

**Reynolds Electrical & Engineering Co., Inc.**

Post Office Box 98521 • Las Vegas, NV 89193-8521

IN REPLY REFER TO:

580-01-512

WBS 1.2.9.1

QA: N/A

MAY 19 1994

Robert M. Nelson, Jr.  
Acting Project Manager  
Yucca Mountain Site Characterization  
Office  
U.S. Department of Energy  
Post Office Box 98608  
Las Vegas, NV 89193-8608

YUCCA MOUNTAIN SITE CHARACTERIZATION VARIANCE ANALYSIS REPORT (SCP: N/A)

Enclosed are the subject reports for Work Breakdown Structure 1.2.3 for the month of April 1994.

If you have any questions, please contact Dean L. Knight at 794-7400.

*Bruce Gendall* For DLK

Daniel L. Koss, Manager  
Yucca Mountain Project Division  
YMP Technical Project Officer

DLK:DK:L94168:mff

Enclosure  
Variance Analysis Reports (5 pages)

cy: See page 2

060014

TOTAL QUALITY IS OUR BUSINESS

9406060336 940519  
PDR WASTE  
WM-11 PDR

REECO  
AN EGG COMPANY

102.8  
WM-11  
MAD3

**Yucca Mountain Site Characterisation Project  
Variance Analysis Report  
Status Thru: 30 April 1994**

**PARTICIPANT: RRECO PHN: Long**

**WBS: 1.2.2.5.1**

**WBS TITLE: Sample Management Facility**

**P&S ACCOUNT: CR351**

FY 1994 Cumulative to Date									FY 1994 at Completion					
ECM	ECF	ADP	SV	SVX	EPI	EV	CVX	CPI	BAC	EAC	VAC	VACX	TEAC	TCPI
0	0	0	0	0.0	0.0	0	0.0	0.0	561	536	-175	-48.5	493	60.6

**Analysis**

**Cumulative Cost Variance:**

**Cumulative Schedule Variance:**

**Variance At Complete:** Fiscal Year 1994 budget for support of the Sample Management Facility was baselined below the projected cost to provide this service through the Fiscal Year. To continue support of this facility through the end of the Fiscal Year is estimated to require and additional \$175K.

David M. DeLu 5/13/94  
P&S ACCOUNT MANAGER DATE

Robert H. Moore 5/18/94  
TPO DATE

**Yucca Mountain Site Characterization Project  
Variance Analysis Report  
Status Thru: 30 April 1994**

**PARTICIPANT: RHECO    PEM: LONG    WBS: 1.2.3.5.2.11**

**WBS TITLE: Multiple Well Interference Tests at C-Hole Complex**

**P&S ACCOUNT: 02352B**

FY 1994 Cumulative to Date									FY 1994 at Completion					
BCWS	BCWP	ACWP	BV	SVX	SPI	CV	CVX	CPI	BAC	EAC	VAC	VACX	LEAC	ICPI
643.0	509.0	551.0	-136.0	-21.1	0.0	0.0	00.0	00.0	679	777	-98	-14.4	735	73.2

**Analysis**

**Cumulative Cost Variance:**

**Cumulative Schedule Variance:** Construction of the Discharge Pipeline started later than planned due to impacts from design resolution issued to meet testing requirements. Completion of the discharge Pipeline will not be completed according to schedule due to the spreading basin design modifications which is not released for construction. Procurement of the Variable Speed Controller and Pump Cable have not been initiated due to lack of issued criteria from the A-E.

**Variance At Complete:** Procurement of the Variable Speed Controller did not cost in March. Design specifications and criteria to initiate procurement is not released by the A-E for this activity. This is causing expected increase in cost.

M. Honard    5/13/94  
P&S ACCOUNT MANAGER    DATE

Robert H. Moore    5/18/94  
EPO    DATE

**Yucca Mountain Site Characterization Project  
Variance Analysis Report  
Status Thru: 30 Apr 1994**

**PARTICIPANT: REECO    PEM: LONG    WBS: 1.2.3.5.3.17**

**WBS TITLE: Geostatistical Drillholes**

**P&S ACCOUNT: OR353H**

FY 1994 Cumulative to Date									FY 1994 at Completion					
BCWS	BCWP	ACWP	EV	EVX	EPI	CV	CVX	EPI	BAC	EAC	VAC	VACX	TEAC	TCPI
606	887	676	0	00.0	0.0	211	23.8	131.2	0	0	0	0	0	0

**Analysis**

**Cumulative Cost Variance:** This variance is due to a reduction in scope of work for SD-12 and a late start for SD-9 due to drill rig not being available.

**Cumulative Schedule Variance:**

**Variance At Complete:    Estimate at completion:**

*Dave Jendry*    5/13/94  
P&S ACCOUNT MANAGER    DATE

*Harriet Kellum*    5/18/94  
TPO    DATE

**Yucca Mountain Site Characterisation Project  
Variance Analysis Report  
Status Thru: 30 Apr 1994**

**PARTICIPANT: REBCo    PEM: LONG    WBS: 1.2.3.5.3.20**

**WBS TITLE: Surface Facilities Drillholes**

**P&S ACCOUNT: OR353K**

FY 1994 Cumulative to Date								FY 1994 at Completion						
ECN	BCP	ACB	BY	BYX	BPI	CV	CVX	CPI	BAC	BAC	VAC	VAEX	IFAC	ICPI
0	0	0	0	0.0	0.0	174	23.6	131.3						

**Analysis**

**Cumulative Cost Variance:** Drilling progress on NRG-7 Borehole is ahead of schedule and below budget and is expected to underrun the cost estimate in the range of \$100K at completion. Pad construction and drilling UE-25 NRG-2C and NRG-2D were accomplished under budget by approximately \$30K.

**Cumulative Schedule Variance:**

**Variance At Complete:**

*David D. Anderson*  
P&S ACCOUNT MANAGER

5/13/94  
DATE

*David H. Moore* 5/18/94  
TPO DATE

**Yucca Mountain Site Characterization Project  
Variance Analysis Report  
Status Thru: 30 April 1994**

**PARTICIPANT: BEECO PER: Long**

**WBS: 1.2.3.5.2.22**

**WBS TITLE: In Situ Strs. Drillhole & Tests, and Qua. Flt. Trenches**

**P&S ACCOUNT: CR353H**

FY 1994 Cumulative to Date										FY 1994 at Completion					
BCE	BCEP	ACE	EY	EY%	EPI	EY	EY%	EPI		BAC	EAC	VAC	VAC%	FEAC	TCPI
0	0	0	0	0.0	0.0	0	0.0	0.0		100	50	50	50.0	50	0.0

**Analysis**

**Cumulative Cost Variance:**

**Cumulative Schedule Variance:**

**Variance At Completion:** The \$50K identified as the Estimate at Completion (EAC) includes Ghost Dance Fault Roadcuts (JP93-12), Alice Ridge Trenching (JP94-01), and Bare Mountain Trenching/Test Pits (JP92-12) per Test Plan T-92-17. The underrun from the baselined budget is available to fund test support activities that are not defined at this time and are not included in the EAC.

Tom Howard 5/12/94  
PER ACCOUNT MANAGER DATE

Robert H. Brown 5/18/94  
TPO DATE