



FERNALD

Countdown to Closure

December 7, 2004

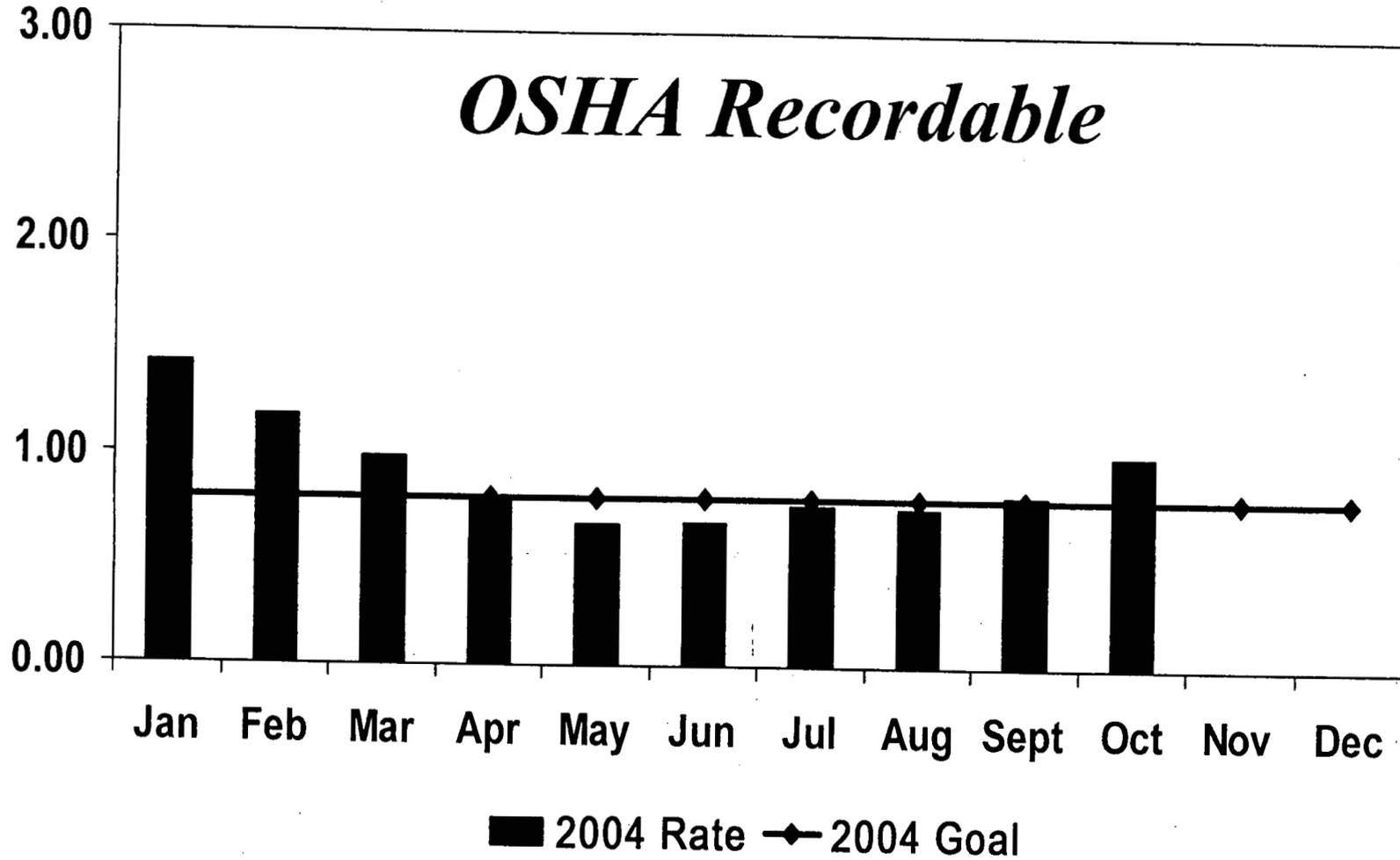
- Gary Stegner** - Introduction
- Bill Taylor** - Safety
- Project Updates
- John Sattler** - OU4 ESD Public Comment

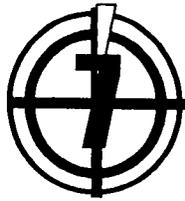
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SAFETY INCIDENTENCE RATES

Countdown to Closure - Winter 2004

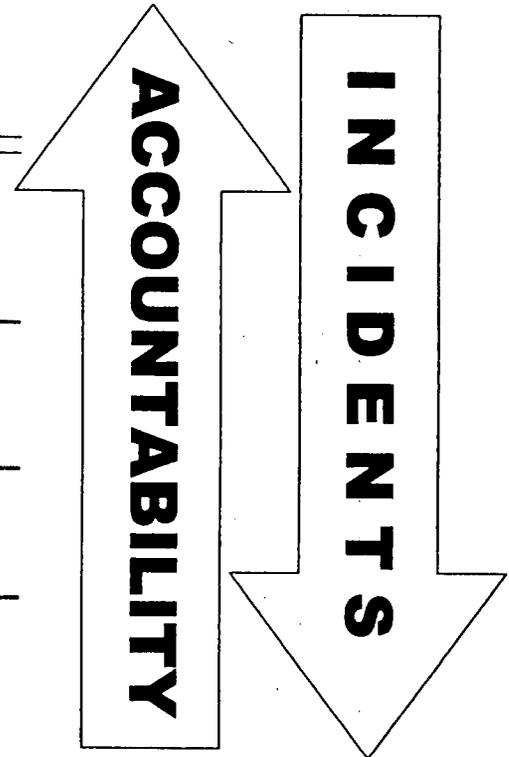


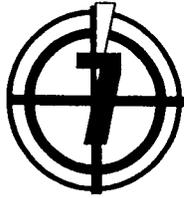


SAFETY INCIDENCE RATES

Countdown to Closure - Winter 2004

	Fluor Fernald Self Perform	Operating Wage	Fluor Fernald & Subcontractors
2002	1.74	2.68	2.06
2003	.69	.63	1.42
2004	.68	.00	1.01





SPACE MANAGEMENT

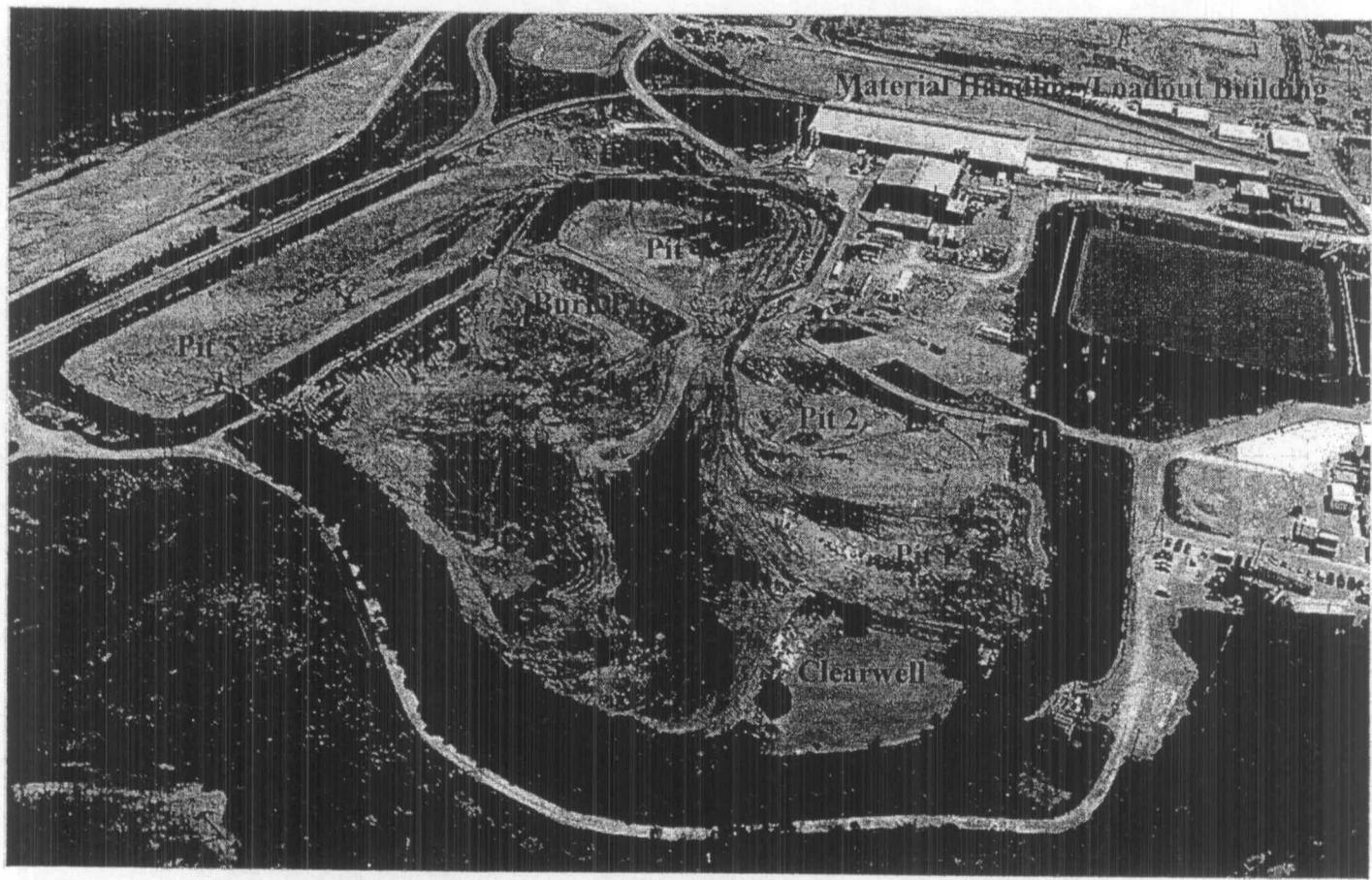
Countdown to Closure - Winter 2004

Action Items	Status	Issues
<p>09/04 – Relocate Administrative and Support Personnel -Uno, Dos, Delta, Springdale, Records Cntr.</p> <p>10/04 – Misc. Structure Removal - TS-7, Old RIMIA, East Warehouse Complex</p> <p>04/05 - Significant Reduction in Administrative Area's Trailers and Utility Infrastructure</p>	<p>Relocated DOE and Fluor Management to the Uno Building</p> <p>West Trailer Park Complex and Administration Building demolition</p> <p>Completed East Trailer Park Complex demolition</p> <p>421 people moved</p>	



WASTE PITS

Countdown to Closure - Winter 2004



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



WASTE PITS

Countdown to Closure - Winter 2004

Action Items

(projected completion)

- 01/05 - Last Loadout of Waste Pits Material
- 06/05 - Last Loadout of Above Waste Acceptance Criteria Soils
- 07/05 - Complete Shipping Operations
- 09/05 - Complete Safe Shutdown
- 09/05 - Complete D & D of Treatment Facility

Status

Waste Pits processing:
 - 91 percent complete

130 unit trains shipped:
 - 829,755 tons
 - 7,712 railcars

Train #131 expected to leave
 December 8

Issues

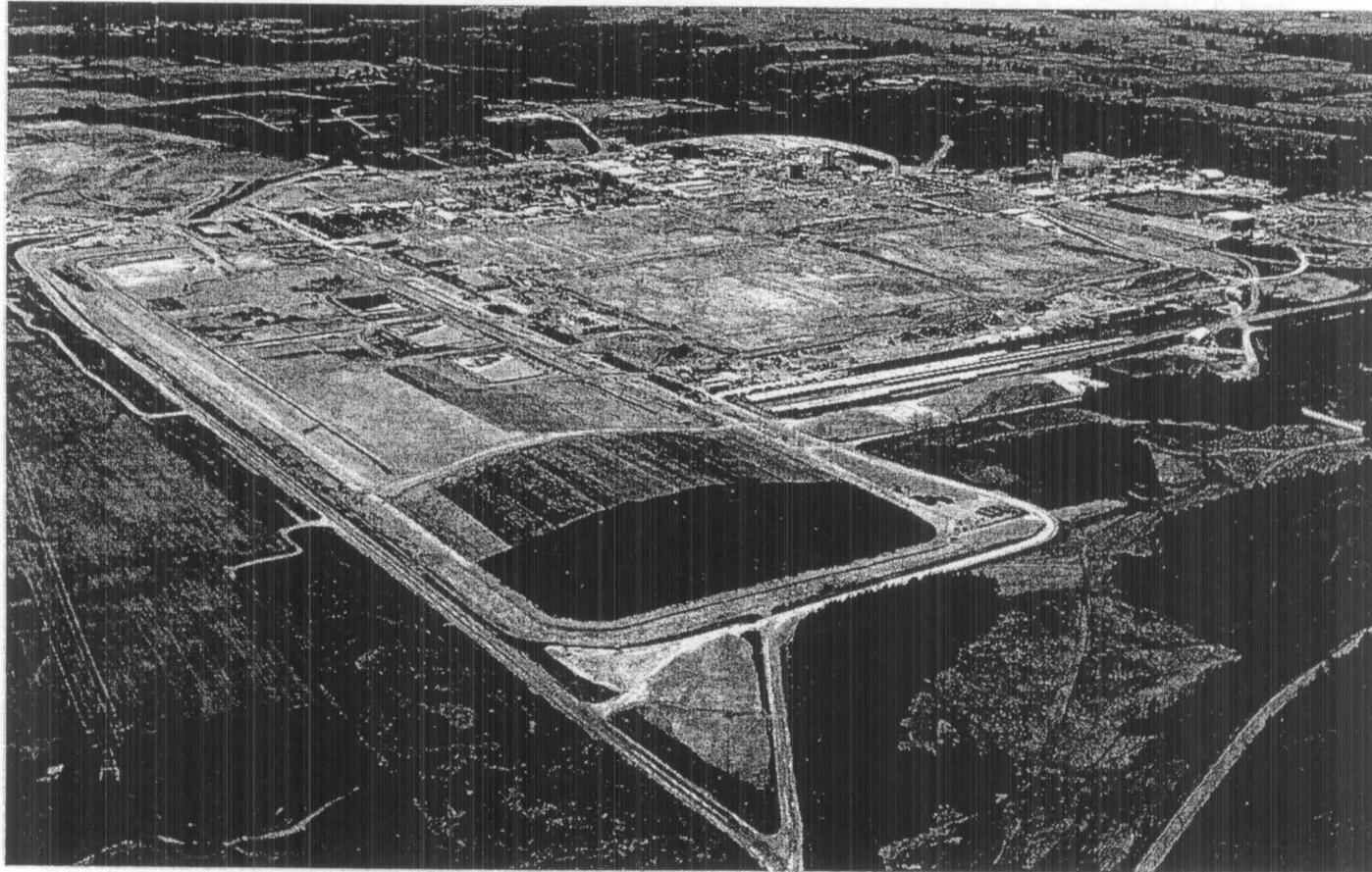
Focus on the effective safe shutdown of the dryer and other facilities

Effective continuation of shipping activities concurrent with railcar bolster replacement



ON-SITE DISPOSAL FACILITY

Countdown to Closure - Winter 2004



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



ON-SITE DISPOSAL FACILITY

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Countdown to Closure - Winter 2004

Action Items

(projected completion)

12/04 - Cell 8 Liner Construction
06/05 - Cell 4 Cap Construction
09/05 - Cell 5 Cap Construction
11/05 - Cell 6 Cap Construction
12/05 - Cell 7 Cap Construction
03/06 - Cell 8 Cap Construction

Status

(as of 11/30/04)

Cell 1 - Complete
Cell 2 - Complete
Cell 3 - Complete
Cell 4 - Capping in progress
Cell 5 - 54 percent filled
Cell 6 - 43 percent filled
Cell 7 - 10 percent filled
Cell 8 - Liner complete

Placed over 1.8 million cubic yards of contaminated soil and debris

Issues

Uncertainty of OSDF capacity needs

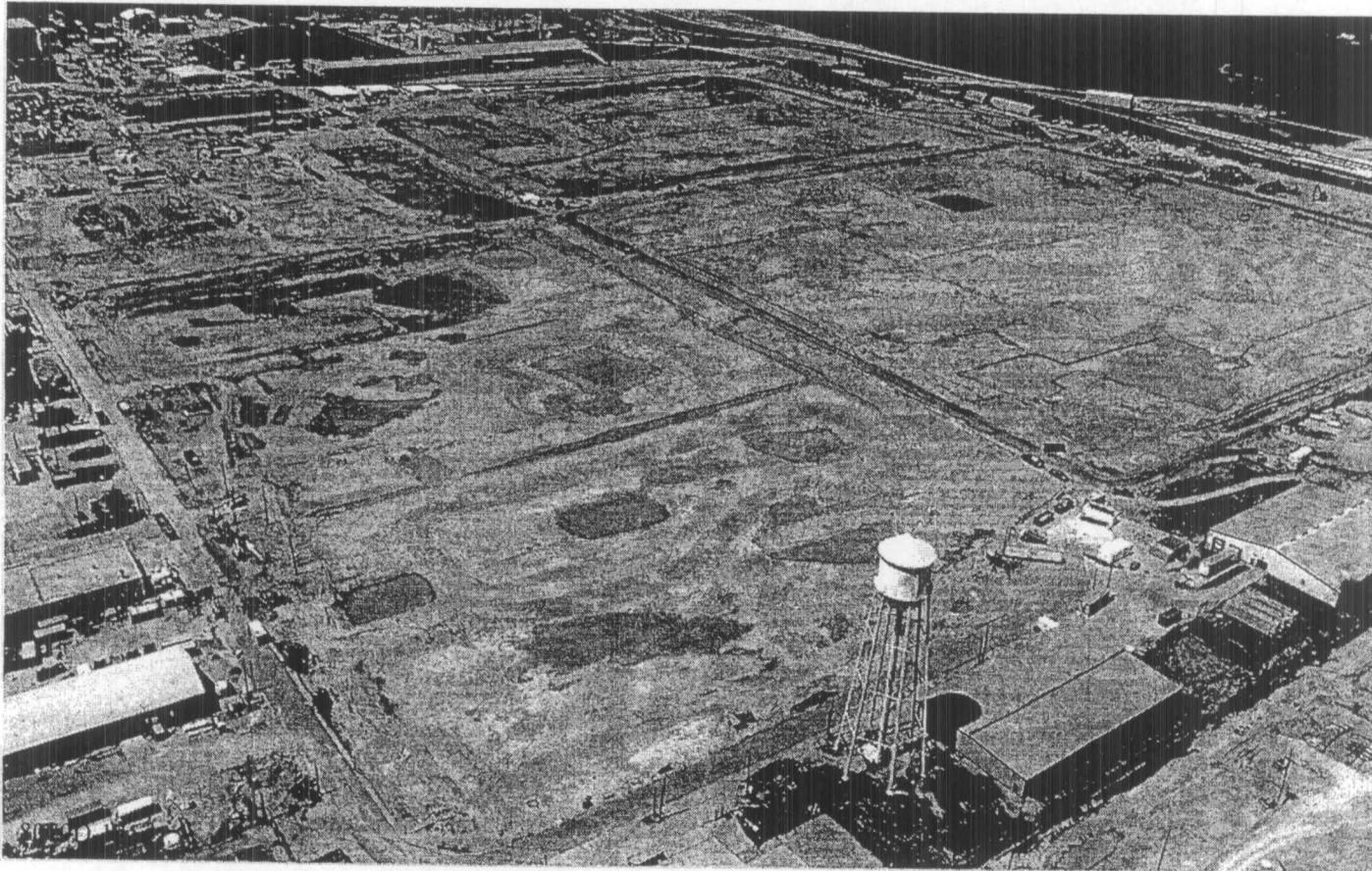
Uncertainty of Silos Project D&D schedule and impacted debris volume



SOILS

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Countdown to Closure - Winter 2004



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



SOILS

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Countdown to Closure - Winter 2004

Action Items

(projected completion)

- 12/04 - Excavate abandoned outfall line
- 03/05 - Area 4B Excavation
- 05/05 - Waste Pits and Treatment Facility Soil Excavation
- 05/05 - Silos Footprints Excavation
- 06/05 - Rail yard removal
- 10/05 - Area 5 Excavation
- 12/05 - Area 7 Excavation

Status

- On-site soil certification:
 - 65 percent complete
- Off-site soil certification:
 - Continue abandoned outfall line excavation
- Continue site preparation and Small-scale removal of above WAC materials around Waste Pits 4, 5, 6 and the Clearwell
- Continue concrete breaking, excavation and/or hauling from the Wheel Wash Facility, former production area and the east parking lot
- Start excavation and improvement of the road along the Storm Water Retention Basin to support upcoming Silos Project shipping operations

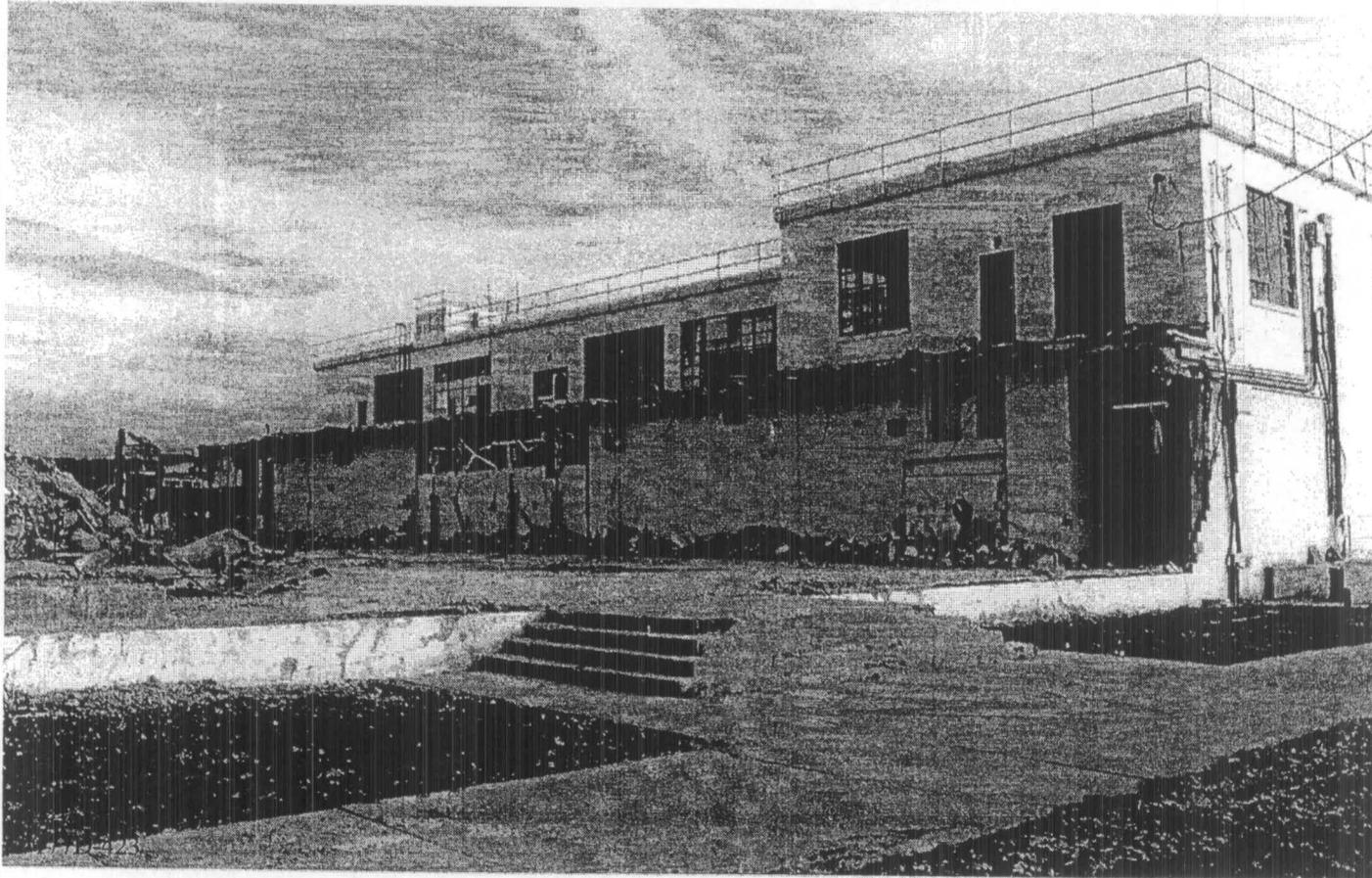
Issues

- Uncertainty regarding impacted soil volume
- Uncertainty regarding natural resources restoration scope
- Uncertainty regarding Silos Project schedule



DECONTAMINATION & DEMOLITION

Countdown to Closure – Winter 2004



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



DECONTAMINATION & DEMOLITION

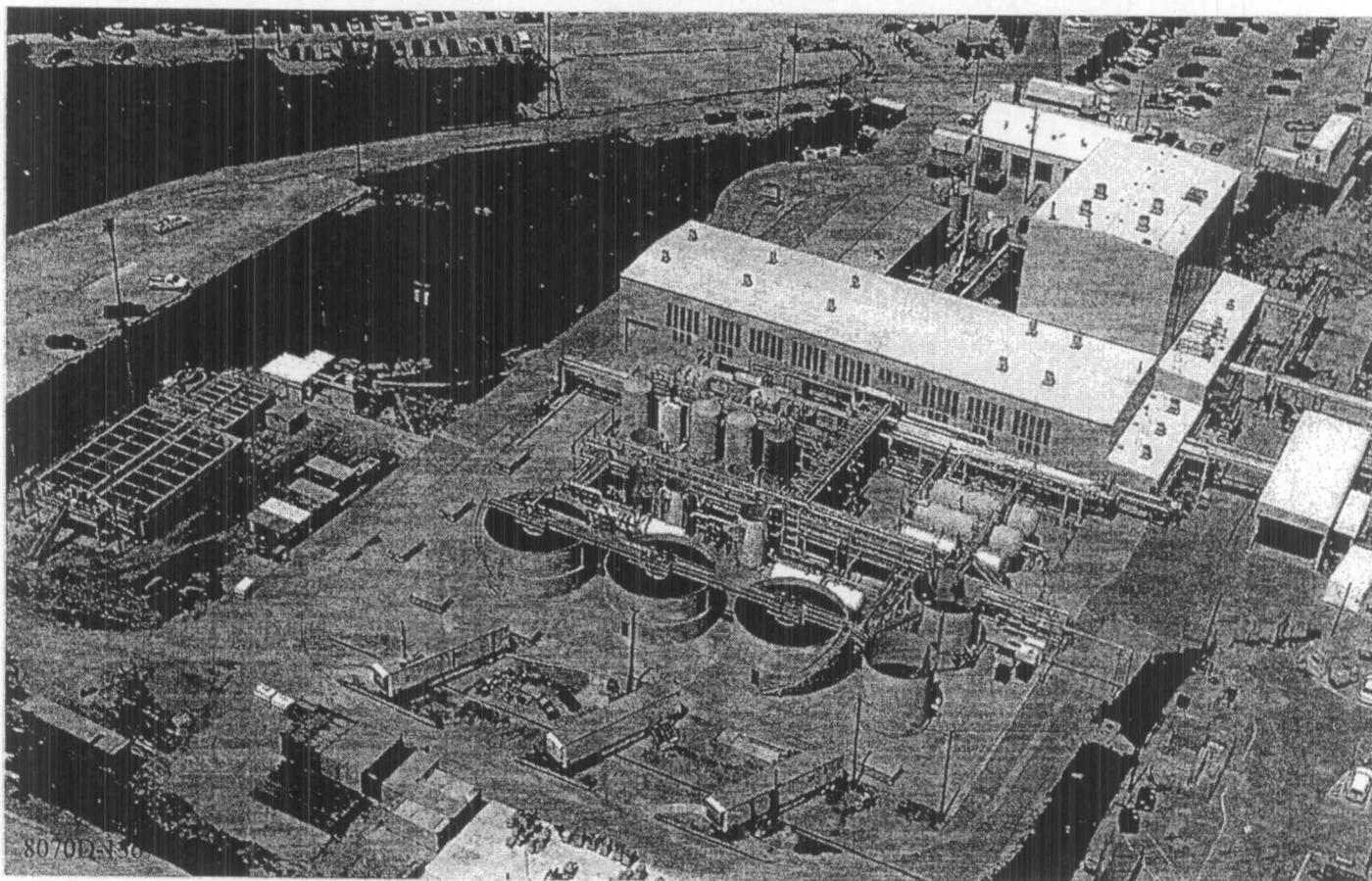
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<p>Action Items <i>(projected completion)</i></p>	<p>Status</p>	<p>Issues</p>
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AQUIFER AND WASTEWATER

Countdown to Closure - Winter 2004



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

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AQUIFER AND WASTEWATER

Countdown to Closure - Winter 2004

Action Items

- 07/04 - Complete Converted AWWT (CAWWT) Stage I Design
- 09/04 - Begin CAWWT Stage I Construction
- 09/04 - Shutdown AWWT Phase III To Support CAWWT Construction
- 02/05 - Begin Full-Scale Operations of CAWWT
- 02/05 - Shutdown Phase I and II of AWWT
- 07/05 - Shutdown IAWWT and SPIT

Status

- Continue CAWWT construction, piping prefabrication
- Extracted more than 16.1 billion gallons of groundwater since 1993
- Treated more than 10.5 billion gallons of water since 1993
- Removed 6,456 pounds of uranium since 1993

Issues

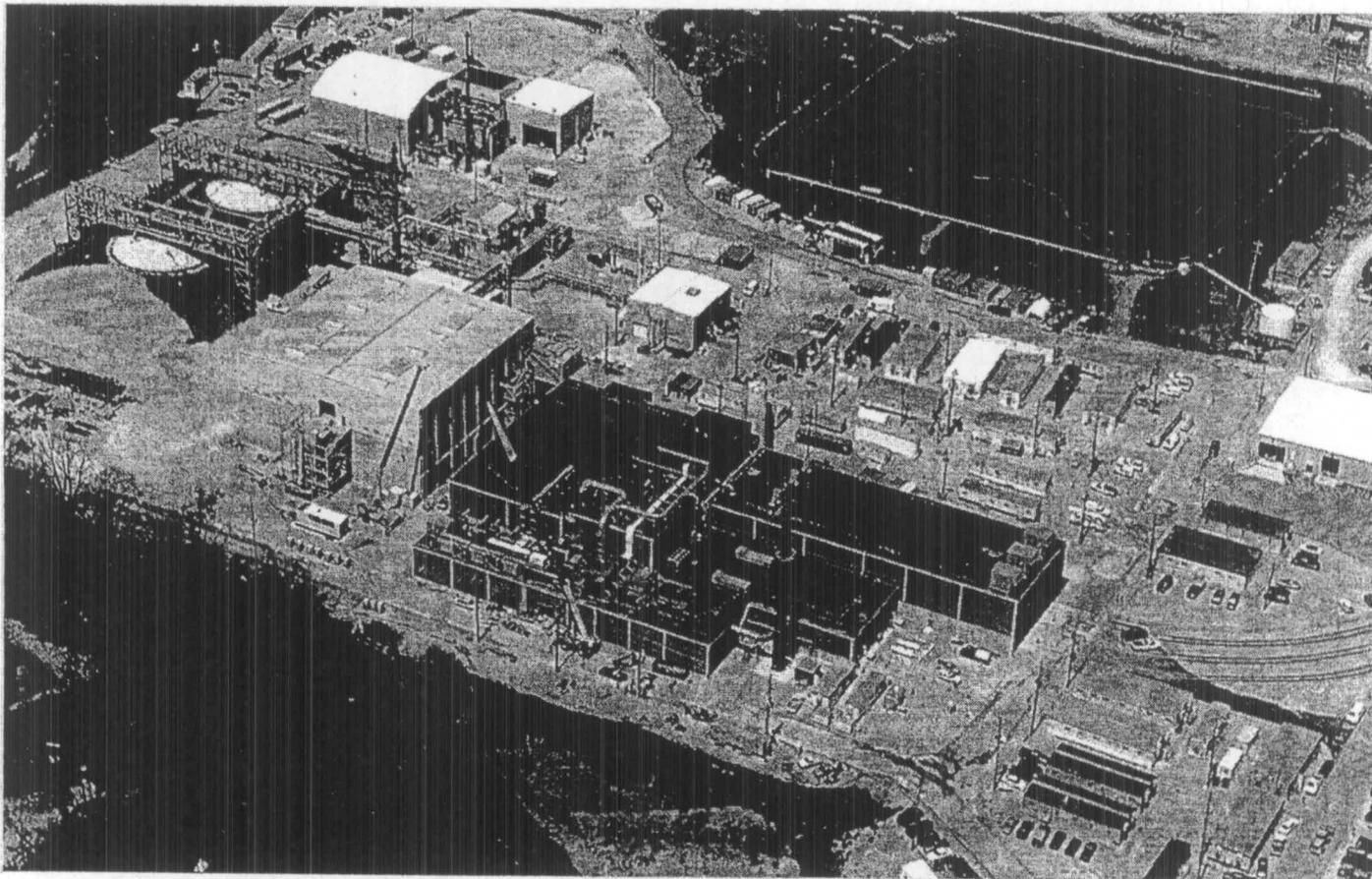
- Working with USEPA and OEPA to address comments on the Groundwater Remedy Evaluation and Field Verification Plan pertaining to re-injection
- Working with USEPA and OEPA to address CAWWT Stage II design concerns about multimedia filter backwash handling and sanitary sewage

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SILOS 1 AND 2

Countdown to Closure - Winter 2004



- *Stabilize 7,900 cubic yards of low-level waste, package and ship off site for disposal*



SILOS 1 AND 2

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Countdown to Closure – Winter 2004

Action Items

- 09/04 - Start AWR Operations
- 11/04 - Treatment Facility Operability Testing Using Surrogate Material
- 12/7/04 – Bids due on Request for Proposal for Commercial Disposal and/or Off-site Storage
- 12/27/04 – Approval of ESD for Off-site Temporary Storage Prior to Disposal
- 01/05 – Start treatment operations
- 02/05 - Complete Decant Sump Contents Removal
- 04/05 - Complete AWR K-65 Waste Removal Operations
- 05/05 - Complete AWR Shutdown
- 12/05 - Complete Treatment Operations

Status

- AWR Slurry Transfer:
 - Silo 1 – 94 percent complete
 - Silo 2 – 9 percent complete
- Integrated system operability tests in progress in Treatment Facility
- Continue additional testing and operator training through January in the Treatment Facility

Issues

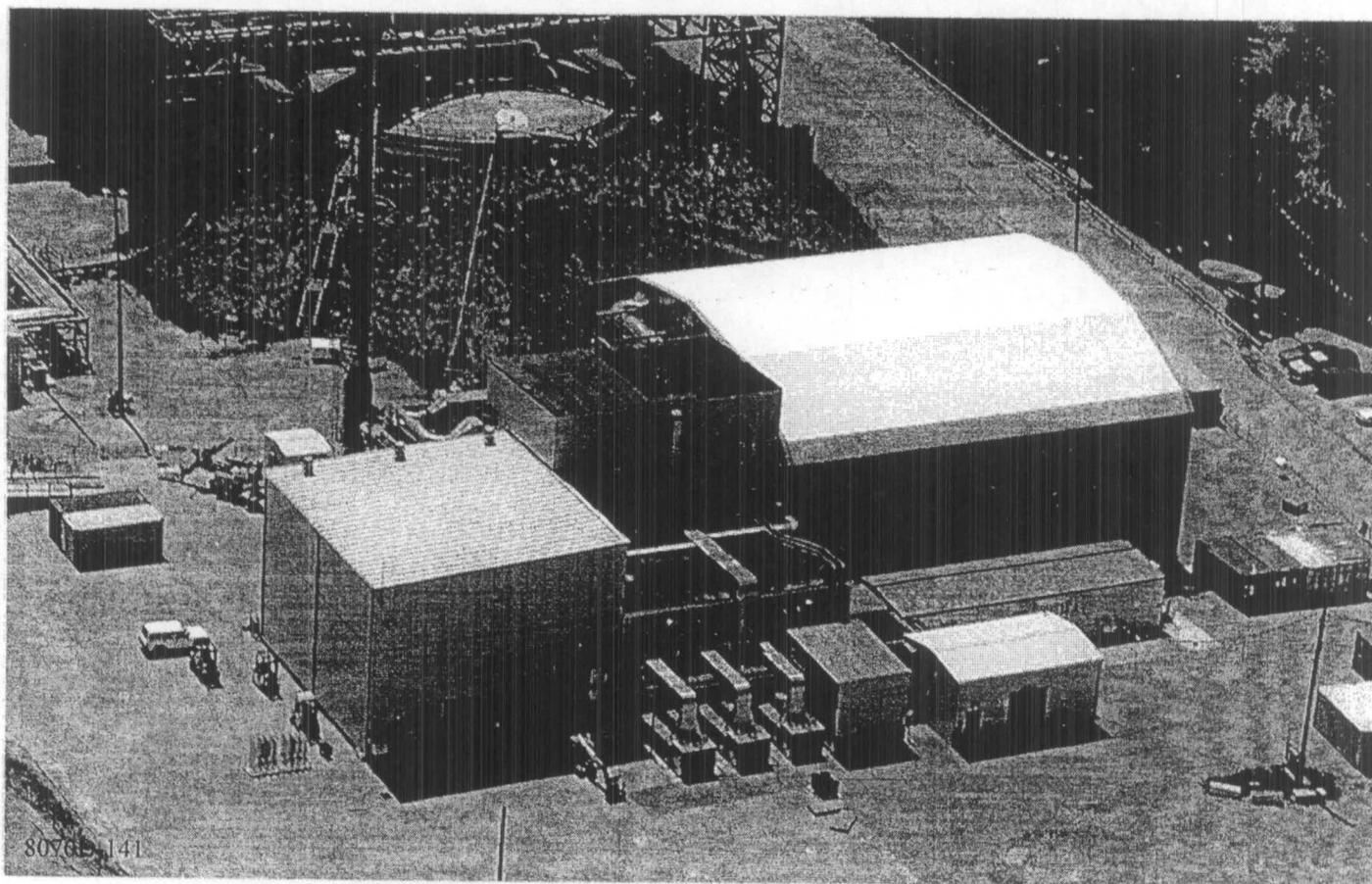
- Heel removal planning and testing
- Final waste disposition
- Potential for operations delay which impacts follow-on activities
- OEPA request for 15-day notification prior to start of operations
- State of Nevada request for 45-day notice prior to shipping
- State of Nevada opposition to disposal of 11(e)2 waste at NTS

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SILO 3

Countdown to Closure - Winter 2004



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



SILO 3

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Countdown to Closure - Winter 2004

Action Items

Delayed - Start of Operations

12/7/04 – Bids due on Request for Proposal for Commercial Disposal and/or Off-site Storage

12/27/04 – Approval of ESD for Off-site Temporary Storage Prior to Disposal

TBD – First Waste Shipment

TBD - Silo 3 Shutdown

TBD - D & D Silo 3

Status

Facility remains in a readiness configuration

Surrogate operation scheduled monthly

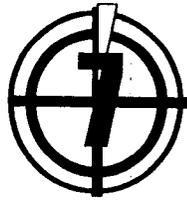
Issues

Operation delay which impacts follow-on activities

OEPA request for 15-day notification prior to start of operations

State of Nevada request for 45-day notice prior to shipping

State of Nevada opposition to disposal of 11(e)2 waste at NTS

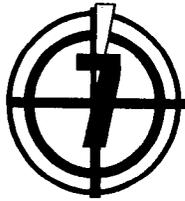


OU4 ESD

Countdown to Closure - Winter 2004

Scope:

- Allows the OPTION of temporary off-site storage of Silos 1, 2 and 3 material prior to permanent off-site disposal.
- Maintains all requirements for treatment, packaging and transportation as specified by the current Silos 1, 2 and 3 remedies.



OU4 ESD

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Countdown to Closure - Winter 2004

Scope *(Cont.)*:

- Maintains all current criteria for protection of human health and the environment specified by the current Silos 1, 2 and 3 remedies.
 - Applicable or Relevant and Appropriate Requirements
 - Transportation risk criteria
 - Off-site management of Silo materials in accordance with DOE Orders and/or NRC criteria

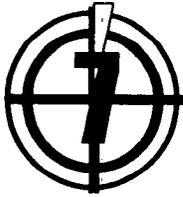


OU4 ESD

Countdown to Closure - Winter 2004

Scope *(Cont.)*:

- Maintains current endpoint of OU4 remedy.
 - Protective permanent off-site disposal of Silo contents
 - D&D of Silo structures and Remediation Facilities



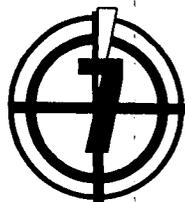
OU4 ESD

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Countdown to Closure - Winter 2004

Constraints On Off-Site Storage:

- The material must be processed and packaged in accordance with current remedies prior to transporting to off-site storage.
- Storage must be at:
 - Government owned facility in accordance with appropriate DOE Order/regulations; or
 - Commercial facility permitted by the NRC or state agency



OU4 ESD

Countdown to Closure - Winter 2004

Constraints On Off-Site Storage *(Cont.)*:

- Permanent disposal is required after a storage limit of two years.
- Under no circumstances may the Silo material be returned to Fernald.
- Transportation to the storage facility and any subsequent transportation for disposal must meet DOT requirements and transportation risk criteria specified by the current remedy.



OU4 ESD

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Countdown to Closure - Winter 2004

Reasons for the Change:

- Legal issues raised by the Nevada Attorney General regarding disposal at the NTS.
- DOE, U.S.EPA and OEPA's position remains that NTS disposal is legal, compliant and protective.
- DOE is committed to assuring that stakeholder issues are resolved prior to proceeding with disposal.

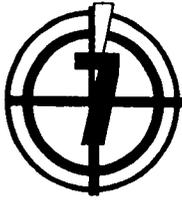


OU4 ESD

Countdown to Closure - Winter 2004

Reasons for the Change *(Cont.)*:

- Delaying scheduled retrieval, processing and off-site transportation pending resolution of Nevada Attorney General issues would result in significant impacts on cost, schedule and public risk.
- Proceeding with scheduled retrieval, processing and off-site transportation is necessary to:
 - Minimize risk to the public and the environment due to continued storage of untreated silo materials
 - Maintain 2006 closure schedule



OU4 ESD

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Countdown to Closure - Winter 2004

Impacts of Delaying Processing and Off-Site Transportation:

- Silo 3 Remediation Facility is operational.
- Silos 1 and 2 Remediation Facility is expected to demonstrate readiness for operation in January 2005.

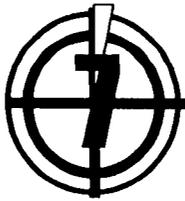


OU4 ESD

Countdown to Closure - Winter 2004

Impacts of Delaying Processing and Off-Site Transportation *(Cont.)*:

- Significant costs and risks are associated with maintaining operational status:
 - Maintaining personnel on standby status
 - Equipment maintenance
 - Cost and risk of unsuccessful startup increases overtime



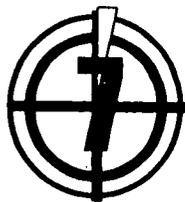
OU4 ESD

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Countdown to Closure - Winter 2004

Impacts of Delaying Processing and Off-Site Transportation *(Cont.)*:

- Cost and schedule impact the Fernald closure:
 - Day-for-day delay in completing closure
 - Maintaining D&D and soil remediation readiness
 - Maintaining site infrastructure and support programs to sustain completion of OU4 remediation, D&D and soil disposal
 - Management of the 'open' OSDF while awaiting receipt of D&D debris and soil

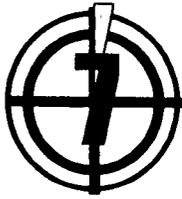


OU4 ESD

Countdown to Closure - Winter 2004

Status and Path Forward:

- Draft ESD was approved by OEPA (11/10/04) and the U.S.EPA (11/12/04).
- Draft Final ESD was issued on 11/15/04:
 - Available in the PEIC and the Fernald website (<http://www.fernald.gov/Future/PDFs/Doc041115rwhstvd.doc>)
 - Notice of availability was sent to stakeholders and state agencies

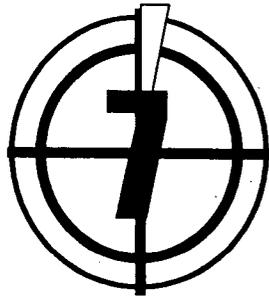


OU4 ESD

Countdown to Closure - Winter 2004

Status and Path Forward *(Cont.)*:

- Public comment was initiated 11/18/04 and will close 12/27/04.
- Public comments will be appropriately addressed in the Final ESD submitted for DOE and U.S. EPA approval.



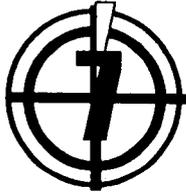
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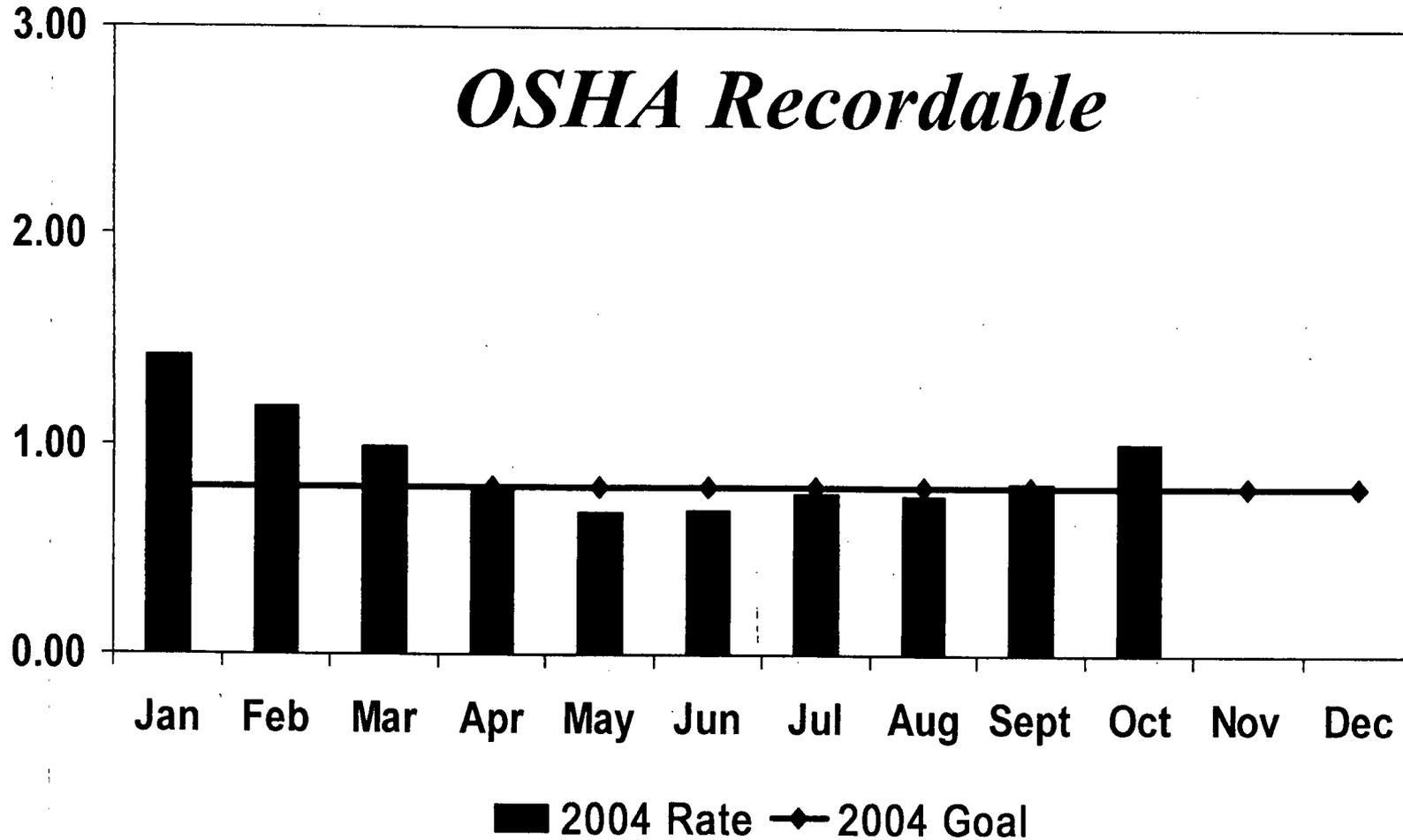
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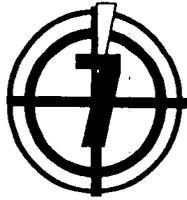
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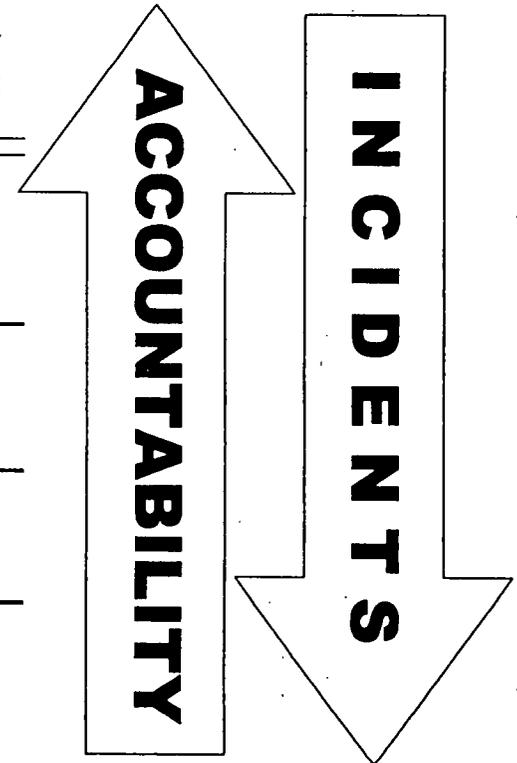




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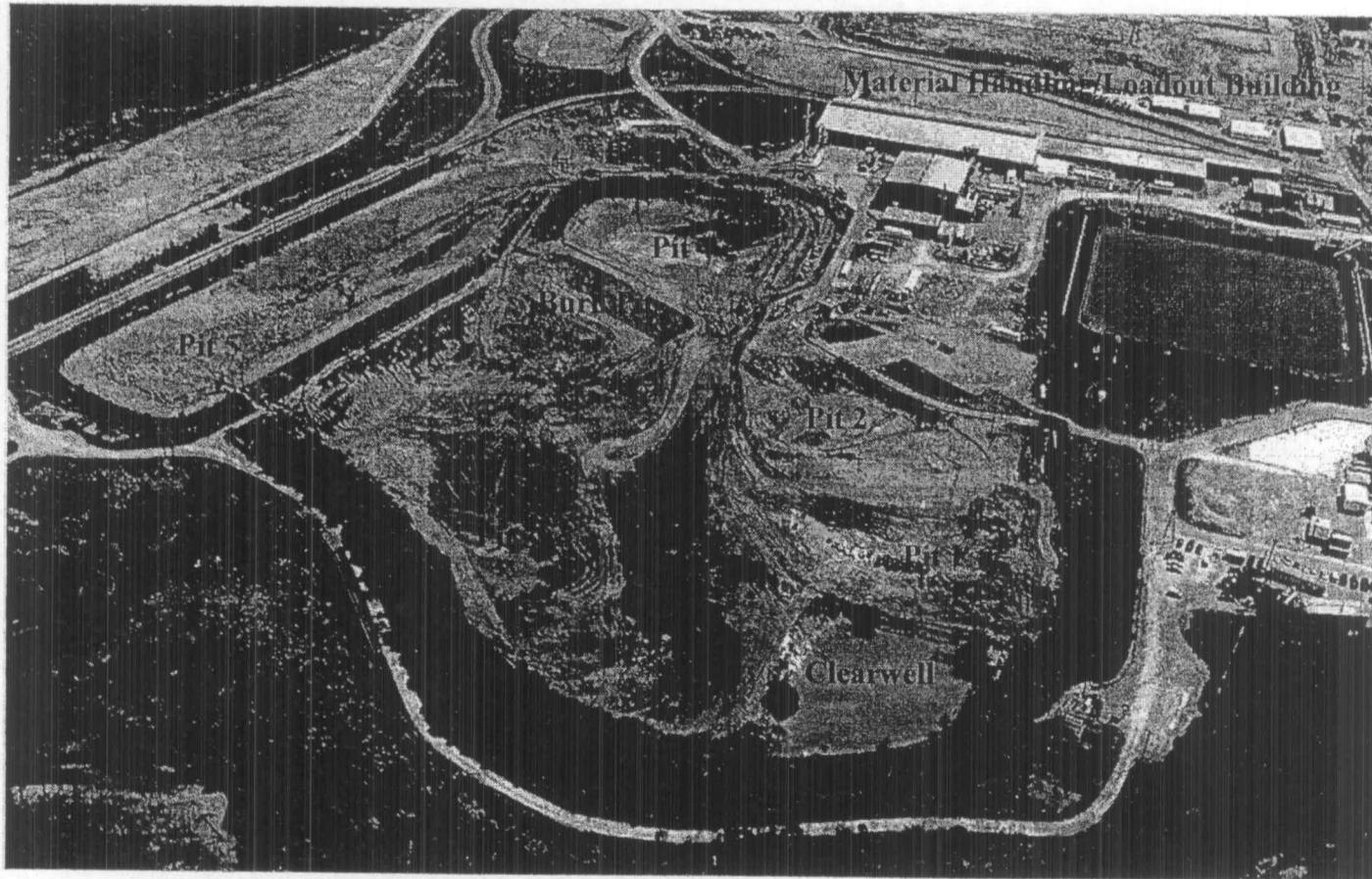
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WASTE PITS

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WASTE PITS

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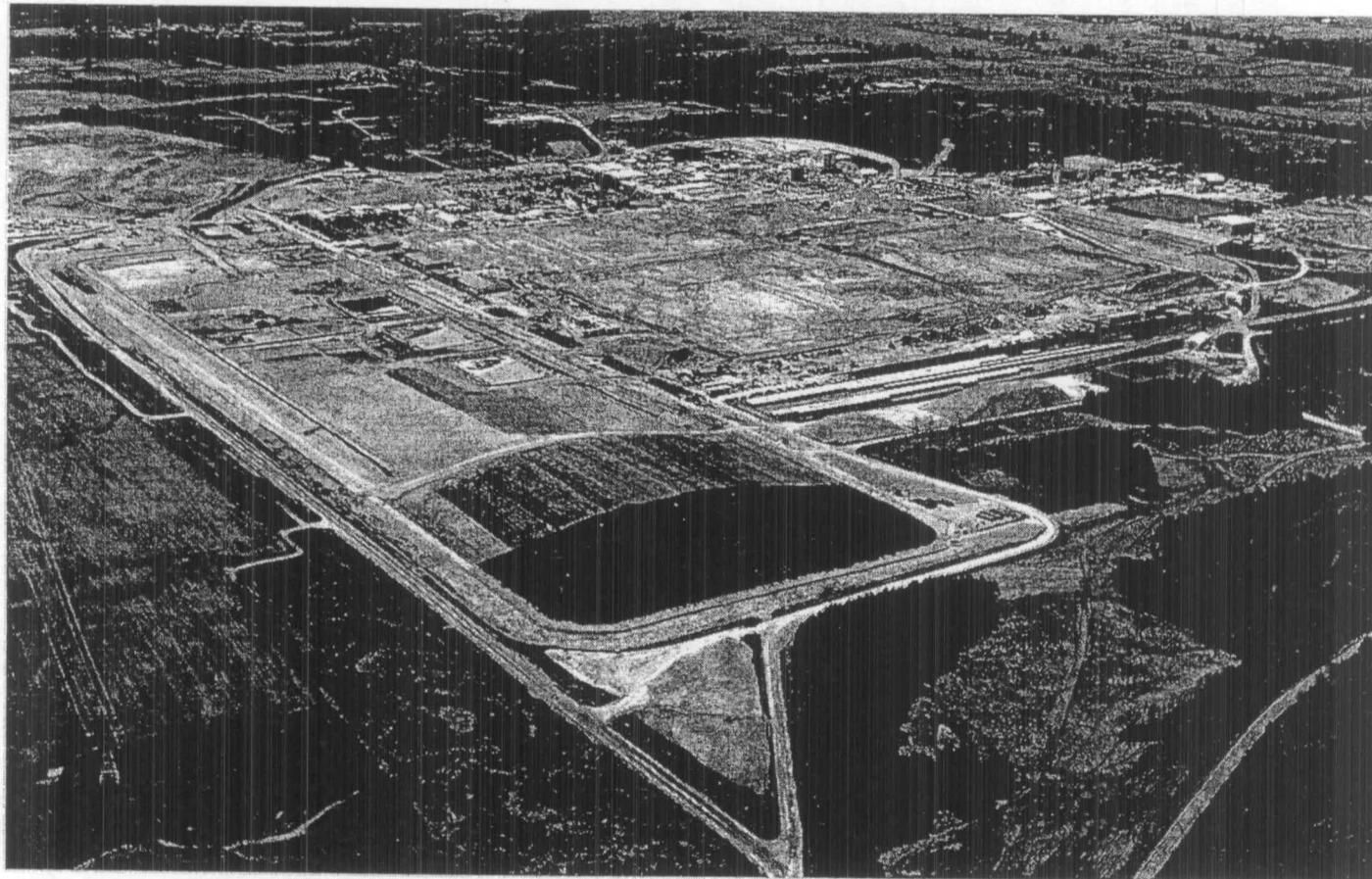
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Placed over 1.8 million cubic yards of contaminated soil and debris

Issues
Uncertainty of OSDF capacity needs
Uncertainty of Silos Project D&D schedule and impacted debris volume
<i>Question to J.D.</i>



SOILS

Countdown to Closure - Winter 2004



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

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SOILS

Countdown to Closure - Winter 2004

Action Items

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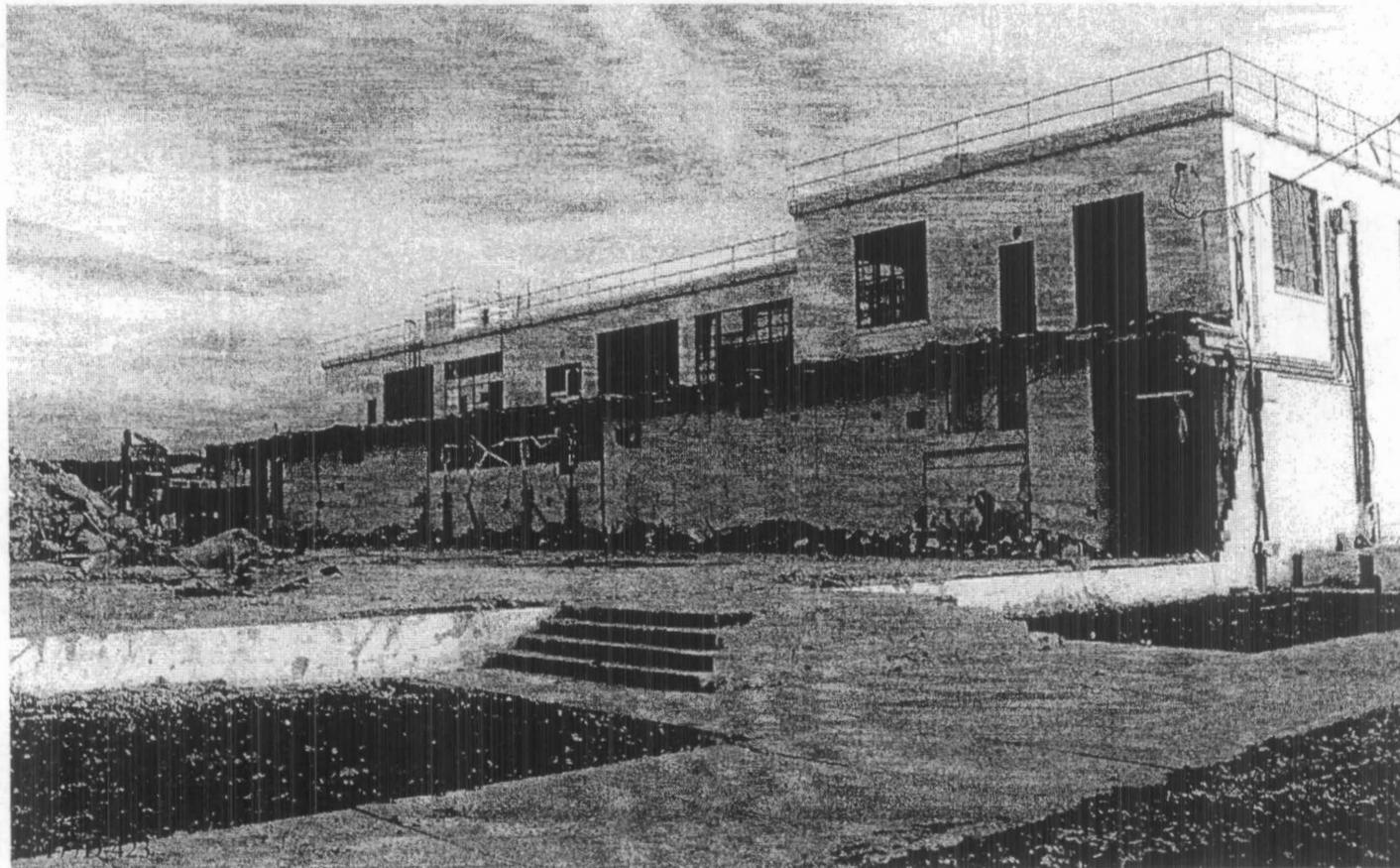
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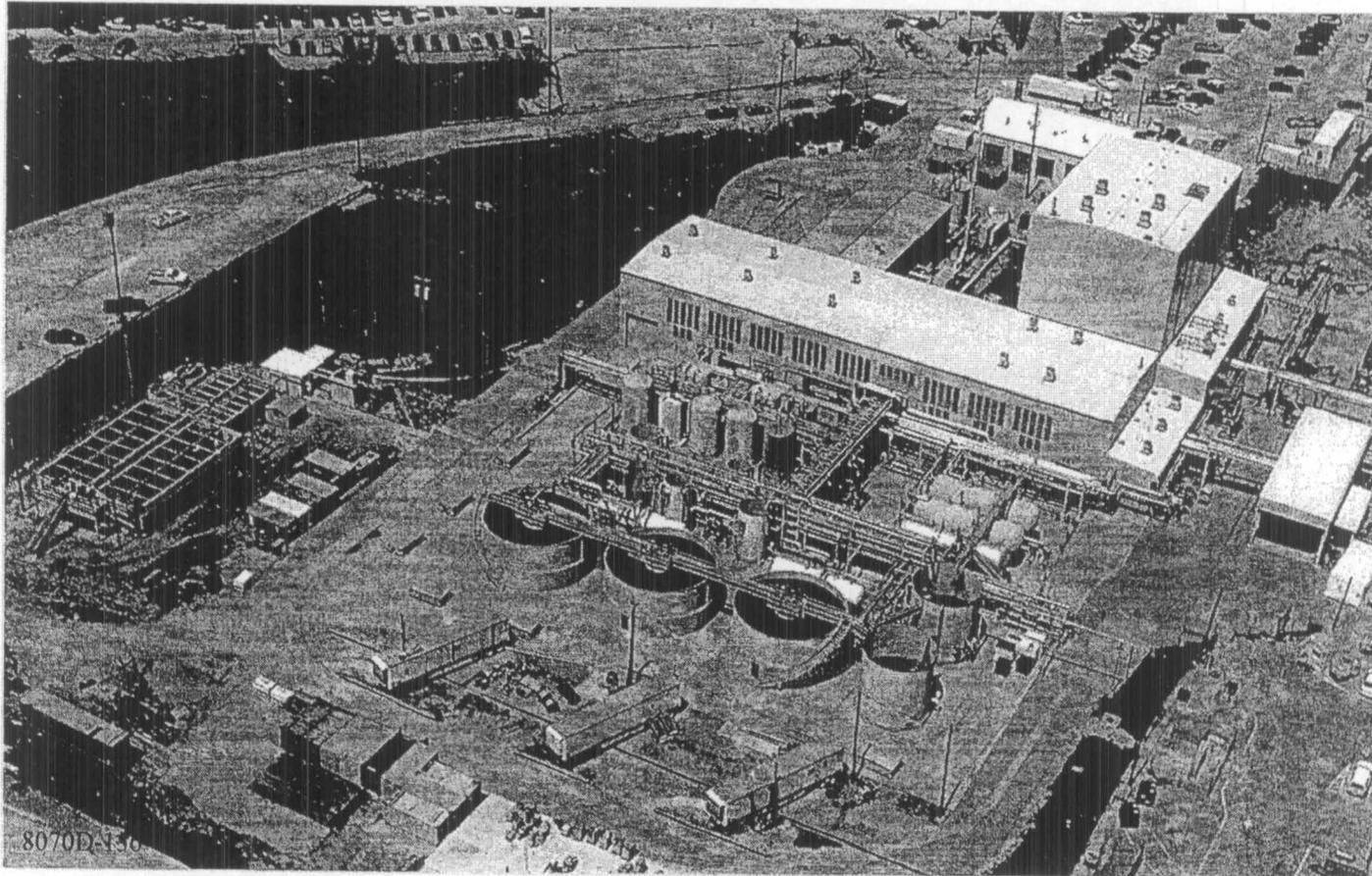
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05/06 - Silos 1 and 2 Treatment Facility	<i>Water Tower</i>	
06/06 - Miscellaneous Structures	<i>Dec 14</i>	



AQUIFER AND WASTEWATER

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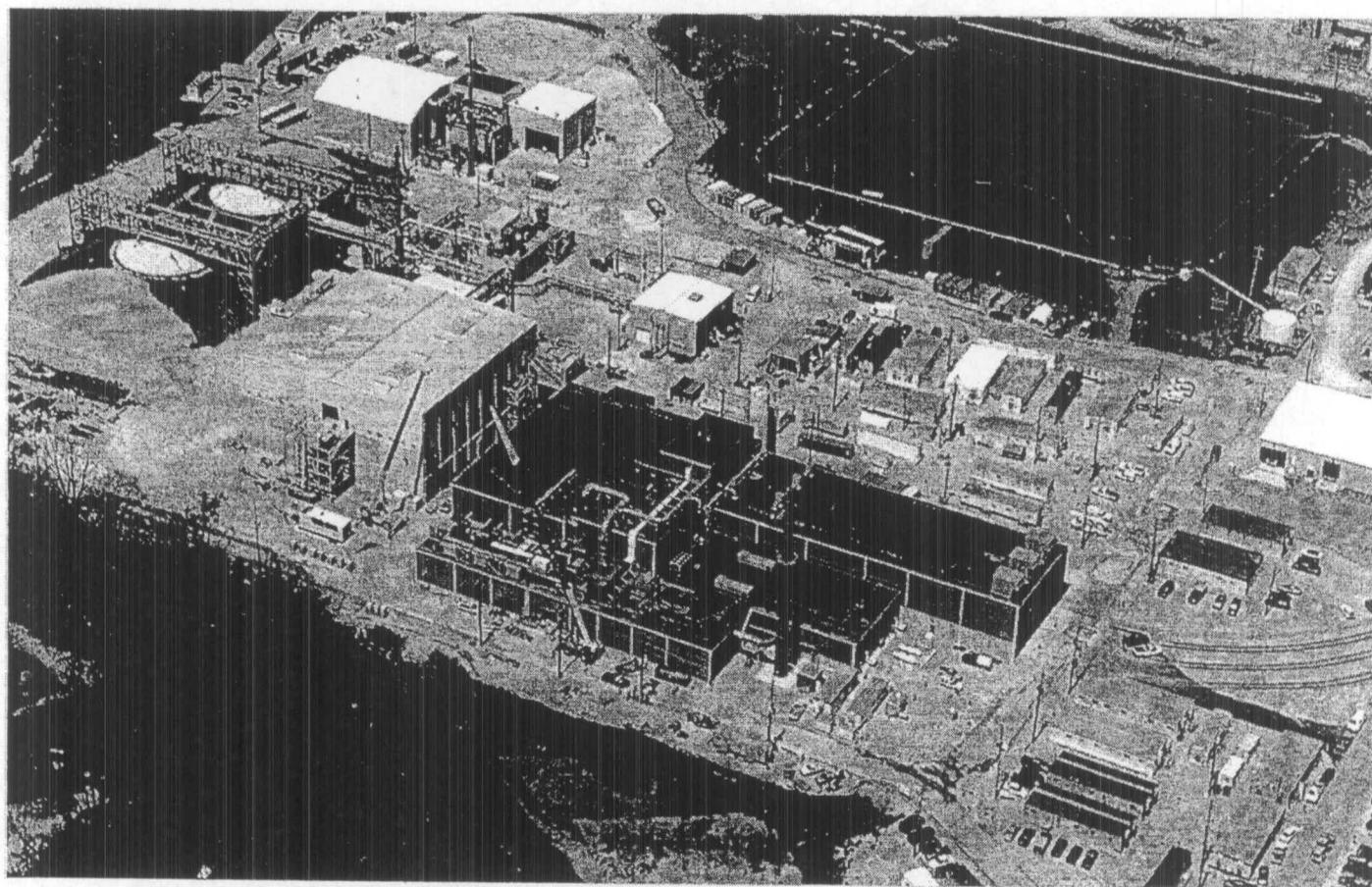
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SILOS 1 AND 2

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SSR/ start 1/10
RA

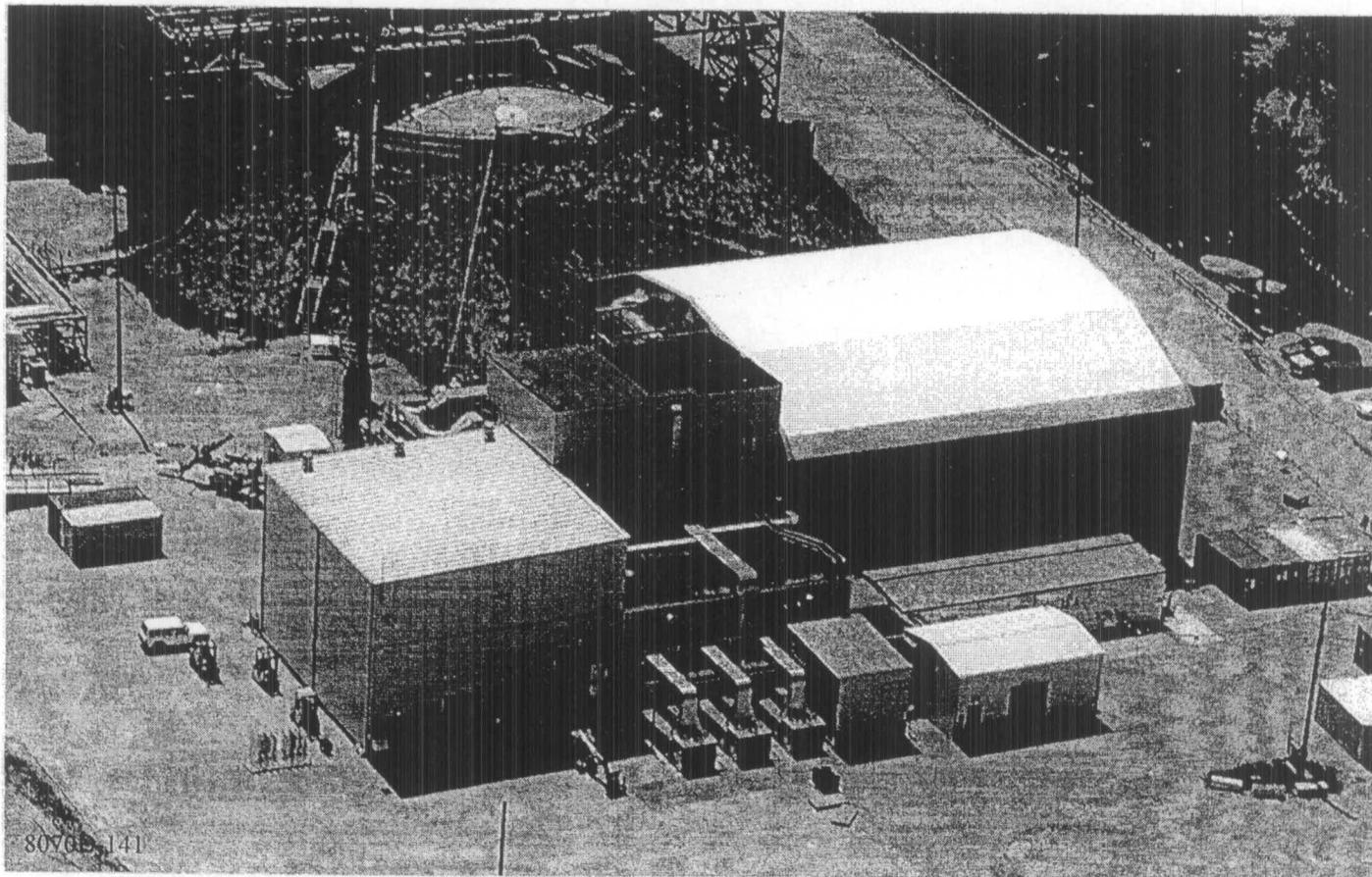
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SILO 3

Countdown to Closure - Winter 2004



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



SILO 3

Countdown to Closure - Winter 2004

Action Items

Delayed - Start of Operations

12/7/04 – Bids due on Request for Proposal for Commercial Disposal and/or Off-site Storage

12/27/04 – Approval of ESD for Off-site Temporary Storage Prior to Disposal

TBD – First Waste Shipment

TBD - Silo 3 Shutdown

TBD - D & D Silo 3

Status

Facility remains in a readiness configuration

Surrogate operation scheduled monthly

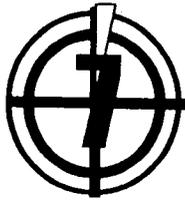
Issues

Operation delay which impacts follow-on activities

OEPA request for 15-day notification prior to start of operations

State of Nevada request for 45-day notice prior to shipping

State of Nevada opposition to disposal of 11(e)2 waste at NTS



OU4 ESD

5770

Countdown to Closure - Winter 2004

Scope:

- Allows the **OPTION** of temporary off-site storage of Silos 1, 2 and 3 material prior to permanent off-site disposal.
- Maintains all requirements for treatment, packaging and transportation as specified by the current Silos 1, 2 and 3 remedies.



OU4 ESD

Countdown to Closure - Winter 2004

Scope *(Cont.)*:

- Maintains all current criteria for protection of human health and the environment specified by the current Silos 1, 2 and 3 remedies.
 - Applicable or Relevant and Appropriate Requirements
 - Transportation risk criteria
 - Off-site management of Silo materials in accordance with DOE Orders and/or NRC criteria



OU4 ESD

Countdown to Closure - Winter 2004

Scope *(Cont.)*:

- Maintains current endpoint of OU4 remedy.
 - Protective permanent off-site disposal of Silo contents
 - D&D of Silo structures and Remediation Facilities



OU4 ESD

Countdown to Closure - Winter 2004

Constraints On Off-Site Storage:

- The material must be processed and packaged in accordance with current remedies prior to transporting to off-site storage.
- Storage must be at:
 - Government owned facility in accordance with appropriate DOE Order/regulations; or
 - Commercial facility permitted by the NRC or state agency



OU4 ESD

Countdown to Closure - Winter 2004

Constraints On Off-Site Storage *(Cont.)*:

- Permanent disposal is required after a storage limit of two years.
- Under no circumstances may the Silo material be returned to Fernald.
- Transportation to the storage facility and any subsequent transportation for disposal must meet DOT requirements and transportation risk criteria specified by the current remedy.



OU4 ESD

Countdown to Closure - Winter 2004

Reasons for the Change:

- Legal issues raised by the Nevada Attorney General regarding disposal at the NTS.
- DOE, U.S.EPA and OEPA's position remains that NTS disposal is legal, compliant and protective.
- DOE is committed to assuring that stakeholder issues are resolved prior to proceeding with disposal.



OU4 ESD

Countdown to Closure - Winter 2004

Reasons for the Change *(Cont.)*:

- Delaying scheduled retrieval, processing and off-site transportation pending resolution of Nevada Attorney General issues would result in significant impacts on cost, schedule and public risk.
- Proceeding with scheduled retrieval, processing and off-site transportation is necessary to:
 - Minimize risk to the public and the environment due to continued storage of untreated silo materials
 - Maintain 2006 closure schedule

Scope Constraints
Reasons for Change
Impacts



OU4 ESD

Countdown to Closure - Winter 2004

Impacts of Delaying Processing and Off-Site Transportation:

- Silo 3 Remediation Facility is operational.
- Silos 1 and 2 Remediation Facility is expected to demonstrate readiness for operation in January 2005.



OU4 ESD

Countdown to Closure - Winter 2004

Impacts of Delaying Processing and Off-Site Transportation *(Cont.)*:

- Significant costs and risks are associated with maintaining operational status:
 - Maintaining personnel on standby status
 - Equipment maintenance
 - Cost and risk of unsuccessful startup increases overtime



OU4 ESD

Countdown to Closure - Winter 2004

Impacts of Delaying Processing and Off-Site Transportation *(Cont.)*:

- Cost and schedule impact the Fernald closure:
 - Day-for-day delay in completing closure
 - Maintaining D&D and soil remediation readiness
 - Maintaining site infrastructure and support programs to sustain completion of OU4 remediation, D&D and soil disposal
 - Management of the 'open' OSDF while awaiting receipt of D&D debris and soil



OU4 ESD

Countdown to Closure - Winter 2004

Status and Path Forward:

- Draft ESD was approved by OEPA (11/10/04) and the U.S.EPA (11/12/04).
- Draft Final ESD was issued on 11/15/04:
 - Available in the PEIC and the Fernald website (<http://www.fernald.gov/Future/PDFs/Doc041115rwhstvd.doc>.PDF)
 - Notice of availability was sent to stakeholders and state agencies



OU4 ESD

Countdown to Closure - Winter 2004

Status and Path Forward *(Cont.)*:

- Public comment was initiated 11/18/04 and will close 12/27/04.
- Public comments will be appropriately addressed in the Final ESD submitted for DOE and U.S. EPA approval.