FERNALD CLEANUP PROGRESS BRIEFING
APRIL 2001

6:30 p.m. Opening Remarks	Gary Stegner
6:35 p.m. FCAB	Jim Bierer
6:40 p.m. Project Updates	
Waste Pits Remedial Action Project	Dave Lojek
Soil & Disposal Facility Projects	Rob Janke
Decontamination & Demolition	John Trygier
Silos Project	Nina Akgunduz
Aquifer Restoration/Wastewater Project	Rob Janke
Waste Generator Services	John Sattler
Nuclear Materials Disposition	John Sattler

Question and Answer Session

8:30 p.m. Adjourn

Graphics # 6935.0A 4/01

36227

PROJECT NEWS
WASTE PITS REMEDIAL ACTION PROJECT

- Rail transportation
- Waste pit excavation
- Dryer operations

2

Graphics # 6935.1A 4/01

8627

PROJECT NEWS
SOIL & DISPOSAL FACILITY PROJECT

- Continuing construction of the Enhanced Permanent Leachate Transmission system; completed 96 percent of the project
- Continuing operation of the Bulk Debris Transfer Area; dispositioned debris from over 700 rolloff boxes
- Continuing preparatory work to cap Cell 1

3

Graphics # 6935.2A 4/01

86227

PROJECT NEWS
SOIL & DISPOSAL FACILITY PROJECT

- Completed Area 1, Phase III/Paddys Run debris removal project
- Certified approximately 67 additional acres totaling 417 certified acres
- Area I, Phase III certification nearly complete

VALVE HOUSES

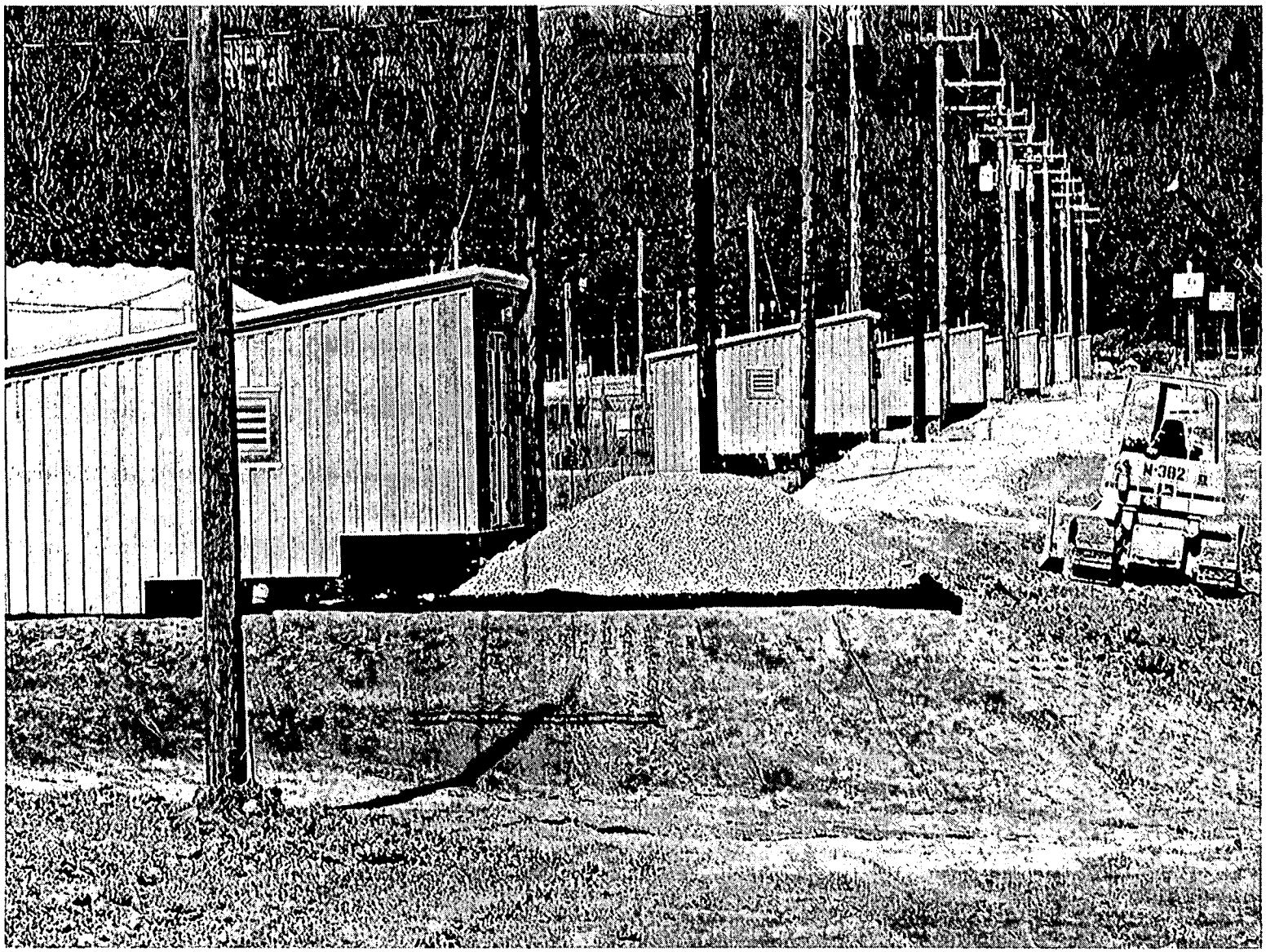


Photo taken April 2000

Graphics # 6935.2C 4/01 Photo # 7399-D614

5

8627

VALVE HOUSE INTERIOR

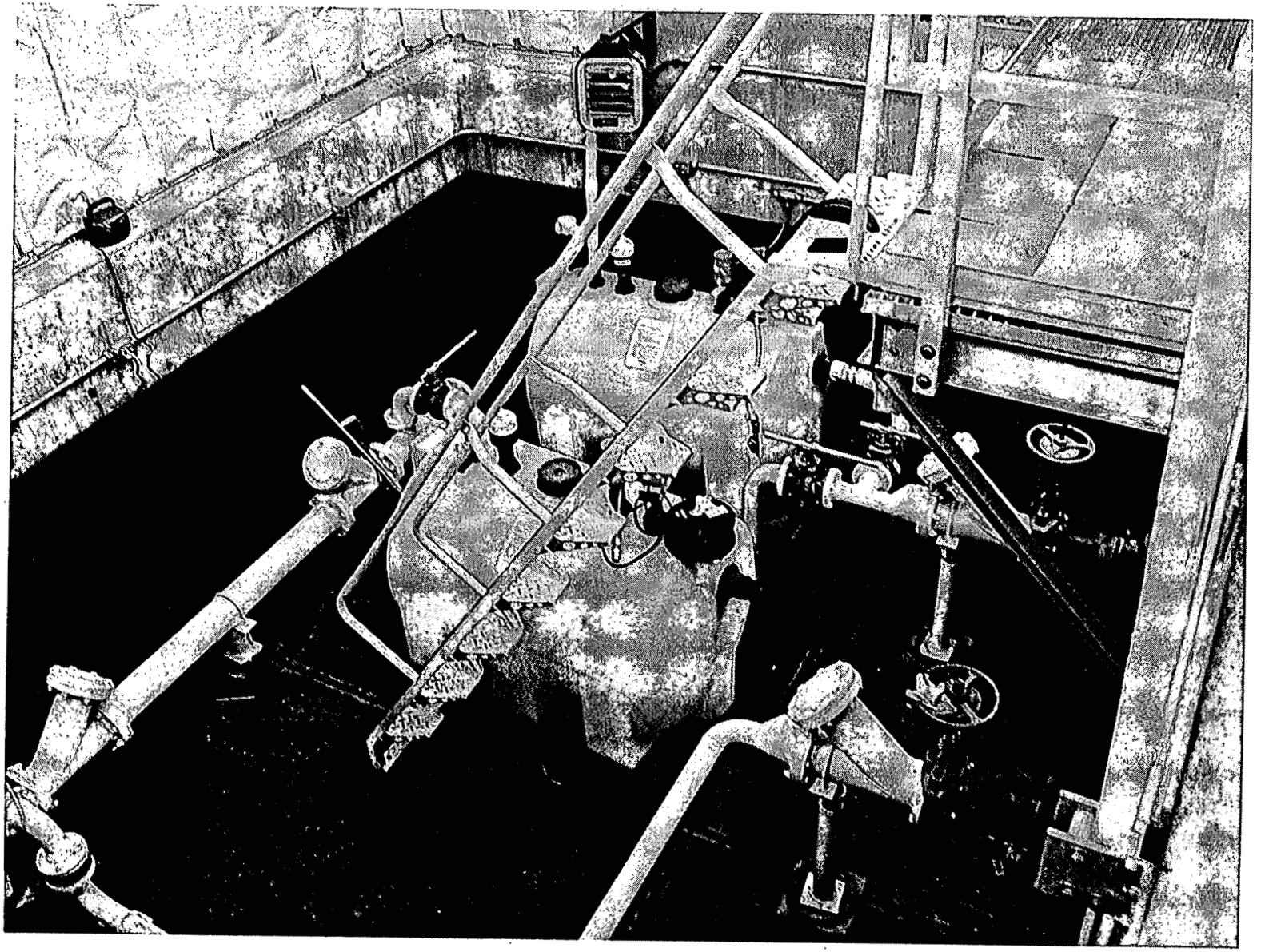


Photo taken April 2000

Graphics # 6935.2D 4/01 Photo # 7399-D617

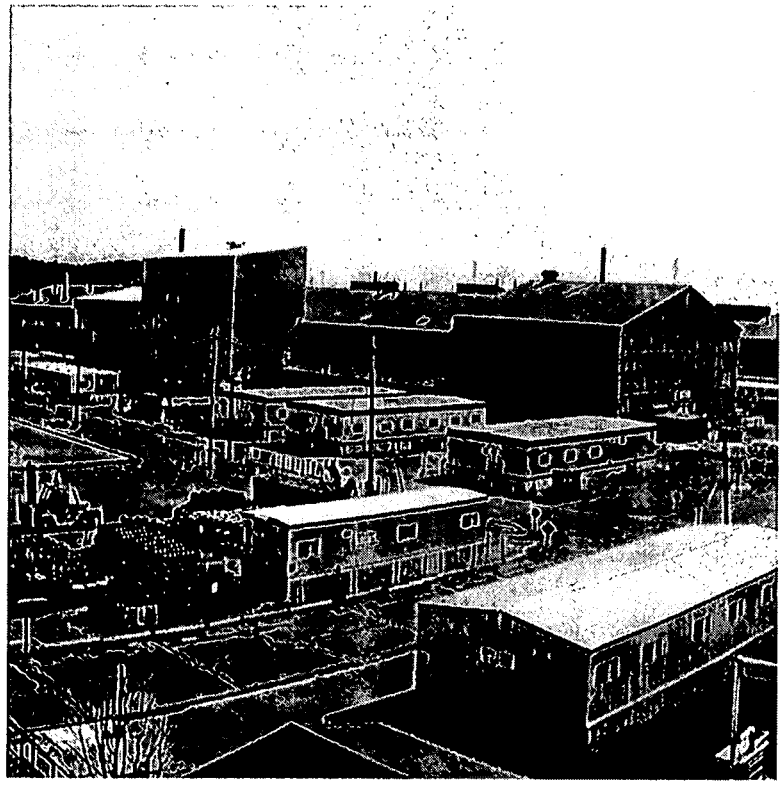
6

PROJECT NEWS
DECONTAMINATION & DEMOLITION

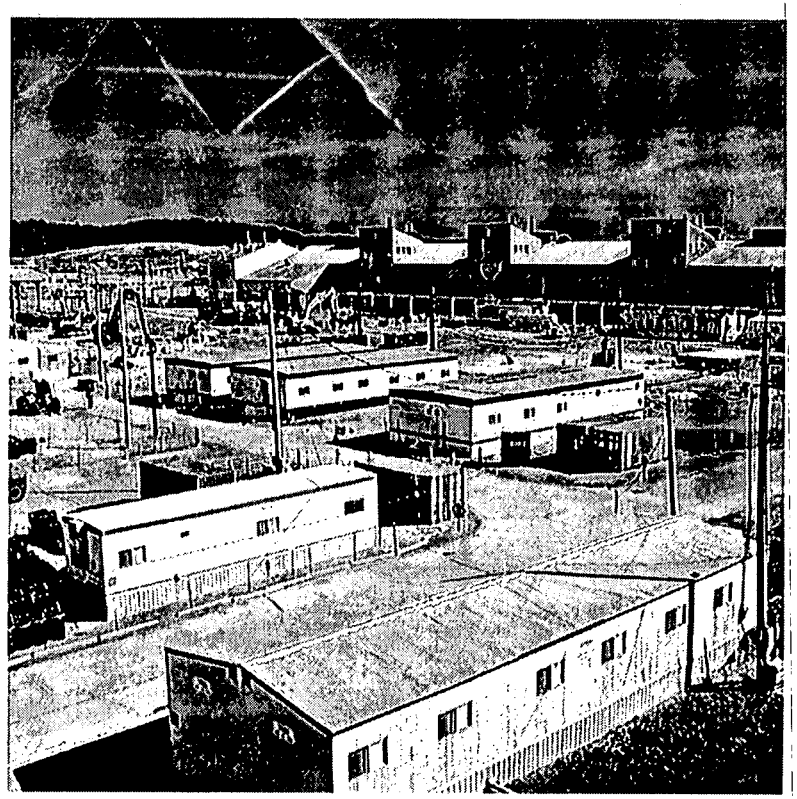
- Plant 5
  - Completed demolition of Building 5D, totaling 92 remediatd site components
  - Completed final D&D of the Plant 5 Complex
  - Completing punchlist items and decontaminating construction equipment
- Plant 6
  - Continuing interior demolition, below grade demoliton and removal of equipment and asbestos contaminated material in Building 6A
  - Initiated roof removal activities
  - Completed 60 percent of the project

Graphics # 6935.3A 4/01

PLANT 5



Before



After

Photos taken August 2000 & March 2001

Graphics # 6935.3B 4/01 Photo taken from Graphic # 6500.4 & Photo # 6401D-1095

PROJECT NEWS
SILOS PROJECT

Accelerated Waste Retrieval (AWR) Project Status

- Submitted revisions to Silos 1 and 2 AWR Project Remedial Design Package addressing EPA comments to EPAs for final review and approval
- Foster Wheeler will be submitting balance of Plant Final Design addressing Fluor Fernald comments
- Fluor Fernald and Foster Wheeler continue to address contractual issues

-8627

PROJECT NEWS
SILOS PROJECT

Silo 3
Project Status

- DOE reviewing project rescoping evaluation and recommendation

Graphics # 6935.4B 4/01

PROJECT NEWS
SILOS PROJECT

Construction Activities

- Completed first floor walls of the Transfer Tank Area Building
- Completed Site preparation construction for the pipe rack foundations
- Prepared existing carbon beds for turnover as Government Furnished Equipment (GFE) to Foster Wheeler

3627

PROJECT NEWS
SILOS PROJECT

Silos 1 and 2 Remediation Project Status

- Continuing work on Conceptual Design
- Completed Preliminary Container Development Evaluation
- Initiated Design Data Development work

PROJECT NEWS
AQUIFER RESTORATION/ WASTEWATER PROJECT

Background

- USEPA recently promulgated the Safe Drinking Water Act (SDWA) Maximum Contaminant Level (MCL) for uranium in November 2000, to be 30 micrograms per liter (ug/L) or 30 parts per billion (ppb)
- The Operable Unit (OU) 5 Record of Decision (ROD) established the groundwater cleanup Final Remediation Level (FRL) using the proposed MCL established under the SDWA in 1991
- The OU 5 ROD considered the proposed MCL as a place-holder until the final standard was established; EPAs concur with the change

Graphics # 6935.5A 4/01

36227

PROJECT NEWS
AQUIFER RESTORATION/ WASTEWATER PROJECT
USEPA Findings

- Increase in kidney toxicity risk for exposure at 30 ppb as opposed to 20 ppb is insignificant
- The 30 ppb final MCL is protection of the general population, including children and the elderly
- An MCL of 30 ppb for uranium maximizes the health risk reduction benefits at a cost that is reasonable and implementable

14

PROJECT NEWS
AQUIFER RESTORATION/ WASTEWATER PROJECT
Process of Change

- DOE is preparing an Explanation of Significant Differences (ESD) document to change the groundwater FRL in the OU 5 ROD
- The OU 5 groundwater FRL for uranium will change from 20 ppb to 30 ppb
- The OU 5 monthly average uranium concentration discharge limit will be changed from 20 ppb to 30 ppb

5

86227

PROJECT NEWS
AQUIFER RESTORATION/ WASTEWATER PROJECT
Public Review/Comment

- The ESD will become part of the Administrative record (40 CFR 300.8215 (a)(2))
- Notification of the ESD will be published in newspapers of general circulation (40 CFR 300.435 (c)(2)(I))
- Schedule for public review and comment will be announced

16

Graphics # 6935.5D 4/01

PROJECT NEWS
WASTE GENERATOR SERVICES

- Shipments to Nevada Test Site
  - February - 12,164 cubic feet;
    March - 34,931 cubic feet
  - FY 01 - 103,304 cubic feet

17

86627

PROJECT NEWS
WASTE GENERATOR SERVICES

- Waste Treatment and Storage
  - Near-term shipment of liquid mixed waste to Toxic Substance Control Act Incinerator (TSCAI) is on hold due to State of Tennessee equity concerns regarding shipments from other states
  - Continued pursuing alternative commercial dispositon paths for off-site liquid mixed waste incineration
  - Anticipate first shipments to Material And Energy Corporation, May 2001

18

PROJECT NEWS
NUCLEAR MATERIALS DISPOSITION

- Nuclear materials shipments to Portsmouth, OH
  - Shipped 130 metric tons uranium (MTU) in FY01
  - Shipped 3,302 MTU to date
  - Equates to 87 percent of overall project goal of 3,801 MTU

19

8627

Graphics # 6935.7A 4/01