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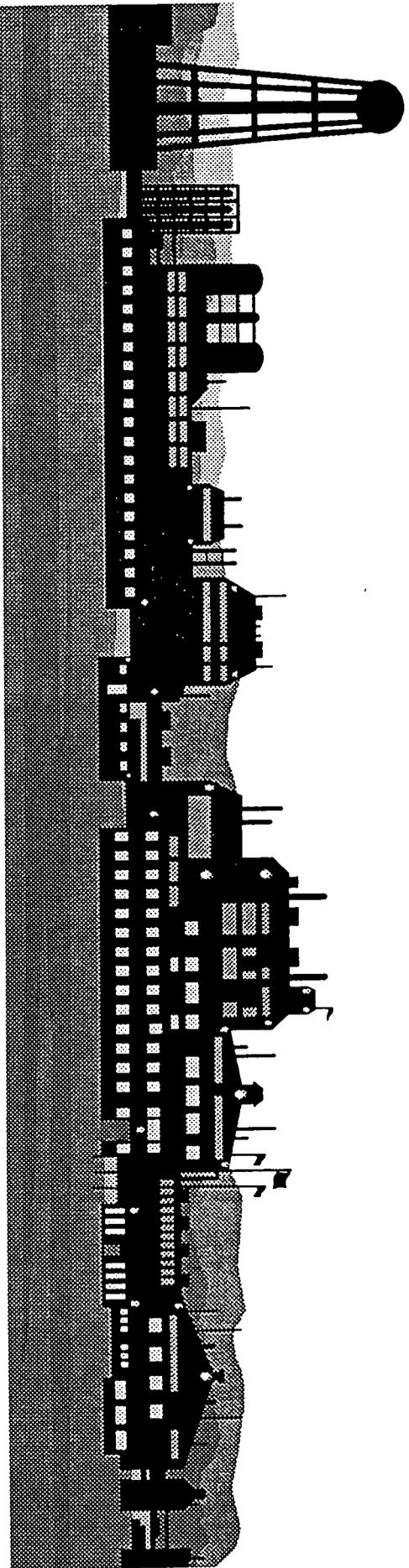
COMMUNITY MEETING - MAY 22, 1990 - HANDOUTS

05/22/90

DOE-FN PUBLIC
30
HANDOUTS

**U. S. DEPARTMENT OF ENERGY
FEED MATERIALS PRODUCTION CENTER
REMEDIAL INVESTIGATION / FEASIBILITY STUDY**

**Community Meeting
May 22, 1990**

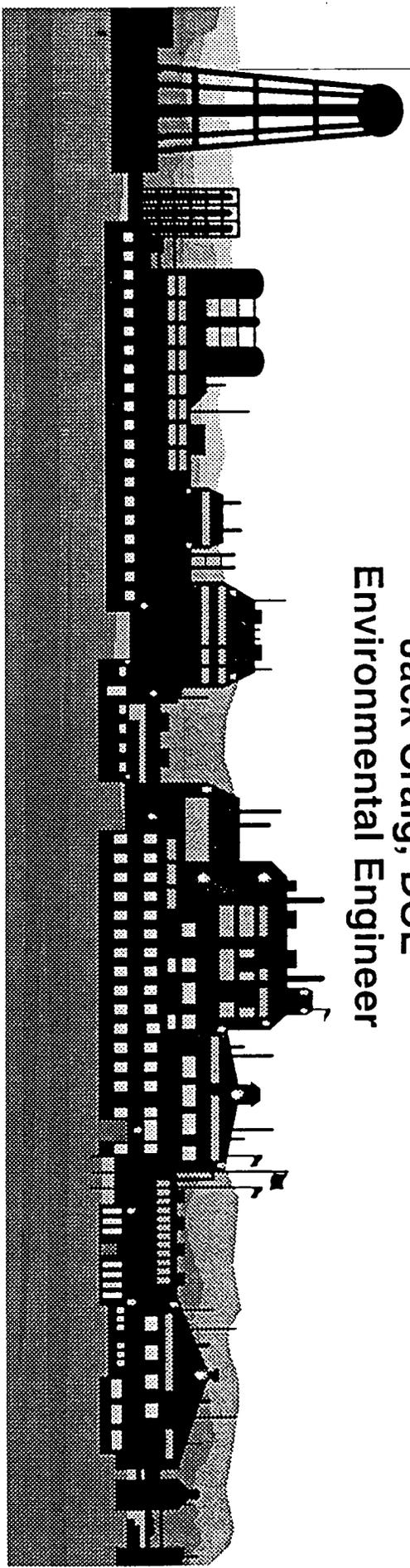


**U. S. DEPARTMENT OF ENERGY
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FMPC REMOVAL ACTIONS

**Jack Craig, DOE
Environmental Engineer**



REMOVAL ACTION

A near-term cleanup action that is initiated prior to final cleanup to reduce hazards or potential hazards

TIME CRITICAL REMOVAL ACTION

- A Removal Site Evaluation (RSE) is performed to determine if a Removal Action is required
- If the RSE determines a Removal Action is appropriate, a Work Plan is prepared to guide the implementation of the Removal
- Work Plans are submitted to U.S. EPA and Ohio EPA for review and comment
- The RSEs and Work Plans are placed in the Administrative Record to document the decision process

NON-TIME CRITICAL REMOVAL ACTION

- An Engineering Evaluation/Cost Analysis (EE/CA) document is prepared to determine the appropriate Removal Action alternative
- An EE/CA document:
 - Defines Removal Action Objectives
 - Determines Appropriate Alternatives
 - Evaluates the Alternatives
 - Selects a Preferred Alternative
 - Is Prepared Following Regulatory Guidelines
 - Undergoes U.S. and Ohio EPA review and is available in the Administrative Record for public comment

THE 4 CURRENT FMPC REMOVAL ACTIONS ARE:

- 1. Contaminated Water Under FMPC Buildings**
- 2. Waste Pit Area Runoff Control**
- 3. South Groundwater Contamination Plume**
- 4. Silos 1 and 2**

PERCHED WATER UNDER FMPC BUILDINGS REMOVAL ACTION

- **Removal Action to address area of contaminated water that is “perched” beneath the FMPC buildings and its potential release to the aquifer**

PERCHED WATER UNDER FMPC BUILDINGS

- Time Critical Removal Action
- Work Plans Prepared and Submitted to U.S. EPA and Ohio EPA for Review and Comment
- Identified Areas for Removal
 - Plant 6 - Metals Fabrication Plant
 - Plant 9 - Metals Production Plant
 - Plant 2/3 - Refinery Plant
- Schedule
- Organics Detected
- Information Available in Administrative Record

WASTE PIT STORMWATER RUNOFF CONTROL REMOVAL ACTION

- Removal Action to address above-background levels of uranium in runoff from the FMPC waste pit area.

WASTE PIT STORMWATER RUNOFF CONTROL REMOVAL ACTION

- Non-Time Critical Removal Action
- EE/CA Document to be Published May 30, 1990
- Removal Action Objectives
 - Protect public health and environment by controlling stormwater runoff
 - Reduce the potential for contamination of Paddy's Run
 - Prevent surface water runoff in the waste pit area from migrating to the aquifer

WASTE PIT STORMWATER RUNOFF CONTROL REMOVAL ACTION

- **Removal Action Alternatives**
 - 1. No Action**
 - 2. Surface Capping of Waste Pits**
 - 3. Surface Capping of Waste Pits and Drainage Collection**
 - 4. Runoff Collection and Treatment**
 - 5. Source Removal**

WASTE PIT STORMWATER RUNOFF CONTROL REMOVAL ACTION

- Alternative Evaluation Criteria
 - Effectiveness
 - Implementability: Complexity and time to implement
 - Cost
- Schedule

SOUTH PLUME REMOVAL ACTION

- **A Removal Action to address an area of groundwater which contains above-background levels of uranium. The area is located off site and south of the FMPC.**

SOUTH PLUME REMOVAL ACTION

- **Non-Time Critical Removal Action**
- **EE/CA Document Published and Public Comment Period: April 16 - June 17**
- **Removal Action Objectives**
 - **Reduce or remove uranium in groundwater south of the FMPC**
 - **Prevent plume migration to the south**

SOUTH PLUME REMOVAL ACTION

- **Alternative Evaluation Criteria**
 - **Effectiveness**
 - **Implementability: Complexity and time to implement**
 - **Cost**
- **Recommended Action: Groundwater Pumping Without Treatment**
 - **Provide alternate water supply**
 - **Monitor groundwater**
 - **Provide institutional controls**
- **Schedule**

K-65 SILOS REMOVAL ACTION:

- **Removal Action to Address the Threat of Structural Failure of the K-65 Silos and the Reduction of Radon Emissions**

K-65 SILOS REMOVAL ACTION

- Non-Time Critical Removal Action
- EE/CA Document to be Published August 1, 1990
- Removal Action Objectives
 - Reduce the probability and impacts of silo structural failure
 - Reduce radon emissions from the silos

K-65 SILOS REMOVAL ACTION

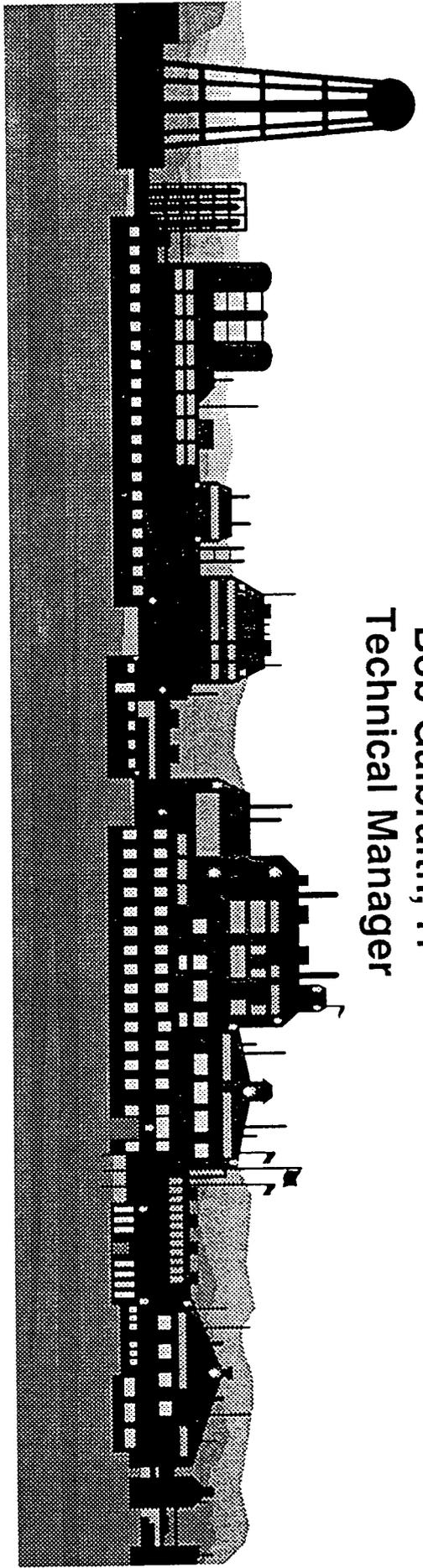
- **Types of Removal Action Alternatives**
 - **No Action**
 - **Installation/Operation of a New Radon Treatment System**
 - **Construction of a Light Structural Enclosure Over Silos**
 - **Construction of a Tornado-Proof Enclosure Over Silos**
 - **Placing of an Impermeable Material Over Silo Residues**
 - **Combinations of New Radon Treatment System, Construction of a Light Enclosure, and/or Construction of a Tornado-Proof Enclosure**

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REMEDIAL INVESTIGATIONS UPDATE

**Bob Galbraith, IT
Technical Manager**



UPDATE SINCE FEBRUARY

- Production Area Data Analysis
 - Uranium in soil
 - Uranium in perched groundwater
 - Organics in surface soil
- Install New Wells

OFF SITE WELL DATA

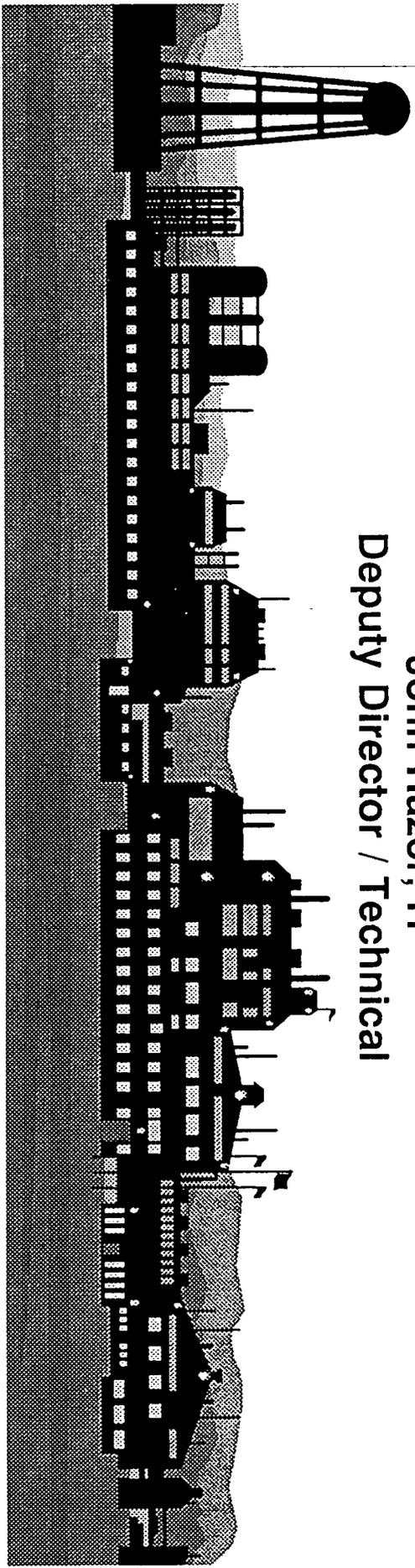
- Well 2391
 - Confirms model prediction
- Private Drinking Water Well

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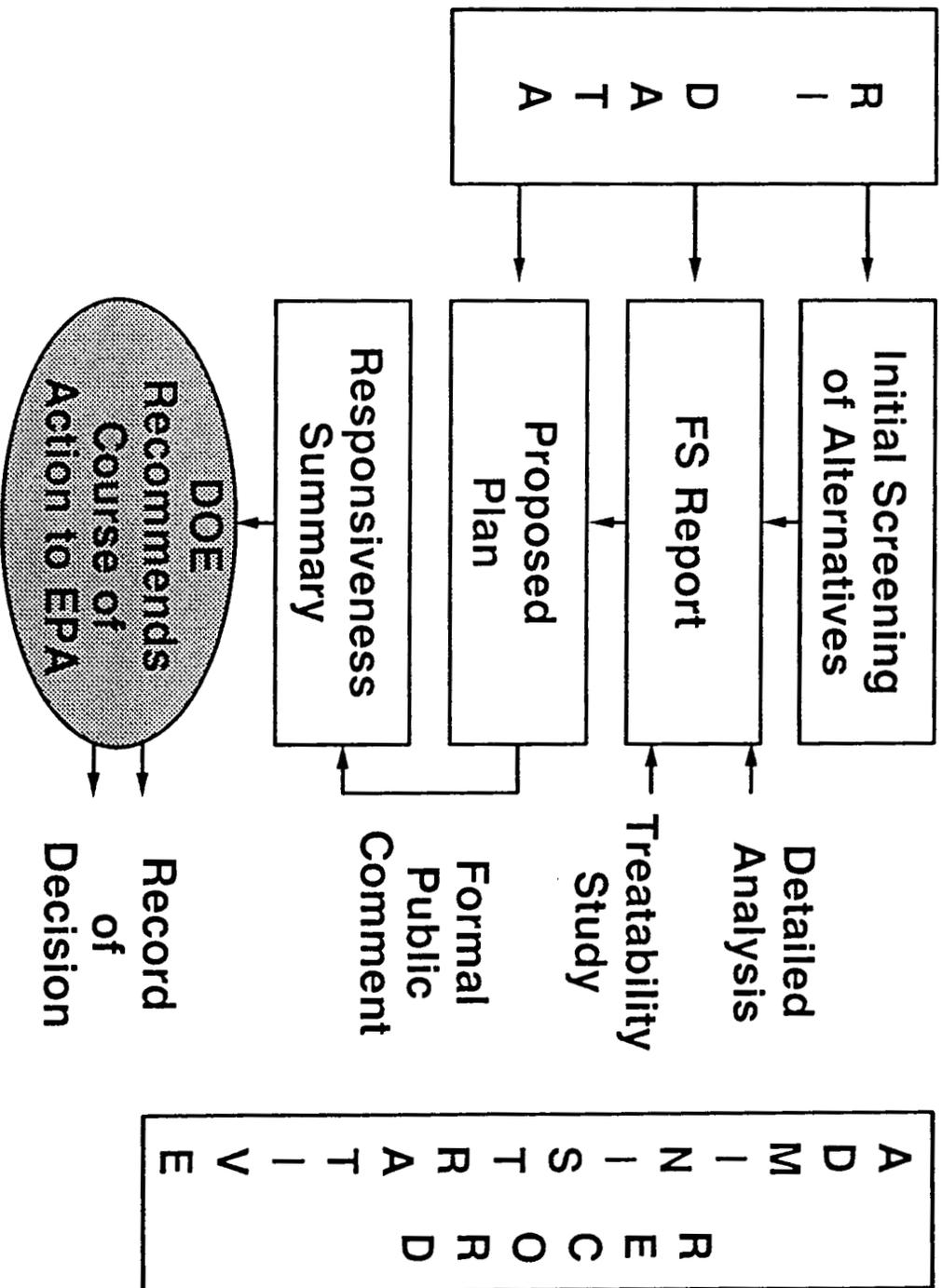
**Community Meeting
May 22, 1990**

FEASIBILITY STUDY UPDATE

**John Razor, IT
Deputy Director / Technical**



THE FEASIBILITY STUDY PROCESS



RIFS UPDATE

HC

The Operable Units - "OUS"

- OU 1 Waste Pits
- OU 2 Solid Waste Units
- OU 3 Production Area
- OU 4 Silos
- OU 5 Environmental Media

R/FS UPDATE: FEASIBILITY STUDY

- **Feasibility Study Overview**
 - Initial screening of alternatives underway for 5 Operable Units
 - Detailed analysis of alternatives underway for 5 Operable Units
- **OU 4 (Silos) - Initial Screening of Alternatives Report to be Available June 4**

R/IFS UPDATE: FEASIBILITY STUDY DOCUMENT SCHEDULE

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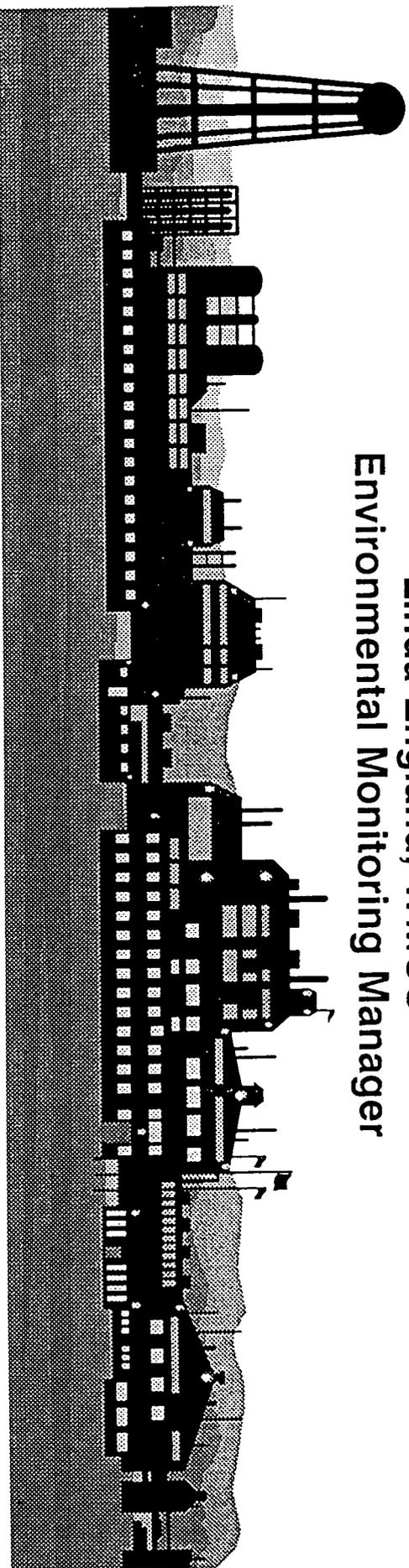
Administrative Record		Public Comment
Operable Unit	Initial Screening	Feasibility Study Reports
Waste Pits	July 23, 1990	March 25, 1991
Solid Waste Units	Oct. 29, 1990	March 25, 1991
Production Area	Sept. 24, 1990	May 15, 1991
Silos	June 4, 1990	Nov. 25, 1990
Environmental	Aug. 27, 1990	May 15, 1991
		Aug. 2, 1991

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ENVIRONMENTAL MONITORING PROGRAM

**Linda England, WMCO
Environmental Monitoring Manager**



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FMPC ENVIRONMENTAL MONITORING PROGRAM OVERALL GOALS

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- Identify Potential Environmental Concerns
- Evaluate Potential Environmental Concerns
(Dose Evaluation)
- Monitor Progress
- Inform the Public
- Ensure Compliance

ENHANCING THE ENVIRONMENTAL MONITORING PROGRAM

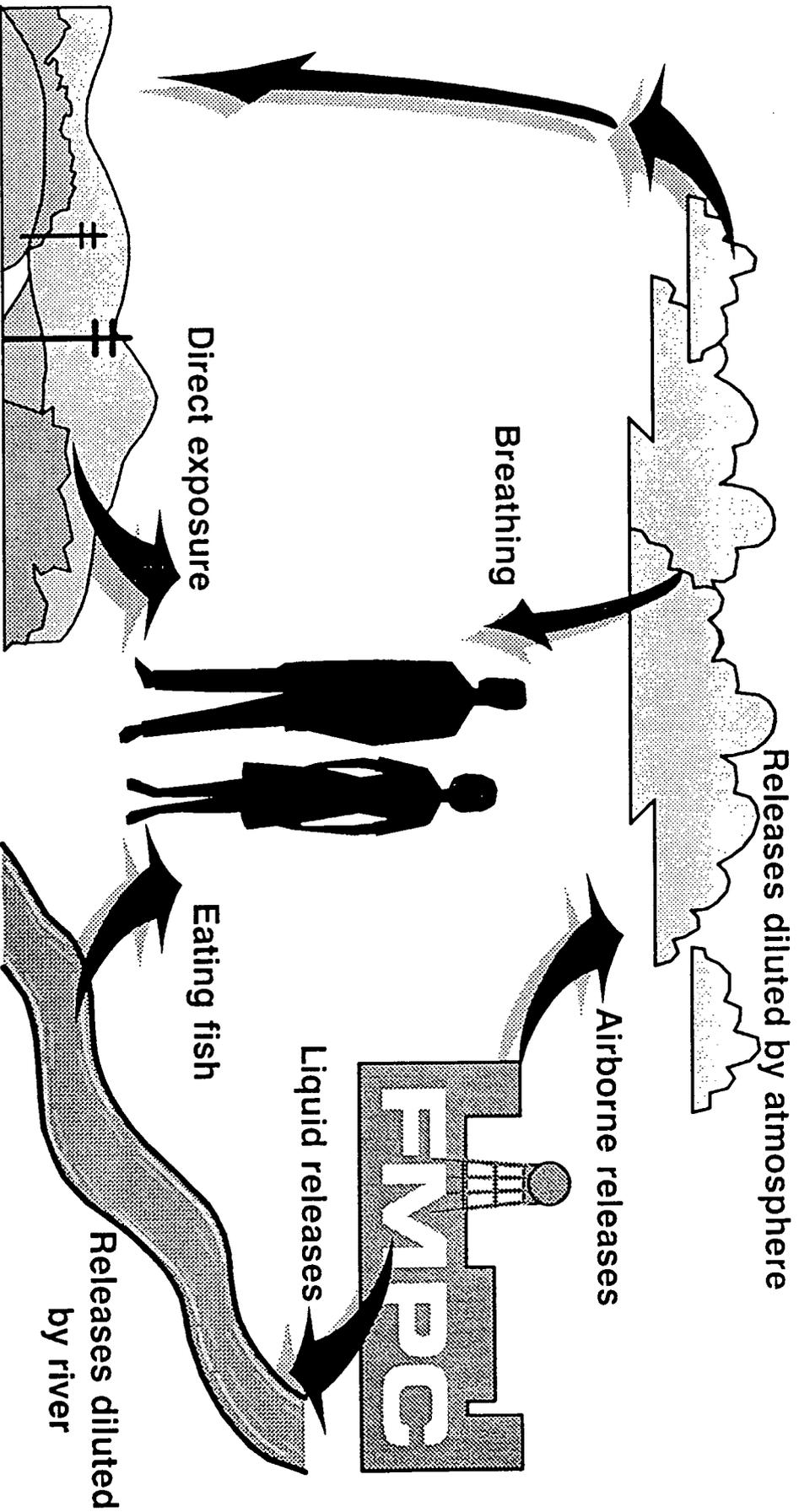
- **Technical Assessment**
 - **What it is**
- **Proactive Monitoring**
 - **Find it first**
- **Systematic Sampling**
 - **A strong program**
- **QA/QC - Check it out!**

COMPREHENSIVE FMPC MONITORING PROGRAM

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- **Effluent Monitoring**
- **Groundwater Monitoring**
 - **Drinking water**
- **Soil Monitoring**
- **Environmental Surveillance**
 - **Surface water**
 - **Sediment**
 - **Air monitoring**
- **Pathway Monitoring**

PATHWAYS TO HUMANS



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PATHWAYS TO HUMANS

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- Air
 - Air
 - Soil
 - Grass
 - Produce
 - Milk sampling
- External Radiation
 - From the K-65 Silos

PATHWAYS TO HUMANS

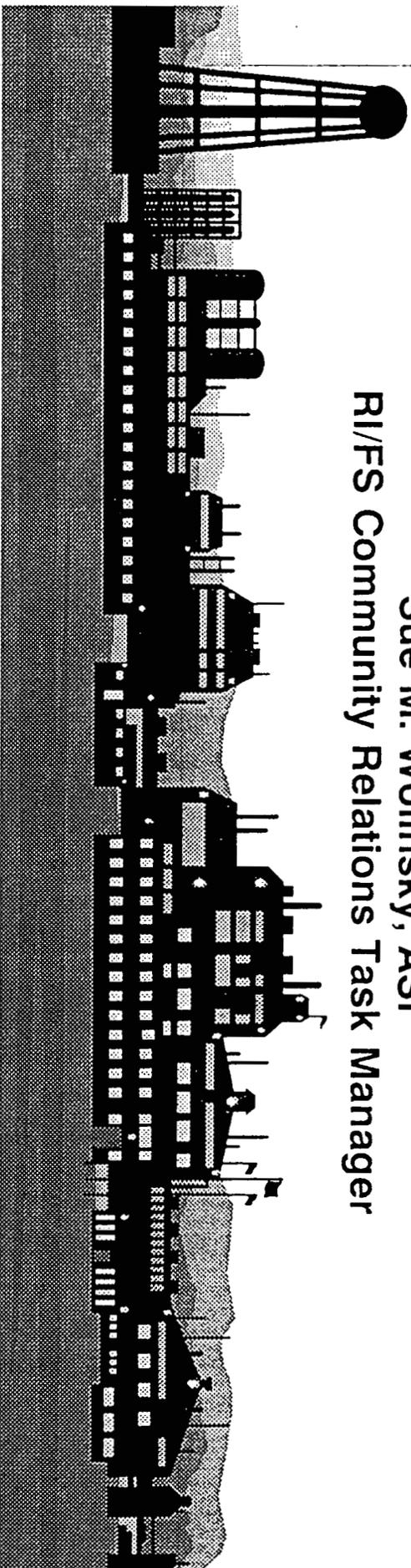
- Liquid
 - Groundwater
 - Drinking water
 - Surface water
 - Sediment sampling
- Biological Monitoring
 - Meat
 - Fish
 - Other critters

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PUBLIC PARTICIPATION

**Sue M. Wolinsky, ASI
RI/FIS Community Relations Task Manager**



PUBLIC PARTICIPATION INFORMATION OPPORTUNITIES

Community Roundtables

- **Started in March**
- **Topics to Date - Groundwater, Hazardous Waste, and Cleanup Progress**
- **Future Topics - K-65 Silos (tomorrow night), Cleanup Progress, and Radiation (refer to calendar)**
- **For Information - Contact Pete Kelley at WMCO (738-6644)**

PUBLIC PARTICIPATION INFORMATION OPPORTUNITIES

Administrative Record

- What is it?
- How can you use it?
- What DOE is doing to make it easier for you to use:
 - New arrangement, separating reading room and Administrative Record in FMPC Administrative Building
 - Locations to be consolidated due to space limitations and to make access more convenient
- See poster and handout with locations

PUBLIC PARTICIPATION INFORMATION OPPORTUNITIES

Public Comment Periods

- **South Plume EE/CA - April 16 - June 17**
 - **Workshop - May 30 - 7 p.m. - Crosby School**
- **Waste Pit Area Stormwater Runoff Control EE/CA - May 30 - June 30**
 - **Workshop to be announced**
- **For each, address comments to:**

**Gerald Westerbeck
DOE Site Manager
U.S. Department of Energy
P. O. Box 398705
Cincinnati, Ohio 45239**

PUBLIC PARTICIPATION INFORMATION OPPORTUNITIES

RI/FIS Environmental Impact Statement

- **Evaluates the Cumulative Social and Environmental Impacts of Cleanup Activities on and off the Fernald Site**
- **Announced in May 15 Federal Register**
- **First Step in EIS Process - Scoping Meetings**
 - Ross High School - June 12 - 7:30 p.m.**
 - Forest Park High School - June 13 - 7:30 p.m.**

PUBLIC PARTICIPATION INFORMATION OPPORTUNITIES

RI/FIS Environmental Impact Statement

- **Written Comments Will be Accepted; Must be Post-marked by June 22, 1990**
 - **Contact Bobby Davis at DOE regarding verbal or written comments:**

Bobby Davis
Environmental Manager
U.S. Department of Energy
P. O. Box 398705
Cincinnati, Ohio 45239
(513) 738-6156

- **EIS Fact Sheet Available**

PUBLIC PARTICIPATION INFORMATION OPPORTUNITIES

Renovation EIS

- **Evaluates the Impacts of Proposed Renovation Activities at the FMPC**
- **Actions Reviewed**
 - **Improve environmental health and safety**
 - **Improve management of hazardous and radioactive waste materials**
- **Public Input - Public Hearings and Comment Period on the Draft EIS Will be Conducted This Summer**