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ENVIRONMENTAL CLEANUP AND LAND PREPARATION SUBCOMMITTEE

TUESDAY, JUNE 12, 2012 @ 6:00 P.M.

AGENDA

- FOLLOW-UP DISCUSSION OF
EDISON WELDING INSTITUTE'S (EWI) PRESENTATION -20 MINUTE
- PRESENTATION -10 MINUTE
 - DAVID MANUTA-MC2
- DISCUSSION -20 MINUTE
- PLAN OF ACTION -10 MINUTE

ADJOURN



ENVIRONMENTAL CLEANUP & LAND PREPARATION SUBCOMMITTEE

MEETING SUMMARY

JUNE 12, 2012 • 6:30 P.M.

THE OHIO STATE UNIVERSITY ENDEAVOR CENTER
1862 SHYVILLE ROAD, PIKETON, OH 45661

SSAB Subcommittee Members Present: Frank Halstead, Subcommittee Vice Chair; Martha Cosby, Stan Craft, Sharon Manson, Michael Payton

SSAB Subcommittee Members Absent: Cristy Renner, Subcommittee Chair; Brian Huber

Other SSAB Members Present: Will Henderson, Connie Yeager

U.S. Department of Energy (DOE) and contractors: William Murphie, Joel Bradburne, Johnny Reising, Greg Simonton, DOE; Rick Greene, Restoration Services, Inc. (RSI); Karen Price, J.D. Chiou, Deneen Revel, Fluor-B&W Portsmouth (FBP)

Liaisons: Mike Rubadue, Ohio Department of Health (ODH)

Support Staff: Julie Galloway, Cindy Lewis, EHI Consultants (EHI)

Public: Bob Eichenberg, Ohio University; Mark Johnson, Tri-State Building and Construction Trades Council (TSBTC); David Manuta, Manuta Chemical Consulting (MC2)

Halstead opened the meeting.

1. Follow-up Discussion of Edison Welding Institute's (EWI) Presentation:

Question/Comment:	Answer:
<p>Halstead: We need to see a demo of the process done by the Edison group before we can make an evaluation. If someone is trying to sell you something, he only shows you the best part. Whether it will be worth the cost, I do not know, but it is worth checking out.</p>	<p>Manson: I think they want some sponsorship to cover the cost. They do not know for sure if the process will remove contaminants or not.</p> <p>Bradburne: We asked the Edison group to get with Fluor to see if they could test the process to clean the contaminants. It all sounds good, now come on-site and show us what they can do.</p>
<p>Greene: Did you find the presentation useful?</p>	<p>Craft: Yes, If they could clean up the contaminants and turn the equipment into</p>

	<p>money, that would be a win-win situation for everyone.</p> <p>Bradburne: It sounds good, but if the cost of getting the equipment ready to clean is expensive, then it may not be worth it.</p>
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2. Waste Disposition and Recycling Presentation delivered by David Munuta, MC2:

- Mission Statement
- Vision Statement
- Business Objective
- Waste Disposition and Recycling
- On-Going Work

3. Discussion:

Question/Comment:	Answer:
<p>Halstead: On the land preparation side of things, there is a lot of work to be done. The first question you need to ask yourself is, are we for an on-site disposal cell or not, keeping in mind that without one, we still have existing landfills already on-site. Do you think we are ready to make a recommendation in favor of an on-site cell?</p> <p>OK, we will put a recommendation together for the environmental and land portion of an on-site waste cell.</p>	<p>Craft: I think we should consolidate all the landfills into one cell. The existing landfills are not as safe as a disposal cell will be. I think it is time to move forward, write something up and have another meeting to discuss it and get it ready to present to the board during the July full board meeting. This subcommittee can write a recommendation on the environmental part and the Waste Disposition and Recycling subcommittee can write a recommendation on the details regarding what should and should not go into the cell.</p> <p>Simonton: If you write a recommendation and want to bring it up at the next full board meeting, you will have to send something out to the board by July 5. You could work through e-mail and not have to meet in person.</p>

4. Plan of Action:

- **Halstead** will write a draft recommendation and e-mail to the EHI office.
- **EHI** will put the recommendation in the proper form and e-mail to the subcommittee by July 5.

Halstead: Meeting adjourned

Next meeting: Tuesday, July 10, 2012 at 6:30 p.m.

Waste Disposition and Recycling

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June 12, 2012

South Centers

Ohio State University, Piketon, OH



Mission Statement:

- The Application of Fundamental Chemical Principles to Solve Problems.

Vision Statement:

- To Solve Problems That Aren't in Any Book.

Business Objective:

- Have I Applied My Specialized Knowledge to Help Others Who Under Other Circumstances Wouldn't Be Able to Help Themselves?

Waste Disposition and Recycling

- According to the data presented by US DOE and Fluor personnel at the SSAB Meeting on Th 5/3/12, there are about 28,000,000 pounds of metals that need to be properly handled.
- It is estimated that 48% of the total number of pounds of metals can be recycled. This means that over 13,400,000 pounds of these metals can and ought to be recycled.

Waste Disposition and Recycling

- This also means that the volume of metals to be handled by alternative means has been reduced to about 14,500,000 pounds.

- The present inventory of metals in the thousands of tons includes:
 - Steel (scrap and structural)
 - Aluminum
 - Copper
 - Nickel

Waste Disposition and Recycling

- The US DOE and Fluor personnel emphasized nickel recycling in their SSAB presentations on Th 5/3/12. While nickel and nickel alloys (e.g., Inconel and Monel) have important industrial (re-use) applications, it must be pointed out that nickel in converters does have a classified application (barrier).
- Nickel (to the best of my knowledge) is not “low-hanging fruit.”

Waste Disposition and Recycling

- Aluminum and copper (to the best of my knowledge) represent the “low-hanging fruit.”
- Recycling is a common practice for aluminum and copper. A major advantage is that there aren't (to the best of my knowledge) any classification issues associated with the recycling of these metals.
- The bottom line is that we should seek to recycle the aluminum and copper metals first.

On-Going Work

Our current work is focused in:

- Chemical Consultations/Process Improvement
- Expert Witnessing in the Physical Sciences
- Chemical Release/Explosion/Fire Investigations
- Automobile and Truck Accident Investigations
- Insurance Subrogation Cases
- Nuclear Chemistry Issues (including **Energy Employees Occupational Illness Compensational Program Act** Claims)
- HUBZone Distributor of Chemicals and Supplies for ThermoFisher Scientific, L.L.C.

Making a difference for our clients is our only goal.