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Hydrogeology • Mineral Resources Waste Management • Geological Engineering • Mine Hydrology

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November 7, 1985
Contract No. NRC-02-85-008
Fin No. D-1020
Communication No. 7

Mr. Jeff P. Pohle
Division of Waste Management
Mail Stop 623-SS
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

RE: Monthly Report--October 1985

Dear Jeff:

This document constitutes the first monthly (October 1-31, 1985) progress report as required by Contract No. NRC-02-85-008. This document contains our cost projection (Appendix A); the cost projection is supplied in tabulated and graphical form. A detailed schedule of work is included as Appendix B. After the contract was awarded Williams and Associates, Inc. spent a significant amount of time studying the SOW and discussing internally the management of this contract. This effort is required due to the complexities of dealing with the three repository media incorporated into one contract. Our efforts in this regard will not be as great in the future.

WM-RES
WM Record File
D1020
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WM Project 10, 11, 16
Docket No. _____

PDR ✓
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TASK 1

The following work was conducted under Task 1.

Subtask 1.1

Williams and Associates, Inc. attended the kickoff meeting for Contract No. NRC-02-85-008, from October 22-24, 1985, in Silver Spring, Maryland. The purpose of that meeting was to familiarize the contractors with the contract organization and administration.

We currently are updating our reference list for NNWSI. In addition, we are evaluating the issues identified in Exhibit 1. Recommendations for the addition, deletion, and/or modification of these issues are being developed.

Subtask 1.2

Written summaries were prepared for the following two documents added to our NTS data base in September 1985.

Erickson, J.R., and Waddell, R.K., 1985, Identification and Characterization of Hydrologic Properties of Fractured Tuff Using Hydraulic and Tracer Tests--Test Well USW H-4, Yucca Mountain, Nye County, Nevada: U.S.G.S. Water Resources Investigations Report 85-4066, Denver, 30 p.

Waddell, R.K., 1985, Hydrologic and Drill Hole Data for Test Wells UE-29a#1 and UE-29a#2, Forty Mile Canyon, Nevada Test Site: U.S.G.S. Open-file Report 84-142, Denver, 25 p.

In addition, documents added to our NTS data base during the month of October, 1985, are being reviewed.

Subtask 1.3

Williams and Associates, Inc. has initiated a preliminary phase of conceptual model evaluation.

TASK 2

The following work was conducted under Task 2.

Subtask 2.1

Williams and Associates, Inc. attended the kickoff meeting in Silver Spring held October 22-24, 1985. The purpose of the meeting was to familiarize the contractors with the contract organization and administration. BWIP related topics were discussed as noted in the trip report (see Task 5). The NRC document list of BWIP documents was compared to our BWIP document list; we requested copies of publications that are not in our files.

Williams and Associates, Inc. initiated a review of past interactions between the NRC and DOE. These interactions have been and are being reviewed with respect to their relevance to the issues. We have initiated our review of the final comments on the issues. The BWIP document list is being revised and updated for inclusion in the future letter report.

Subtask 2.2

Williams and Associates, Inc. reviewed "Strategy and Preliminary Plans for Large-Scale Hydraulic Stress Testing of Selected Hydrogeologic Units at the RRL-2 Location." Our review is in draft format at this time. This revisit of the aforementioned document was conducted in anticipation of the NRC/DOE workshop scheduled for December 9, 1985.

Subtask 2.3

Williams and Associates, Inc. has initiated a preliminary phase of conceptual model evaluation. We are considering the existing concepts regarding groundwater flow at the BWIP site; these concepts are being evaluated based upon the water level data collected in the multi-piezometer clusters (DC-19, DC-20, and DC-22).

TASK 3

The following work was conducted under Task 3.

Subtask 3.1

Most effort expended during the month of October was directed toward this subtask. The work included review of existing document files to determine significant site familiarization reports. These reports have been selected and distribution of reports to team members has begun. Many of these documents contain data on geology and hydrology, which are essential to developing a technical understanding of the SALT sites. To date, this site familiarization process has been restricted to sites within the Palo Duro Basin only.

Key personnel of Williams and Associates, Inc. attended the kickoff meeting held October 22-24, 1985, at the NRC office in Silver Spring, Maryland. The meeting acquainted team members with the contract organization and administration. Our document list was compared with the NRC document inventories; requests were presented to NRC staff to obtain documents currently not in the possession of Williams and Associates, Inc. Initial examination of SRPD documents is being conducted for both site familiarization process and to provide input to the issue review process.

Subtask 3.2

During the month of October, no formal review of technical reports, activities or documents was completed. However, as part of the site familiarization process, documents are being selected and evaluated for review under this subtask.

Subtask 3.3

Consideration of conceptual models and model alternatives has begun as part of the site familiarization process. Documents specifically relating to the definition of hydrogeologic framework are being collected as potential source material for review of conceptual models. Refamiliarization with possible conceptual models, as outlined in contract exhibits, also is underway.

TASK 4

(not initiated)

TASK 5

Williams and Associates, Inc. submitted Communication No. 2 to the NRC requesting further consideration of a proposal initially submitted under the previous contract. This request presents additional information pertaining to the determination of effective porosity from field data. Effective porosity is a parameter required for calculating ground water velocities and travel times.

Williams and Associates, Inc. attended the contract kickoff meeting in Silver Spring. This meeting is noted under Tasks 1, 2, and 3. The trip report was forwarded to the NRC as Communication No. 3.

Williams and Associates, Inc. received lists of documents that have been obtained by the NRC. These lists segregate the pertinent documents relevant to the three geologic media, tuff, basalt, and salt. Most of the key documents are in our possession. Reports missing from our collections have been requested from the NRC.

Contractual Problems

No contractual problems have arisen.

Current Expenditures

A breakdown of individual hours and charges is shown on the attached table. Cumulative costs and projected costs are shown on the second table.

Sincerely,

A handwritten signature in cursive script, appearing to read "Roy", with a long horizontal stroke extending to the right.

Roy E. Williams

Appendix A

DETAILED SCHEDULE OF WORK
CONTRACT INITIATED OCTOBER 1, 1985

	Time after contract award	Due date
Task 1 (NNWSI)		
Subtask 1.1	2 months	Dec. 1, 1985
Subtask 1.2	ongoing	ongoing
Subtask 1.3	5 months	March 1, 1985
Subtask 1.4	optional	optional
Subtask 1.5	optional	optional
Task 2 (BWIP)		
Subtask 2.1	3 months	Jan. 1, 1986
Subtask 2.2	ongoing	ongoing
Subtask 2.3	6 months	April 1, 1986
Subtask 2.4	optional	optional
Subtask 2.5	optional	optional
Task 3 (SRPO)		
Subtask 3.1	4 months	Feb. 1, 1986
Subtask 3.2	ongoing	ongoing
Subtask 3.3	7 months	May 1, 1986
Subtask 3.4	optional	optional
Subtask 3.5	optional	optional
Task 4 (CRP)	optional	optional
Task 5	ongoing	ongoing

INDIVIDUAL HOURS AND CHARGES

	This Month (hours)	Cumulative (hours)	Cumulative (amount)
Roy Williams	48	48	\$ 2,400
Gerry Winter	173.3	173.3	3,293
Jeff Brown	42	42	1,470
Jim Osiensky	116	116	2,204
Dale Ralston	4	4	176
Kirk Steinhorst	-	-	-
Terry Eckwright	-	-	-
Jack Sharp	-	-	-
Charles Smith	-	-	-
Noel Kroethe	-	-	-
George Bloomsburg	-	-	-
Terry Howard	-	-	-
Stanley Miller	-	-	-

CURRENT AND CUMULATIVE PROJECT COSTS

Task	Current Month	Cumulative to Date		Total to Date
		FY 85	FY 86	
1	\$ 5,897	\$ 5,897	\$-----	\$ 5,897
2	6,600	6,600	-----	6,600
3	6,214	6,214	-----	6,214
4	-----	-----	-----	-----
5	3,260	3,260	-----	3,260

Percentage billed to total funds allocated = 3%

Appendix B

COST PROJECTION

Contract Initiated October 1, 1985

	<u>Month</u>	<u>Cumulative Cost</u>
1985	October	\$ 33,643
	November	67,287
	December	100,930
1986	January	134,574
	February	168,217
	March	201,861
	April	235,504
	May	269,147
	June	302,791
	July	336,434
	August	370,078
	September	403,721

Williams and Associates, Inc.
Viola, Idaho 83872
Contract No. NRC-02-85-008

Cost (Dollars x 100

800
700
600
500
400
300
200
100
0

Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
1985 1986

Projected Costs
Actual Costs

