

WILLIAMS & ASSOCIATES, INC.

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

August 5, 1988

Contract No. NRC-02-85-008

Fin No. D-1020

Communication No. 192

Mr. Jeff Pohle
Division of Waste Management
Mail Stop 4-H-3
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

RE: Monthly Report-July 1988

Dear Jeff:

This document constitutes the thirty-fourth monthly (July 1-31, 1988) progress report as required by Contract No. NRC-02-85-008. We are continuing our efforts on the required list of subtasks outlined in the SOW for Task 1 and for Task 5. Details about our efforts on this contract are outlined based on Task and Subtask numbers.

TASK 1

The following work was conducted under Task 1 (NNWSI).

Subtask 1.1

This subtask has been completed.

Subtask 1.2

Williams and Associates, Inc. continues to review documents related in one way or another to conceptual models of the site. These documents are being reviewed for our information only. Written reviews are not being prepared. We are reviewing for our information only correspondence and documents related to current activities at NNWSI.

Subtask 1.3

Williams and Associates, Inc. is continuing to review the literature pertaining to conceptual models for NNWSI. As you know our contract requires that we provide you with a conceptual model update every six months

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Mr. Jeff Pohle
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throughout the period of performance of the contract (p. 6). We are continuing to construct an outline of the basic components/elements that are needed to describe a groundwater flow system as required for our six month conceptual model update. Our outline contains components/elements for the saturated and unsaturated zones. We are investigating also the relationships between the spatial distribution of heterogeneities of hydrogeologic properties and the depositional history of the tuffs at Yucca Mountain. We are investigating the role that earthquakes have played in the alteration of groundwater flow systems as related to conceptual models of the site.

Subtask 1.4

Williams and Associates, Inc. completed the review of the Consultation Draft SCP for NNWSI. This subtask was completed with submission of our second and final set of draft comments (Communication No. 170) to the NRC.

TASK 2

All work under Task 2 has been terminated.

TASK 3

All work under Task 3 has been terminated.

TASK 5

No specific work was conducted under this task this month.

Contractual Problems

No contractual problems have arisen.

Current Expenditures

A breakdown of hours and charges is shown on the attached table. Cumulative costs and projected costs are shown on the second table. The attached figure illustrates projected and current cumulative costs. We are under our projected budget.

Sincerely,

Roy E. Williams
Roy E. Williams

REW:s1

INDIVIDUAL HOURS AND CHARGES

	This Month (hours)	Cumulative (hours)	Cumulative (amount)
Gerry Winter	173.3	5,192.2	118,315.88
Jeff Brown	0	358	12,530.
Jim Osiensky	15	3,572.2	69,251.01
Dale Ralston	0	347	15,698.76
Roy Williams	128	3,064	161,762.48
Kirk Steinhorst	1	150.75	5,748.71
Terry Eckwright	0	165	2,523.00
John Sharp	0	127.5	5,209.
Charles Smith	-	-	-
George Bloomsburg	5	725	30,198.20
Terry Howard	-	-	-
Stanley Miller	0	354	12,740.88
Noel Krothe	0	7.6	380.
Richard Parizek	0	67.75	3,387.5
Barbara Williams	29	723	14,838.60
John Riley	4	461	8,412.
Tom Lachmar	0	150	2,550.
Ken Sprenke	0	62	2,170.

CURRENT AND CUMULATIVE PROJECT COSTS

Task 1 Subtasks	Current Month	Cumulative to Date FY 88	Total to Date
1.2	8,018	25,478	25,478
1.3	8,022	37,550	37,550
1.4	0	21,922	21,922
Task 5	6,280	51,357	51,357
TOTAL	22,320		

Percent billed to total funds allocated, 88%

Williams and Associates, Inc.
Viola, Idaho 83872
Contract No. NRC-02-85-008
Year 3

— Projected Costs
- - - Actual Costs

Cost in Dollars x 1000

1300
1200
1100
1000
900
800

Feb Mar Apr May Jun Jul 1988 Aug Sep Oct Nov Dec Jan 1989

