PORTSMOUTH EM
SITE SPECIFIC ADVISORY BOARD

•OSU Endeavor Center• 1862 Shyville Road • Piketon, Ohio 45661 • (740) 289-5249 •

Proposed Agenda for the July 7, 2011 Board Meeting

Chair
Richard H. Snyder
Vice Chair
Larry A. Parker

Board Members
Shirley A. Bandy
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Lindy A. Coleman
Martha A. Cosby
Ervin S. Craft
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Michael J. Lilly
Sharon E. Manson
Daniel J. Minter
R. Daniel Moore
Michael E. Payton
Cristy D. Renner
Roger G. Scaggs
Terri Ann Smith

Deputy Designated Federal Official
Joel Bradburne

DOE Federal Coordinator
Greg Simonton

6:00
Call to Order, Introductions
Review of Agenda
Approval of May Minutes

DDFO Comments	**--15 minutes**
Federal Coordinator Comments	**--10 minutes**
Liaison Comments	**--10 minutes**
Presentation - Visioning Team Update- Ohio University	**--30 minutes**
Update - FLUOR B&W Community Commitment Plan - Jerry Schneider	**--30 minutes**
Administrative Issues	**--25 minutes**
Subcommittee Updates	**--5 minutes**

Motions
First Reading of the amendment to the Operating Procedures: ***Section VI. Board Structure C 3a. fourteen days changed to seven days*** *as proposed by the Executive Committee*

Recommendation 11.02 **- The construction of a multi-purpose facility for DOE and community needs**	**--10 minutes**
• Public Comment	**--5 minutes**
Proposed recommendations of the EM SSAB CHAIRS	**--10 minutes**
• Public Comment	**--5 minutes**
Public Comments	**--15 minutes**
Final Comments from the Board	**--10 minutes**

Adjourn

Support Services
EHI Consultants, Inc.
1862 Shyville Road
Piketon, OH 45661
Phone 740.289.5249
Fax 740.289.1578

DEPUTY DESIGNATED FEDERAL OFFICIAL PRESENTATION

JOEL BRADBURNE, PORTS SITE LEAD
U.S. DEPARTMENT OF ENERGY

Portsmouth Site Specific Advisory Board
July 7, 2011

AGENDA

1. Plant Developments
2. Regulatory Progress
3. Public Outreach
4. Calendar

PLANT DEVELOPMENTS

- PROCESS BUILDING DEACTIVATION ACTIVITIES
  - X-326
    - Excess Material Removal Under Way
    - Continuing Cell Treatments for Material Holdup
    - Performing Sample Characterization for Cascade
  - X-330
    - Performing Preventative Maintenance for Crane Operations
    - Continuing Removal of Lube Oil Lines and Control Valve Lines
    - Preparing Sample Characterization for Cascade
  - X-333
    - Performing Preventative Maintenance for Crane Operations
    - Continuing Removal of Lube Oil Lines and Control Valve Lines
    - Preparing for Sample Characterization for Cascade

PLANT DEVELOPMENTS

- SUPPORT FACILITIES UPDATE
  - X-344B (MAINTENANCE STORAGE BUILDING)
    - Demolition Under Way
  - X-334 (TRANSFORMER CLEANING FACILITY)
    - Remediate Concrete and Debris Complete
  - X-630 (COOLING TOWER COMPLEX)
    - Continuing to Package Debris
    - Demolition of Pump House

Demolition of the X-344B is under way.

PLANT DEVELOPMENTS

- CONTAMINATED SCRAP REMOVAL
  - ARRA Buy-Back Project Under Way
    - Scrap Material for Shearing, Resizing Operations and Packaging (Laydown Area Located on West Side of X-720 Building)
- X-701B (TCE REMEDIATION)
  - FBP is contouring the soil to grade in preparation for seeding and strawing
  - FBP has been decontaminating excavation and shoring equipment (i.e., excavators, bulldozers, etc.) and returning to vendors.

PLANT DEVELOPMENTS

- FACILITY DE-LEASE UPDATE
  - USEC submitted a request to the Nuclear Regulatory Commission on June 28, 2011, to cease its Certificate of Compliance.
  - USEC's submission supports the return of multiple facilities to DOE.

PLANT DEVELOPMENTS

- DEPLETED URANIUM HEXAFLUORIDE (DUF_6) CONVERSION FACILITY UPDATE
  - Babcock and Wilcox Conversion Services (BWCS) declared Line 1 operational on June 13, 2011.
  - BWCS' current plans call for Line 2 and Line 3 to be operational by September 30, 2011.

PLANT DEVELOPMENTS

- INVESTMENT RECOVERY UPDATE
  - SODI DEVELOPMENTS SINCE MAY
    - X-533 East scrap pile has been completely removed from site as part of the DOE/Southern Ohio Diversification Initiative (SODI) Asset Transition Agreement.
    - SODI has awarded a local scrap vendor – J&H Erectors of Portsmouth – a contract to remove approximately 7,500,000 pounds of metal from the X-533/X-633 West scrap pile. J&H has equipment staged and material began moving off-site June 16, 2011. J&H has hired additional, local workforce to support this material movement effort.
    - DOE currently investigating the transfer of three wells in the X-608 Well Field to the Village of Piketon to address production and capacity needs and to allow for future community growth.

PLANT DEVELOPMENTS

- PUMP AND TREAT
  - Four On-Site Groundwater Treatment Facilities
    - 26.3 million gallons of water processed to date in Fiscal Year 2011
    - 35.5 gallons of trichloroethene (TCE) removed in Fiscal Year 2011

- ENHANCED ANAEROBIC BIOREMEDIATION (EAB)
  - Quadrant II Groundwater Investigative (7-Unit Area)
    - First and second rounds of monthly sampling activities for the EAB Interim Remedial Measure was completed on April 25, 2011, and June 14, 2011
    - Second round of EAB injections was completed June 9, 2011
  - DOE will have a meeting in July 2011 with Ohio EPA to discuss groundwater sampling results from the second round of sampling that was conducted in June 2011

REGULATORY PROGRESS

- REGULATORY UPDATE (CERCLA)
  - BALANCE OF PLANT (BOP) ENGINEERING EVALUATION/COST ANALYSIS (EE/CA)
    - SSAB reviewed and commented on BOP EE/CA during combined Waste Disposition and Future D&D/Recycling subcommittee meeting on May 24, 2011
    - Document submitted to Ohio EPA for second review
      - **Public Comment Period Expected Late Summer**

  - PROCESS BUILDING REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLAN
    - Document submitted to Ohio EPA for second review
    - SSAB Recommendation on RI/FS Report Requested by End of CY 2011
      - **Public Comment Period Will Accompany Proposed Plan Issuance (estimated in CY 2012)**

REGULATORY PROGRESS

- REGULATORY UPDATE (CONTINUED)
  - WASTE DISPOSITION REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLAN
    - RI/FS Work Plan delivered to Ohio EPA for review
    - SSAB Recommendation on RI/FS Report Requested by End of CY 2011
      - **Public Comment Period Will Accompany Proposed Plan Issuance (estimated in CY 2012)**

REGULATORY PROGRESS

- SUPPORT FACILITIES UPDATE
  - Well Drillings
    - Advanced Geological Services performed sub-surface surveys of boring locations at potential on-site disposal cell site study areas A, C, and the “borrows area.”
    - APX has been and continues to survey areas for boring locations at the potential on-site disposal cell areas.
    - M&W Drilling of Knoxville, Tennessee, has been installing piezometer (7) and monitoring (2) wells for soil characterization in potential on-site disposal cell study areas A and C. Phase 1 has been completed and DOE is reviewing implementation schedule for Phase 2.

PUBLIC OUTREACH

- DOE and FBP welcomed commissioners from the four-county region to the plant site for a tour on Friday, June 24, 2011.
- DOE and FBP welcomed Ohio University personnel participating in the Department of Energy Educational Assistance Grant to the plant site for a tour on June 22, 2011.
- A tour for mayors of the four-county region is scheduled for Wednesday, July 27, 2011.
- A tour for media representatives in the four-county region is being planned.
- FBP is planning a full public meeting to summarize the status of cleanup decisions and other operational aspects in early September.

CALENDAR

- SUBCOMMITTEE MEETINGS
  - July 12, 2011
    - Future D&D/Recycling **AND** Waste Disposition (4:30 p.m., Room 165)
    - Historical Preservation and Legacy **AND** Community Involvement (6:30 p.m., Room 165)

- EXECUTIVE COMMITTEE MEETING
  - July 28, 2011

- EXECUTIVE PLANNING SESSION
  - August 12-14, 2011
  - Cincinnati, Ohio

PORTSFUTURE

PUBLIC OUTREACH FOR THE PORTSMOUTH GASEOUS DIFFUSION PLANT

July 7, 2011 Update

PORTS FUTURE

Ross
Pike
Jackson
Scioto

Ohio University (OU) Public Outreach Project Timeline

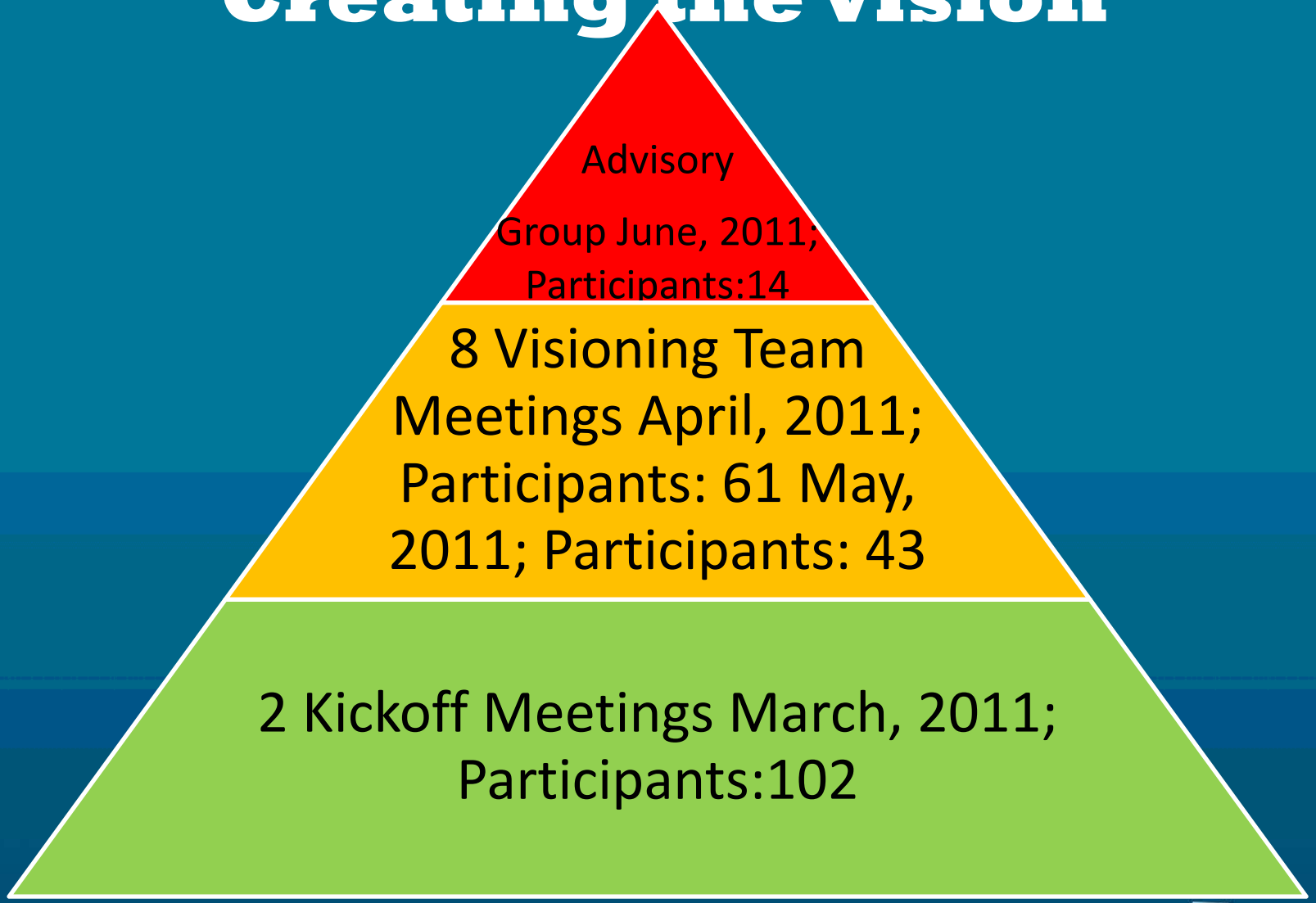
Summer-Fall 2010	Summer-Fall 2010	Fall 2010	Winter-Spring 2011	Spring 2011	Summer-Fall 2011
Identify and interview key people Outreach at county fairs and other local events	Focus groups Develop telephone survey	Conduct telephone survey	Convene visioning teams and hold public meetings Continue outreach activities	Present and discuss suggestions/findings/ results of Visioning Teams with public	Outreach at county fairs and other events Submit report of public outreach activities

Completed Steps

Ongoing/Upcoming Steps

PORTS FUTURE

Creating the Vision



PORTS FUTURE

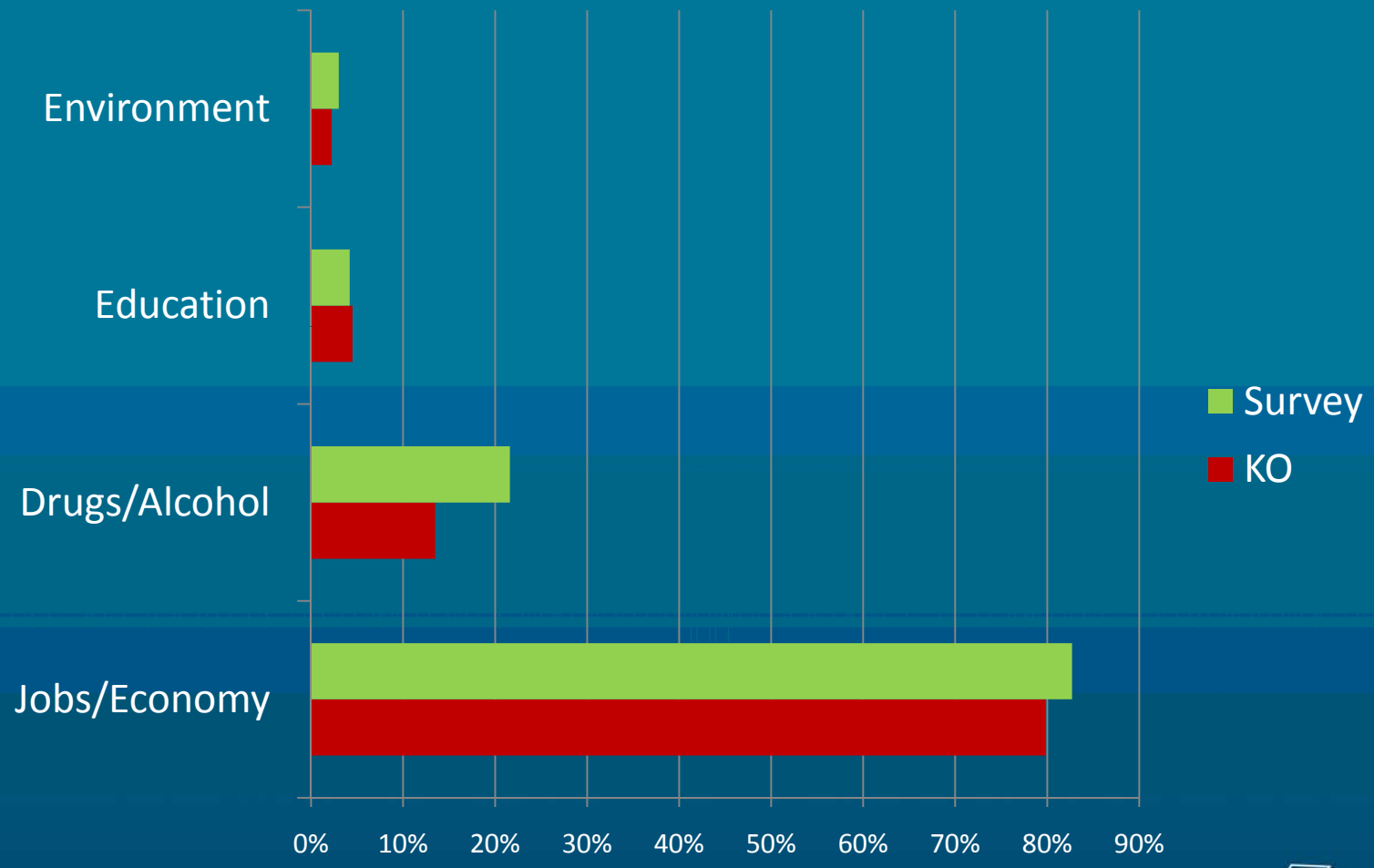
Role of Site in Future Community Vision

(Summarized from kickoff meetings)

- Jobs/Economic Growth
- Industrial Reuse
- Education
- Research and Development
- Environmental Concerns
- Improve Quality of Life

PORTS FUTURE

Biggest problems facing your community?



PORTS FUTURE

Scenario Development

- Visioning Teams
  - Drafted 76 scenarios
  - Finalized 19 scenarios
- Advisory Group
  - Combined 19 scenarios into 9
  - Rated all 9 scenarios

PORTS FUTURE

Scenario Rating Process

Criteria

1. Environmental conditions
2. Land/facility encumbrances or compatibility
3. Community support
4. Economic/Market conditions
5. Cost considerations
6. Job creation
7. Public health/environmental impact
8. Overall feasibility

Rating

On each criterion rated scenario:

- 1 ("Poor fit")
- 2 ("Good fit")
- 3 ("Excellent fit")

Total scores from advisory council ranged from 163-240

PORTS FUTURE

Final Scenarios for Public Vetting

Theme
Industrial Park
Green Energy Production
Multi-use Southern Ohio Education Center
National Research & Development
Training & Education
Greenbelt
Warehousing, Distribution, & Transportation Hub
Nuclear Power Plant
Metal Recovery

PORTS FUTURE

These scenarios attempt to encapsulate ideas and justifications of the county visioning team participants as accurately as possible and will be used for public vetting.

PORTS FUTURE

Health and wellness

Historical park and recreation

Open areas

Heavy manufacturing

Post consumer recycling

Industrial park shipping

Renew. energy mfg.

Medical research

Chemical products

PORTS FUTURE

Health and Wellness Facility

Historical park & recreation

Green areas for future use

R&D alternative/ renewable energy

Mfg. for alt/renew energy

Alt. energy power gen.

Green energy consumer products

Supplier warehouse & distribution

Steel recycling

Green tech education

PORTS FUTURE

Light industry

R&D on renew. energy

Education and training

Green space and wildlife reserve

Education and nonprofit offices

Earthworks restoration

Museum and cultural center

PORTS FUTURE

Health and wellness

Historical park and recreation

Green space and wildlife reserve

R&D to support national labs, etc.

Underground nuclear collider

Automotive research

Alter. Energy generation & distribution

PORTS FUTURE

Health and wellness

Historical park and recreation

Green space and wildlife reserve

Substance abuse facility

Military & ER training

Displaced worker training

STEM School

PORTS FUTURE

Heavy industry/ clean mfg

R&D on renew. energy

Light industry

Green space and wildlife reserve

Education and nonprofit offices

Education and training

Museum and cultural center

PORTS FUTURE

Health and wellness

Historical park and recreation

Green space and wildlife reserve

Ware-housing similar to Rickenbacker

Commercial distribution & storage

PORTS FUTURE

Power Generation Facility

PORTS FUTURE

Smelter

Recovering contaminated metals

R&D

Recycling metals

Processing metals

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Economic Modeling of Scenarios

- Goal
  - Estimate overall economic contribution of each scenario
- Methodology
  - Input/Output analysis
    - Centered around inter-industry transactions: outputs from one industry become inputs to another
    - for example, automobile producers use steel, glass, rubber, and plastic products to produce automobiles.
  - Key estimate is a multiplier
  - Estimates accurate within 5%

PORTS FUTURE

Next Steps

- Public vetting
  - Fairs
  - Speaking engagements
  - Electronic vetting (via web survey)
- Final report
  - Summarizes public participation history
  - Process
  - Includes all scenarios

PORTS FUTURE

Community Commitment Plan Report – July 2011

Presentation to

Portsmouth EM Site-Specific Advisory Board

"Value of Long-term Planning"

By Jerry Schneider, Senior Manager, Public Affairs

Fluor-B&W | Portsmouth

7 July 2011

Comparing communities: SE Washington State and Southern Ohio

- Far from major cities?
- Dominant local employer?
- Demolish aging facilities?
- Remediate groundwater, contaminated soil?
- Preserve usable infrastructure?
- Release areas suitable for potential reuse?
- Decades of planning?

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Shared Vision for Region

- Enhancing public engagement
- Aligning with DOE, State on decision points
- Restoring Site to cleaner environment
- Approaching decisions with “long view”
    - Site is enduring asset
    - Accomplishment of core mission justifies investment
    - More attractive for new missions, private investment
    - Training ground for next generation workforce
    - Industry, Government partnerships

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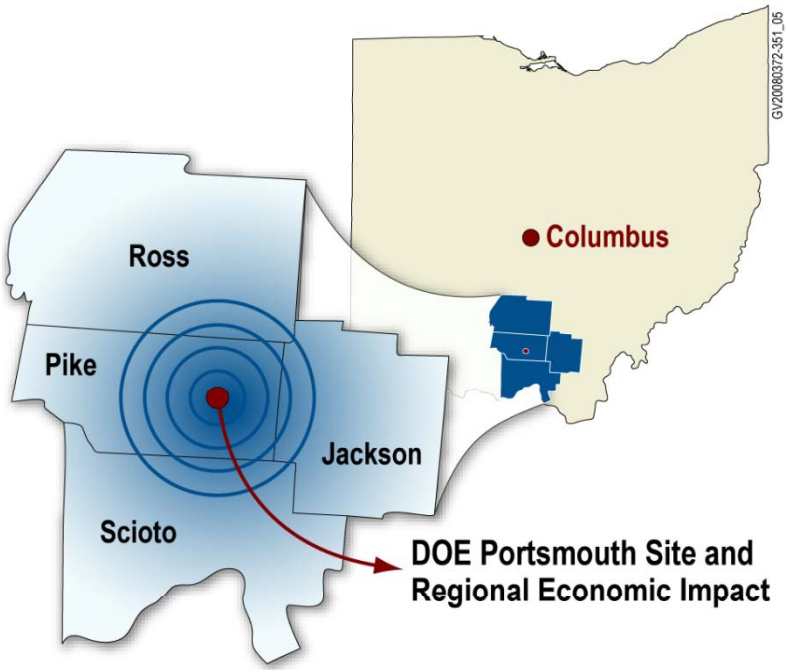
Our Commitment to the Community

- Purpose of Community Commitment Plan:

  Contributing to regional economic stabilization and growth, especially in the four counties surrounding DOE Site



Commitment Plan Approach

- Form dedicated Steering Group
- Include ad-hoc member input from surrounding communities
- Establish Community Commitment Fund

Community Commitment Plan Steering Group	
Name	Role
Economic Development Consultants	Professional advisors
Jamie Jameson	Chairman/Fluor
Jim Morgan	Vice Chairman/ Facilitator
Danny Nichols	Member/B&W

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Four Categories of Commitment

- Educational Outreach
- Community Giving
- Regional Purchasing
- Economic Development

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Educational Outreach Report

- Partnering with academic institutions
- Supporting workforce development programs
- Enhancing public understanding of Site activities

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Community Giving Report

- Making charitable contributions
- Offering in-kind services
- Involving employees in community

  http://fbportsmouth.com/activities

For community involvement activities: contact Ms. Elizabeth Scott elizabeth.scott@fbports.com

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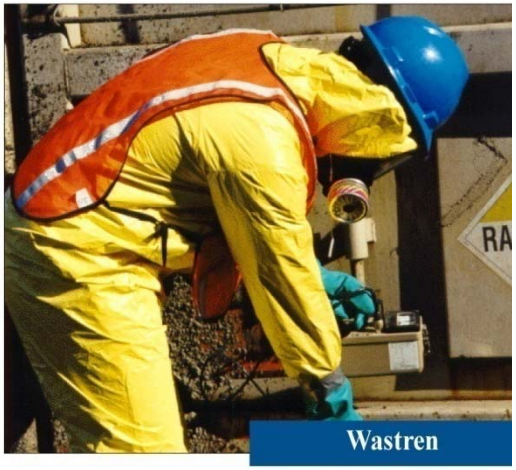
Regional Purchasing Report

- Teaming with three local small businesses
  - InSolves, Wastren, Pro2Serve
- Subcontracting based on priorities
  - Local companies, small businesses, State of Ohio



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Economic Development Report

- Partnerships with four counties
- Regional, integrated strategic planning
- Corporate economic development consultants
  - Began work in mid-April 2011

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Economic Development Report (continued)

- Kick-off meetings held in April 2011
- Initial research of private industry, major employers, including driving tour
- One-on-one interviews conducted May-June
- Meetings with State officials, Columbus regional economic development organization
- Regional economic profile due in September
  - Regional analysis of Site and surrounding area
  - Product assessment
  - Target industry analysis

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Closing: Three Ingredients Will Drive Success

- Execute cleanup work safely, on time, under budget
- Involve public in decision-making
- Work with communities to develop, implement long-term economic development strategic plan

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Community Commitment Plan Report

Questions?

GDP D&D
Regulatory Decision Process

Status Update

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July 7, 2011

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*

2010

- GDP Facilities De-leased
- D&D Contract Awarded to Fluor-B&W

2011

- Fluor-B&W Assumes Responsibility
- Begin GDP Support Buildings Demolition
- RCRA Scoping Workshop with Regulators
- Balance of Plant EE/CA Public Comment Period
- SSAB Provide Recommendations on (1) Range of Clean-up levels; (2) Representative Future Use; (3) Final Configuration Expectations; and (4) Cell Location (for Analysis/Design)
- SODI, DOE & FBP Create Detailed Map of Post D&D Configuration

2012

- **Waste Disposition ROD**
- **Building D&D ROD**
- Public Comments on Waste Disposition & Building RODs
- SSAB Recommendation on Acceptability of On-site Disposal & Endpoint Recycling Objectives. If On-site Disposal Acceptable, Provide Other Recommendations (Design, Ground Cover, Etc.)
- Soil RCRA Facility Investigation Complete
- Begin Selected non-Process Building Demolition
- Begin Soil Remediation (Interim Actions)

2013

- Begin Process Building Demolition and Disposal
- SSAB Provides Recommentations on Design & Other Issues
- Begin On-Site Disposal Cell Construction if this Alternative is Selected

2014

- **Final Soil and Groundwater Cleanup Levels Approved by Ohio EPA**
- Large-scale Soil and Groundwater Final Clean-up Underway

2024*

- **Site Ready to support Future Use**

*** Based on Current DOE Funding Projections**

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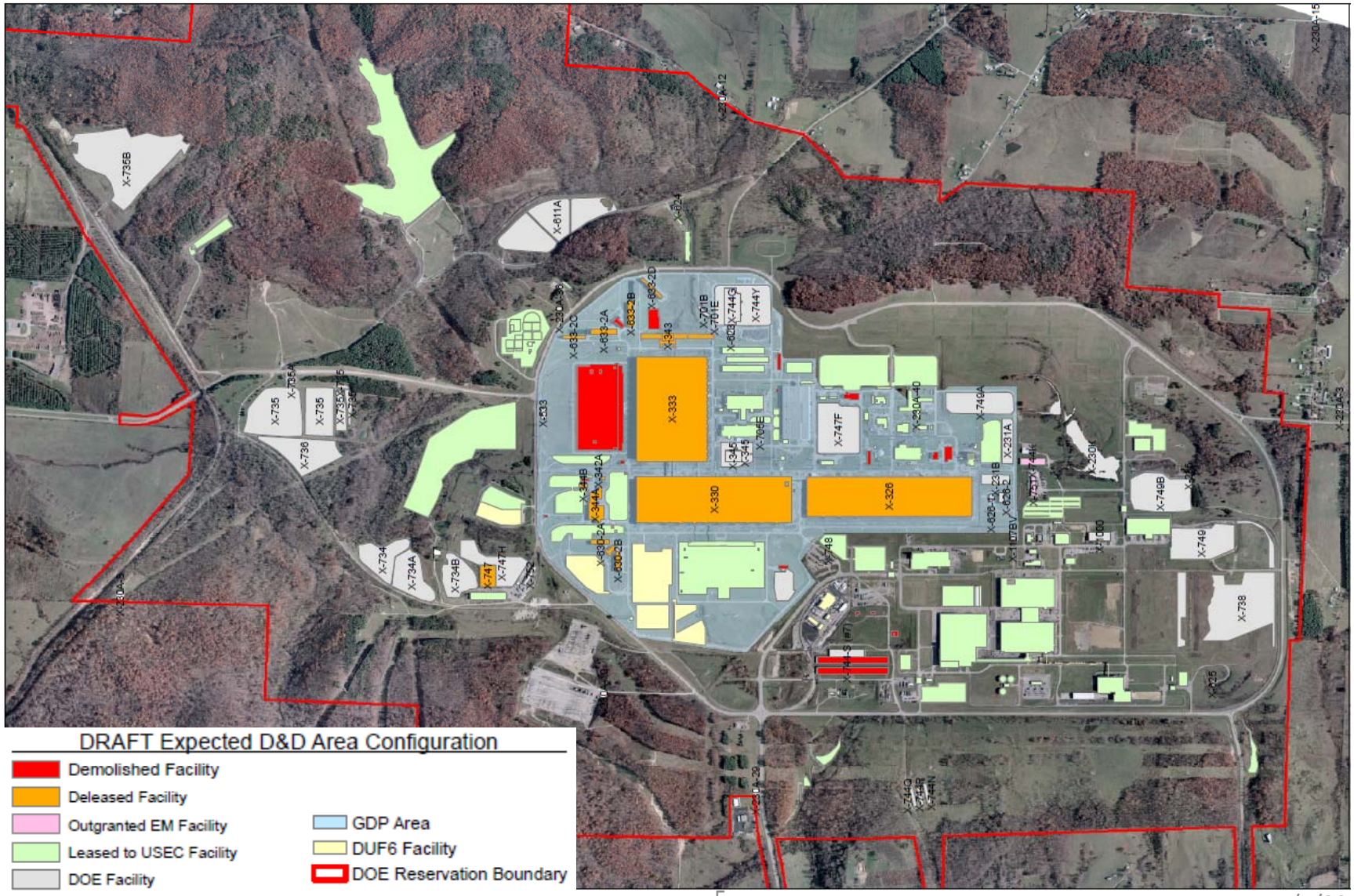
Scope of Work for D&D

- 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

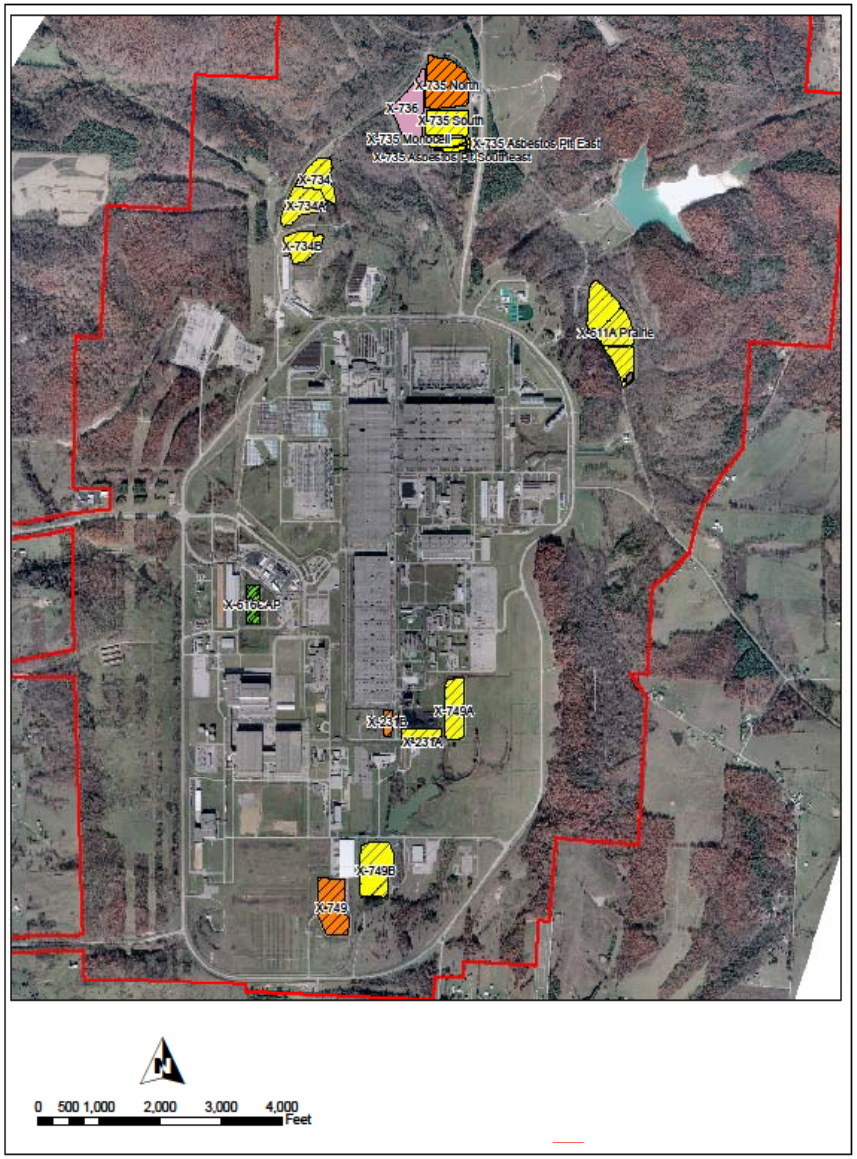
7-Unit Area

5-Unit Area

Existing Capped or Closed Landfills and Capped Soil Contamination Areas

Approximately 94 Acres Total

16 Individual Sites



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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.

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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.

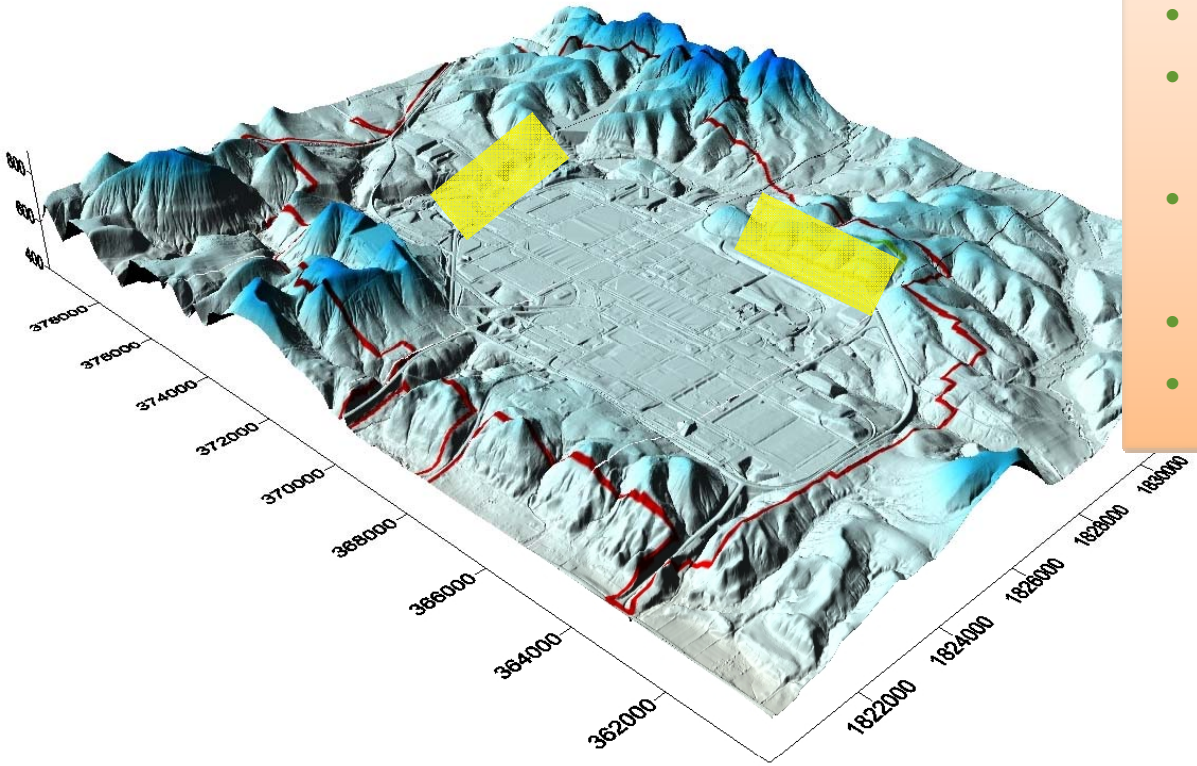
Clean-up Levels – What and When

- 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



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

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

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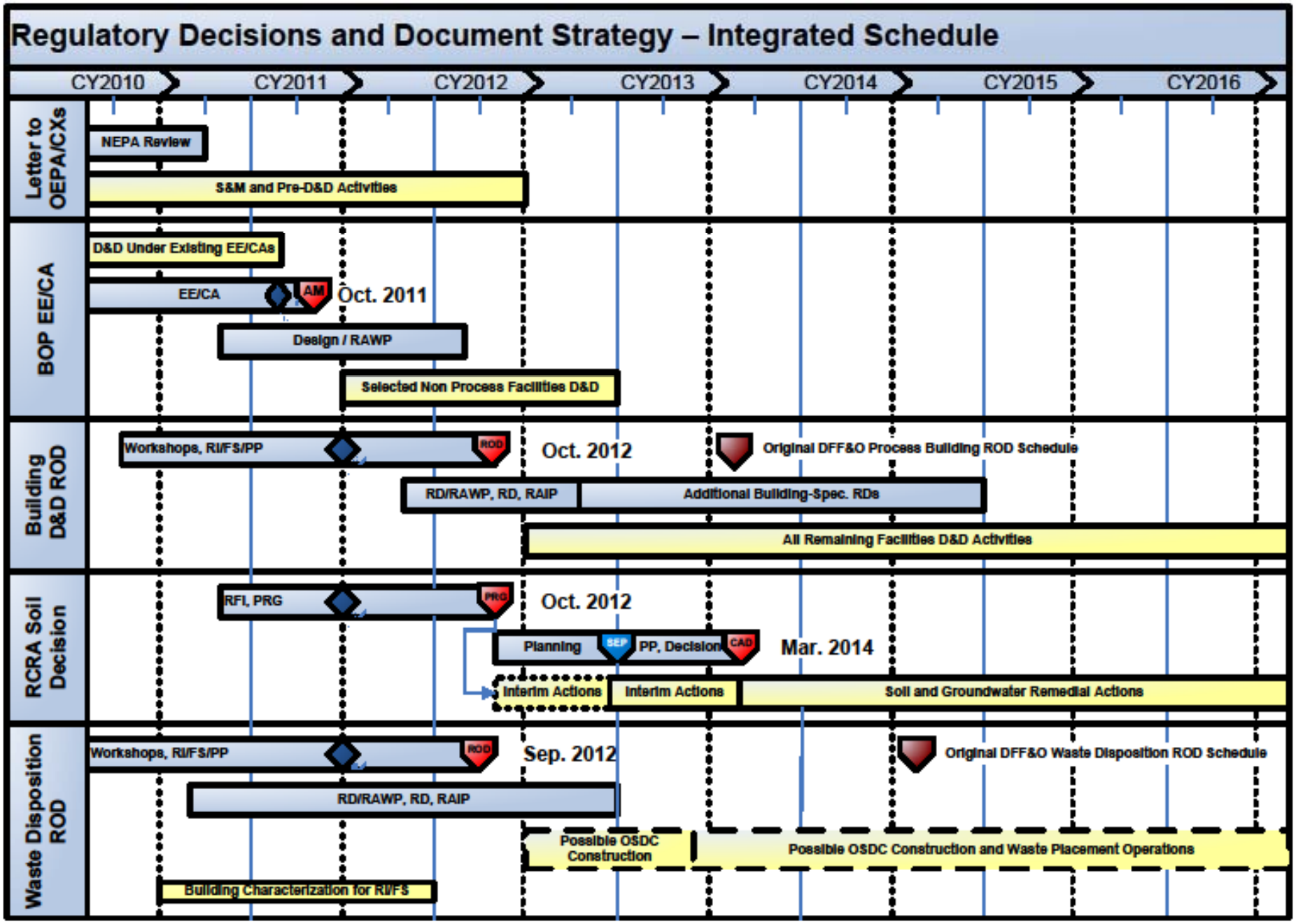
Forecasted Waste Disposition Volumes – Rough Estimates

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
CY2010
CY2011
CY2012
CY2013
CY2014
CY2015
CY2016
Letter to OEPA/CXs
NEPA Review
S&M and Pre-D&D Activities
BOP EE/CA
D&D Under Existing EE/CAs
EE/CA
AM
Oct. 2011
Design / RAWP
Selected Non Process Facilities D&D
Building D&D ROD
Workshops, RI/FS/PP
ROD
Oct. 2012
Original DFF&O Process Building ROD Schedule
RD/RAWP, RD, RAIP
Additional Building-Spec. RDs
All Remaining Facilities D&D Activities
RCRA Soil Decision
RFI, PRG
PRG
Oct. 2012
Planning
SEP
PP, Decision
CAD
Mar. 2014
Interim Actions
Interim Actions
Soil and Groundwater Remedial Actions
Waste Disposition ROD
Workshops, RI/FS/PP
ROD
Sep. 2012
Original DFF&O Waste Disposition ROD Schedule
RD/RAWP, RD, RAIP
Possible OSDC Construction
Possible OSDC Construction and Waste Placement Operations
Building Characterization for RI/FS

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.