

GDP D&D Regulatory Decision Process

Status Update



Overview of Discussion



- Backdrop of decision-making schedule and timing of SSAB input – what we need and when.
- Overview of waste volumes and potential on-site disposal footprint.
- Status of regulatory document submittals.
- Next steps.

Path Forward to 2024*



* Based on Current DOE Funding Projections



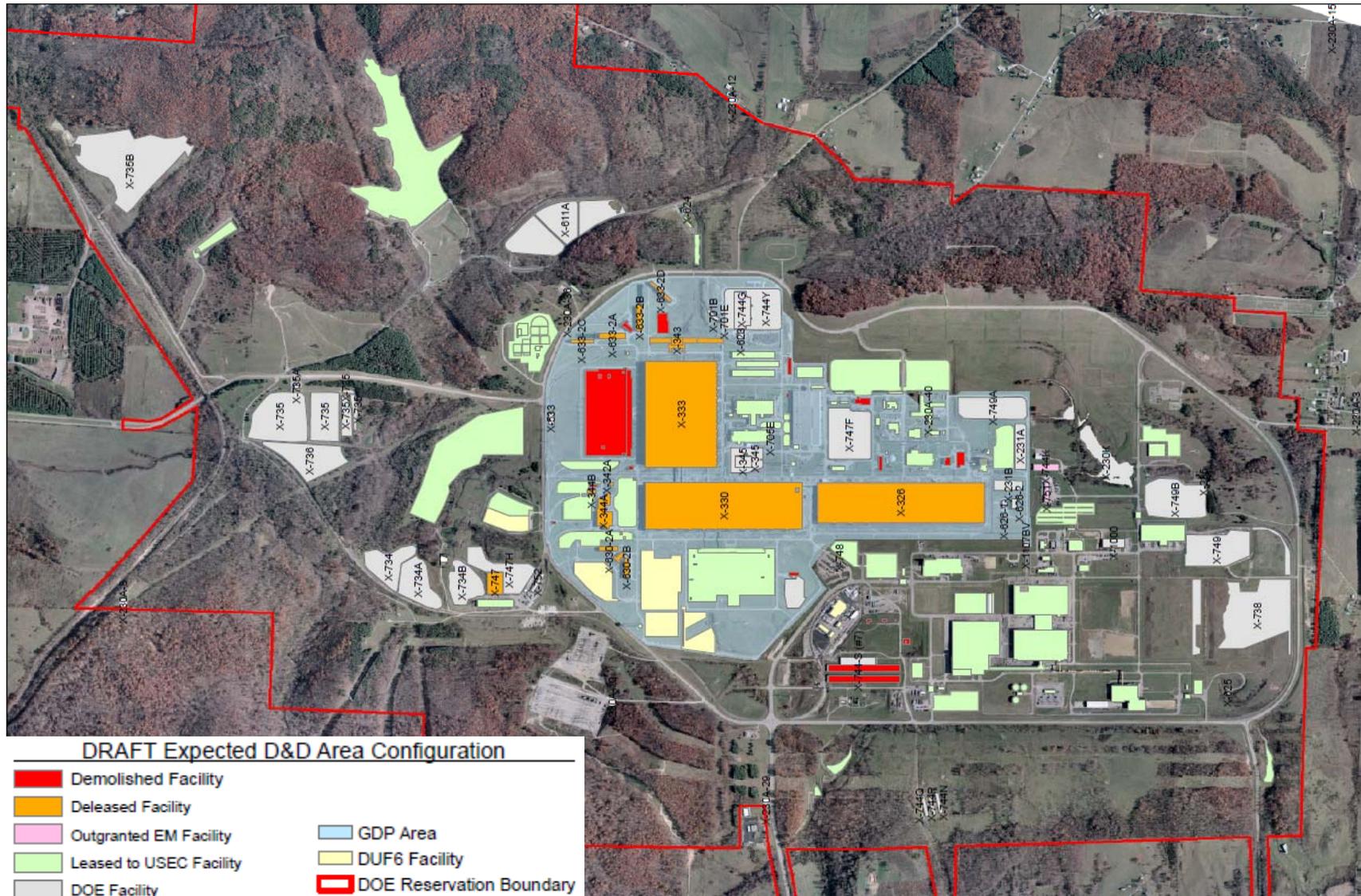
Scope of Work for D&D



- Demolish all 315 Gaseous Diffusion Plant facilities:
 - 3 large processing facilities: X-326, X-330, X-333.
 - Approximately 93 acres under roof.
 - Each approximately ½-mile long.
- Assess existing capped landfills and conduct additional actions if deemed necessary:
 - 16 individual sites; about 94 acres total.
- Clean up contaminated soil:
 - From historical leaks, spills, and releases.
 - Treat where necessary and dispose of contaminated soil.
- Ensure effective groundwater remediation:
 - 5 plumes actively being cleaned up.
- Leave site in a condition that supports the community's vision.

Where the Work will be Done:

GDP Facilities; Landfills; Soils; Plumes



5 Groundwater Plumes on Site



X-701B

X-740

X-749

7-Unit Area

5-Unit Area

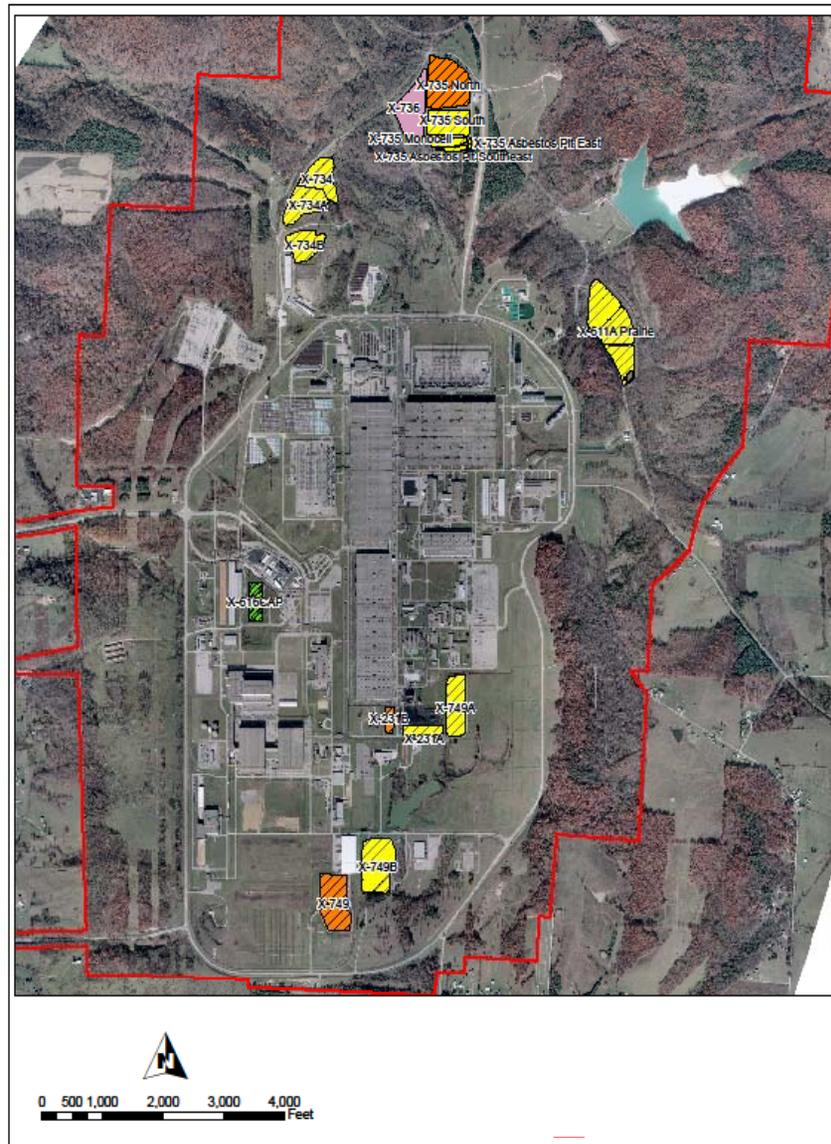


Existing Capped or Closed Landfills and Capped Soil Contamination Areas



Approximately
94 Acres Total

16 Individual
Sites



Waste and Contaminated Soil Volumes

Rough Estimates



Process Gas Equipment	320,000 cu. yds.
Concrete from Structures	530,000 cu. yds.
Metal – High Recycle Potential	110,000 cu. yds.
Metal – More Difficult to Recycle	310,000 cu. yds.
Other Debris and Misc. Waste	230,000 cu. yds.
Contaminated Soil	500,000 cu. yds.
Total	2,000,000 cu. yds.

- Volumes are preliminary and subject to revision.
- Volumes do not include: any consolidation of landfills or excavation of plumes, roadways and concrete storage pads, inventoried drummed waste, and building personal property inventories.

Decisions to Set Course for Clean-up



- Land use after clean-up.
- Final clean-up levels for water and soil.
- Where the waste will go.



Future Use Decision – What and When



- SSAB to provide recommendation on post-D&D representative future use by **end of 2011**, for inclusion in the two CERCLA RI/FS's and the RCRA RFI/CMS.
- SSAB to provide input/recommendations to DOE/SODI on expectations for final configuration of site (infrastructure and grading) by **end of 2011**.
- SODI, DOE, and FBP to work together to create detailed map of post-D&D configuration by **end of 2011**. Serve as end goal for D&D Project.

Clean-up Levels – What and When

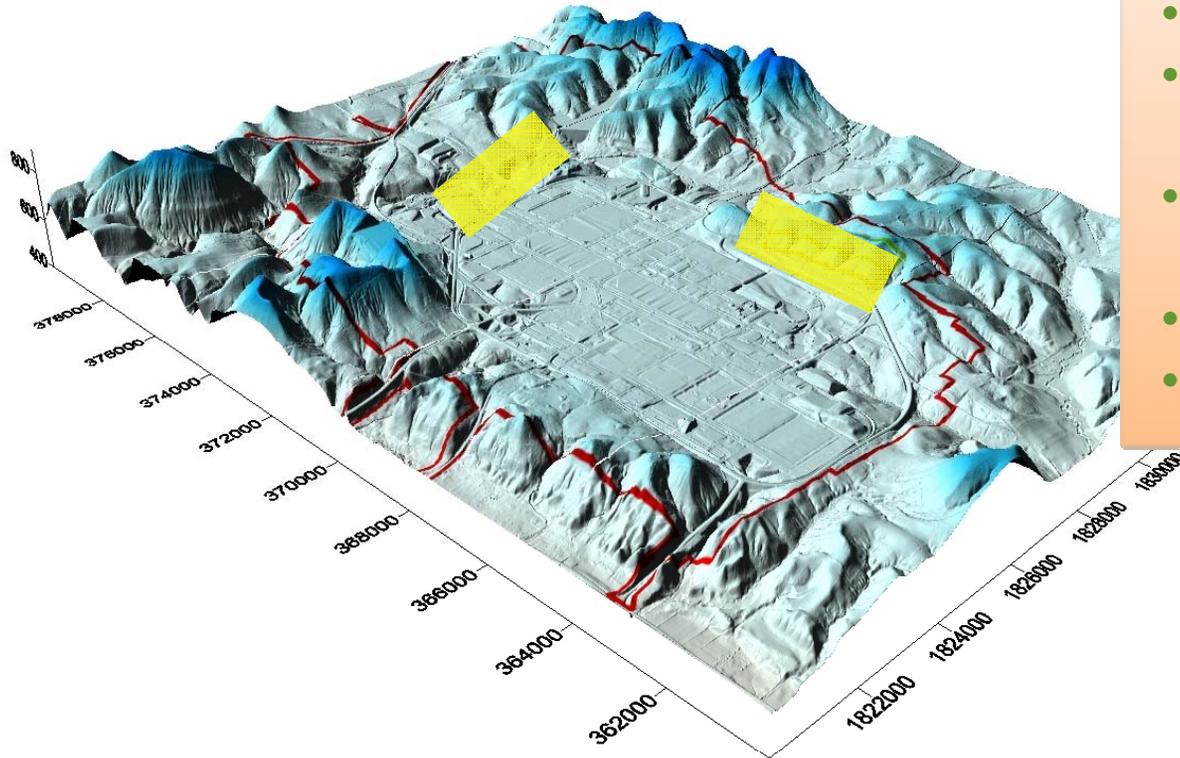


- Clean-up levels are comprised of three elements:
 - Future use/receptor scenario.
 - Numerical level/risk level (i.e., Incremental Lifetime Cancer Risk, or ILCR 10^{-4} to 10^{-6}).
 - Depth.
- General recommendations from the SSAB are relevant to the range of clean-up levels that DOE and Ohio EPA should consider by **end of 2011**.
- Based on DOE and Ohio EPA analysis of the general recommendations, provide specific recommendations on desired cleanup levels.
 - Provide this input to support the RFI/CMS by **March 2012**.

Waste Disposal Decision – What and When

- Recommendation on specific location for purposes of analysis and design by end of **September 2011**. Don't need to buy into acceptability at this point.
- Recommendation on acceptability of on-site disposal and endpoint objectives of recycle efforts by **March 2012**.
- If on-site disposal is acceptable, other recommendations will be based on review of Waste Disposition RI/FS -- any design considerations including visual considerations, such as grass versus rock cover, by **March 2012**.
- Other recommendations on design as it unfolds through **mid-2013**.

On-Site Disposal Factors



- Footprint could be up to 105 acres.
- 2 areas being studied.

Location Factors

- Best available geology
- Compliance with the regulations
- Compatible with future site uses
- Cost
- Logistics

Size/Volume Factors

- Volume of non-recyclable contaminated debris
- Soil-to-debris placement ratio for structural stability
- Desire to consolidate existing landfills
- Waste Acceptance Criteria
- Desired height

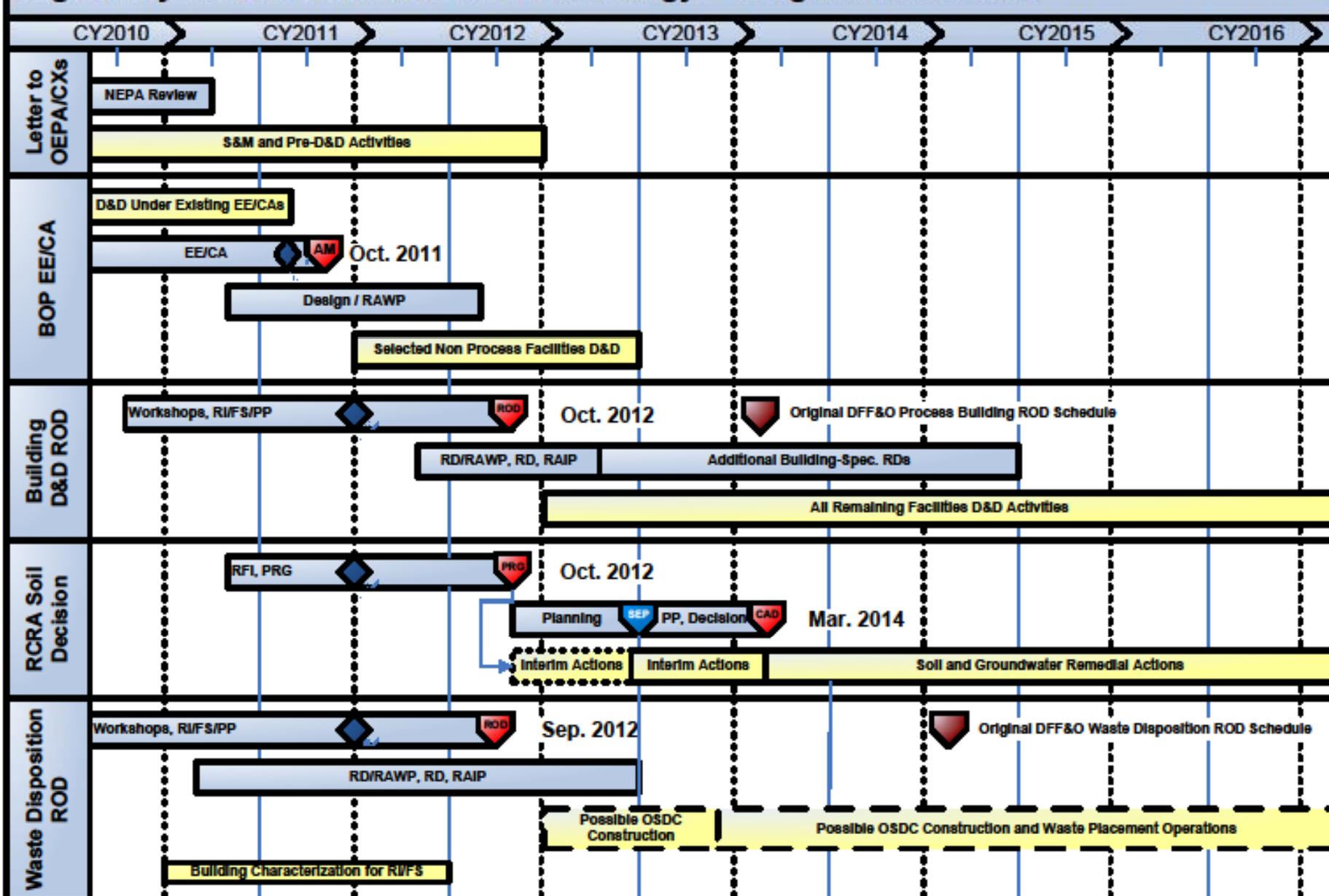
Forecasted Waste Disposition Volumes – Rough Estimates



Off-site Disposal – High Probability of Exceeding On-Site Disposal Criteria	100,000 cu. yds.
High Potential for Recycle	110,000 cu. yds.
On- or Off-site Disposal – Focus of Waste Disposal Decision	1,790,000 cu. yds.
Total Volume	2,000,000 cu. yds.

- **Projected On-site Disposal Cell Volumes:**
 - Range from 2.4 M to 4.5 M cu. yds.
- **Projected On-site Disposal Cell Footprints:**
 - Range from 60 to 105 acres.
- **All projections assume a 2-to-1 soil-to-debris placement ratio.**

Regulatory Decisions and Document Strategy – Integrated Schedule



Decision Document Status



- Working closely with Ohio EPA to streamline and accelerate decision process to support 2024 vision.
- Balance of Plant EE/CA:
 - Input received via meeting minutes from SSAB Subcommittees to be addressed in final version issued for public comment.
 - Document submitted to Ohio EPA for second review.
 - Public comment period this summer.
- Process Building RI/FS:
 - Work Plan and Pre-Investigation Evaluation Report submitted for Ohio second review.
 - Public comment period on proposed plan projected for second quarter 2012.

Decision Document Status



- **Waste Disposition RI/FS:**
 - RI/FS Work Plan submitted to Ohio EPA for review.
 - Process Gas System Sampling Plan conditionally approved by Ohio EPA; sampling initiated while final comments being resolved.
 - Geotechnical Sampling Plan submitted to Ohio EPA for Review; field work underway while final comments being resolved.
 - Geochemical Study Sampling Plan to be submitted for review next month.
 - Public comment period on Proposed Plan projected for second quarter 2012.
- **Soil/Groundwater/Landfill RCRA Decision Documents:**
 - Scoping workshop with regulators in mid-July.

Next Steps



- Information needed from us to support the annual SSAB retreat.
- What do you want to see from us to support the requested recommendations?
- Future meetings – topics and schedules.

Upcoming Public Involvement Activities

- Summer 2011:
 - Balance of Plant EE/CA public comment period.
 - Fact sheets on Public Involvement and NHPA mitigation.
 - Roll out Envoy Program.
- September 2011:
 - Hold full public meeting (continue quarterly).
- Second quarter 2012:
 - Process Building RI/FS public comment period.
 - Waste Disposition RI/FS public comment period.