



Environmental Remediation Subcommittee

Thursday, November 19, 2015 @ 6:00 p.m.

Agenda

Chair
Renie Barger

Vice-Chair
Mike Kemp

Subcommittee Members

Tom Grassham
Mike Kemp
Kevin L. Murphy
William Murphy
Carol Young

Call to Order

Introduction

Election of Subcommittee Chair

Brief Discussion of DOE Projects

Prioritize list for Work Plan

Next Steps and Actions

Adjourn

Jennifer Woodard
DOE DDFO

Buz Smith
DOE Federal Coordinator

Board Liaisons

April Webb
*Division of Waste
Management*

Julie Corkran
Environmental Protection Agency

Mike Hardin
Fish and Wildlife Resources

Stephanie Brock
Radiation Health Branch

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PADUCAH GASEOUS DIFFUSION PLANT CITIZENS ADVISORY BOARD

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Paducah Gaseous Diffusion Plant Citizens Advisory Board Environmental Remediation Subcommittee Session Summary November 19, 2015

The Citizens Advisory Board (CAB) met at the Environmental Information Center (EIC) in Paducah, Kentucky on Thursday, November 19th at 7:00 p.m.

Board members present: Bill Murphy, Carol Young, Mike Kemp, Tom Grassham.

DOE and subcontractors present: Tracey Duncan, DOE; Eddie Spraggs, Pro2Serve (P2S); Gaye Brewer, Kentucky Department of Waste Management (KDWM).

Board Regulators present: none

Public present: Nancy Duff

Kemp opened the meeting. He continued by indicating that he would not be the best nominee to be Chair of the subcommittee due to his term expiring in about a year. After discussion, the subcommittee nominated **Bill Murphy** to be Chair. (**Murphy** arrived late to the meeting due to a prior commitment.)

Kemp suggested that in the coming year this subcommittee would not have too much work to do. As a result he suggested that the members be educated about the different projects at the site. He felt that there would not be any needs for recommendations from the subcommittee in the near future.

Duncan offered to review the material that this subcommittee would be looking at in the future. She reviewed the process dictated by the Federal Facility Agreement (FFA). The result of that process is the annual Site Management Plan. She suggested that this group review that plan to get a reference of the projects at the site that this subcommittee would review.

Duncan indicated that one of the most critical Operable Units (OU) that they have is the Groundwater OU, because the contamination travels offsite. Their goals were to make sure no one was drinking the contaminated water, try to reduce the sources, and clean up any residual amounts of the contamination. She indicated that they were still working of reducing the sources.

Duncan then said that trichloroethylene (TCE), a degreaser used at the plant in the past, was the major contaminate of the groundwater. She said that technetium 99 (tech99) was another contaminate, but the higher concentration of tech99 was still located on the DOE property.

Duncan then explained that the treatment system on the west side of the site treats for TCE and tech99, while the system on the east side only treats for TCE because they see no evidence of tech99 in the groundwater on that side. She also reported that they had success treating the one of the sources of TCE located at the C-400 Cleaning building, but could not treat the groundwater at that location because they could not get the groundwater heated fast enough to extract the TCE in the groundwater.

Their next step was to conduct a treatability study to see if steam could be used to do that. She said that so far, it seems to work well enough to use, but they were waiting on the final results of the study to make that determination. If using steam was determined to work, the process of developing that work would be happening in the next fiscal year.

Kemp asked when the Feasibility Study would come out. **Duncan** indicated that the first draft would come out in December of this year. **Kemp** then asked when a presentation to this subcommittee could be given. **Duncan** said during the initial agency review. **Kemp** suggested the subcommittee seeing the presentation on the study in January 2016.

Duncan then reported on the Deep Soil Mixing project at the Oil Land Farm area of the site. This project is to remove TCE from the soil. **Kemp** asked that a presentation be prepared on this project as well for the January 2016 subcommittee meeting.

Duncan indicated that this coming year the process of optimizing the groundwater treatment system on the east side of the site would be performed.

Duff asked if both groundwater plumes were discovered in 1988. **Duncan** said that the northwest plume was discovered in 1988, but the southwest plume was discovered later because it was located still onsite.

Grassham asked if C-400 was the major source of the plume, why it had not been torn down. **Duncan** indicated that United States Enrichment Corporation (USEC) was still using it up until 2013, and the offices were still in use now. She also said that the regulators were pushing for this building to be one of the first addressed to be torn down. She then said that now that the building was not being used, that investigating wells could be drilled through the floor. **Grassham** asked why that was not being done. **Duncan** indicated that it was not in the 2032 baseline to be done.

Duncan then said that Solid Waste Management Unit (SWMU) 4 was the active project for the Burial Grounds OU and that they were in the process of performing different investigations on it. **Kemp** asked when the study for this project would come out. **Duncan** indicated that it would come out in July 2016. **Kemp** requested a presentation/briefing on this project for mid to late summer.

Duncan indicated that the SWMU 5&6 project was in dispute but she expected that to be resolved in a few months. That being true, then the subcommittee would need to be involved on a path forward with this project in the coming year.

Next, **Duncan** indicated that in December, DOE would be making recommendations to the regulators about a possible remedy for SWMU 211A and 211B Southwest Plume source. She recommended that it should be a topic for the subcommittee to address in the coming year.

Kemp suggested the following topics for the Subcommittee to consider for the coming year:

1. The Treatability Study for the C-400 Groundwater Plume source
2. SWMU 211A & 211B Southwest Plume Source remedy selection
3. SWMU 5&6 Plan – Path forward and timing
4. Lessons learned and site challenges implementing the SWMU 1 Soil Mixing

The meeting adjourned at 7:50 pm.