ **Deactivation**
 - Continue C-400 Deactivation Work
 - Continue C-337 Building Freon Removal
 - Complete Lube Oil Removal

- ✓ **Utility Optimization**
 - Startup of the five (5) New Package Boilers
 - Initiate Repairs to Site Fire Protection Systems
 - Initiate Process Buildings Roof Drain System Repairs
 - Initiate Water Plant Optimization Evaluation (Water Supply Line Work)

Major Work Activities for FY16 (Continued)

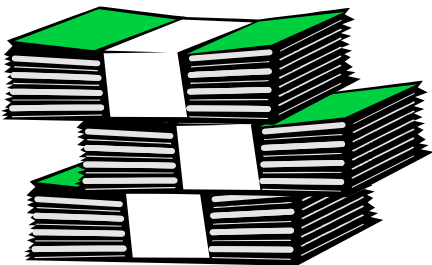


- ✓ Continue Cell Treatment Preparation.
 - Complete fabrication of the remaining six portable cell treatment carts
 - Complete testing on all 10 portable cell treatment carts
 - Complete facility modifications in C-335 and C-310 in support of deposit removal
 - Successfully complete an Operational Readiness Review and initiation of deposit removal activities in C-337
- ✓ Complete resurfacing of the Process Building roofs (approx. 2.2M ft²)
- ✓ Continue removal of loose materials & fissile material from C-409 Stabilization Building
- ✓ Complete the demolition of 11 inactive facilities
- ✓ Initiate disposition small diameter UF6 cylinders
- ✓ Complete Partial Closure of C-733 RCRA Storage Unit
- ✓ Initiate Design for Post 57 Upgrades

FY17 President's Budget



- FY17 President's Budget request to Congress was \$272.3M for Paducah
 - President's budget request currently awaiting Congressional approval
- \$3.9M more than the \$268.4M approved by Congress in FY16



Major Work Activities for FY17



- ✓ **Groundwater**
 - Complete C-400 Phase IIb Proposed Plan and Submit Record of Decision
 - Complete SWMU 1 Deep Soil Mixing Remedial Action Completion Report
 - Complete Northeast Plume Optimization well installations, alternate treatment unit installation and startup of the new system
 - Continue Groundwater Modeling

- ✓ **Burial Grounds**
 - Complete Remedial Investigation Report Addendum and Submit Feasibility Study for SWMU 4

- ✓ **Soils**
 - Complete SWMU 1 Remedial Investigation Report Addendum
 - Complete Soils SWMU 27 Removal Action

- ✓ **Waste Disposal Alternatives**
 - Complete Feasibility Study and Submit Proposed Plan

- ✓ **Five-Year Review**
 - Complete Vapor Intrusion Study – C-400 Building
 - Submit the Five-Year Review Addendum for the C-400 Building

Major Work Activities for FY17 (Continued)



- ✓ Deactivation
 - Continue C-400 Deactivation Work
 - Continue Freon Removal from Process Buildings
 - Perform Tc-99 Removal Study

- ✓ Utility Optimization
 - Complete Repairs to Site Fire Protection Systems
 - Complete Process Buildings Roof Drain System Repairs
 - Continue Water Plant Optimization Evaluation (Water Supply Line Work)
 - Evaluate Steam, Air, Nitrogen and Chilled Water Options for Optimization
 - Evaluate Sewer Optimization Options for Optimization

- ✓ Continue Cell Treatment Preparation
 - Continue of deposit removal activities in C-337

- ✓ Complete removal of loose materials & fissile material from C-409 Stabilization Building

- ✓ Complete disposition of small diameter UF6 cylinders

Major Work Activities for FY17 (Continued)



- ✓ Initiate Post 57 Upgrades
- ✓ Complete design and initiate construction of an Indoor Firing Range
- ✓ Additional Security Optimization Projects
- ✓ Complete design for McCaw Bridge replacement

PROPOSED
ENVIRONMENTAL MANAGEMENT SITE-SPECIFIC ADVISORY BOARD

Hanford
Oak Ridge

Idaho
Paducah

Nevada
Portsmouth

Northern New Mexico
Savannah River

Dr. Monica Regalbuto
Assistant Secretary for Environmental Management
U.S. Department of Energy, EM-1
1000 Independence Avenue, SW
Washington, DC 20585

Dear Dr. Regalbuto:

Background

Across the U.S. Department of Energy's (DOE) Office of Environmental Management (EM), billions of dollars are spent on cleanup work at sites that were part of the nation's nuclear development and weapons programs. The communities where these activities occurred were forever changed and experienced positive and negative impacts as a result of the government's presence.

The government has a responsibility to clean up these sites in a manner that is protective of human health and the environment. But the government also has a role to play in the future of these communities after cleanup activities are complete. As evidenced by DOE's admirable endeavors related to reindustrialization/property transfer, educational outreach programs, and other worthwhile community causes, DOE attempts to be a good partner in all of the affected communities with which it works.

It is in that spirit the EM Site Specific Advisory Board makes the below recommendation related to procurement.

Observations and Comments

There are examples across the complex where communities have benefitted from contractors that are contractually obligated to use a portion of their fee to reinvest in the affected communities. The requirements have included local procurement quotas; internships, scholarships and other educational outreach; charitable giving; and community development grants, among others.

Intent

The intent of this recommendation is for DOE contractors to have a central role in providing assistance to the communities where they work and live. The impacts of the actions by these contractors have not only resulted in positive community progress, but has built healthy relationships among DOE, contractors, and local stakeholders.

Recommendation

The EM SSAB recommends DOE include community investment clauses in ALL contracts related to cleanup work within EM projects. Regardless of the size of a contract, the EM SSAB believes all contractors have an obligation to serve (financially and otherwise) the communities that are impacted by their work.

Further, any subcontractors that perform work at these sites should be evaluated by how they contribute to the local communities and that interaction should be a consideration when subcontractors are chosen to perform work.

As you know, these contracts are highly competitive because they are lucrative for the companies that perform this work. The EM SSAB's desire is to not have overly burdensome or restrictive procedures put in place, but rather to encourage reinvestment into the communities that have shown tremendous loyalty and sacrifice to the mission over the years; by requiring contractors to provide a range of assistance to these host communities.

Summation

Whether it be a scholarship for a high school senior, goods being purchased from a local hardware store, a grant to a local arts project, or resources provided to a local food bank, these types of efforts can make a tremendous impact on a community.

DOE-EM can play a role in these good works by requiring these activities, and ones like them, through all future contracts at EM sites. In short, it is our expectation that DOE ensure contractors provide meaningful assistance and act as good neighbors while they are a part of our various communities.

As always, thank you for your consideration regarding our work.

ENVIRONMENTAL MANAGEMENT SITE-SPECIFIC ADVISORY BOARD

**Hanford
Oak Ridge**

**Idaho
Paducah**

**Nevada
Portsmouth**

**Northern New Mexico
Savannah River**

Dr. Monica Regalbuto
Assistant Secretary for Environmental Management
U.S. Department of Energy, EM-1
1000 Independence Avenue, SW
Washington, DC 20585

Dear Dr. Regalbuto:

Background

Communities across the country have been adversely affected by the legacy of research and development of nuclear capabilities that occurred during the World War II and Cold War eras. The resulting cleanup of contaminated areas in these communities is on-going and managed by the U.S. Department of Energy's Environmental Management Program (DOE EM). To date, billions of dollars have been spent on cleanup activities, and this work by DOE EM contractors will continue far into the future. The EM Site Specific Advisory Board (EM SSAB) believes that contractors be encouraged by DOE EM to become good stewards by investing resources back into the communities that serve them.

Observation

Whether it is for scholarships to local students, goods purchased from local stores, resources provided to local food banks, or community development grants, these efforts give back to the community. By investing in affected communities, the DOE EM contractors help revitalize those communities and foster healthy relationships between the DOE and local stakeholders.

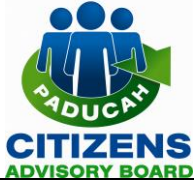
Summary

DOE contractors can impact EM communities, and the EM SSAB asks DOE to encourage those practices by making community investment provisions part of the evaluation criteria for cleanup contracts.

Recommendation

The EM SSAB recommends that DOE EM:

- 1) Incorporate "planned investment within the community" as a weighted factor in the proposal evaluation process of all contractors.
- 2) Provide information to local boards on community investment provisions included in Requests for Proposals.



PADUCAH GASEOUS DIFFUSION PLANT CITIZENS ADVISORY BOARD

115 Memorial Drive • Paducah, Kentucky 42001 • (270) 554-3004 • info@pgdpcab.org • www.pgdpca.org

Paducah Gaseous Diffusion Plant Citizens Advisory Board Meeting Minutes June 16, 2016

The Citizens Advisory Board (CAB) met at the Environmental Information Center (EIC) in Paducah, Kentucky on Thursday, June 16th at 6:05 p.m.

Board members present: Ken Wheeler, Renie Barger, Judy Clayton, Bill Murphy, Victoria Caldwell, Mike Kemp and Nancy Duff.

Board Members absent: Kevin Murphy, Cindy Butterbaugh, Cindy Ragland, Richard Rushing, Shay Morgan, Tom Grassham, Basil Drossos, and Carol Young.

Board Liaisons and related regulatory agency employees: Brian Begley, Gaye Brewer (KDWM); Julie Corkran, Jon Richards, EPA (by phone).

DOE Deputy Designated Federal Official: Jennifer Woodard, DOE.

U.S. Department of Energy (DOE) related employees: Robert Smith, DOE; Bob Smith, Steve Christmas, Myrna Redfield, Fluor Paducah (Fluor); Eddie Spraggs, Pro2Serve (P2S); Jim Erickson, Stoller, Newport News Nuclear (SN3); Eric Roberts, Jim Ethridge, EHI Consultants (EHI).

Public: none

Introductions:

Barger opened the meeting at 6:00 pm, and asked for introductions.

Barger then turned the meeting over to **Woodard**. **Woodard** then introduced **Bob Smith**, the new site lead for Fluor. She also introduced **Redfield** and **Mark Duff's** replacement for Fluor. **Woodard** reported that work at SWMU 1, or the Oil Land Farm, had been completed, as well as the required documents that were due concerning SWMU 4. She then started a budget update presentation.

Murphy: So by definition, a continuing resolution is just the previous year's budget?	Woodard: If that's the lowest. It's whatever is the lowest so you don't bust your budget. You don't know which one will actually get approved.
Wheeler: Was the Freon pumped into tank cars?	Woodard: We have both ISO containers that it has been put in and also purchased twelve more rail cars that it will also be put in.
Wheeler: It's not being disposed of, it's just being transferred.	Woodard: Right. At this point it just sits onsite.
Roberts: What is an ISO container?	Woodard: It is a Department approved container, so it's already in an approved container and we

	don't have to transfer it again.
Clayton: You made the point though that the lube oil and PCB's are offsite.	Woodard: Yes.
Murphy: Can you give a summary of the vapor intrusion study results?	Woodard: On the vapor intrusion study they go in and take groundwater samples and if your concentration is over 1.2 parts per billion, and how dense the soil is packed, they are the two things that they look for. What they found with the water policy is that all of our samples were below the 1.2 and we have very dense soil matrix.
Murphy: There's no risk for the TCE vapor?	Woodard: They are not seeing the vapor come up.
Murphy: I know that one of the goals was to get out of the power grid. Has that been accomplished?	Woodard: We still go through the grid right now, but that is our long term goal.

Woodard then reviewed the upcoming projects at the site.

Clayton: Will you be sending that (groundwater extraction well water from northeast plume) to the C-612 treatment facility?	Woodard: No, it has its own treatment unit. We will be installing a second treatment unit in the future.
Kemp: Are you going to do any soil sampling around the SWMU 27 tank?	Woodard: We had already done that that showed there was no impact to the soils.
Murphy: Is the C-400 vapor treatment study going to look at existing floor penetrations or new penetrations?	Woodard: It is based on current conditions.
Wheeler: You mentioned what your hotel cost were but do you have any idea what it would drop down to over the next couple of years?	Woodard: I don't have an estimate of what it will drop to, but I have a goal to reduce it by 5%.
Roberts: Have you seen a noticeable reduction with the optimization that has already taken place?	Woodard: You see it is small areas but not large areas. We do spend less on the surveillance and maintenance of the switchyards.
Roberts: By taking the cells offline, you didn't see a drop?	Woodard: No, but you will see it in the future.
Murphy: You mentioned that you didn't think the Operational Readiness Review of the cell treatment would be complete by the end of this fiscal year. Do you think it will be done by the end of this calendar year?	Woodard: We don't anticipate it being complete this year at all because we plan to take a step back to do a nondestructive analysis in the same area of the cell treatment so we will better understand the magnitude of the cell treatment that needs to be done.
Murphy: But it has nothing to do with the actual carts and cells and procedures that were planned to be used?	Woodard: The carts and procedures are not what is holding up the process.
Murphy: Nobody else has anything like that or just here in Paducah? (construction of indoor firing range for the guard force to stay qualified)	Woodard: By federal regulations you cannot take firearms offsite for firing, so a federal site has to have their own firing range for the guard force to stay qualified.
Murphy: They can't be qualified on an identical gun offsite?	Woodard: As far as I know, no they can't.
Begley: Do you have an idea of where this firing	Woodard: It would be on a "green" area.

range might be located?	
Begley: But not over the top of any groundwater plume?	Woodard: Likely not because those are not covered by “green” areas. We haven’t decided yet.
Clayton: So what are they doing right now?	Woodard: It is my understanding that everyone is qualified and it happens every two years.
Roberts: I know at other sites, they work with the local communities to provide services. Is this something that local law enforcement could make use of, or is this strictly for DOE?	Woodard: I believe it is going to be strictly a DOE facility, but at this point I don’t know if there is an option for local law enforcement agencies could use it also. I can find out if that is an option.

Woodard also indicated that DOE, EPA and KY had initiated discussions about investigating the contamination possibilities under the C-400 facility. She also said that DOE was looking at the possibility of moving out the construction of an onsite waste cell because there will not be anything ready to be put into the cell in the near future. **Woodard** did say that no decisions have been made concerning these topics. **Wheeler** asked when the review would be finished. **Woodard** indicated that she did not have a timeline established. **Kemp** asked is the money was available, would it be physically possible to accelerate the contamination removal. **Woodard** said that it could be accelerated by having workers doing the same thing in multiple buildings but there would be constraints in doing that. **Roberts** suggested taking the members to the site and into a building to see why it takes a long time to accomplish work. **Woodard** indicated that it would be possible to do that.

Murphy asked is there had been any resolution of the disputes concerning the waste cell. **Woodard** said that there had not since the last CAB Board meeting.

Federal Coordinator Comments: none

Liaison Comments: **Richards** indicated that the OSWDF Remedy Review Board would be taking place in Atlanta, GA, on July 28th. He also said that the deadline for input to the Board was July 1st. **Kemp** asked if pulling together previous Board recommendations on the waste cell would be necessary or helpful. **Corkran** said that it would.

Administrative Issues: **Roberts** reported that food would not be provided free of charge at future CAB meetings. He indicated that food would be available but he asked that if someone ate that they would make a cash contribution for the food. **Smith** said that it was a matter of perception of influencing the members. **Roberts** then explained the differences between versions of a recent EM SSAB Chairs recommendation on contracts.

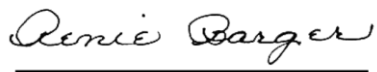
Subcommittee Chair Reports: **Wheeler** said that the new Kentucky Secretary of Energy would be making a visit to Paducah on June 29th, and suggested adding an Agenda item concerning that visit for the next Board meeting.

Public Comments:

Final Comments: **Smith** reported that the public tours of the PGDP site had been going very well. **Woodard** said that the tours would continue through September, and would be started again in May 2017. **Roberts** said that Recommendations concerning the waste cell would be compiled and forwarded to the Board for comments.

The meeting adjourned at 7:37pm.

Approved by **Renie Barger, Chair**

A handwritten signature in cursive script that reads "Renie Barger". The signature is written in black ink and is positioned above a horizontal line.

Renie Barger