



INTEROFFICE CORRESPONDENCE

DATE September 26, 1994

TO W L Bartholomew, Procurement Bldg 080, X8512

FROM C A Bicher OU 5 Closures Bldg 080, X9100 CB

SUBJECT OU5 WOMAN CREEK PRIORITY DRAINAGE TECHNICAL EVALUATION REVISION 1, OF PROPOSAL FOR SUBCONTRACT NO MTS 226606-002 NM3 - CAB-047-94

DOE Order 4700 1

Action Negotiate Contract

This is Revision 1 to the Technical Evaluation issued on August 25, 1994, CAB-039-94. A review/analysis of the proposal under subject subcontract has been performed. This subcontract is for the continuation of the Phase 1 RFI/RI Report by Advanced Science Inc. This includes switching from a Basic Ordering Agreement (BOA) to a Master Task System contract. It also includes the implementation of the Technical Memorandum 15, Addendum to the Field Sampling Plan. The following recommendations are provided for your use in finalizing this effort.

General Remarks

This proposal appears to adequately address the work contained in the Statement of Work (SOW) and Addendum 1 to the SOW. This technical evaluation was revised based on the fact finding meeting held August 31, 1994, with ASI and the Amended Proposal dated September 21, 1994.

Specific Remarks

a Labor hours The subcontractor proposes to complete the scope of work per the Work Breakdown System (WBS) elements detailed in the SOW. Overall the number of hours proposed by ASI for the field work and the development of the RFI/RI Report are deemed reasonable based on the independent estimate prepared with the SOW with exception to WBS element 130. The distribution of hours has been compared with the number of hours experienced with the previous BOA contract and the contract for a similar effort under OU6.

b Materials/Lower tier Subcontractors Overall the labor hours and materials proposed for completing the implementation of TM 15 adequately addresses the scope of the work. This is discussed in detail in Attachment 2.

The labor hours proposed by Dames & Moore to complete the risk assessment activities for WBS elements 110, 150, 800, and 1200 are higher than estimated by EG&G and are discussed in Attachment 1.

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c Schedule - Overall the proposed schedule complies with the SOW and program requirements. However, the EPA has granted the Interagency Agreement milestones for the 'Draft Final' Report as July 21, 1995, and the Final Report as January 17, 1996, as specified in the SOW Section 7.2. In order to meet these regulatory milestones, EG&G must receive the following submittals by the following dates:

- | | | |
|------------------------------|------------------|------------------------|
| • draft Draft' RFI/RI Report | May 19, 1995 | 2 days sooner than SOW |
| • Draft Final' RFI/RI Report | July 14, 1994 | 3 days sooner than SOW |
| • Final RFI/RI Report | January 10, 1996 | 4 days sooner than SOW |

Note: ASI has proposed to meet these deadlines, however, the schedule submitted with the work implementation plan on September 9, 1994, does not support this requirement. EG&G is very concerned that ASI has not provided this requirement.

d Travel - Travel outside of the 75 mile radius is not expected during the course of this project. ASI has not proposed travel for this proposal.

e Other Direct Costs: The number of copies of deliverables is consistent with the SOW. Other costs such as computer usage, reproduction, and office supplies are consistent with the proposed effort and are deemed reasonable.

f Fee: The scope of this work contains different levels of complexity and risk. The Risk Assessment and its associated activities are on the critical path for meeting IAG milestones. These activities are very technical and complex, requiring iterative processes that involve numerous disciplines and agency agreements at varying stages of the process. The field work is routine. However, field work this time of year could experience weather delays and problems. The remainder of the project is average in complexity.

Attachment 1, prepared by C. A. Bicher, provides a detailed technical evaluation for each WBS element except WBS 300 elements.

Attachment 2, prepared by Mark Wood, provides a detailed technical evaluation for WBS 300 elements, Implementation of TM15 Addendum to the Field Sampling Plan.

Should you have any questions, please contact me at extension 9100 or Mark Wood X8784.

CAB cb

Attachments
As Stated

cc
E C Mast
M R Wood

**Technical Evaluation, Revision 1 for MTS 226606-002 NM3
September 27, 1994
Specific Remarks by WBS Element**

110 General Project Management

The proposed labor hours for ASI are reasonable and acceptable

The proposed cost for Dames & Moore to perform General Project Management are excessive to the scope of this task as ASI is the lead subcontractor. It is reasonable to expect some hours for Program and Project Management and Engineer I for providing cost, schedule and scope status to ASI. Technical overview by Dames & Moore senior management is also expected, however, this is covered in each WBS element. EG&G does not approve the hours estimated by Dames & Moore for an Engineer II, Technician I, Technician II or a Mathematician II to perform these tasks.

Dames & Moore has estimated hours only for the period of 12 months. It is expected that Dames & Moore would be involved for the duration of the project (19 months) in the form of General Project Management. The following table summarizes the basis of EG&G's estimate for Dames & Moore.

	<u>Dames & Moore Proposed Hours</u>	<u>EG&G Estimated Hours</u>
Program Manager	18	76 = 4 hours/mo x 19 mos
Project Manager	144	152 = 8 hours/mo x 19 mos
Engineer I	36	38 = 2 hours/mo x 19 mos
Engineer II	4	0
Technician I	4	0
Technician II	4	0
Mathematician II	40	0
TOTAL	250	266

Other Direct Costs are reasonable and acceptable

130 Work Implementation Plan

EG&G did not include labor hours in their basis of estimate for this task. However, EG&G estimates the following breakdown of hours. Most of the documentation required for the Work Implementation Plan was previously compiled for this proposal and for the previous Work Implementation Plan. Note that the Work Implementation Plan was submitted to EG&G on September 9, 1994 and hours for this task should be actuals.

	<u>ASI Proposed Hours</u>	<u>EG&G Estimated Hours</u>
Program Manager	30	30
Project Manager	20	20
Senior Engineer	15	15
Senior Geologist	190	64
Geologist I	60	64
Mathematician I	20	20
Clerical	35	35
TOTAL	370	248

Other Direct Costs are reasonable and acceptable

150 Project Meetings

The proposed labor hours for project meetings by ASI and Dames & Moore are reasonable and acceptable. They are within the expected number of meetings.

170 Training

The proposed labor hours by ASI for training meet the requirements of the SOW and are reasonable and acceptable as compared to the EG&G estimate.

190 Additional Copies

The proposed labor hours by ASI and other direct costs for reproduction are reasonable and acceptable as compared to the SOW. However, this estimate does not include distribution of the *Hydraulic Data Summary Report* which will require further distribution to those that will review the RFI/RI Report. This portion of the proposal should be increased accordingly for 15 additional copies.

210 Nature & Extent

The proposed labor hours and other direct costs are in accordance with the SOW and reasonable and acceptable as compared to the EG&G estimate.

220 Completion of Logit Borehole Logs

EG&G did not include labor hours in their basis of estimate for this task. However, 100 hours are reasonable and acceptable to complete the remaining 10% of the Logit Logs.

The other direct costs are in accordance with the SOW and are reasonable and acceptable.

230 Completion of Generalized Geology and Hydrogeology

EG&G had estimated 210 hours to complete this task based on an expected percent complete by the time this contract was let. However, due to unforeseen circumstances, the proposed labor hours of 400 are more representative of the remaining scope of work for this activity. It is recommended that 400 hours be accepted.

The other direct costs are in accordance with the SOW and are reasonable and acceptable.

300 Implementation of TM 15

See Attachment 2.

600 HHRA Data Evaluation/Management

The proposed labor hours for ASI and Dames & Moore are in agreement with the SOW and EG&G's estimate and are reasonable and acceptable.

700 Contaminants of Concern TM

The proposed labor hours for ASI and Dames & Moore are in agreement with the SOW and EG&G's estimate and are reasonable and acceptable.

780 Data Aggregation

The proposed labor hours by ASI and Dames & Moore are in agreement with the SOW and EG&G's estimate and are reasonable and acceptable.

Other direct costs in accordance with the SOW and are reasonable and acceptable.

810 HHRA Exposure Assessment

The proposed labor hours for ASI and Dames & Moore are in agreement with the SOW and EG&G's estimate and are reasonable and acceptable

850 Exposure Assessment TM

The proposed labor hours for ASI are in agreement with the SOW and EG&G's estimate and are reasonable and acceptable

The proposed hours for Dames & Moore of 106 is slightly higher than EG&G's estimate of 64. The scope of work also includes comment resolution and integration into the report which was not considered in EG&G's estimate. It is recommended that these hours be accepted.

910 Surface Water Modeling

The proposed labor hours for ASI are in agreement with the SOW and EG&G's estimate and are reasonable and acceptable

Other Direct Costs are reasonable and acceptable

930 Groundwater Modeling

The proposed labor hours for ASI are in agreement with the SOW and EG&G's estimate and are reasonable and acceptable

Other Direct Costs are reasonable and acceptable

940 Soil Vapor Modeling

The proposed labor hours for ASI are in agreement with the SOW and EG&G's estimate and are reasonable and acceptable

950 Air Water Modeling

The proposed labor hours for ASI are in agreement with the SOW and EG&G's estimate and are reasonable and acceptable

1000 Toxicity Assessment

The proposed labor hours for ASI and Dames & Moore are in agreement with the SOW and EG&G's estimate and are reasonable and acceptable

1050 Toxicity TM

The proposed labor hours for ASI and Dames & Moore are in agreement with the SOW and EG&G's estimate and are reasonable and acceptable

1100 Incorporation/Integration of the Environmental Evaluation

The proposed labor hours for ASI are reasonable and acceptable. EG&G underestimated the extent of this activity at the time the cost estimate was prepared. It is recommended that these hours be accepted.

1200 Risk Characterization

The proposed labor hours by ASI and Dames & Moore are in agreement with the SOW and EG&G s estimate and reasonable and acceptable

1300 HHRA section to the RI Report

The proposed labor hours by ASI and Dames & Moore are in agreement with the SOW and EG&G s estimate and reasonable and acceptable

1400 Interface with the Feasibility Study Subcontractor

The proposed labor hours by ASI are reasonable and acceptable EG&G underestimated the extent of this activity at the time the cost estimate was prepared

Other direct costs are reasonable and acceptable

1510 Draft Phase I RFI/RI Report

The proposed labor hours by ASI are in agreement with the SOW and EG&G s estimate and reasonable and acceptable

Other direct costs are reasonable and acceptable

1520 Final Draft Phase I RFI/RI Report

The proposed labor hours by ASI are in agreement with the SOW and EG&G s estimate and reasonable and acceptable

Other direct costs are reasonable and acceptable

1540 Final Phase I RFI/RI Report

The proposed labor hours by ASI are in agreement with the SOW and EG&G s estimate and reasonable and acceptable

Other direct costs are reasonable and acceptable

**Technical Evaluation for MTS 226606-002 NM3
September 27, 1994
Specific Remarks by WBS Element**

300 Implementation of Technical Memorandum (TM) 15

301 Field Equipment - Direct Labor Hours/Labor Mix

The proposed level of effort is appropriate and acceptable. Acceptance of the direct labor hours and labor mix is based on my estimate of the number of hours and the appropriate labor mix associated with the proposed equipment, procurement and management requirements stated in the proposal relating to the field program.

301 Field Equipment- ODC, Table CV-2, dated 8/10/94

Field Equipment - Acceptance of the listed rates is based on comparing costs for similar items in the Denver area. Listed quantities are acceptable.

310 Intrinsic Air-Permeability Test Evaluation (IHSS 115)- Direct Labor Hours/Labor Mix

The proposed 180 labor hours for the two labor categories for the period starting in September and ending in October, 1994, are appropriate under this task. These labor hours should also cover the labor required to propose additional testing, if needed.

320 Geotechnical Evaluation/Research Slump Occurrence (IHSS 115)-Direct Labor Hours/Labor Mix

The proposed level of effort is reasonable and acceptable. However, some cost modifications may be required -see comments under 320 Groundwater Investigation (IHSS 115) ODC's

320 Geotechnical Evaluation/Research Slump Occurrence (IHSS 115) - ODC

The ODC line items for Boyles Brothers and Universal Environmental Engineering (Universal) are reasonable and appropriate based on previous contract costs incurred and on direct comparison with price lists provided by competing vendors in the Denver area. However, the following discrepancies may require cost modifications to the proposal:

- EG&G would like to add geophysical logging of the three deep bedrock wells to 125 feet. The estimated additional cost growth for this task would be approximately \$7,000.00.
- ASI must confirm that Boyles will be using two drilling technologies to complete the deep bedrock wells. The deep bedrock wells will require 6-inch surface casing to about 40 feet to be drilled with a hollow-stem auger rig, and the drilling will then have to be completed with an air rotary drill rig to 125 feet. The estimated costs are acceptable if this is clarified as stated.
- ASI will provide the detailed cost breakdown for the development and the quarterly sampling for one year for the three deep bedrock wells.

Please clarify the purpose and type of computer software required for this task.

- 330 Groundwater Investigation (IHSS 115 and 133) - Direct Labor Hours/Labor Mix
The proposed level of effort is reasonable and acceptable
- 330 Groundwater Investigation (IHSS 115 and 133) ODC
The ODC line items for Merrick Boyles Brothers, and Universal Environmental Engineering (Universal) are reasonable and appropriate based on previous contract costs incurred and on direct comparison with price lists provided by competing vendors in the Denver area
- 340 Air Monitoring (IHSS 115 and 133) - Direct Labor Hours/Labor Mix
The proposed level of effort is reasonable and acceptable for the first phase investigation
Acceptance of the direct labor hours and labor mix is based on my estimate of the number of hours and the appropriate labor mix associated with the air monitoring investigation
- 340 Air Monitoring (IHSS 115 and 133) ODC
The ODC line items for computer diskettes and reproduction are reasonable and appropriate based on previous contract costs incurred and on direct comparison with price lists provided by competing vendors in the Denver area
- 350 Investigation of TDEM Anomalies (IHSS 133) Direct Labor Hours/Labor Mix
The proposed level of effort is reasonable and acceptable Acceptance of the direct labor hours and labor mix is based on my estimate of the number of hours and the appropriate labor mix associated with the TDEM anomaly investigation
- 350 Investigation of TDEM Anomalies (IHSS 133) - ODC
The ODC line items for Universal Environmental Engineering (Universal) are reasonable and appropriate based on previous contract costs incurred and on direct comparison with price lists provided by competing vendors in the Denver area
- 355 Core Logging, Photography, and Loglit Direct Labor Hours/Labor Mix
The proposed level of effort is reasonable and acceptable
- 355 Core Logging, Photography, and Loglit - ODC
The ODC line items for core logging are reasonable and appropriate based on previous contract costs incurred and on direct comparison with price lists provided by competing vendors in the Denver area
- 360 Surface Radiological Survey (IHSS 209) - Direct Labor Hours/Labor Mix
The proposed level of effort is appropriate and acceptable
- 370 Health and Safety - Direct Labor Hours/Labor Mix
The proposed level of effort is reasonable and acceptable
- 370 Health and Safety - ODC
The ODC line items for Health and Safety are reasonable and appropriate based on previous contract costs incurred and on direct comparison with price lists provided by competing vendors in the Denver area However the following discrepancy may require a cost modification

- The subcontractor responsibilities are not clearly stated in the technical proposal, please provide documentation of subcontractors technical approach Please provide the backup for the proposed subcontractor cost estimates

380 Field Management Review Meetings and Deficiency Resolution - Direct Labor Hours/Labor Mix
The proposed level of effort is reasonable and acceptable

380 Field Management Review Meetings and Deficiency Resolution - ODC
The ODC line items for the field management review meetings and deficiency resolution task is reasonable and appropriate based on previous contract costs incurred and on direct comparison with price lists provided by competing vendors in the Denver area

390 QA/QC Activities and Documentation - Direct Labor Hours/Labor Mix
The proposed level of effort is reasonable and acceptable

390 QA/QC Activities and Documentation - ODC
The ODC line items for QA/QC activities and documentation are reasonable