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OPERABLE UNIT 4 REMEDIAL DESIGN FORECAST SCHEDULE

05/02/95

DOE-0921-95
DOE-FN EPAS
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OU4

Department of Energy
Fernald Environmental Management Project
P. O. Box 398705
Cincinnati, Ohio 45239-8705
(513) 648-3155

MAY 02 1995

DOE-0921-95

Mr. James A. Saric, Remedial Project Director
U.S. Environmental Protection Agency
Region V - 5HRE-8J
77 W. Jackson Boulevard
Chicago, Illinois 60604-3590

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

OPERABLE UNIT 4 REMEDIAL DESIGN FORECAST SCHEDULE

As discussed in the April 17, 1995, memorandum from Jack R. Craig entitled, "Operable Unit 4 Final Remedial Design Work Plan," enclosed is the proposed revised Operable Unit 4 (OU4) Remedial Design (RD) Schedule and the revised RD Milestone Summary. As discussed with you in recent weeks, an effort was undertaken in OU4 to evaluate the overall OU4 schedule, through final remediation, to be certain operational data from Phase II Pilot Plant operations where incorporated into the final RD. Whereas the draft schedule did not, the enclosed schedule now allows incorporation of scale-up parameters from Phase II operations into the preliminary Title I submittal for the process facility, thereby reducing technical and schedule risk for final remediation.

For the most part, the work packages identified in this proposal and the draft work plan are similar, however, modifications are proposed as described below:

- Incorporation of the Functional Requirement Document and Design Criteria Package as Primary Document submittals. These baseline documents will identify and define functions that various systems must be capable of performing and the constraints and limitations that the design must satisfy. A list of assumptions utilized in the preparation of the design will be presented. The documents will describe how the project design will satisfy compliance with the Applicable or Relevant and Appropriate Requirements, To-Be-Considered, and pertinent Department of Energy (DOE) Orders.

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- To better mirror actual work packages during construction activities, the site preparation and final remediation packages have been further subdivided.

- The interim staging facility, as discussed in the draft plan, will be incorporated into the process facility design. As a contingency, an existing facility will be utilized for interim storage of the vitrified material prior to transport to the Nevada Test Site (NTS).

- An initial and final Remedial Action Work Plan (RAWP) will be prepared and submitted for your approval. The initial RAWP will include all available information, with more specific information being presented on Design Packages 2 and 3. The final RAWP, following the Pilot Plant operations, will include the required specificity on the remaining packages.

The impact of these revisions contributes to a fourteen-month extension in the initiation of residue processing and a net impact to the completion of all remedial activities of five months. However, I believe the activity milestone dates presented in the revised RD schedule will support a more technically sound approach toward the successful remediation of OU4. We will endeavor to accelerate design activities and improve the schedule as opportunities arise by continuously monitoring and re-evaluating the schedule throughout the Remedial Design/Remedial Action (RD/RA) process.

We are requesting your review of this package by May 8, 1995, such that the Final Work Plan for the OU4 RD can be finalized and submitted for your final approval on or before the May 16, 1995, milestone date.

If you have any questions with regard to the schedule or require additional information, please contact Randi Allen at (513) 648-3102.

Sincerely,

Johnny Reising

for Jack R. Craig
Fernald Remedial Action
Project Manager

FN:Allen

Enclosures: As Stated

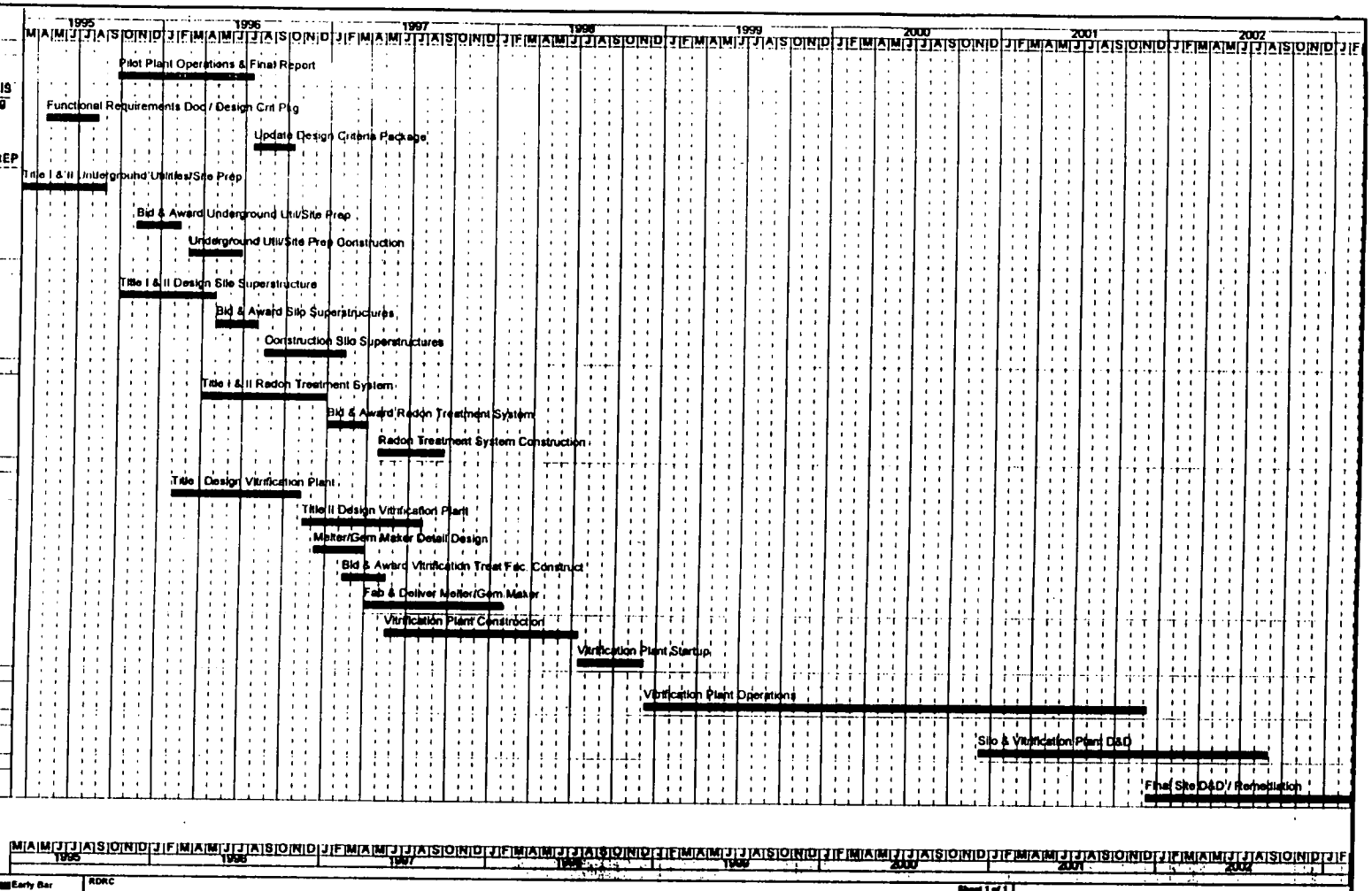
cc w/encs:

K. H. Chaney, EM-423/GTN
D. R. Kozlowski, EM-423/GTN
G. Jablonowski, USEPA-V, 5HRE-8J
J. Kwasniewski, OEPA-Columbus
P. Harris, OEPA-Dayton
M. Proffitt, OEPA-Dayton
S. McClellan, PRC
R. Cohen, GeoTrans
F. Bell, ATSDR
R. Owen, ODOH
R. D. George, FERMCO/52-2
T. Hagen, FERMCO/65-2
AR Coordinator, FERMCO

cc w/o encs:

J. Thiesing, FERMCO
M. Yates, FERMCO/9

Activity ID	Activity description
PILOT PLANT OPERATIONS	
H001	Pilot Plant Operations & Final Report
FUNCT REQUIREMENTS, DES CRITERIA, DESIGN BASIS	
H003	Functional Requirements Doc / Design Crit Pkg
H006	Update Design Criteria Package
DESIGN & CONSTRUCT UNDERGROUND UTIL/SITE PREP	
H015	Title I & II Underground Utilities/Site Prep
785	Bid & Award Underground Util/Site Prep
788	Underground Util/Site Prep Construction
DESIGN & CONSTRUCT SILO SUPERSTRUCTURES	
H012	Title I & II Design Silo Superstructure
791	Bid & Award Silo Superstructures
794	Construction Silo Superstructures
DESIGN & CONSTRUCT RADON TREATMENT SYSTEM	
H015	Title I & II Radon Treatment System
797	Bid & Award Radon Treatment System
800	Radon Treatment System Construction
DESIGN & CONSTRUCT VITRIFICATION PLANT	
715	Title I Design Vitrification Plant
722	Title II Design Vitrification Plant
H016	Melter/Gem Maker Detail Design
815	Bid & Award Vitrification Treat Fac. Construct
H017	Fab & Deliver Melter/Gem Maker
803	Vitrification Plant Construction
806	Vitrification Plant Startup
RESIDUE TREATMENT OPERATIONS	
809	Vitrification Plant Operations
SILO, VIT. PLANT, & PILOT PLANT D&D / WASTE MGMT	
878	Silo & Vitrification Plant D&D
FINAL SITE REMEDIATION	
884	Final Site D&D / Remediation



Project Start	01JAN00	Early Bar
Project Finish	03MAR03	Progress Bar
Data Date	01MAR96	Critical Activity
Plot Date	02MAY96	

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Sheet 1 of 1

FERMCO - CRU4

REMEDIAL DESIGN WORK PLAN SCHEDULE

000004

Activity ID	Activity description
PILOT PLANT OPERATIONS	
H001	Pilot Plant Operations & Final Report
FUNCT REQUIREMENTS, DES CRITERIA, DESIGN BASIS	
H003	Functional Requirements Doc / Design Crit Pkg
H008	Update Design Criteria Package
DESIGN & CONSTRUCT UNDERGROUND UTIL/SITE PREP	
H018	Title I & II Underground Utilities/Site Prep
785	Bid & Award Underground Util/Site Prep
788	Underground Util/Site Prep Construction
DESIGN & CONSTRUCT SILO SUPERSTRUCTURES	
H012	Title I & II Design Silo Superstructure
791	Bid & Award Silo Superstructures
794	Construction Silo Superstructures
DESIGN & CONSTRUCT RADON TREATMENT SYSTEM	
H015	Title I & II Radon Treatment System
797	Bid & Award Radon Treatment System
800	Radon Treatment System Construction
DESIGN & CONSTRUCT VITRIFICATION PLANT	
716	Title I Design Vitrification Plant
722	Title II Design Vitrification Plant
H016	Melter/Gem Maker Detail Design
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H017	Fab & Deliver Melter/Gem Maker
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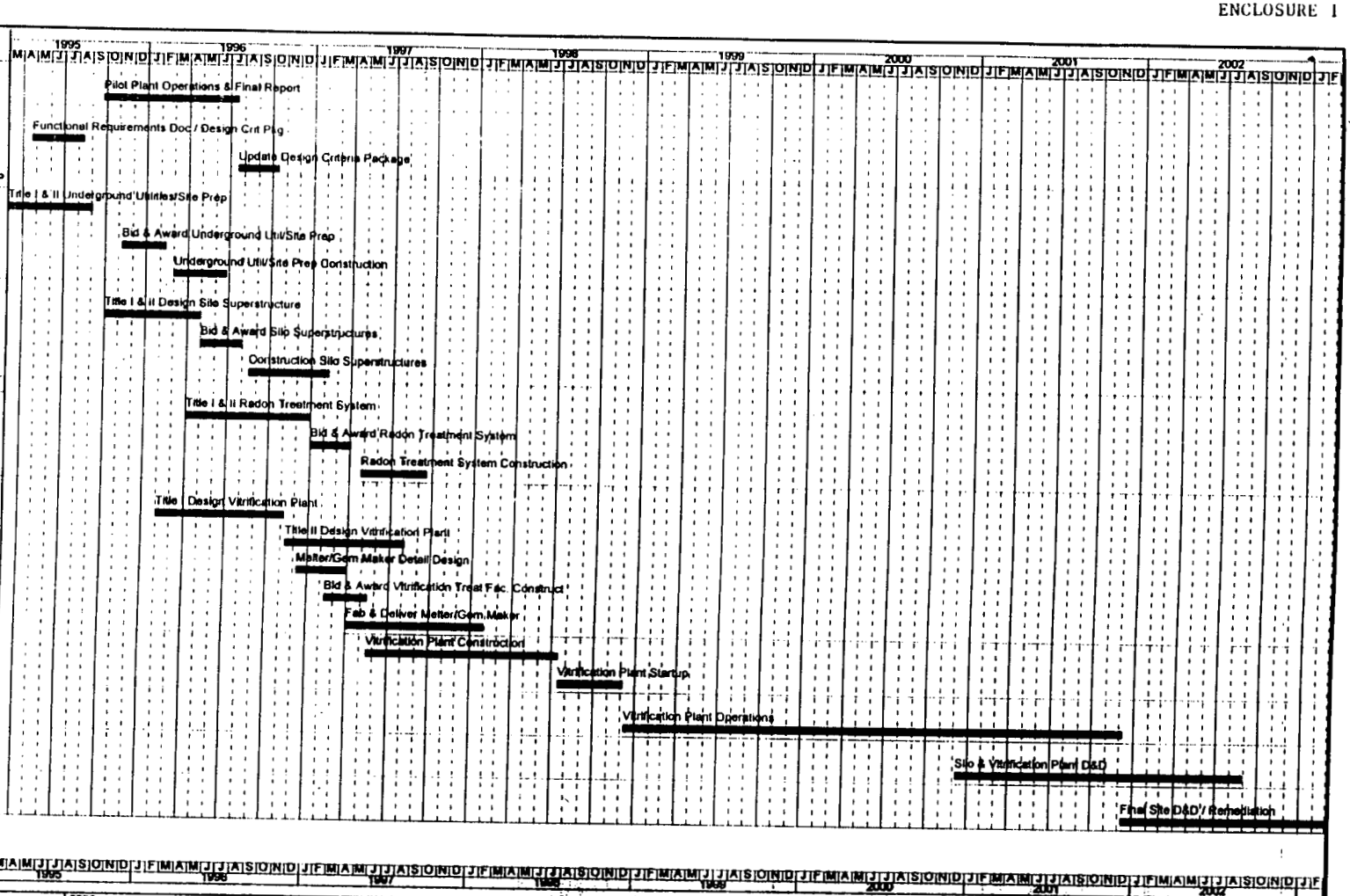
RESIDUE TREATMENT OPERATIONS	
809	Vitrification Plant Operations
SILO, VIT. PLANT, & PILOT PLANT D&D / WASTE MGMT	
878	Silo & Vitrification Plant D&D
FINAL SITE REMEDIATION	
884	Final Site D&D / Remediation



Project Start	01JAN90	Early Bar
Project Finish	03MAR03	Progress Bar
Data Date	01MAR96	Critical Activity
Plot Date	02MAY96	

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Sheet 1 of 1

FERMCO - CRU4

REMEDIAL DESIGN WORK PLAN SCHEDULE

000005

ENCLOSURE 2

OPERABLE UNIT 4
REMEDIAL DESIGN MILESTONE SUMMARY

DESIGN PKG NO	SUBMITTAL DESCRIPTION	TYPE	DATE
REMEDIAL DESIGN			
1	Functional Requirements Document	Pre-final, 90%	15-Aug-95
	Design Criteria Package	Preliminary, 30%	
2	Underground Utilities/Site Prep, Title II Design	Pre-final, 90%	01-Sep-95
3	Silo Superstructure, Title II Design	Pre-final, 90%	02-May-96
4	Radon Treatment System, Title II Design	Pre-final, 90%	02-Jan-97
5	Vitrification Plant, Title I Design	Preliminary, 30%	04-Dec-96
	Design Criteria Package	Pre-final, 90%	
6	Vitrification Plant, Title II Design	Pre-final, 90%	01-Sep-97
7	D&D, Waste Management, Title II Design	Pre-final, 90%	07-Dec-00
8	Final Site Remediation, Title II Design	Pre-final, 90%	07-Dec-01
REMEDIAL ACTION WORK PLAN			
Submit Initial Remedial Action Work Plan		6-Oct-95	
Submit Final Remedial Action Work Plan		16-Oct-96	