Agenda

• R2E2 Updates Since Last Meeting
  – 30% design workshops
  – Project scope reductions and increases
  – Cost estimate

• Fluidized Bed Incinerator
  – Bids received
  – Video Example

• Contract 33 Primary Switchgear and Utility Relocation
Agenda

• **Schedule—What’s next?**
  – Major equipment pre-purchase and pre-select
  – Final design
  – Construction

• **Open Discussion**
30% Design Workshops

There are 14 workshops planned and the team conducted nine workshops, received comments, and incorporated changes in the following unit processes:

– Ash Dewatering
– Sludge Storage
– Polymer
– Primary Switchgear
– Centrifuge, dryer feed and scum
– Biogas engines
– Septage receiving and high strength waste
– Non-process areas
– Digestion and Biogas storage
Project Scope Reductions/Increases

The more significant change items are as follows:

- FBI bids received lower than estimate = decrease
- Shifted digesters to eliminate fuel storage facilities = decrease
- Eliminated requirement for spare centrifuge scroll = decrease
- Added boiler in lieu of upgrade and re-locate existing = increase
- Added back H2S and Si (tentative) gas cleaning = increase
- Added new storage building = increase
- Nutrient extraction (pending) = increase
- Other pending changes subject to zero delta review
The team continues to update the cost estimate:

- **Facility Plan** = $147,000,000 in 2011 dollars
- **BODR** (includes increased FBI and dryer sizing)
  - = $124,000,000 in 2011 dollars
  - = $144,000,000 in 2016 dollars (midpoint of construction)
- **Current estimate including FBI reductions and Nutrient extraction**
  - = $145,000,000 in 2016 dollars
Fluidized Bed Incinerator Procurement

- Two responsive bids were received and evaluated
- Bid pricing was below engineer’s estimate
- Recommendation for award pending - targeting December commission meeting
- Video of FBI
Contract 33
Primary Switchgear and Utility Relocation

Initial contract to transition GBF electrical supply into new switchgear, relocate utilities and access roads, and construct new storage building

- 60% review workshop conducted December 6, 2013
- Final Documents scheduled Jan. 2014
- Bid and Award of contract – Spring 2014
Procurement Schedule

Issue pre-purchase RFP to qualified vendors:

Issue pre-selection documents to qualified vendors:

Issue contractor pre-qualification documents for Contract 33 – Dec 2013
Design Schedule

• Analysis of nutrient (Phosphorus) treatment options technical memo – Sep. 2013, and follow-up through Dec. 2013 – Nutrient extraction pre-design authorized and to commence Jan 2014
• Remaining 30% design review workshops to complete Jan. 2014
• Process Hazard Analysis - Feb. 2014
• 60% design review workshops (Contract 34) March-May 2014
• Design complete Fall 2014, construction NTP Spring 2015
Open Discussion
Next Stakeholder Meeting

Spring 2014
R2E2 Update

Thank you for coming!