DuPont Chambers Works FUSRAP Site Proposed Cleanup Plan Meeting Agenda

- Greetings and Introductions
- Project History/Overview
- Proposed Cleanup Plan
- Questions
- Public Comment



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MED Activities at Chambers Works

 DuPont converted uranium oxides to uranium tetrafluoride and uranium metal

 End products shipped offsite for uranium enrichment at other locations

The Federal Government called on Chambers Works to support the MED efforts due to its unique manufacturing capabilities and expertise.

MED Activities at Chambers Works

- ✓ Uranium processing began in late 1942
- ✓ Operations ceased in 1946
- ✓ Decontamination activities conducted
- ✓ Areas released back to DuPont in 1949

FUSRAP

Formerly Utilized Sites Remedial Action Program Established in 1974











- Radionuclides Only:
 - U_{nat}
 - Th-230
 - Ra-226





Environmental Sampling of All Media

	SOIL	SEDIMENT	SURFACE WATER	GROUND- WATER
AOC 1	\checkmark	n/a	n/a	✓
AOC 2	\checkmark	n/a	n/a	✓
AOC 3	\checkmark	\checkmark	\checkmark	\checkmark
AOC 4	\checkmark	n/a	n/a	\checkmark
AOC 5	\checkmark	n/a	n/a	\checkmark
AOC 6	~	\checkmark	\checkmark	\checkmark
BKG REF	\checkmark	\checkmark	\checkmark	\checkmark











Risk Assessment in Environmental Cleanups

What is Risk?

- Is there a hazard?
- How bad is it?
- Who will be exposed?





Potential Human Receptors

- Current Receptor Scenarios
 - Industrial Worker
 - Construction/Remediation Worker
 - Utility Worker
 - Maintenance Worker
- Future Receptor Scenario
 - Construction Worker
 - Residential Receptor (for comparison)

Unacceptable Risk - OU 1 and OU 3 [AOC 6]









Alternative	Description of Alternatives	
S1	No Action	
S2	Excavation Followed by	
	Off-site Disposal	
S3	Excavation Followed by Sorting	
	and Off-site Disposal	







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Alternative	Description of Alternatives	
GW1	No Action	
GW2	Groundwater Pumping & Treatment	
GW3	Monitored Natural Attenuation	



	Estimate for Each	
	Alternatives	Cost (\$ in Millions)
Soil	S1: No Action	0.0
	S2: Excavate & Dispose Offsite	33.0
	S3: Excavate, Sort & Dispose Offsite	30.0
Groundwater	GW1: No Action	0.0
	GW2: Treatment	8.1
	GW3: MNA	6.5



Preferred Alternative



Soil: \$33 M Excavation and Offsite Disposal (<1 year)

Groundwater: \$6.5 M Monitored Natural Attenuation (5 to 30 years)

Continue site access and groundwater restrictions







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