

CORRES. CONTROL
OUTGOING LTR NO.

DOE ORDER # 4700.1
94RF 05386

EG&G ROCKY FLATS

EG&G ROCKY FLATS, INC.
ROCKY FLATS PLANT, P.O. BOX 464, GOLDEN, COLORADO 80402-0464 • (303) 966-7000

May 13, 1994

94-RF-05386

J. L. Pepe
Environmental Restoration Division
DOE/RFFO

COST ESTIMATE FOR OPERABLE UNIT 7 LEACHATE COLLECTION INTERIM MEASURE/INTERIM REMEDIAL ACTION DECISION DOCUMENT (04395) – TPO-020-94

The purpose of this correspondence is to provide you a cost estimate for the above referenced document. Please note that this was developed with the attached assumptions (Attachment 1) in mind. This estimate and assumptions were transmitted to you informally on April 28, 1994 and forms the basis of planning for the above referenced document. This estimate includes costs for development of the decision document only. Additional costs for draft and final Title II design are not included and will be submitted at a later date. Attachment 2 lists issues detailing the reasons for the additional costs, and Attachment 3 is the proposed schedule.

Costs (K)
Subcontractor costs: \$140,000

- 80 hours data evaluation
- 120 hours modeling
- 250 hours options analysis
- 500 hours conceptual design
- 280 hours environmental assessment
- 400 hours document preparation
- 130 hours project management
- 175 hours technical working group meetings

EG&G Rocky Flats, Inc., costs: \$87,000

(Assumes 1.0 FTEs for the duration of the project for project management, design review, technical support etc.)

Total: 227,000
Contingency: 30,000
Grand Total: 257,000

C	DIST.	ltr	ENC
	AMARAL, M.E.		
	BERMAN, H.S.		
	BRANCH, D.B.		
	CARNIVAL, G.J.		
	COPP, R.D.		
	DAVIS, J.G.		
	FERRERA, D.W.		
	HANNI, B.J.		
	HARMAN, L.K.		
	HEALY, T.J.		
	HEDAHL, T.		
	HILBIG, J.G.		
	HUTCHINS, N. M.		
	KELL, R.E.		
	KIRBY, W.A.		
	KUESTER, A.W.		
	MAHAFFEY, J.W.		
	MANN, H.P.		
	MARX, G.E.		
	MCDONALD, M.M.		
	MCKENNA, F.G.		
	MONTROSE, J.K.		
	MORGAN, R.V.		
	POTTER, G.L.		
	PIZUTTO, G.L.		
	RISING, T.L.		
	SANDLIN, N.B.		
	SETLOCK, G.H.		
	STEWART, D.L.		
	STIGER, S.G.		
	SULLIVAN, M.T.		
	SWANSON, E.R.		
	WILKINSON, R.B.		
	WILSON, J.M.		
	WYANT, R.D.		

	Busby, W. S.	X	
	Mathias	X	X
	Johnston	X	X
	Mad. E.P.	X	X
	Klauer	X	X
	CORRES CONTROL	X	X
	ADMIN RECORD/080	X	X
	TRAFFIC		

	PATS/T130G		
	CLASSIFICATION:		
	UCNI		
	UNCLASSIFIED		
	CONFIDENTIAL		
	SECRET		

AUTHORIZED CLASSIFIER SIGNATURE

DOCUMENT CLASSIFICATION REVIEW WAIVER PER CLASSIFICATION OFFICE

DATE

IN REPLY TO RFP CC NO:

ACTION ITEM STATUS
 OPEN CLOSED
 PARTIAL

LTR APPROVALS:

ORIG & TYPIST INITIALS

ALP:VBS tr
RF-46469 (Rev. 11/93)



ADMIN RECCRD

RF-46469-000427

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Current Status

Contract modification for the leachate collection Interim Measure/Interim Remedial Action (IM/IRA) is underway. The Request for Proposal (RFP) for the modification has been sent and the proposal from the subcontractor is due May 16, 1994.

Change control actions are on schedule. The Baseline Change Proposal (BCP) has been submitted to the Department of Energy (DOE) Environmental Restoration Change Control Board (CCB).

A Tour of the project site is scheduled for Thursday May 12, 1994. The tour involves the leachate collection system and landfill closure design teams.

Please call me as soon as possible if you have any concerns. The entire project is essentially critical path due to the milestone dates being imposed as a result of the dispute resolution.



Tim P. O'Rourke
Operable Unit 7 Project Manager
Remediation Project Management

TPO:tjr

Original and 1 cc – J. L. Pepe

Attachments:
As Stated

ATTACHMENT 2

Operable Unit (OU) 7 Assumptions for Leachate Collection and Treatment Interim Measure/Interim Remedial Action (IM/IRA) Acceleration

The following are planning assumptions used to scope the above referenced subject. These assumptions will allow us to develop the IM/IRA Decision Document within a time frame that should be acceptable. Any violation of these assumptions may impact our ability to meet project milestones.

- Schedule assumptions. No down time for Master Task Subcontract (MTS) modification since current scope is covered except where additional design criteria exist due to the lack of closure implementation. Schedule for development of a draft document for review is approximately four months.
- No additional field data will be required to support development of the IM/IRA Decision Document (DD).
- No risk assessments will need to be performed for this project. All comparisons will be to Applicable or Relevant and Appropriate Requirements (ARARs). Significant schedule impacts due to ARARs finalization will not occur.
- Assume 1.0 FTEs of EG&G Rocky Flats, Inc., management and technical oversight for the duration of this effort. This is not included in the attached cost proposal and should run about six months including document review cycles. (approx. 960 hours)
- This document will be developed to include an evaluation of treatment options including current on-site treatment availability as well as portable treatment.
- If on-site capabilities for treatment exist, the Department of Energy (DOE) will prioritize the leachate so that no impacts from piping or other transportation issues impact the schedule.
- No other "downstream" milestones will be agreed to between DOE and the Agencies without consultation with project staff and until full evaluation of all options occur as a result of document development.
- Sediments will be allowed to be manipulated within the boundaries of the East Landfill Pond in order to support construction.
- Final disposition of the sediments will occur during landfill closure and, under the Corrective Action Management Units (CAMU) concept, be disposed of within the Present Landfill
- ARARs will be based upon current site wide benchmarks.
- Bi-weekly meetings will be scheduled and prioritized with DOE and regulatory staff to ensure that no significant differences impact the overall process.
- Document review times for the Environmental Protection Agency (EPA) and the Colorado Department of Health (CDH) will run concurrently and not exceed fifteen working days.
- Document review times for DOE/Rocky Flats Field Office (RFFO) and DOE Headquarters will run concurrently and not exceed ten working days.

- All agencies will prioritize this effort so that no significant delays occur as a result of failure to convene meetings, conduct reviews, or reach consensus on issues that may occur.

Assumptions identified as a result of a meeting with Gail Hill and Shirley Olinger of DOE/RFFO:

- The water in the East Landfill Pond will need to be removed in order to install the leachate collection system. Water removal will be the responsibility of DOE/Environmental Protection Division (EPD).
- Any wetlands mitigation will be addressed by DOE/EPD and is not the responsibility of this project.
- The East Landfill Pond is not considered "waters of the U.S." under section 404 of the Clean Water Act (CWA) and no impacts from CWA permitting issues will occur.
- Treated water and leachate from the East Landfill Pond will be piped to holding tanks not funded under this project or released downstream.

Fragmentation of the approach to the design of the Interim Measure/Interim Remedial Action (IM/IRA) for Operable Unit (OU) 7 to include a separate IM/IRA for leachate and pond water reduces cost efficient evaluation of the appropriateness of treatment technologies and optimization of their design because related activities and contaminated media are either not considered or not evaluated at the same level of detail. Consequently additional level of effort is associated with the following activities.

- Data evaluation: Review of additional data is prudent to ensure that baseline characterization assumptions for the leachate and pond water IM/IRA are still valid for the OU 7 IM/IRA.
- Modeling: Some model input parameters are dependent of the results of other components of the IM/IRA which will be definitized later. Consequently, a wider range of model input parameters must be considered for the leachate and pond water IM/IRA.
- Options Analysis and Conceptual Design: Because a wider range of model input parameters must be considered, model output will represent a wider range of values and both the options analysis and conceptual design will necessarily be broader. Additionally, available options for the treatment of leachate and pond water must be evaluated separately from the options that will be available later for the treatment of contaminated groundwater downgradient of OU 7. For example, storage options for untreated water will change after the leachate and pond water IM/IRA is developed and will have to be evaluated again later for groundwater. Surface and groundwater containment/collection options will also be dependent on the remedial actions chosen in the leachate and pond water IM/IRA decision document.
- Environmental Assessment: Performing an environmental assessment for the leachate and pond water IM/IRA and later for the OU 7 IM/IRA will result in some duplication of effort.
- Decision Document Preparation: The level of effort associated with preparation of the Decision Document will increase because of the need to present rationale for deviations, inconsistencies, or modifications to the conceptual design of the leachate and pond water IM/IRA as it is incorporated into the OU 7 conceptual design. In addition, two documents must be prepared, reviewed, revised and resubmitted.

