



R2E2 Update

Stakeholder Committee
September 16, 2014





Agenda

- R2E2 Updates Since Last Meeting
 - 60% design workshops
 - Project scope reductions and increases
 - Construction Cost estimate
- Fluidized Bed Incinerator
 - 60% Workshop
 - Contract 34 Package
- 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
- 60% workshops - schedule and status:
 - Fluidized Bed Incinerator – July 30, 2014
 - Anaerobic zone – September 11, 2014
 - P-Release for nutrient recovery – September 11, 2014
- Actions being addressed from Process Hazard Analysis held June 2 & 3, 2014



Project Scope Reductions/Increases

- Scope considerations for cost reductions are being addressed in workshops as follows:
 - Additive bid item for Anaerobic basin improvements
 - Use of existing tank and outlet piping for Nutrient Recovery
 - Re-purposing existing pipe for new services
- One additive scope item is being considered – adjustable frequency drives on existing Primary Sludge pumps



Cost Estimate

The team continues to look for ways to manage costs within budget target. Below is a summary of cost progression:

- Facility Plan = \$147,000,000 in 2011 dollars
- BODR (increased FBI and dryer sizing, dropped steam turbine)
 - \$124,000,000 in 2011 dollars
 - \$144,000,000 in 2016 dollars (midpoint of construction)
- Current estimate is \$146,000,000 in 2016 dollars
- The 90% estimate will be complete in October 2014



Fluidized Bed Incinerator Procurement

- Submittal review is ongoing and model development is progressing
- Fluidized Bed Incinerator (FBI) model update and 60% design workshop was held July 30, 2014
- FBI workshop for contract documents package for insertion into Contract 34 was held August 6, 2014
- Deliverable for Contract 34 scheduled October 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
 - Construction is complete on sludge piping relocation, and nearing completion on electrical duct banks and site piping
 - Primary switchgear and storage buildings are progressing well
 - Primary switchgear equipment delivery scheduled for late September or early October
 - Contract Completion scheduled for July 15, 2015



Primary Switchgear and Utility Relocation





Primary Switchgear and Utility Relocation



NEI assemble DB components from EMH-8A to Switchgear Bldg.



Primary Switchgear and Utility Relocation



Miron forms nextsection of DB-E



Primary Switchgear and Utility Relocation



NEI assemblies DB-E



Primary Switchgear and Utility Relocation



NEI mounts sump pump disconnects on panels at EMH's



Primary Switchgear and Utility Relocation



AW continues 30" storm sewer installation from MH-1A



Primary Switchgear and Utility Relocation



Iron sets forms on S wall of Switchgear Bldg.



Primary Switchgear and Utility Relocation





Primary Switchgear and Utility Relocation



Wayne's Caulking installs waterproof membrane approx 2/3 up the outerwall



Primary Switchgear and Utility Relocation





Primary Switchgear and Utility Relocation



Miron places precast planks for Switchgear Bldg. ceiling



Primary Switchgear and Utility Relocation



Miron sets precast panels in place at NW corner of Switchgear Bldg.



Primary Switchgear and Utility Relocation



Miron lays out openings in precast panels



Primary Switchgear and Utility Relocation



Wisconsin Rebat places rebar mats at column footing pads



Procurement Schedule

- Pre-selection documents to qualified vendors:
 - Co-gen package: Issued Dec. 2013; Proposals Due Jan. 2014
 - Pre-selection of Caterpillar was recommended and notice of intent to purchase is progressing – awaiting escalation adjustment
 - Centrifuge package: Issued Dec. 2013; Proposals Due Jan. 2014
 - Pre-selection of Centrysis was recommended and notice of intent to purchase was issued in August
 - Nutrient Recovery request for proposals (RFP) was issued September 8, 2014 and proposals due September 26, 2014



Design Schedule (Contract 34)

- Design completion has pushed to Spring 2015
- Nutrient Recovery vendor pre-selection and system design is the critical path
- All 60% workshops are complete and final P&IDs and process narratives will be reviewed in October 2014
- Contractor pre-qualification November 2014
- Bid in Spring of 2015 with construction to start Summer 2015 and substantial completion Summer of 2018



Open Discussion



Schedule – What's Next

- Post today's presentation on website
 - Continue to update our customers through external newsletter and website
- R2E2 "Open Houses" in October for general public
 - Two being held: one during office hours, one evening session at Ashwaubenon Village Hall
 - We will distribute details for customers to send out to their customers
- Next R2E2 Stakeholder Meeting: Nov. 14, 9am



R2E2 Update

Thank you for coming!