R2E2 Update

Stakeholder Committee

July 09, 2014
Agenda

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

• Fluidized Bed Incinerator
  – 60% Workshop

• Contract 33 Primary Switchgear and Utility Relocation
  – Construction Status

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

• Open Discussion
Design Workshops

• All 30% workshops complete – including the added unit process of P-Release - held May 30, 2014

• 60% workshops - schedule and status:
  – HSW and Septage - April 17, 2014
  – Solids and Site Civil – May 1, 2014
  – Digesters and Biogas – June 19, 2014
  – Fluidized Bed Incinerator, Nutrient Recovery, and P-Release Anaerobic Zone 60% workshops are pending

• Process Hazard Analysis conducted June 2 & 3, 2014
Project Scope Reductions/Increases

• Scope reductions were assessed in “zero delta” workshops and accepted as follows:
  – Reduced size of biogas storage tank
  – Reduced size of biogas compression/conditioning facility
  – Made septage receiving improvements a deductive alternate
  – Removed anaerobic zone improvements from R2E2 project

• One additive scope item was accepted – use of thickening centrifuge in lieu of gravity belt thickener
Cost Estimate

• The team continues to look for ways to reduce costs

• Below is a summary of cost progression:
  – 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 is $146,000,000 in 2016 dollars
Fluidized Bed Incinerator Procurement

- Submittal review is ongoing and model development is progressing
- Fluidized Bed Incinerator (FBI) model completion and 60% design workshop is scheduled for late July, 2014
- Deductive and additive change orders are being reviewed
Primary Switchgear and Utility Relocation
(Contract 33)

- Initial contract to transition GBF electrical supply into new switchgear, relocate utilities and access roads, and construct new storage building
  - Awarded to Miron Construction
  - Notice to Proceed April 14, 2014
  - Mobilized on site May 2014
  - Construction is progressing on sludge piping relocation, electrical duct bank installation and primary switchgear facility
  - Contract Completion scheduled for July 15, 2015
Primary Switchgear and Utility Relocation

Ostrenga backfills Switchgear Bldg. base slab with CABC and compacts
Primary Switchgear and Utility Relocation
Primary Switchgear and Utility Relocation

Milron carpenters complete base slab perimeter forms
Primary Switchgear and Utility Relocation
Primary Switchgear and Utility Relocation

Milron completes setting of EMH riser sections
Primary Switchgear and Utility Relocation

NEI installs duct bank from EMH-6
Procurement Schedule

- Pre-selection documents to qualified vendors:
    - Pre-selection of Caterpillar was recommended and notice of intent to purchase is progressing
    - Pre-selection of Centrysis was recommended and notice of intent to purchase is progressing
  - Nutrient Recovery proposal package being developed for vendor pre-selection – RFP scheduled for issue late July 2014
Design Schedule (Contract 34)

• Design completion has pushed to Spring 2015
• Nutrient Recovery vendor pre-select and design is the critical path - the 60% workshop October 2014
• Remaining 60% workshops - FBI, and Anaerobic Zone and P-release scheduled for July and August, 2014
• Bid in Spring of 2015 and Construction start Summer 2015
Open Discussion
Schedule – What’s Next

• Post today’s presentation on website
  —Continue to update our customers through external newsletter and website

• Next Customer Meeting
  —Fall 2014
R2E2 Update

Thank you for coming!