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CONTRACT NO. DE-AC05-86OR21548

REMEDIAL DESIGN WORK PLAN FOR THE QUARRY BULK WASTE MANAGEMENT PROGRAM

For the
Weldon Spring Site Remedial Action Project
Weldon Spring, Missouri

Prepared by MK-Ferguson Company and Jacobs Engineering Group

MAY 1991

REV. 0

U.S. Department of Energy
Oak Ridge Operations Office
Weldon Spring Site Remedial Action Project



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PLAN TITLE: REMEDIAL DESIGN WORK PLAN FOR THE QUARRY BULK
WASTE MANAGEMENT PROGRAM

APPROVALS

B. Louis Tompales for MDF May 31, 1991
Department Manager Date

[Signature] 5/31/91
Quality Assurance Manager Date

[Signature] 5-31-91
Engineering Manager Date

[Signature] 5/31/91
Deputy Project Director Date

[Signature] FOR JRP 5-31-91
Project Director Date

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Weldon Spring Site Remedial Action Project

**Remedial Design Work Plan for the
Quarry Bulk Waste Management Program**

Revision 0

May 1991

Prepared by

**MK-FERGUSON COMPANY
and
JACOBS ENGINEERING GROUP
7295 Highway 94 South
St. Charles, Missouri 63303**

for the

**U.S. DEPARTMENT OF ENERGY
Oak Ridge Operations Office
Under Contract DE-AC05-86OR21548**

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1 REMEDIAL DESIGN WORK PLAN

The remedial design work plan (RDWP) addresses the contracting strategy for the quarry bulk waste removal, transportation, and storage. It defines contract execution methods and schedules that the Project Management Contractor (PMC) will employ to complete these projects. This RDWP presents the current schedules for the various contracting packages related to the quarry bulk waste management program detailed in the *Quarry Conceptual Design Report* (MKF and JEG 1991). The contracting strategy for some of the work packages was originally derived from a value engineering (VE) study held in January 1991 (MKF and JEG 1991), but has since been modified.

1.1 Contracting Packages

Work activities were grouped to consider all the contract requirements. These activities are contained in the five contracting packages described below. Work and contracting requirements related to the quarry water treatment plant were not included because it is an on-going activity.

Quarry Preparation. Includes clearing and grubbing, chipping and piling vegetation, stabilizing the quarry high wall, constructing transfer locations, and constructing an access road to the quarry floor, if required.

Bulk Waste Removal. Includes excavating, sorting, and loading the quarry waste material.

Temporary Storage Area (TSA) Construction. Includes the site preparation and construction of the TSA.

Bulk Waste Transportation and TSA Operations and Maintenance. Includes hauling the quarry wastes to the TSA, maintaining the haul road, placing the quarry wastes in the appropriate storage areas within the TSA, decontaminating the roll-off containers, and maintaining the TSA until completing all placement of quarry waste.

Haul Road Construction. Includes clearing and grubbing of the roadway and construction of the haul road from the quarry to the TSA.

1.2 Types of Contracts

The different types of contracts that were considered for the aforementioned work activities included the following:

- Fixed Price/Lump Sum
- Fixed Price/Unit Price
- Cost Reimbursable and Incentive
- Direct Hire

1.3 Contracting Criteria

The following seven criteria were used to evaluate contracts:

- Field flexibility
- Enhancement of schedule
- Financial stability
- Fair and equitable contract
- Liability and risk
- Importance to corporate resume
- Minimize total cost/risk

In addition, the following five criteria are applicable to all decisions regarding the selection of contracts:

- All work will be performed in a manner that provides maximum protection to workers, public health, and safety.
- All work will comply with applicable regulations.
- Subcontract activity will be maximized to the extent possible.
- Funding considerations may impact all decisions.

- Small and small disadvantaged business subcontracting quotas will be met or exceeded.

1.4 Selection

The results of the matrix evaluations during the VE study showed the following:

- A fixed price/unit price contract will best serve the bulk waste transportation and TSA operations and maintenance activities.
- A fixed price/lump sum contract will serve the quarry preparation activity.
- A cost reimbursable and fixed fee contract will serve the bulk waste removal activity.

Following the VE study, the PMC determined that the following contracts will be appropriate for the remaining two contracting packages:

- A lump sum contract will serve the TSA site preparation and construction activities.
- A fixed price/unit price contract will serve the haul road construction activity.

1.5 Schedules

The proposed schedule for the five contracting packages described in Section 1.1 is shown in Figure 1-1. Each package is divided into engineering, bid/award, and construction/operation.

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 NK: Ferguson
 CONTRACT: 9589

QUARRY BULK WASTE REMEDIAL ACTION
 PLANNED PACKAGES

ACTIVITY DESCRIPTION	ACTUAL/ FORECAST START	ACTUAL/ FORECAST FINISH	1991		1992		1993		1994		1995		1996		1997		1998			
			OC	JA	AP	JU	OC	JA												
(0B) QUARRY HAIL ROAD																				
1 QUARRY HAIL ROAD : ENGINEERING	9NOV90	17MAY91																		
2 QUARRY HAIL ROAD : BID/AWARD	21MAY91	18JUL91																		
3 QUARRY HAIL ROAD : CONSTRUCTION	19JUL91	13MAY92																		
(0C) QUARRY BULK WASTE PREPARATION																				
4 BULK WASTE PREPARATION : ENGINEERING	14APR91	30DEC91																		
5 BULK WASTE PREPARATION : BID/AWARD	31DEC91	28FEB92																		
6 BULK WASTE PREPARATION : CONSTRUCTION/INSTALLATION	1MAR92	27AUG92																		
(0D) QUARRY BULK WASTE REMOVAL																				
7 BULK WASTE REMOVAL : ENGINEERING	15APR91	30APR92																		
8 BULK WASTE REMOVAL : BID/AWARD	1MAY92	27SEP92																		
9 BULK WASTE REMOVAL : REMEDIAL ACTION	28SEP92	21MAR95																		
(0E) QUARRY TEMPORARY STORAGE AREA																				
10 TEMPORARY STORAGE AREA : ENGINEERING	25JAN91	16DEC91																		
11 TEMPORARY STORAGE AREA : BID/AWARD	16DEC91	28FEB92																		
12 TEMPORARY STORAGE AREA : CONSTRUCTION	1MAR92	26SEP92																		
(0F) QUARRY TRANSPORTATION - TSA DEM																				
13 BULK WASTE TRANS - TSA DEM : ENGINEERING	15APR91	30APR92																		
14 BULK WASTE TRANS - TSA DEM : BID/AWARD	1MAY92	27SEP92																		
15 BULK WASTE TRANS - TSA DEM : OPERATION	28SEP92	1OCT96																		
(0G) EMERGENCY PREPAREDNESS PLAN																				
16 EMERGENCY PREPAREDNESS PLAN : PREPARE/ISSUE	1OCT90	23AUG91																		

MECHANIS

2 REFERENCES

MK-Ferguson Company and Jacobs Engineering Group, 1991. Interoffice Correspondence to File; Subject: Bulk Waste Contracting Strategy VE Results, IOC from G.L. Vallet to N.E. Hopson. January 21.

MK-Ferguson Company and Jacobs Engineering Group, 1991. *Conceptual Design Report on the Quarry Bulk Waste Management Program*, Volumes I and II, Revision 1, April.