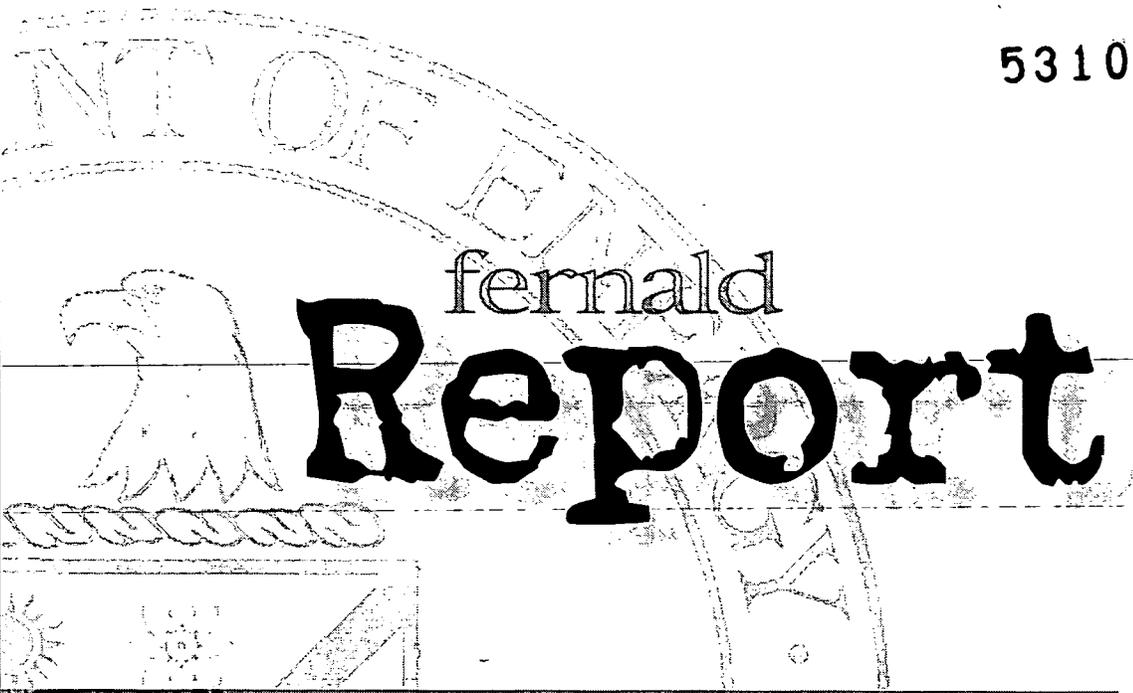


**INSIDE**

- Zeroing in on 2006
- Cleanup Review
- Introducing Bill Taylor



fernald

# Report



# Zeroing in on 2006

There's no doubt 2004 will be a pivotal year for the Fernald cleanup. As you can see from the chart on the right, the Fernald landscape has changed dramatically. "The key for a successful 2004 and ultimately achieving closure in 2006, will be management and workers commitment to doing the job safely" said Bill Taylor, director Fernald Closure Project.

## 2004 Goals

**SILOS 1 AND 2** – Complete construction of Accelerated Waste Retrieval System and begin operations

**SILO 3** – Begin waste retrieval, packaging and shipping

**WASTE PITS** – Excavate and ship final 199,000 tons (31 trains) of waste

### SOILS AND DISPOSAL FACILITY

- Cell 3 – Install final cover
- Cells 4, 5, 6 – Place 600,000 cubic yards of waste
- Cell 7 – Build liner
- Certify site cleanup levels are met:
  - On site – 75.9% (759.7 acres)
  - Off site – 100% (84.5 acres)

### DECONTAMINATION & DEMOLITION

- Complete Pilot Plant
- Complete Plant 8
- Complete Laboratory

**WASTE MANAGEMENT** – Close out program

### ADVANCED WASTEWATER TREATMENT

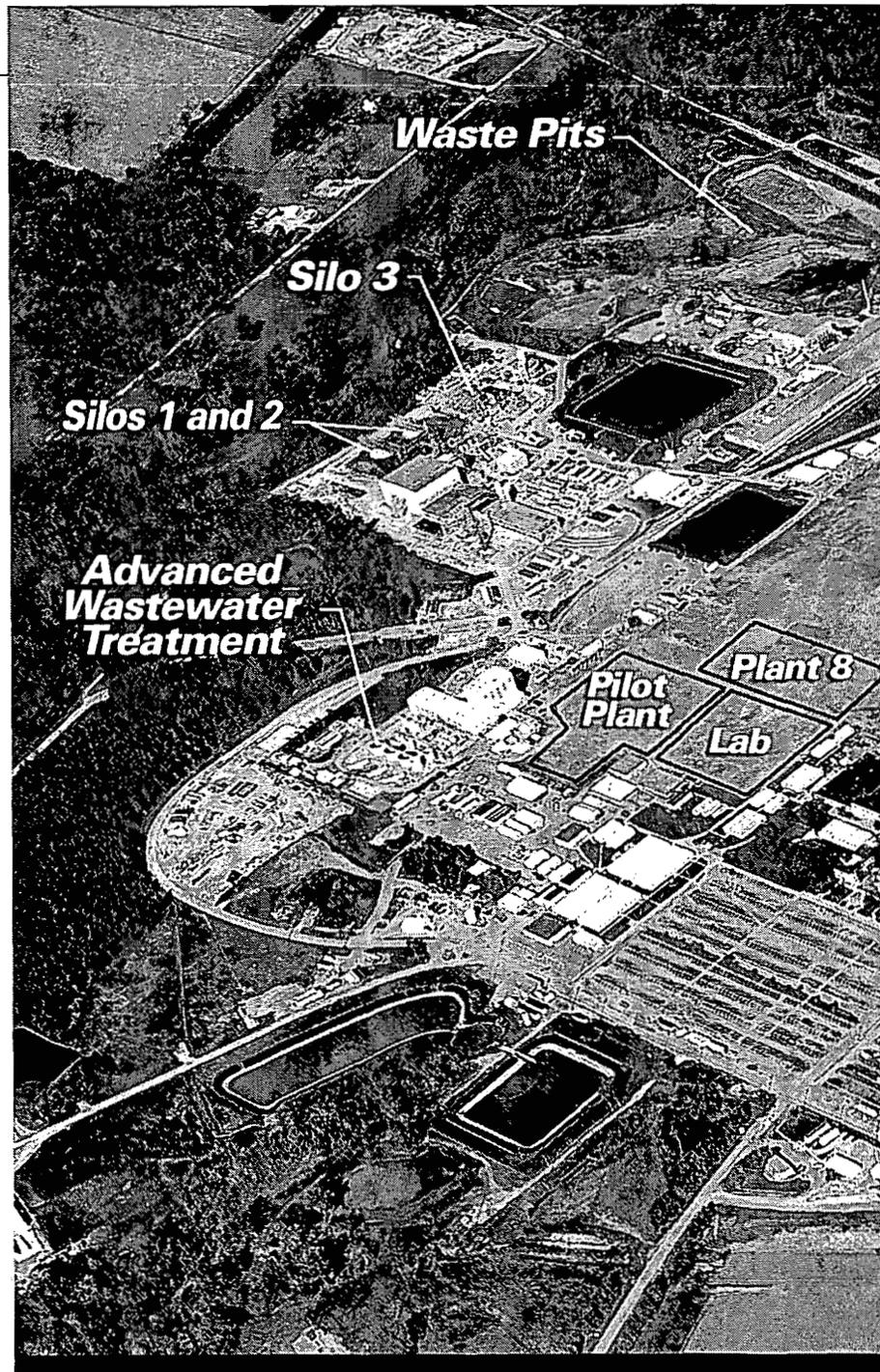
Treat 1.2 billion gallons of contaminated groundwater

### NATURAL RESOURCE RESTORATION

- Complete Northern Pines Project
- Implement Wetland Mitigation Phase II Project
- Implement Paddys Run West Project
- Issue Former Production Area Design
- Issue Borrow Area Design
- Issue Paddys Run East Design

#### On the Cover:

Demolition activities at Plant 8, the Scrap Recovery Plant, which recycled residues and scrap from the uranium production process was the ninth of 10 production buildings to be removed from the Fernald skyline. 6681D-832

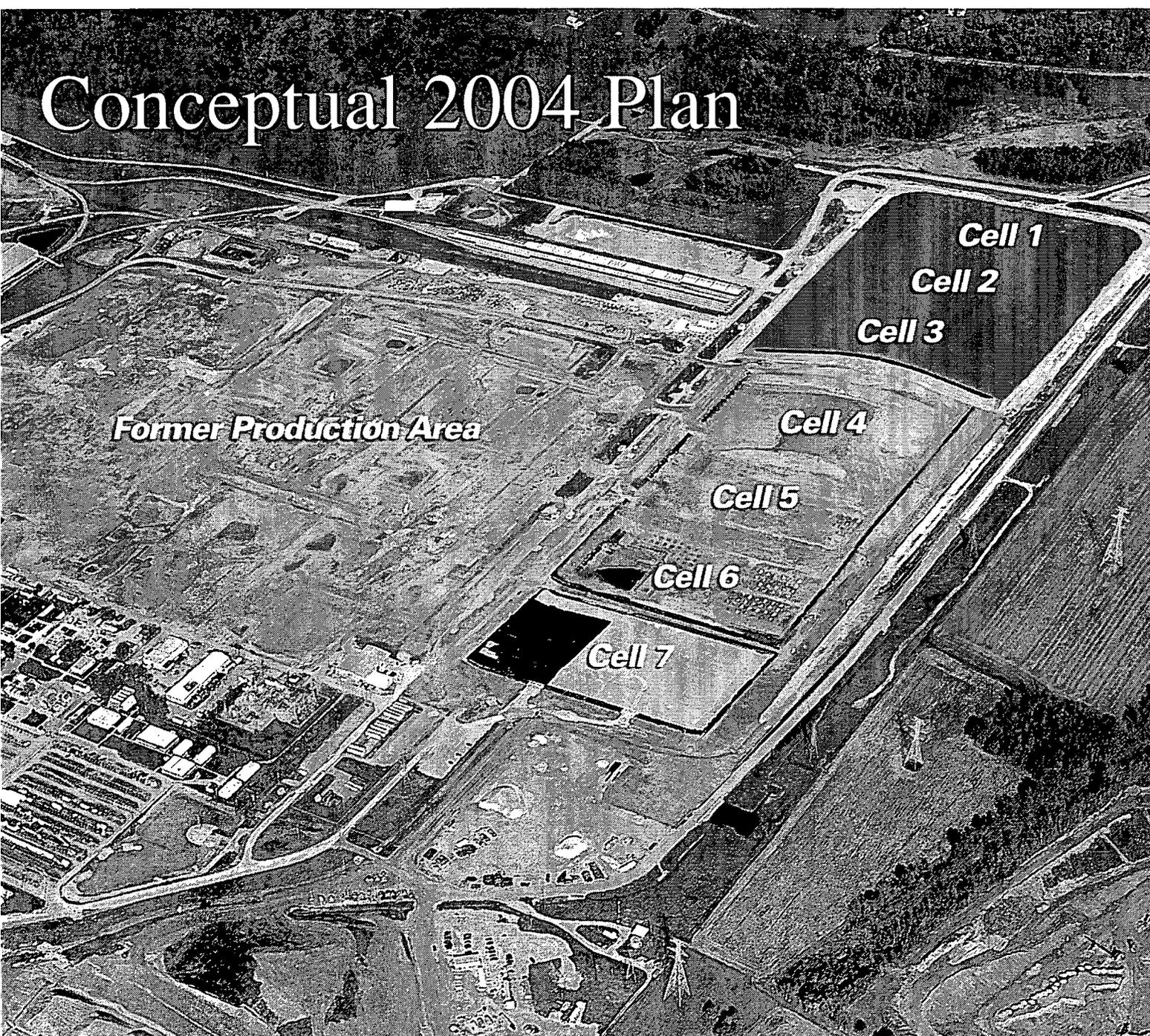


# FERNALD CLEANUP BY THE NUMBERS (fiscal year)

	2004 (planned)	2003	2002	2001
Water pumped and treated	2.4 billion gallons	2.4 billion gallons	2.2 billion gallons	2 billion gallons
Waste pits cleanup	31 trains - 199,000 tons*	29 trains - 191,000 tons	21 trains - 136,995 tons	17 trains - 112,000 tons
Containerized waste shipped	1,260 cubic yards *	6,042 cubic yards	9,576 cubic yards	11,223 cubic yards
Waste placed in OSDF	600,000 cubic yards	284,225 cubic yards	250,271 cubic yards	34,440 cubic yards
Clay excavated and screened	170,000 cubic yards	178,000 cubic yards	150,000 cubic yards	85,000 cubic yards
Buildings dismantled	21	32	20	10
Certified clean	122 acres	30 acres	97 acres	122 acres

\* program conclusion

## Conceptual 2004 Plan

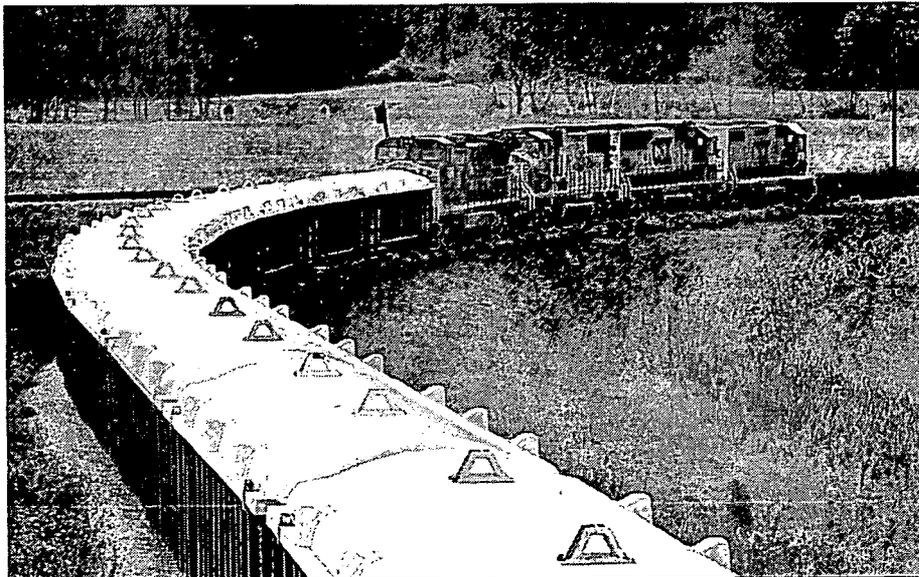


Graphic # 8095.1

# Project Update

5310

## Waste Pits Project



On November 5, 2003 Waste Pit workers shipped the 100th unit train to Envirocare of Utah. 6944D-2626

- As of the first of January, 105 unit trains totaling 6,231 railcars have carried 670,452 tons of waste to Envirocare of Utah for disposal
- Twenty-nine unit trains were shipped in fiscal year 2003; 32 trains are planned for fiscal year 2004
- Delivery of 25 additional railcars has brought the entire fleet number to 250 railcars, supporting four unit trains
- Excavations are ongoing in Pits 1, 3, 4 and 5, with Pit 4 excavation essentially complete

### Project status

- 80 percent complete



A Silos subcontractor reviews drawings of the sluicer modules in the Transfer Tank Area. These modules will allow workers to create a slurry of the Silos 1 and 2 material for the waste treatment process. 7385D-3645

## Silos Project

- Completed installation of the Transfer Tank Area (TTA) enclosure waste retrieval modules, pumps and major equipment required for the Silos 1 and 2 Accelerated Waste Retrieval (AWR) Project
- Completed planning and scheduling of the construction turnover and startup process
- Completed major construction of the Silo 3 remediation facility and initiated the construction turnover process
- Conducted offsite mockup testing with surrogate Silo materials to demonstrate operation of the packaging and container handling systems for the Silo 3 and Silos 1 and 2 facilities
- Silos 1 and 2 waste retrieval will operate from June 2004 to June 2005 and waste treatment operations from September 2004 to October 2005

### Silos schedule

- Silo 1 and 2 retrieval - June 2004 to June 2005
- Waste treatment operations - Sept. 2004 to Oct. 2005

### Project status

- AWR - 78 percent complete
- Silos 1 and 2 - 26 percent complete
- Silo 3 - 52 percent complete

# Soil and Disposal Facility Project

- Over 412,000 cubic yards of material was placed in the On-Site Disposal Facility in 2003 bringing the cumulative total to 1.35 million cubic yards
- Waste placement in Cell 6 is underway and Cell 7 is now under construction
- Six natural resource restoration projects are complete including first phase of Paddys Run West Project
- Continue excavation and concrete crushing

### Project status

- 49 percent complete
- 57 percent of site certified clean



*A bulldozer operator moves clean soil to build the berm between Cells 6 and 7 at the On-Site Disposal Facility. Soil is placed on top of a geotextile fabric designed to prevent soil from infiltrating the sub-layers. 6319D-4231*

# Aquifer Restoration/Waste Water Project

- Maintained compliance with uranium discharge limits for 2003
- Extracted more than 14.2 billion gallons of water; treated 9.6 billion gallons of water; removed 5,740 pounds of uranium from aquifer since 1993

### Project status

- 66 percent complete



*Well drillers near the Pilot Plant pull an old production well from the ground as part of the site's soil remediation efforts. Three production wells were used to supply water to the plant during operation. 6261D-683*

# Project Update



An industrial hygiene technician verifies that there are no  $NO_x$  gases in a section of Plant 2 process piping before authorizing the further size reducing of the piping. 6383D-1576

## Decontamination & Demolition Project

- Twenty-six buildings were demolished in 2003
- All former production complexes will be on the ground by Spring 2004 including Plant 8, General Sump and the Pilot Plant
- Ongoing activities include asbestos abatement, debris loadout and equipment, piping and transite removal

### Project status

- 61 percent complete

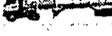
## Waste Management Project

- In fiscal year 2004 a total of 15,700 cubic feet of low-level waste was shipped to the Nevada Test Site (NTS)
- Approximately 1,860 containers remain on site
- All low-level waste included in the Baseline Plan will be shipped to NTS by the end of January

### Project status

- 99 percent complete

## Fernald Shipments – October through December 2003

Contents	Shipment Mode	# of Shipments	Monthly Totals	FY04	Project Totals
Low-Level Waste		100	15,700 cu. ft.	15,700 cu. ft.	6.4 million cu. ft.
Mixed Waste		6	2,136 cu. ft.	2,136 cu. ft.	26,047 cu. ft.
Liquid Mixed Waste		0	0 gal.	0 gal.	168,084 gal.
Nuclear Product			<b>COMPLETE</b>		
Soil and Debris		N/A	173,329 in-place cubic yards	173,329 in-place cubic yards	1,335,914 in-place cubic yards
Waste Pits		9 unit trains	57,593 tons (535 railcars)	57,593 tons	670,452 tons

# Continued Commitment

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*"Giving back" and "making a difference" tend to be over used terms these days but it is the belief that by doing our part we can make our communities better places to live and work.*



## In 2003...

- Fernald Community Involvement Team donated more than 2,000 hours to community service projects including Wish Tree, Habitat for Humanity, Backpack Basics, New Beginnings and donations to U.S. military service personnel
- The Fluor Foundation and Fluor Fernald employees contributed nearly \$240,000 to the community through United Way, scholarships and corporate donations
- Employees reached more than 4,500 people through education programs, tours and speaking engagements
- DOE and Fluor Fernald conducted eight public meetings and participated in numerous community meetings
- Envoys provided two-way communication to the public on cleanup progress and post-closure issues

## William J. Taylor Named Fernald Closure Director

William (Bill) Taylor is the Department of Energy's (DOE) new Director for the Fernald Closure Project. Taylor replaces Steve McCracken who was named Assistant Manager for Environmental Management at the Oak Ridge Operations Office in April. Taylor, an eight year veteran of the DOE, will lead the final stages of Fernald's cleanup and closure.

Taylor comes to Ohio from the Office of River Protection in Richland, Washington, where he served as Assistant Manager for the Waste Treatment and Immobilization Plant, a \$6 billion project. Prior to joining the DOE in 1995, he worked for more than 27 years with Raytheon Corporation.

"Although much different from my high-level waste experience at Hanford which was a technical and operational challenge, the Fernald Closure Project presents regulatory and schedule opportunities that are equally challenging. I like the clear objectives that have been established for a 2006 completion and laud the DOE and Fluor team for positioning the project for ultimate success," said Taylor.

Taylor received his Bachelor of Science degree from the University of Florida in 1968. He served in the U.S. Army at Fort Polk in Louisiana from 1963 to 1965. He and his wife Floss are from the Philadelphia area and have three adult children.



Bill Taylor, director Fernald Closure Project

# New documents added to the Public Environmental Information Center

## Waste Pits Remedial Action Project

- USEPA Approval – Operable Unit 1 Final Record Of Decision Amendment

## Soil and Disposal Facility Project

- DOE-Fernald Report – Certification Report for Area 6, Phase I – part one
- USEPA Approval – Certification design letter and Site Specific Plan for Area 2, Phase II
- DOE-Fernald Transmittal – Draft Project Specific Plan for Excavation Control in Area 6, Stockpile Area
- DOE-Fernald Plan – On-Site Disposal Facility Impacted Material Placement Plan for 2003 Winter Months
- DOE-Fernald Plan – Wetland Mitigation Project Phase II Natural Resource Restoration Design Plan

## Silos Projects

- USEPA Letter – Final Explanation of Significant Differences for Silos 1 and 2
- USEPA Comments – Revised Silo 3 Remedial Design / Remedial Action Package

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## Science Bowl Champs

Cincinnati Country Day will represent the Greater Cincinnati area in the U.S. Department of Energy's National Science Bowl in May after winning the regional contest held January 31 at Cincinnati State Technical and Community College. Cincinnati Country Day was declared the victor by defeating Russia High School in the final round. Twenty-four area teams competed in the thirteenth annual competition.

## Fluor Fernald Fernald Report

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