



FERNALD

Countdown to Closure

June 21, 2005

Gary Stegner - Introduction

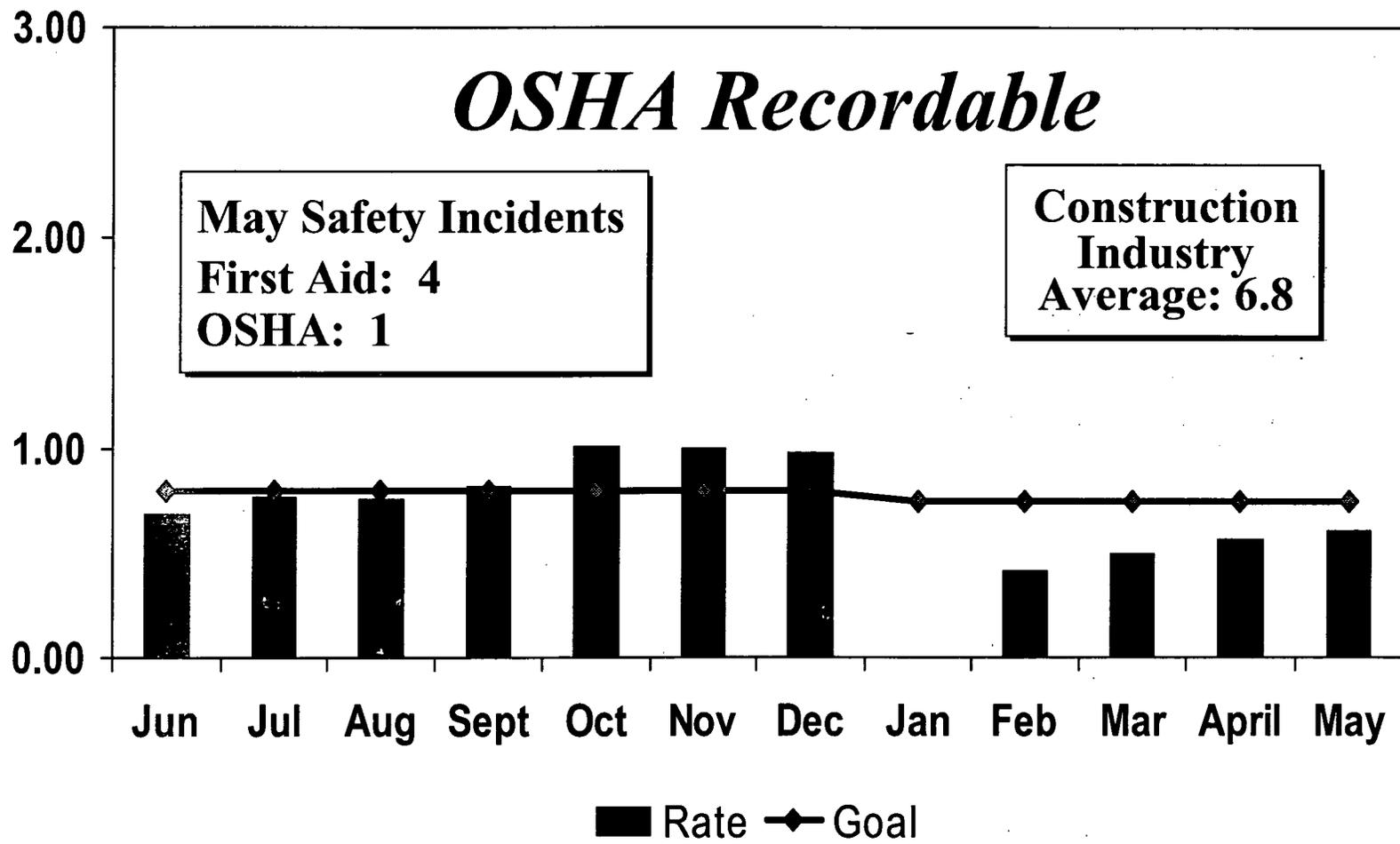
Bill Taylor - Safety
- Project Updates

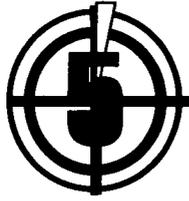
Bill Hertel - Groundwater Treatment



SAFETY INCIDENCE RATES

Countdown to Closure - Summer 2005

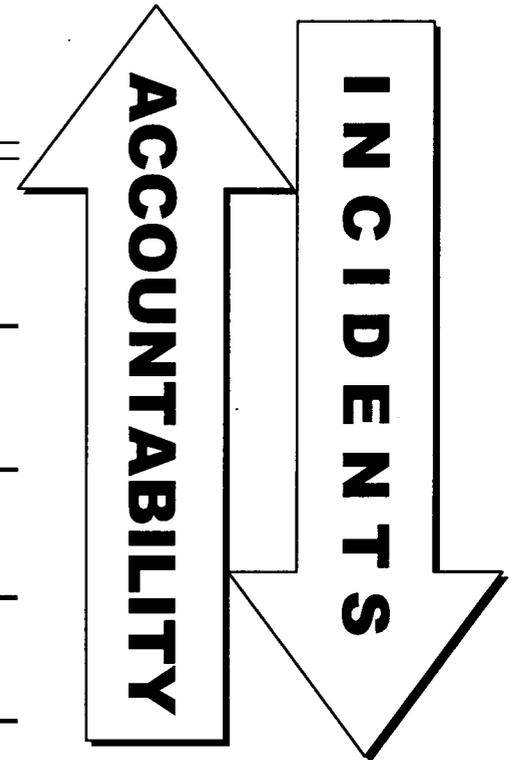




SAFETY INCIDENCE RATES

Countdown to Closure - Summer 2005

	Fluor Fernald Self Perform	Operating Wage	Fluor Fernald & Subcontractors
2002	1.74	2.68	2.06
2003	.69	.63	1.42
2004	.82	.55	1.50
2005	.21	.89	.60





FERNALD CLOSURE PROJECT

Countdown to Closure - Summer 2005

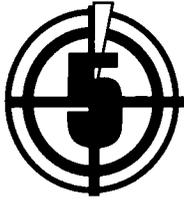




SPACE MANAGEMENT

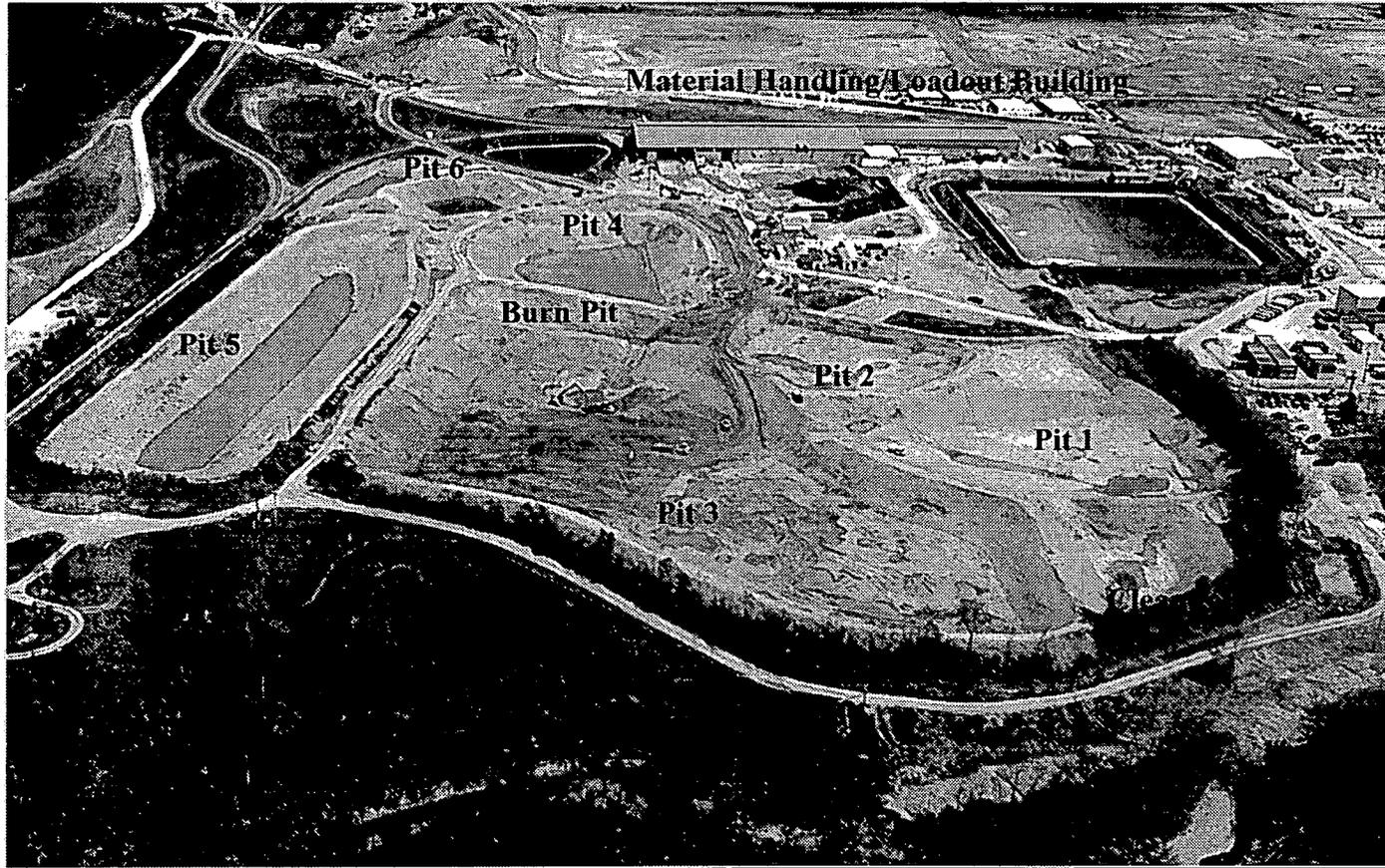
Countdown to Closure - Summer 2005

Action Items <i>(projected completion)</i>	Status	Issues
<p>09/05 - Relocations:</p> <ul style="list-style-type: none">- Move on site personnel out of leased facilities	<p>Completed 275 relocations</p> <p>Medical moved off site</p> <p>Site going wireless as power is removed</p>	



WASTE PITS

Countdown to Closure - Summer 2005



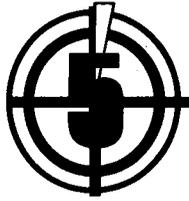
- *Excavated 1 million tons of low-level radioactive waste and transport by rail to Envirocare of Utah*



WASTE PITS

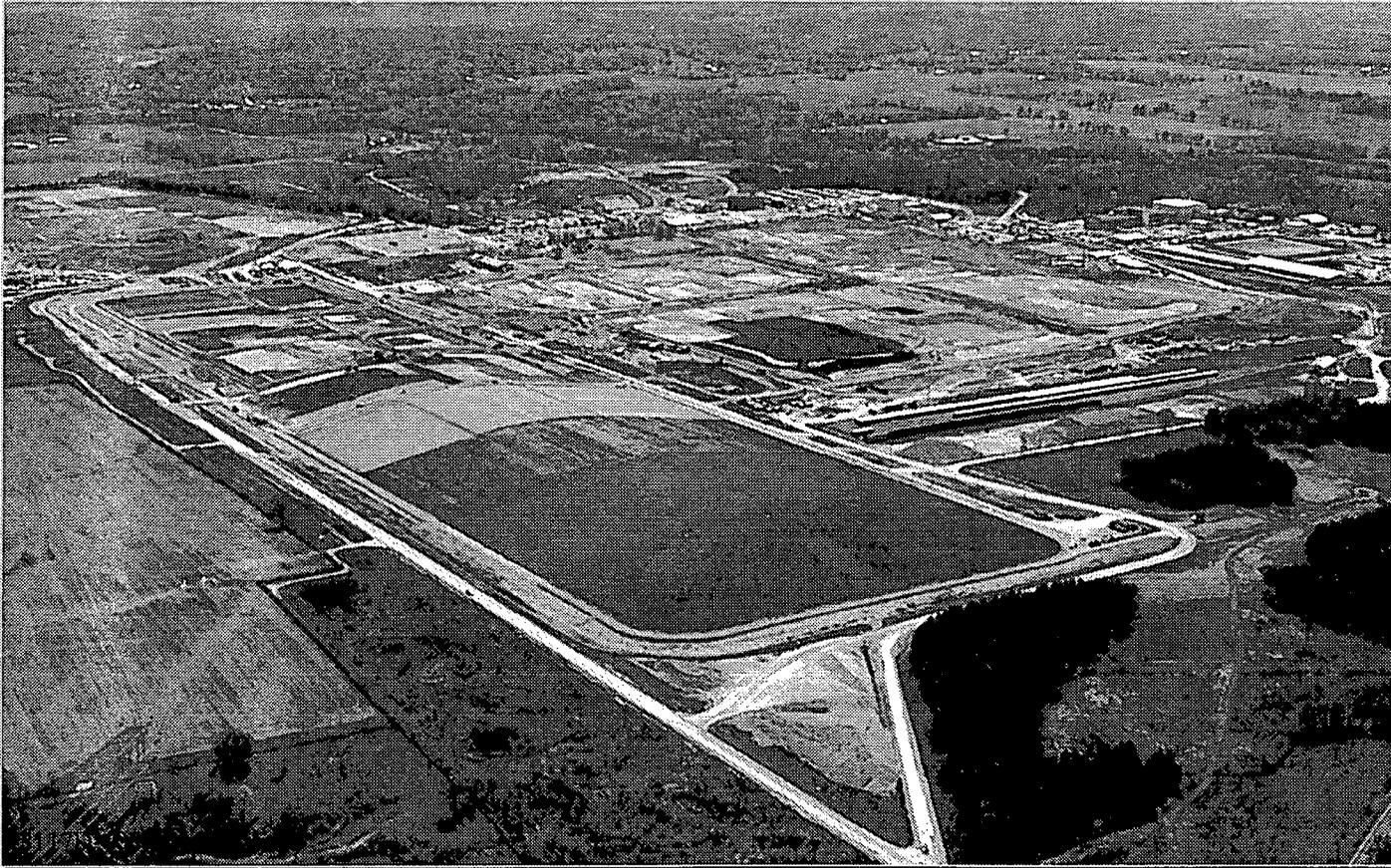
Countdown to Closure - Summer 2005

Action Items <i>(projected completion)</i> 08/05 - Treatment Facility demolition	Status Waste Pits material: - COMPLETE - 154 Unit trains - 9,100 rail cars - 979,000 tons of waste	Issues None
--	--	---------------------------



ON-SITE DISPOSAL FACILITY

Countdown to Closure - Summer 2005



- *Design, construct and operate the 2.9 million cubic yard capacity On-Site Disposal Facility*



ON-SITE DISPOSAL FACILITY

Countdown to Closure - Summer 2005

Action Items	Status	Issues
<i>(projected completion)</i>		
09/05 - Cell 5 cap construction	Cell 1 - Complete	Weather
11/05 - Cell 6 cap construction	Cell 2 - Complete	
12/05 - Cell 7 cap construction	Cell 3 - Complete	
03/06 - Cell 8 cap construction	Cell 4 - Complete	
	Cell 5 - Capping in process	
	Cell 6 - 76 percent filled	
	Cell 7 - 32 percent filled	
	Cell 8 - 18 percent filled	
	Placed over 2.2 million cubic yards of contaminated soil and debris	
	Continuing two shifts	



SOILS

Countdown to Closure - Summer 2005



- *Remediate and dispose of contaminated soil*
- *Certify site as “clean” and perform restoration*



SOILS

Countdown to Closure - Summer 2005

Action Items

(projected completion)

06/05 - Waste Pits and Treatment
Facility Soil Excavation

07/05 - 20 Unit trains of SP-7 soil

08/05 - Rail yard removal

10/05 - Area 5 Excavation

12/05 - Area 7 Excavation

Status

On-site soil certification:

- 80 percent complete

Abandoned outfall line excavation

- COMPLETE

Silos 1 and 2 berm excavation

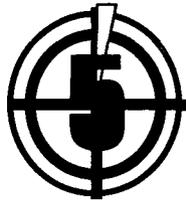
- COMPLETE

Continue soil excavation in Area
4B, Area 5, SSOD, and Paddys
Run berm

Continue scanning and removal of
above WAC materials

Issues

Uncertainty regarding demolition
of Silos 1 and 2 Waste Treatment
Facility schedule



DECONTAMINATION & DEMOLITION

Countdown to Closure – Summer 2005



- *Dismantle 255 former production plants, support structures and associated components*



DECONTAMINATION & DEMOLITION

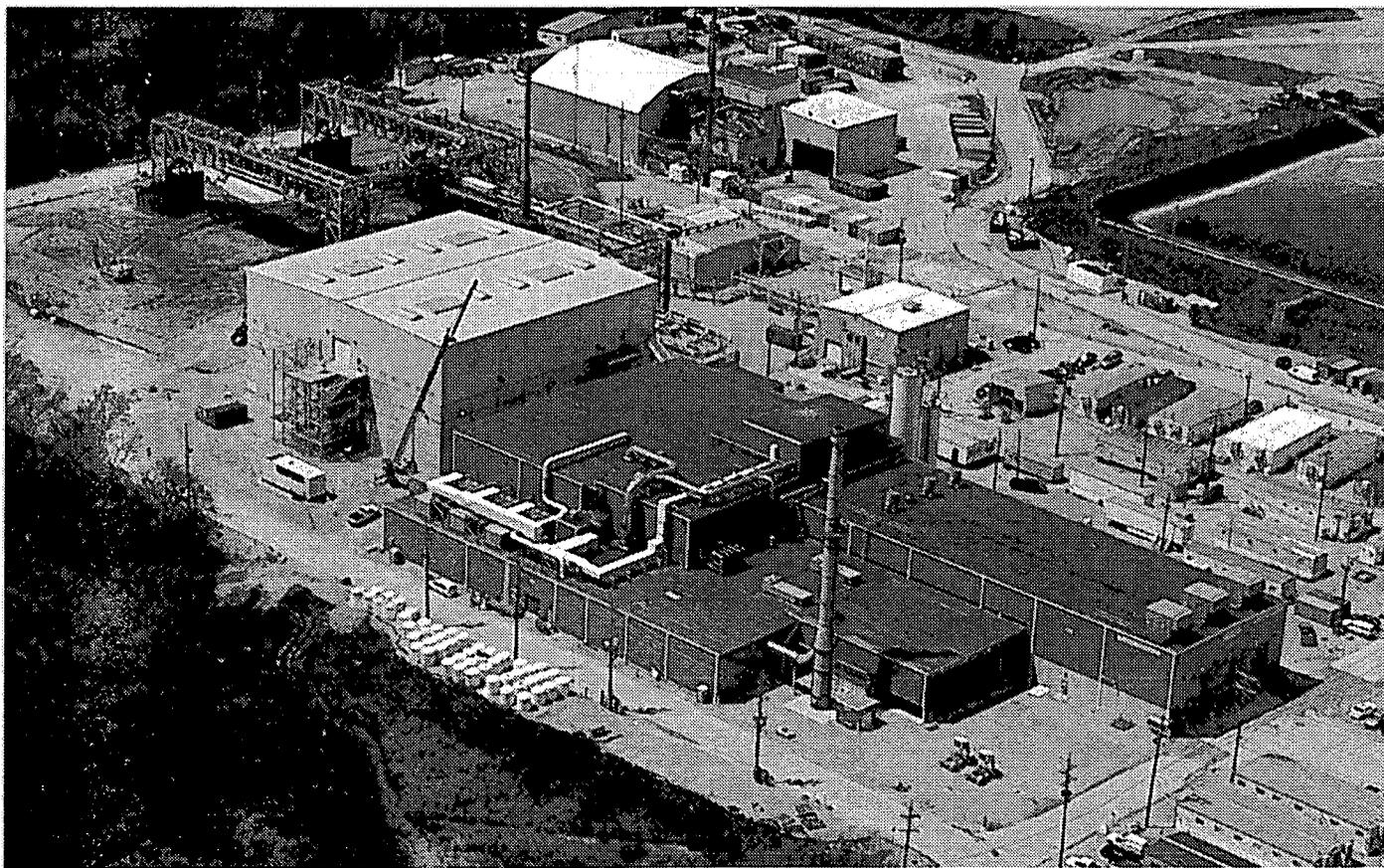
Countdown to Closure - Summer 2005

Action Items <i>(projected completion)</i>	Status	Issues
<p>07/05 - AWWT demolition</p> <p>08/05 - Waste Pits Treatment Facility demolition</p> <p>10/05 - Silo 3 Treatment Facility demolition</p> <p>10/05 - Silo 3 demolition</p> <p>02/06 - Silos 1 and 2 Treatment Facility demolition</p>	<p>Dismantled 201 of 255 buildings</p> <p>Dismantled 102 of 179 trailers</p> <p>Silos 1 and 2 demolition: - COMPLETE</p>	<p>Uncertainty regarding demolition of Silos 1 and 2 Waste Treatment Facility schedule</p> <p>Potential operational delays which could impact follow-on activities</p>

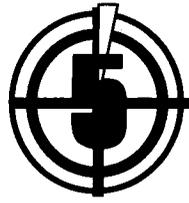


SILOS 1 AND 2

Countdown to Closure - Summer 2005



- *Stabilize 8,900 cubic yards of low-level waste, package and ship off site for disposal*



SILOS 1 AND 2

Countdown to Closure – Summer 2005

Action Items <i>(projected completion)</i>	Status	Issues
<p>12/05 - Treatment operations (2,000 est. shipments)</p> <p>02/06 - Treatment Facility demolition</p>	<p>Started treatment operations - 5/19/05</p> <p>Started waste shipping - 6/6/05</p> <p>- Three shipments to date</p> <p>- Six shipments ready</p>	<p>Potential operational delays which could impact follow-on activities</p>



SILO 3

Countdown to Closure - Summer 2005



- *Remove 5,100 cubic yards of low-level waste, condition, package and ship off site for disposal*



SILO 3

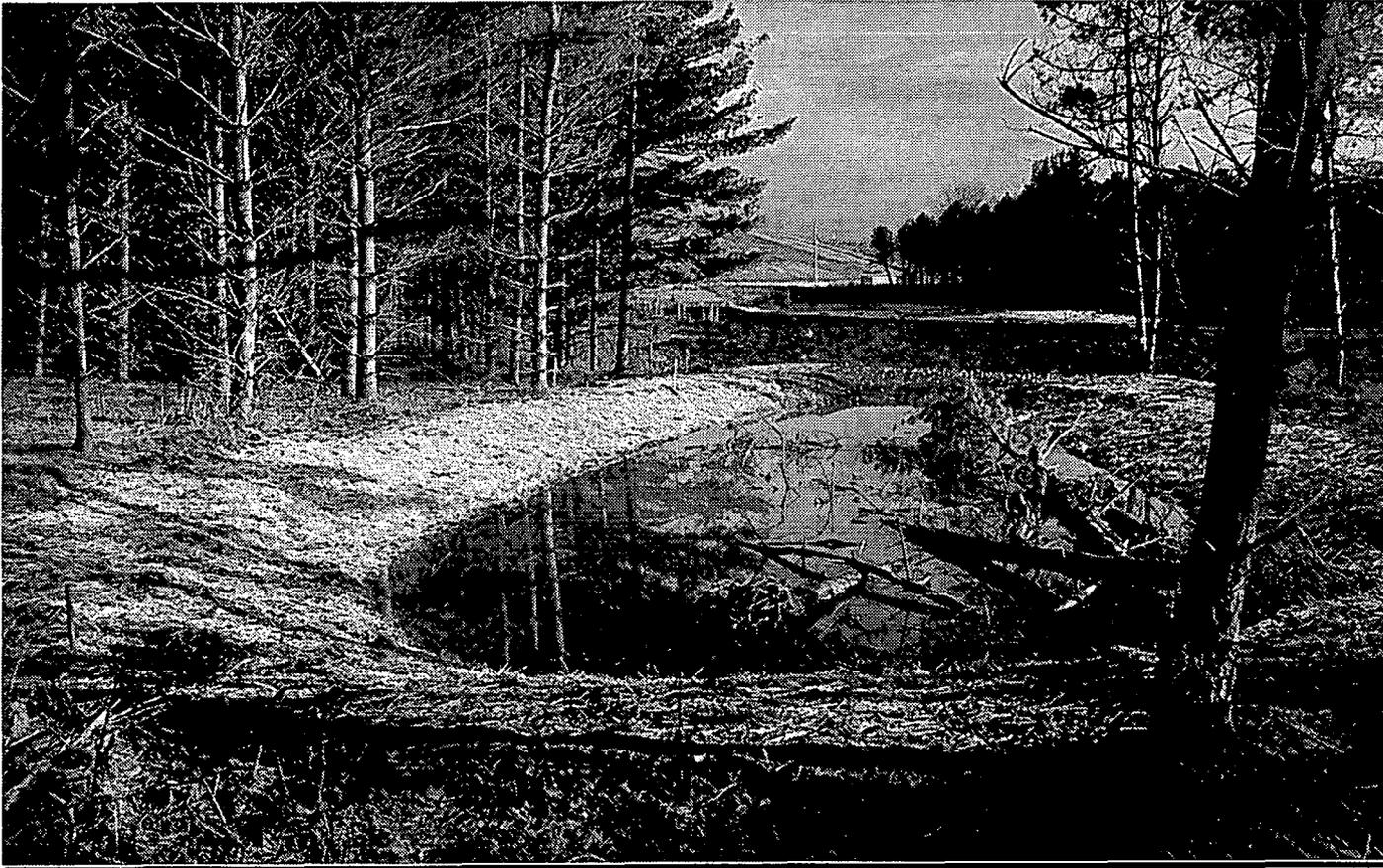
Countdown to Closure - Summer 2005

Action Items <i>(projected completion)</i>	Status	Issues
<p>08/05 - Treatment operations (1,500 est. containers)</p> <p>10/05 - Treatment Facility demolition</p> <p>10/05 - Silo demolition</p>	<p>Started treatment operations - 3/25/05</p> <p>Silo is 20 percent empty</p> <p>Started waste shipping - 4/12/05 - 383 containers shipped to date - 130 containers ready for shipment</p>	<p>None</p>

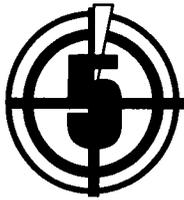


RESTORATION

Countdown to Closure - Summer 2005



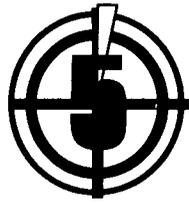
- *Restore or enhance the natural resources on 904 acres affected by plant operations and cleanup*



RESTORATION

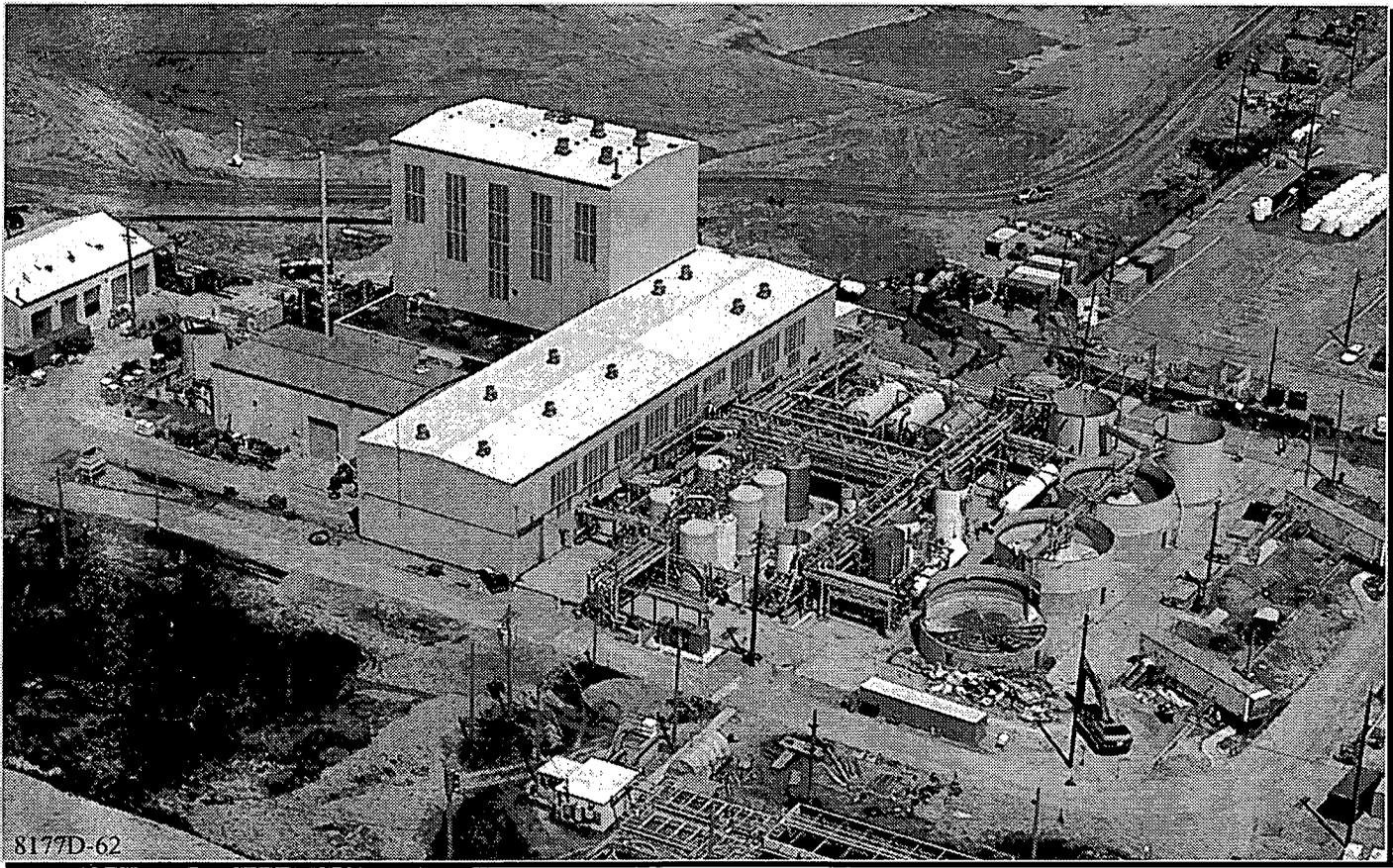
Countdown to Closure - Summer 2005

Action Items <i>(projected completion)</i>	Status	Issues
06/05 - Paddys Run west - 130 acres 06/05 - Paddys Run east - 118 acres 12/05 - Borrow and OSDF perimeter area - 190 acres 02/06 - Waste Pits area - 30 acres 03/06 - Production area - 130 acres 03/06 - Silos area - 10 acres	Restored acreage: 314 In progress acreage: 182	None



AQUIFER AND WASTEWATER

Countdown to Closure - Summer 2005



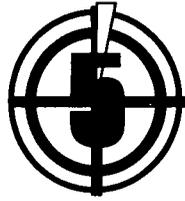
- *Treat storm water, wastewater and remediate contaminated portions of the Great Miami Aquifer*



AQUIFER AND WASTEWATER

Countdown to Closure - Summer 2005

Action Items <i>(projected completion)</i>	Status	Issues
<p>06/05 - CAWWT Stage II construction</p> <p>07/05 - Shutdown Interim AWWT and South Plume Interim Treatment facility</p>	<p>Extracted more than 17 billion gallons of groundwater since 1993</p> <p>Treated more than 10.9 billion gallons of water since 1993</p> <p>Removed 6,600 pounds of uranium since 1993</p>	<p>Working with USEPA and OEPA to address comments on the Groundwater Remedy Evaluation and Field Verification Plan pertaining to re-injection</p>



AQUIFER AND WASTEWATER

6002

Countdown to Closure - Summer 2005

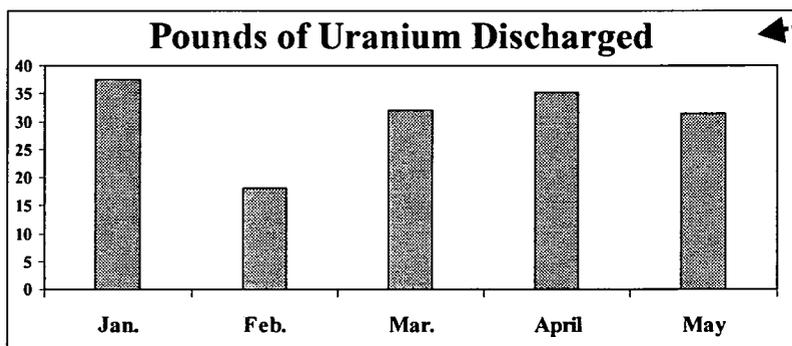
- **2005 Bypasses** (<http://www.fernald.gov/Cleanup/WaterBypass.htm>)
 - One storm water bypass in January (two-day duration)
 - No Maintenance bypasses this year
- **CAWWT Schedule Performance**
 - Plant came on line in March
 - Actual treatment flow rates very similar to design rates
 - Meeting designed uranium removal levels
- **Storm Sewer Outfall Ditch Re-injection Test**
 - Plan approved by US EPA (12/04) and Ohio EPA (3/05)
 - Completed test equipment installation (6/10/05)
 - Testing in progress



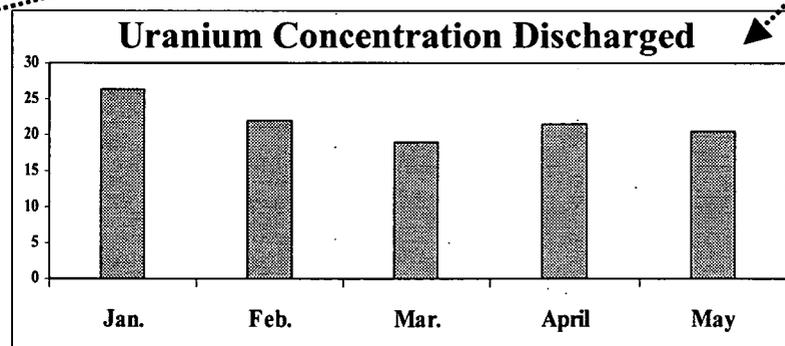
AQUIFER AND WASTEWATER

Countdown to Closure - Summer 2005

Month	Gallons Extracted From Great Miami Aquifer	Gallons of Groundwater Treated	Net Pounds of Uranium Removed from the Great Miami Aquifer	Pounds of Uranium Discharged to River ¹	Flow Weighted Average Uranium Concentration Discharge to River ²
January	93,121,000	12,025,700	23.98	37.45	26.3 µg/L
February	69,047,000	7,778,100	17.63	18.16	22.0 µg/L
March	168,103,000	60,533,451	58.97	31.92	19.0 µg/L
April	164,064,000	57,854,165	63.88	35.31	21.5 µg/L
May	164,189,000	56,874,594	64.92	31.35	20.5 µg/L
Total	658,524,000	195,066,010	229.38	154.19	



¹ 600 lbs. annual discharge limit



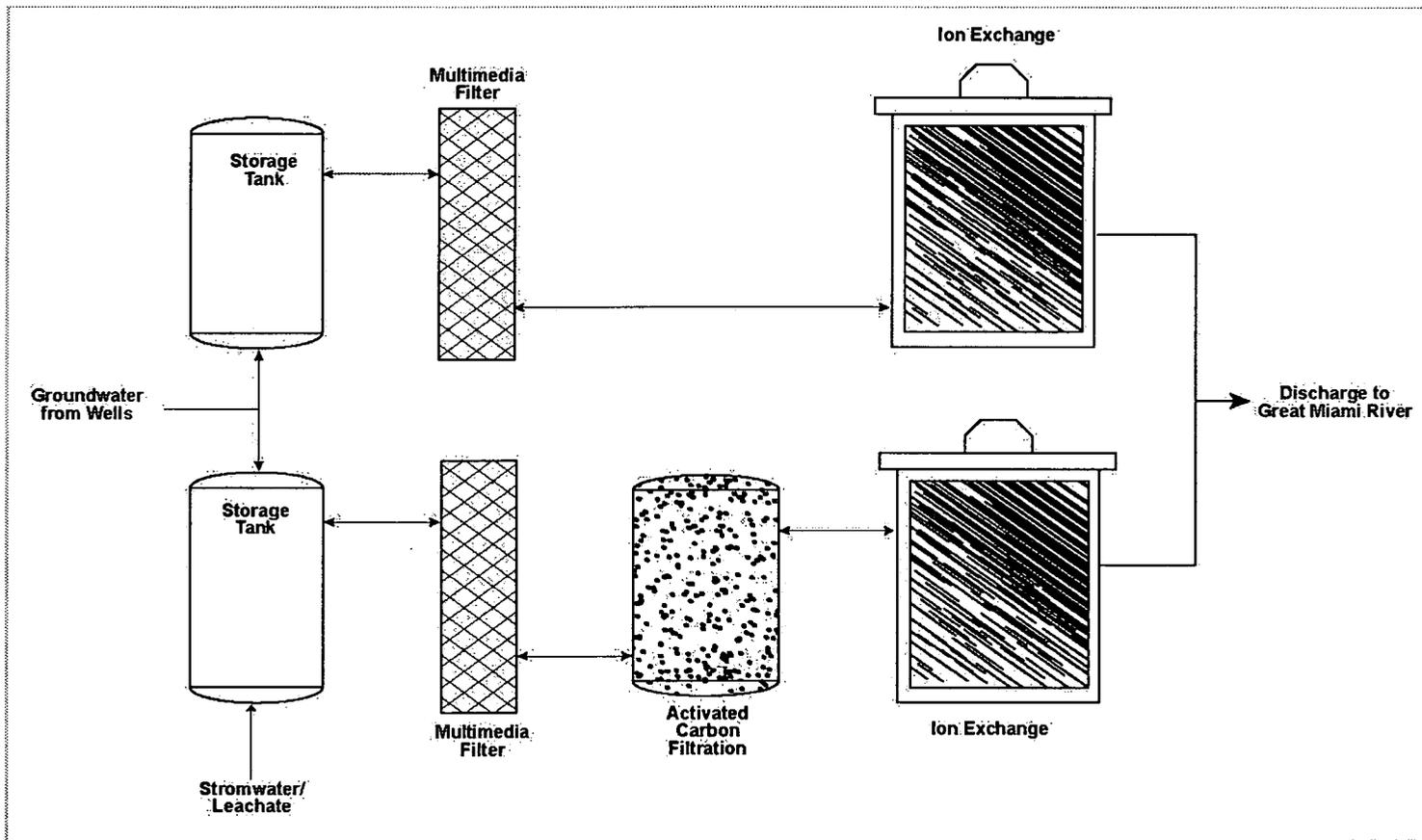
² 30.0 µg/L monthly average uranium concentration limit



AQUIFER AND WASTEWATER

Countdown to Closure - Summer 2005

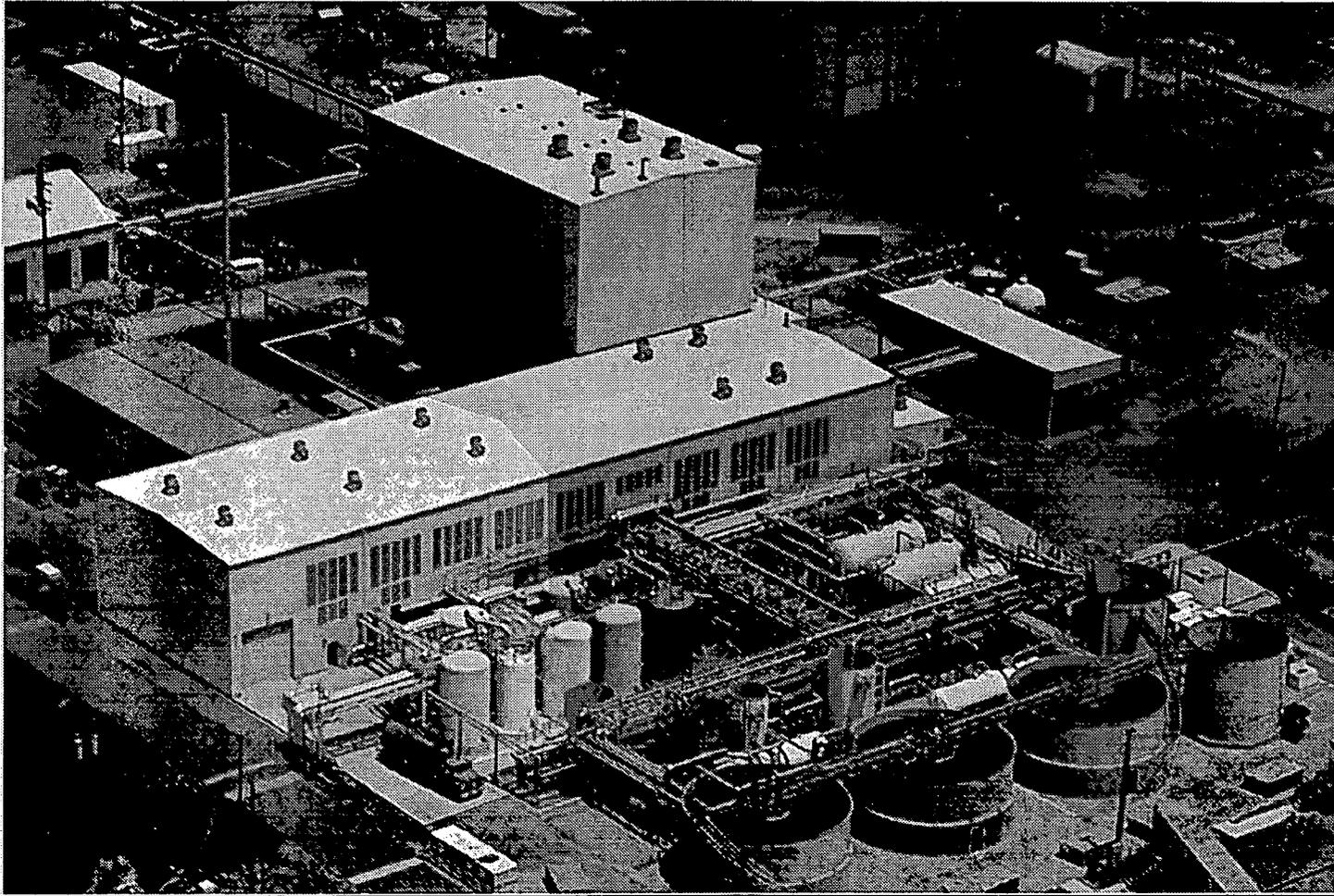
Simplified CAWWT Process Flow Diagram

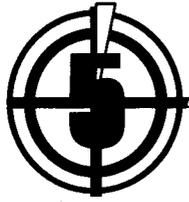




AQUIFER AND WASTEWATER

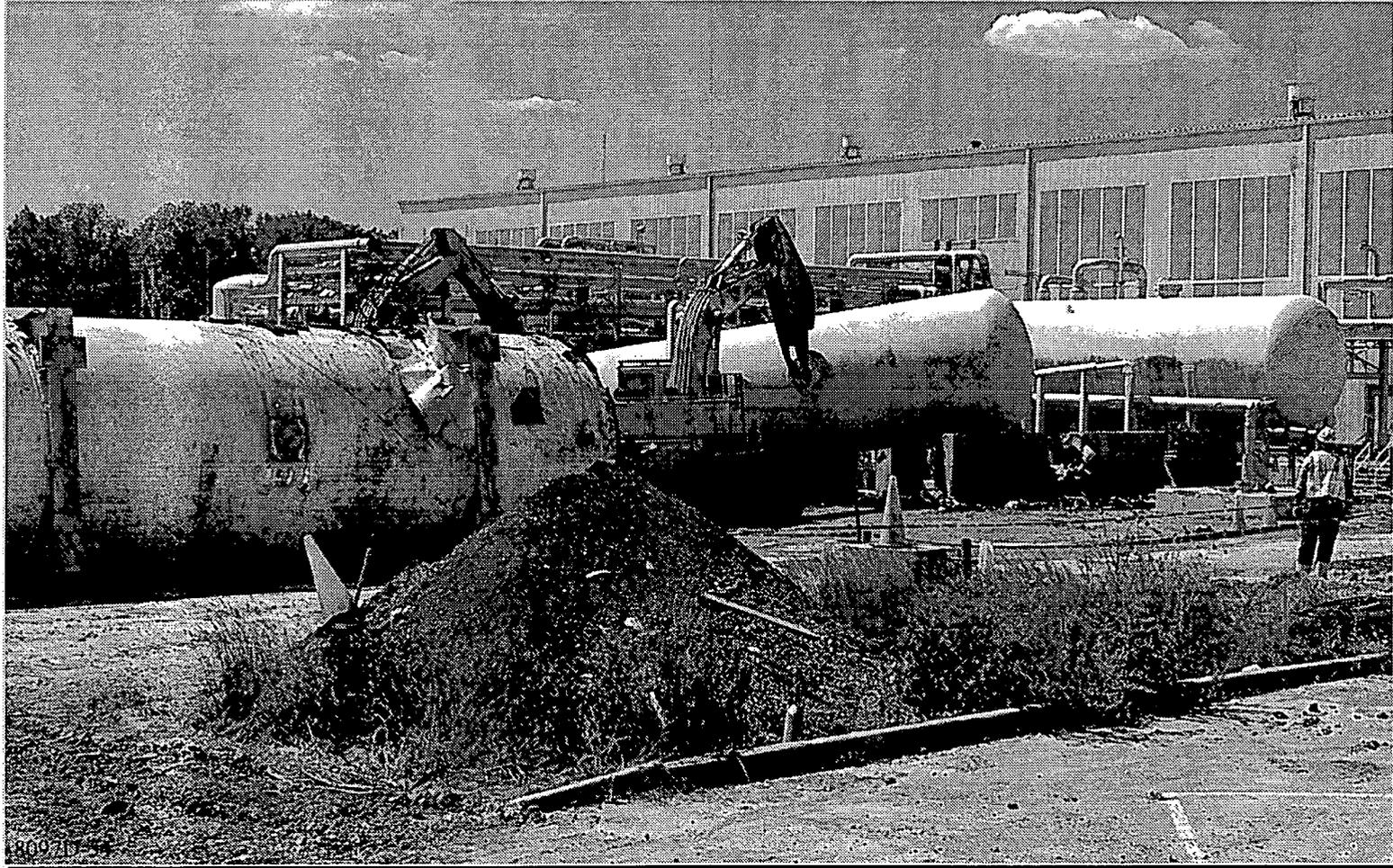
Countdown to Closure - Summer 2005





AQUIFER AND WASTEWATER

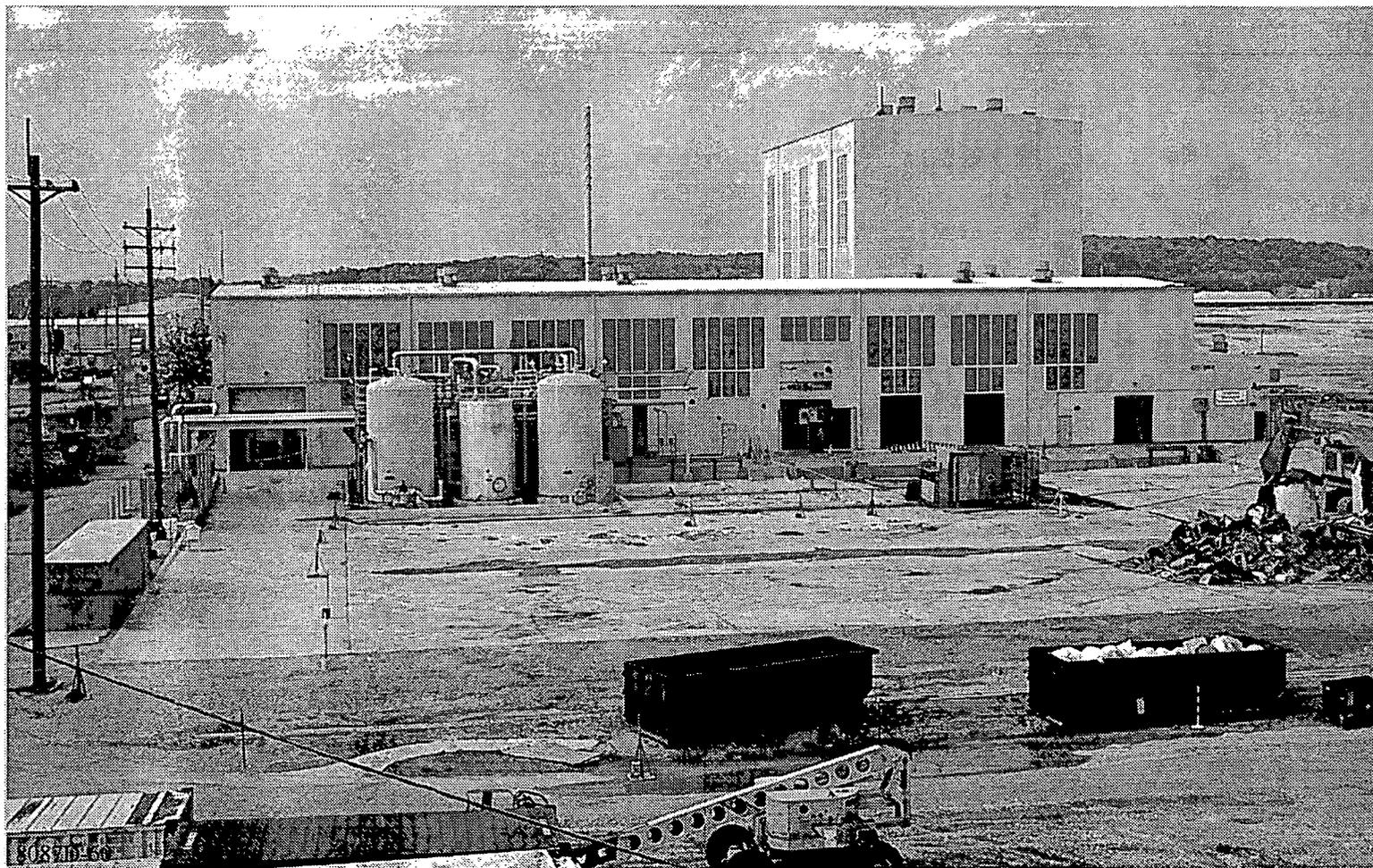
Countdown to Closure - Summer 2005

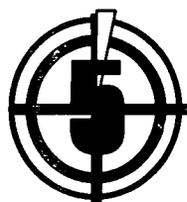




AQUIFER AND WASTEWATER

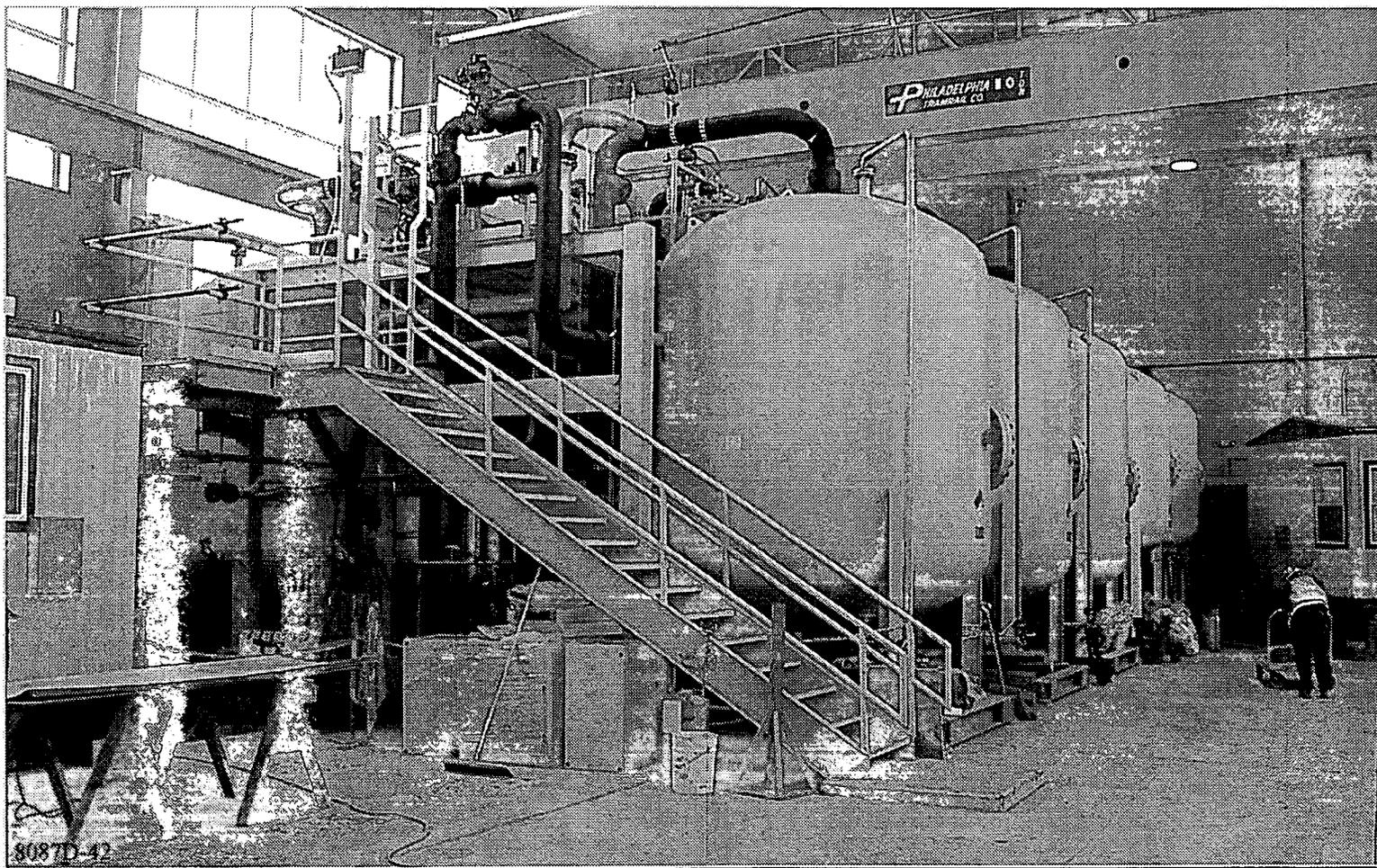
Countdown to Closure - Summer 2005





AQUIFER AND WASTEWATER

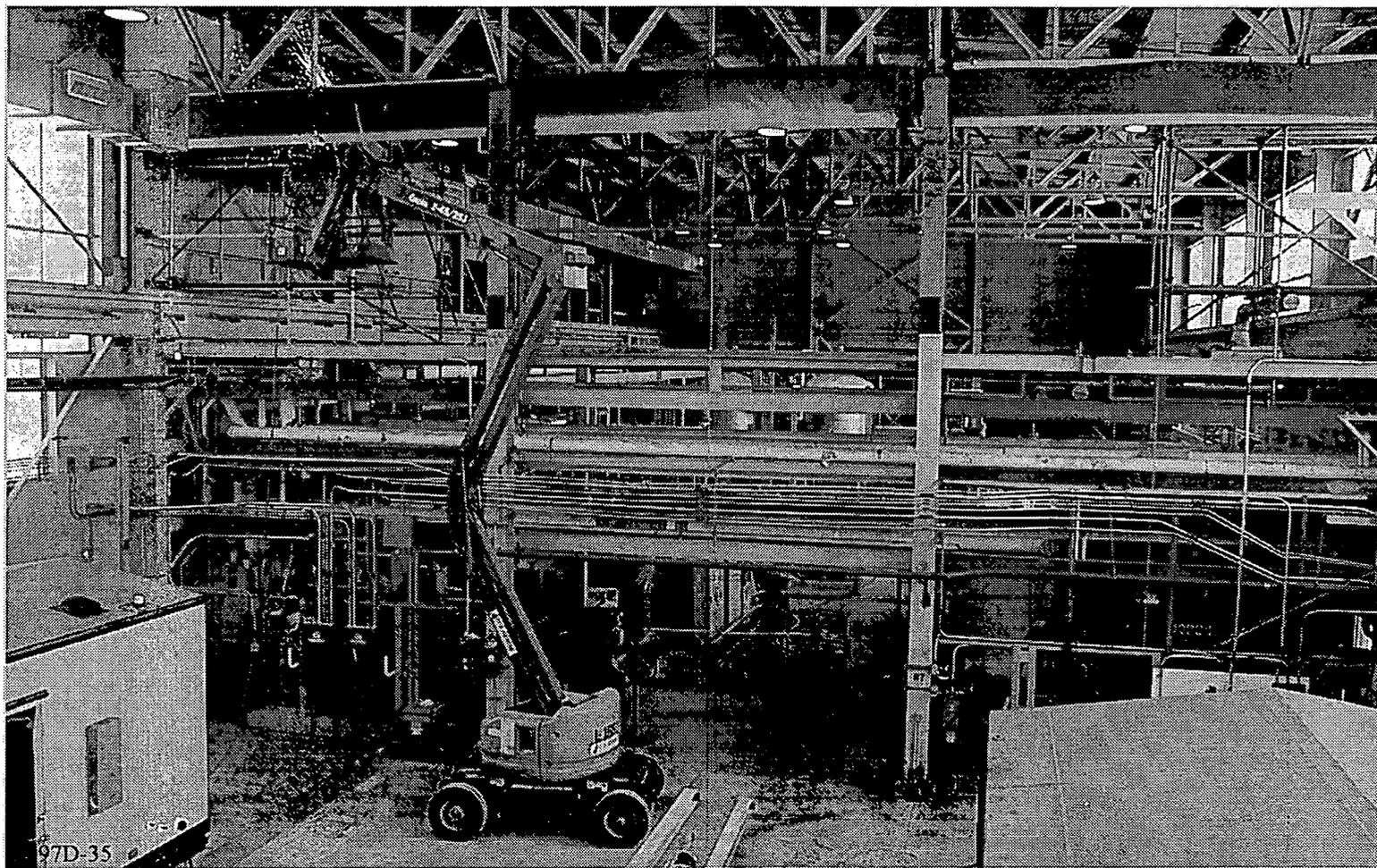
Countdown to Closure - Summer 2005

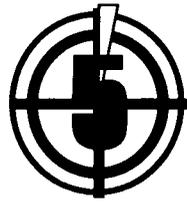




AQUIFER AND WASTEWATER

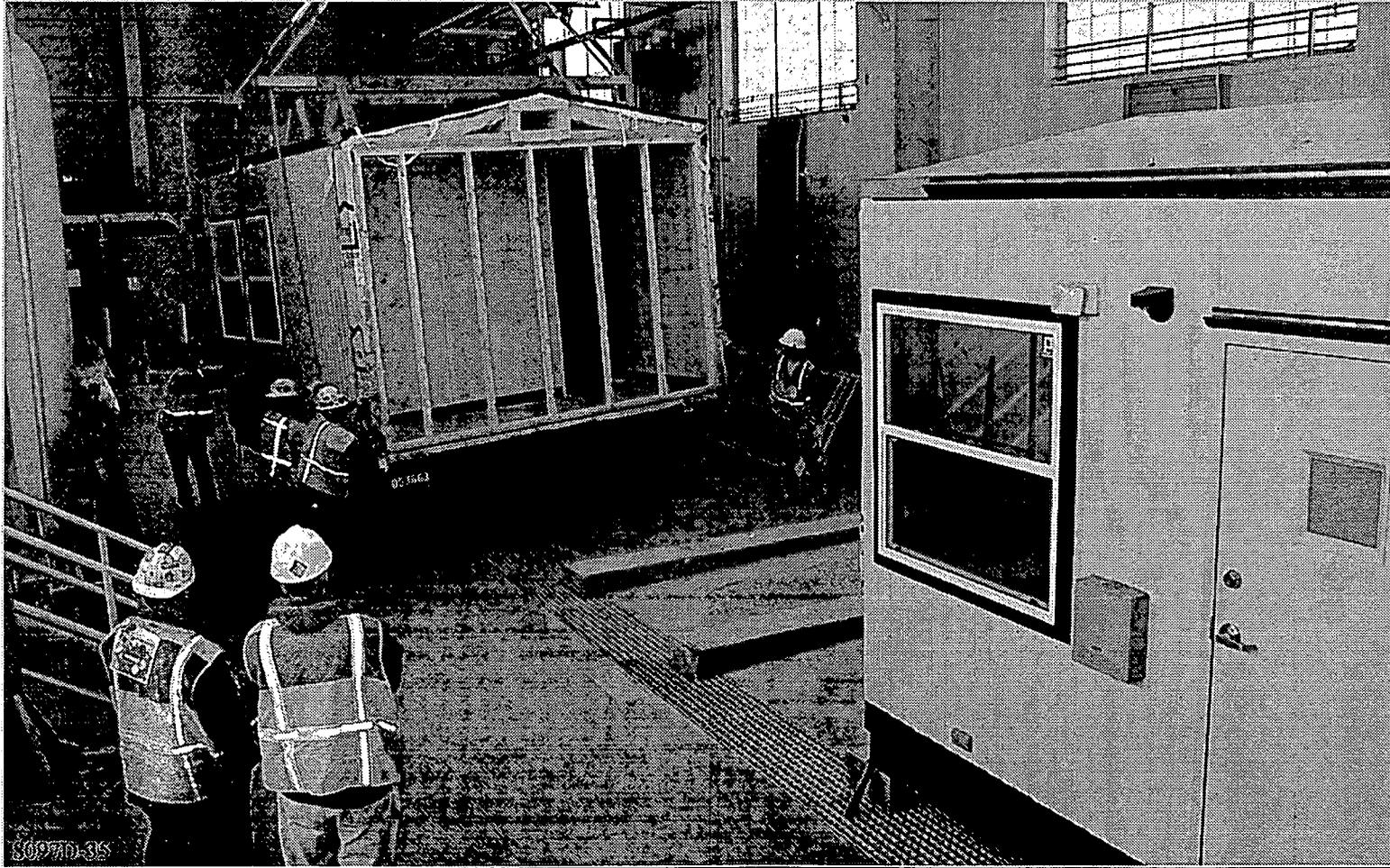
Countdown to Closure - Summer 2005





AQUIFER AND WASTEWATER

Countdown to Closure - Summer 2005



6002

Countdown to Closure #5 Public Meeting

June 21, 2005

6:30 p.m. Morgan Township Community Center

PLEASE SIGN IN

Name: Lisa Crawford

Affiliation: FRESH

Address: _____

Phone #: _____

E-mail address: _____

Name: Edwa Youm

Affiliation: FRESH

Address: _____

Phone #: _____

E-mail address: _____

Name: Carol Schroer

Affiliation: FRESH

Address: _____

Phone #: _____

E-mail address: _____

Name: Vicki Dastillung

Affiliation: FRESH

Address: _____

Phone #: _____

E-mail address: _____

Name: Bob Tabor

Affiliation: FCAFB

Address: _____

Phone #: _____

E-mail address: _____

Name: Jim Colletti

Affiliation: Ohio Health Dept

Address: _____

Phone #: _____

E-mail address: _____

6002

Countdown to Closure #5
June 21, 2005

PLEASE SIGN IN

Name: Peter Studevant

Affiliation: Ham. Comm. DOES

Address: _____

Phone #: _____

E-mail address: _____

Name: Johnny Busing

Affiliation: DOE

Address: _____

Phone #: _____

E-mail address: _____

Name: Dennis Carr

Affiliation: Fluor Fernald

Address: _____

Phone #: _____

E-mail address: _____

Name: Ken Alkema

Affiliation: Fluor Fernald

Address: _____

Phone #: _____

E-mail address: _____

Name: Bill Hertel

Affiliation: Fluor Fernald

Address: _____

Phone #: _____

E-mail address: _____

Name: Sue Walpole

Affiliation: Fluor Fernald

Address: _____

Phone #: _____

E-mail address: _____