



**Department of Energy**  
Office of Civilian Radioactive Waste Management  
Yucca Mountain Site Characterization Office  
P.O. Box 98608  
Las Vegas, NV 89193-8608

JUN 06 1995

Laurence S. Costin  
Acting Technical Project Officer  
for Yucca Mountain  
Site Characterization Project  
Sandia National Laboratories  
P.O. Box 5800, Mail Stop 1325  
Albuquerque, NM 87185

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION REQUEST (CAR) YM-95-018 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) AUDIT YM-ARP-95-03 OF SANDIA NATIONAL LABORATORIES (SCPB: N/A)

The YMQAD staff has verified the corrective action to CAR YM-95-018 and determined the results to be satisfactory. As a result, the CAR is considered closed.

If you have any questions, please contact either Robert B. Constable at (702) 794-7945 or John R. Matras at (702) 794-7197.

*Robert B. Constable*

YMQAD:RBC-3484

Richard E. Spence, Director  
Yucca Mountain Quality Assurance Division

Enclosure:  
CAR YM-95-018

cc w/encl:

~~U. G. Spraul, NRC, Washington, DC~~  
S. W. Zimmerman, NWPO, Carson City, NV  
R. R. Richards, SNL, Albuquerque, NM, M/S 1333  
M. C. Brady, SNL, Las Vegas, NV

cc w/o encl:

W. L. Belke, NRC, Las Vegas, NV  
D. G. Sult, YMQAD/QATSS, Las Vegas, NV

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PDR WASTE  
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**OFFICE OF CIVILIAN  
RADIOACTIVE WASTE MANAGEMENT  
U.S. DEPARTMENT OF ENERGY  
WASHINGTON, D.C.**

8 CAR NO.: YM-95-018  
PAGE: 1 OF 1  
QA

**CORRECTIVE ACTION REQUEST**

|   |                                      |
|---|--------------------------------------|
| 1 Controlling Document<br>YAP-SIII.3Q, Revision 0 | 2 Related Report No.<br>YM-ARP-95-03 |
|---|--------------------------------------|

|                                   |   |
|-----------------------------------|---|
| 3 Responsible Organization<br>SNL | 4 Discussed With<br>John Friend/Dave Kessel |
|-----------------------------------|---|

5 Requirement:  
Section 5.1.1 b) " submits the DPS and a TDIF or the information required to create a TDIF, to the appropriate PDA in accordance with a YMPO approved schedule;"

6 Adverse Condition:  
Contrary to the above requirement, acquired data sets in Appendix C for "Soils Laboratory and In Situ Test Data" (See letter NTS: Q&I:MLL:009-94 Patel to Kessel), were included in SLTR94-001 without having a YMPO approved schedule for submitting the DPS (Data Package Segment) and a TDIF (Technical Data Information Form) or the information required to create a TDIF.

Example:  
The acquired data sets in Appendix C were transferred to Kessel on October 23, 1993. This data has not been submitted to the PDA (Participant Data Archive) and no schedule existed for submitting the data.

|   |   |  |
|---|---|--|
| 9 Does a Significant Condition Adverse to Quality exist? Yes ___ No <u>X</u><br>If Yes, Check One: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E | 10 Does a stop work condition exist? Yes ___ No <u>X</u> ; If Yes - Attach copy of SWO<br>If Yes, Check One: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C | 13 Response Due Date:<br>20 Working Days From Issuance |
|---|---|--|

11 Required Actions:  Remedial  Extent of Deficiency  Preclude Recurrence  Root Cause Determination

12 Recommended Actions:

|  |   |
|--|---|
| 7 Initiator<br>John Matras <i>John R Matras</i> 12/13/94 | 14 Issuance Approved by:<br>QADD <i>Robert Blountable</i> Date 12-15-94 |
|--|---|

|   |  |
|---|--|
| 15 Response Accepted<br>QAR <i>John R Matras</i> Date 1/24/94 | 16 Response Accepted<br>QADD <i>Robert Blountable</i> Date 1-31-95 |
|---|--|

|  |   |
|--|---|
| 17 Amended Response Accepted<br>QAR _____ Date _____ | 18 Amended Response Accepted<br>QADD _____ Date _____ |
|--|---|

|   |  |
|---|--|
| 19 Corrective Actions Verified<br>QAR <i>Kenneth McCall</i> Date 4/2/95 | 20 Closure Approved by:<br>QADD <i>Robert Blountable</i> Date 6-6-95 |
|---|--|

OFFICE OF CIVILIAN  
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WASHINGTON, D.C.

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| CAR NO. | _____          |
| PAGE    | _____ OF _____ |
|         | QA             |

**CORRECTIVE ACTION REQUEST (CONTINUATION PAGE)**

• **Corrective Action Response for CAR # YM-95-018**

**Remedial Action:** A TDIP will be prepared for the acquired data sets in Appendix C of SI/TR 94-0001 and will be submitted.

**Extent of Deficiency:** A review of all TDIP's submitted for W.B.S. 1.2.3.2.6.2, Soil and Rock Properties will be performed and documented to determine whether additional occurrences of this deficient condition exist. If other occurrences are identified they will be corrected in a similar remedial action.

• **Preclude Recurrence:** The SNL Task Leader for this work will review the Controlling Document, YAP-SIII.3Q, Revision 0 and document this review for training purposes.

**Person responsible:** David Kessel

**To be completed by:** 2/28/95

*Michael C. Brady*  
1-23-95

1/23/95 Shepherd to Spence

# Sandia National Laboratories

P.O. Box 5800  
Albuquerque, New Mexico 87185-1333

Managed by Martin Marietta Corporation  
for the U.S. Department of Energy

David S. Kessel  
YMP Las Vegas Operations Department

June 1, 1995  
W.B.S. 1.2.3.2.6.2  
QA: NA

John Matras  
YMOAD/QATSS  
MS 423

Subject: Corrective Action for CAR YM-95-018

Dear John,

To investigate the extent of deficiency in response to CAR YM-95-018 all of the developed data TDIFs for WBS 1.2.3.2.6.2 were examined to verify that supporting acquired data sets were submitted as appropriate. No similar deficiencies as identified in Section 6, Adverse Condition, of the CAR were found. The attached list of TDIFs (6 pages) were reviewed (developed data TDIFs only).

Sincerely,



David Kessel  
YMP Las Vegas Operations Department

Copy to:  
SNL 6314 M. C. Brady  
SNL 6319 C. Jaramillo  
YMP:1.2.3.2.6.2:AUD:NQ:CAR response  
YMP CRF

| DTH                | TDIF TYPE | TDIF NO. | DESCRIPTION OF DATA  | SAND# | LOCATION        | COMMENTS |
|--------------------|-----------|----------|--|-------|-----------------|----------|
| SNF29041993001.001 | A         | 301831   | PERCOLATION TEST DATA, NORTH PORTAL  |       | 55/F29-04/19/93 |          |
| SNF29041993001.002 | A         | 303900   | YMSCP PERCOLATION TEST DATA FOR THE PROPOSED LEACH FIELD SITE AT THE ESF MUCK STORAGE AREA.  | N/A   | 55/F29-04/19/93 |          |
| SNF29041993002.001 | A         | 301428   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOLOGY AND ROCK STRUCTURE LOG FOR BOREHOLE UE25 NRG-2 (SUPERSEDED BY SNF29041993002.035)   | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.002 | A         | 302196   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOLOGY AND ROCK STRUCTURE LOG FOR DRILLHOLE RF#8   | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.003 | A         | 302197   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOLOGY AND ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-1 (SUPERSEDED BY SNF29041993002.034)  | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.004 | A         | 302198   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOLOGY AND ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-2A (SUPERSEDED BY SNF 29041993002.036)  | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.005 | A         | 302199   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOLOGY AND ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-3 (SUPERSEDED BY SNF29041993002.038)  | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.006 | A         | 302200   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOLOGY AND ROCK STRUCTURE LOG FOR DRILLHOLE USW NRG-6 (SUPERSEDED BY SNF29041993002.041)   | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.007 | A         | 302238   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOLOGY AND ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-5 (SUPERSEDED BY SNF29041993002.040)  | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.008 | A         | 302239   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOLOGY AND ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-4 (SUPERSEDED BY SNF29041993002.039)  | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.009 | D         | 302241   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT CORE HOLE ROCK STRUCTURE DATA SUMMARY FOR HOLE UE25 NRG 1, UE25 NRG-2, UE25 NRG-2A, UE25 NRG-3, UE25 NRG-4, UE25 NRG-5, USW NRG-6 & RF#8 (SUPERSEDED BY SNF29041993002.048, EXCEPT FOR HOLE RF#8) | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.010 | A         | 302270   | SCHMIDT HAMMER TEST DATA FROM NRG DRILLHOLES CORE  | N/A   | 55/F29-04/19/93 | GENISES  |

| DTN                | IDIF TYPE | IDIF NO. | DESCRIPTION OF DATA   | SAND# | LOCATIO N       | COMMENTS |
|--------------------|-----------|----------|---|-------|-----------------|----------|
| SNF29041993002.011 | D         | 302271   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT ESTIMATED ROCK MASS QUALITY INDICES BASED ON CORE LOG DATA HOLES UE25 NRG-1, -2, -2A, -3, -4, -5 AND USW NRG-6 (SUPERSEDED BY SNF29041993002.0300)(SUPERSEDED BY SNF29041993002.047) | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.012 | D         | 302272   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT ROCK MASS MECHANICAL PROPERTIES ESTIMATES BOREHOLES UE25 NRG -1, -2, -2A, -3, -4, -5 AND USW NRG-6 (SUPERSEDED BY SNF29041993002.031)  | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.013 | D         | 302408   | ESF NORTH RAMP YUCCA MOUNTAIN PROJECT SITE CHARACTERIZATION CROSS SECTION THROUGH EXILE HILL NORTH RAMP 0+00 TO 6+00m (SUPERSEDED BY SNF29041993002.021)  | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.014 | D         | 303092   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOLOGY AND ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-2B (SUPERSEDED BY SNF29041993002.037)  | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.015 | A         | 303120   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOLOGY AND ROCK STRUCTURE LOG FOR DRILLHOLE USE NRG-7/7A (SUPERSEDED BY SNF29041993002.042)   | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.016 | D         | 303136   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT CORE HOLE ROCK STRUCTURAL DATA SUMMARY FOR HOLE USW NRG-7/7A (SUPERSEDED BY SNF29041993002.048)  | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.017 | D         | 303139   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT ESTIMATED ROCK MASS QUALITY INDICES BASED ON CORE LOG DATA FOR HOLE USW NRG-7/7A (SUPERSEDED BY SNF29041993002.047)  | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.018 | D         | 303146   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT CORE HOLE ROCK STRUCTURAL DATA SUMMARY FOR HOLE UE25 NRG-2B (SUPERSEDED BY SNF29041993002.048)   | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.019 | D         | 303148   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT ESTIMATED ROCK MASS QUALITY INDICES BASED ON CORE LOG DATA FOR HOLE UE25 NRG-2B (SUPERSEDED BY SNF29041993002.047)   | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.020 | D         | 303150   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT ROCK MASS QUALITY ESTIMATES FOR TCw, PTn, Tsw1, & Tsw2 UNITS   | N/A   | 55/F29-04/19/93 | GENISES  |

| DTN                | TDIF TYPE | TDIF NO. | DESCRIPTION OF DATA  | SAND#       | LOCATION        | COMMENTS |
|--------------------|-----------|----------|--|-------------|-----------------|----------|
| SNF29041993002.021 | D         | 303177   | ESF NORTH RAMP YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT CROSS SECTION THROUGH EXILE HILL NORTH RAMP 0 + 00 TO 6 + 00M. DRAWING NO.: 88-60-08, VERSION: QA1.2 (SUPERSEDES DTN SNF29041993002.013)               | N/A         | 55/F29-04/19/93 |          |
| SNF29041993002.022 | A         | 303180   | BEDROCK GEOLOGY OF EXILE HILL  | N/A         | 55/F29-04/19/93 |          |
| SNF29041993002.023 | D         | 303178   | ESF NORTH RAMP YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT CROSS SECTION THROUGH BOW RIDGE FAULT NORTH RAMP 1 + 75 TO 3 + 25 M. DRAWING NO.: EX-DTAIL, VERSION: QA1   | N/A         | 55/F29-04/19/93 |          |
| SNF29041993002.024 | A         | 303181   | SCHMIDT HAMMER TEST DATA FORM USW NRG-7/7A DRILLHOLE   | N/A         | 55/F29-04/19/93 |          |
| SNF29041993002.025 | D         | 303195   | ESF NORTH RAMP YUCCA MOUNTAIN SITE CHARACTERIZATION. PR. CROSS SECTION ALONG RAMP FORM 0 + 00 TO 28 + 00.38 m (PT). DRAWING NO.: 88-60-09, VERSION: QA1.5 (SUPERSEDED BY DTN SNF29041993002.043)                   | N/A         | 55/F29-04/19/93 |          |
| SNF29041993002.026 | D         | 303453   | SLTR94-0001: "YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT GEOENGINEERING CHARACTERIZATION OF NONLITHORED TUFFS TO BE ENCOUNTERED BY THE NORTH RAMP WEST OF THE BOW RIDGE FAULT" REV. 7.                           | SLTR94-0001 | 55/F29-04/19/93 |          |
| SNF29041993002.027 | A         | 303565   | GEOTECHNICAL ENGINEERING INVESTIGATION FOR THE PROPOSED BOOSTER PUMP STATION   | N/A         | 55/F29-04/19/93 |          |
| SNF29041993002.028 | A         | 303767   | GEOTECHNICAL ENGINEERING INVESTIGATION FOR THE PROPOSED WATER STORAGE TANK AT THE BOOSTER PUMP STATION AND NORTH PORTAL ON EXILE HILL.   | N/A         | 55/F29-04/19/93 |          |
| SNF29041993002.029 | A         | 303841   | YMSCP SOIL TEST DATA FOR PRE-RANIER MESA AND RANIER MESA TUFFS.  | N/A         | 55/F29-04/19/93 |          |
| SNF29041993002.030 | D         | 303848   | YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT RANK ORDERED ROCK MASS QUALITY INDICES BASED ON CORE LOG DATA HOLES UE25, NRG-1,-2,-2A,-2B,-3,-4,-5; USW NRG-6,-7/7A(REVISION 0). (SUPERSEDES DTN SNF29041993002.011) | N/A         | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.031 | D         | 303849   | YMSCP ROCK MASS MECHANICAL PROPERTIES ESTIMATES FOR BORE HOLESUE25,-1,-2,-3,-4,-5; USW NRG-6 & 7/7A(REVISION 2). (SUPERSEDED BY SNF29041993002.049 FOR P <sub>Tn</sub> VALUES ONLY)                                | N/A         | 55/F29-04/19/93 | GENISES  |

| DTN                | TDIF TYPE | TDIF NO. | DESCRIPTION OF DATA   | SAND # | LOCATION        | COMMENTS |
|--------------------|-----------|----------|---|--------|-----------------|----------|
| SNF29041993002.032 | D         | 303852   | YMSCP ROCK-ORDERED ROCK MASS QUALITY INDICES FOR TCw, PTn, TSw1, TSw2, & UO (TUFF'X' UNITS). (SUPERSEDED BY SNF29041993002.050 FOR PTn VALUES ONLY)                 | N/A    | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.033 | D         | 303994   | TS MAIN DRIFT YMSCP X-SECTION ALONG DRIFT FROM 28+04.76m(PT) TO 59+36.89(PC) DRAWING NO: 88-333-01, VERSION: QA1, 12/14/94.   | N/A    | 55/F33-04/19/93 |          |
| SNF29041993002.034 | A         | 304083   | YMSCP GEOLOGY & ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-1, REV.1 (SUPERSEDES DTN SNF29041993002.003)  | N/A    | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.035 | A         | 304084   | YMSCP GEOLOGY & ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-2, REV.1 (SUPERSEDES DTN: SNF29041993002.001)   | N/A    | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.036 | A         | 304085   | YMSCP GEOLOGY & ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-2A, REV.1 (SUPERSEDES DTN: SNF29041993002.004)  | N/A    | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.037 | D         | 304086   | YMSCP GEOLOGY & ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-2B, REV.1 (SUPERSEDES DTN: SNF29041993002.014)  | N/A    | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.038 | A         | 304087   | YMSCP GEOLOGY & ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-3, REV.1 (SUPERSEDES DTN: SNF29041993002.005)   | N/A    | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.039 | A         | 304088   | YMSCP GEOLOGY & ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-4, REV.1 (SUPERSEDES DTN: SNF29041993002.008)   | N/A    | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.040 | A         | 304090   | YMSCP GEOLOGY & ROCK STRUCTURE LOG FOR DRILLHOLE UE25 NRG-5, REV.1 (SUPERSEDES DTN: SNF29041993002.007)   | N/A    | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.041 | A         | 304091   | YMSCP GEOLOGY & ROCK STRUCTURE LOG FOR DRILLHOLE USW NRG-6, REV.1 (SUPERSEDES DTN: SNF29041993002.006)  | N/A    | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.042 | A         | 304092   | YMSCP GEOLOGY & ROCK STRUCTURE LOG FOR DRILLHOLE USW NRG-7/7A, REV.1 (SUPERSEDES DTN: SNF29041993002.015)   | N/A    | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.043 | D         | 304094   | ESF NORTH RAMP YMSCP CROSS SECTION ALONG RAMP FROM 0+00 TO 28+00.38m(PT). DRAWING NO.88-80-09, VERSION: QA-1.7, DATED 12/30/94 (SUPERSEDES DTN: SNF29041993002.025) | N/A    | 55/F29-04/19/93 | GENISES  |



| DTN                | TDIF TYPE | TDIF NO. | DESCRIPTION OF DATA  | SAND# | LOCATION        | COMMENTS |
|--------------------|-----------|----------|--|-------|-----------------|----------|
| SNF29041993002.044 | D         | 304093   | ESF NORTH RAMP YMSCP CROSS SECTION THROUGH EXILE HILL NORTH RAMP 0+00 TO 6+00m. DRAWING NO. 88-60-08, VERSION: QA 1.5, DATED 12/30/94 (SUPERSEDES DTN: SNF29041993002.021)   | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.045 | A         | 304132   | SEISMIC RESEARCH FOR EXILE HILL, YUCCA MOUNTAIN, NYE COUNTY, NEVADA  | N/A   | 55/F29-04/19/93 |          |
| SNF29041993002.046 | D         | 304139   | ESF NORTH RAMP YMSCP CROSS SECTION THROUGH EXILE HILL ALTERNATIVE INTERPRETATION OF EXILE HILL. GEOLOGY, DRAWING NO: SLTRESX, VERSION: 0, 12/10/93   | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.047 | D         | 304138   | YMSCP ESTIMATED ROCK MASS QUALITY INDICES BASED ON REV.2 FOR CORELOG DATA HOLES UE25 NRG-1, -2a, -3 & -5; & REV.3 FOR UE25 NRG-2, -2B, -4, & USW NRG-6 & 7/7A. (SUPERSEDES BY DTN'S: SNF29041993002.011, SNF29041993002.017, & SNF29041993002.019) |       |                 |          |
| SNF29041993002.048 | D         | 304140   | YMSCP CORE HOLE ROCK STRUCTURAL DATA SUMMARIES FOR BOREHOLES: UE25 NRG-1, -2, -2A, -2B, -3, -4 & -5; USW NRG-6 & -7/7A REVISION 1. (SUPERSEDES DTN'S: SNF29041993002.009, SNF29041993002.016, & SNF29041993002.018)                                | N/A   | 55/F29-4/19/93  | GENISES  |
| SNF29041993002.049 | D         | 304141   | YMSCP ROCK MASS MECHANICAL PROPERTIES ESTIMATES FOR BOREHOLES UE25 NRG-1, -2, -2A, -3, -4, & -5; USW NRG-6 & 7/7A (REV.3). (SUPERSEDES ONLY THE PTn VALUES IN DTN: SNF29041993002.031)   | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.050 | D         | 304142   | YMSCP RANK-ORDERED ROCK MASS QUALITY INDICES FOR PTn UNITS ONLY (REV.1) (SUPERSEDES ONLY THE PTn VALUES IN DTN: SNF29041993002.032)  | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.051 | A         | 304226   | YMSCP GEOLOGY & ROCK STRUCTURE LOG FOR HOLE USW SD-9, 700-850 FT., REV.0   | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.052 | D         | 304227   | YMSCP CORE HOLE ROCK STRUCTURAL DATA SUMMARY FOR HOLE USW SD-9, REV.0  | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.053 | D         | 304229   | YMSCP ESTIMATED ROCK MASS QUALITY INDICES BASED ON CORE LOG DATA FOR HOLE USW SD-9, MIDDLE NONLITHOPHYSAL ZONE, REV.0  | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.054 | A         | 304230   | YMSCP GEOLOGY & ROCK STRUCTURE LOG FOR USW SD-12, 650-800 FT, REV.0  | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.055 | D         | 304232   | YMSCP CORE HOLE ROCK STRUCTURAL DATA SUMMARY FOR HOLE USW SD-12, REV.0   | N/A   | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.056 | D         | 304235   | YMSCP ESTIMATED ROCK MASS QUALITY INDICES BASED ON CORE LOG DATA FOR HOLE USW SD-12, MIDDLE NONLITHOPHYSAL ZONE, REV.0   | N/A   | 55/F29-04/19/93 | GENISES  |

| DTN                | TDIF TYPE | TDIF NO. | DESCRIPTION OF DATA   | SAND#       | LOCATION        | COMMENTS |
|--------------------|-----------|----------|---|-------------|-----------------|----------|
| SNF29041993002.057 | D         | 304236   | YMSCP ROCK MASS MECHANICAL PROPERTIES ESTIMATES FOR TOPOPAH SPRING, MIDDLE NONLITHOPHYSAL ZONE (BASED ON USW NRG-6, -7/7A, SD-9, & SD-12) REV.0   | N/A         | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.058 | D         | 304237   | YMSCP RANK-ORDERED ROCK MASS QUALITY INDICES Q AND RQD FOR BOREHOLES NRG-6, 7/7A, SD-9, & SD-12, REV.0  | N/A         | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.059 | D         | 304266   | YMSCP COMPARISON OF DOWNHOLE VIDEO DATA WITH CORE DATA FOR HOLE UE25 NRG-4, -5, USW NRG-6, & 7/7A, REV.0  | N/A         | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.060 | A         | 304312   | GEOTECHNICAL ENGINEERING INVESTIGATIONS FOR THE PROPOSED MUCK CONVEYOR FOUNDATIONS AT THE ESF   | N/A         | 55/F29-04/19/93 | GENISES  |
| SNF29041993002.061 | A         | 304343   | PRELIMINARY SOIL SUCTION TEST DATA INCLUDED IN SLTR94-0001: 'YMSCP GEOENGINEERING CHARACTERIZATION OF NONLITHIFIED TUFFS TO BE ENCOUNTERED BY THE NORTH RAMP WEST OF THE BOW RIDGE FAULT' | SLTR94-0001 | 55/F29-04/19/93 |          |

OFFICE OF CIVILIAN  
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U.S. DEPARTMENT OF ENERGY  
WASHINGTON, D.C.

<sup>8</sup> CAR NO. YM-95-018  
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CORRECTIVE ACTION REQUEST (CONTINUATION PAGE)

Verification of CAR No. YM-95-018

Remedial Action:

Verified that Technical Data Information Form (TDIF) 303841, Data Tracking Number SNF29041993002.029, was prepared to identify "Yucca Muntain Site Characterization Project Soil Test Data for Pre-Fanier Mesa and Rainier Mesa Tuffs" data that is located in Appendix C, of Sandia Letter Technical Report SLTR94-0001.

Extent of Deficiency:

A review was performed by Kessel of all TDIFs submitted for W.B.S. 1.2.3.2.6.2., Soil and Rock Properties (see attached letter from Kessel to Matras) and no additional occurrences of this deficient condition were found. This CAR identified an isolated deficiency.

Preclude Recurrence:

Verified the training records of David S. Kessel who was the task leader for SLTR94-0001. The training records indicated that on 5/16/95 Kessel was trained to YAP SIII.3Q Revision 0 by reading the procedure.

All corrective actions for CAR No. YM-95-018 have been satisfactorily completed.

John R Matras 6/1/95  
John R. Matras Date