



Department of Energy  
Yucca Mountain Site Characterization  
Project Office  
P. O. Box 98608  
Las Vegas, NV 89193-8608

*Readiness  
Review*

WBS 1.2.3  
QA

APR 28 1992

Larry R. Hayes, USGS, Las Vegas, NV  
Julie A. Canepa, LANL, Los Alamos, NM  
Michael D. Voegele, SAIC, Las Vegas, NV  
Robert F. Pritchett, REECO, Las Vegas, NV  
Richard L. Bullock, RSN, Las Vegas, NV

COMPLETION OF READINESS REVIEW FOR DRILLHOLE UE-25 VSP-2 (UZ-16)

A Readiness Review for well UZ-16 has been completed in accordance with Quality Assurance Administrative Procedure 2.6. The review report (enclosure) includes a list of team members, the Attribute List used in evaluating readiness showing status of each attribute, an Open Items List, and the Open Items Report form for each open item.

The Open Items List will be maintained by the Readiness Review Chairman, Claudia Newbury, of my staff. She will be responsible for approving closure of all open items. Responsibilities for closing the open items are noted on each Open Item Report form.

Please review the Open Items List and, for each applicable open item, ensure that evidence of closure is provided to Claudia Newbury when the item is closed.

Questions may be directed to Claudia M. Newbury at (702) 794-7942.

*J. Russell Dyer for*

J. Russell Dyer, Director  
Regulatory & Site Evaluation Division

RSED:CMN-3073

Enclosure:  
Readiness Review Report

- cc w/encl:  
M. S. Whitfield, USGS, Denver, CO  
D. M. Boak, SAIC, Las Vegas, NV  
G. P. Fehr, SAIC, Las Vegas, NV  
K. T. McFall, SAIC, Las Vegas, NV  
S. C. Smith, SAIC, Las Vegas, NV  
L. E. Thompson, SAIC, Las Vegas, NV  
J. D. Weaver, SAIC, Las Vegas, NV  
R. D. Oliver, LANL, Las Vegas, NV  
U. S. Clanton, YMP, NV



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Yucca Mountain Site Characterization  
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P. O. Box 98608  
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WBS 1.2.9  
QA: N/A

APR 07 1992

J. Russell Dyer, Director, Regulatory & Site Evaluation Division, YMP, NV

READINESS REVIEW REPORT TRANSMITTAL FOR DRILLHOLE UE-25 VSP-2 (UZ-16)

In accordance with the Readiness Review Plan approved January 14, 1992, and Quality Assurance Administrative Procedure 2.6, Revision 2, this report is provided for your approval.

This report consists of the following sections:

1. List of team members.
2. Recommendations regarding readiness.
3. The Attribute List showing the status (i.e., open or closed) as of the close of the readiness review, February 28, 1992.
4. The Open Items List.
5. The Open Items Report forms for each open item on the Open Items List.



Claudia M. Newbury  
Readiness Review Chairperson

RSED:CMN-2823

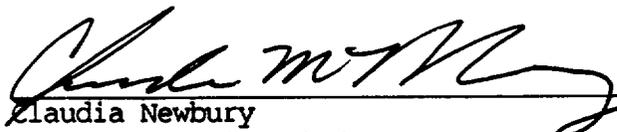
Enclosure:  
Readiness Review Report

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R. D. Oliver, LANL, Las Vegas, NV  
U. S. Clanton, YMP, NV

BACKUP INFORMATION

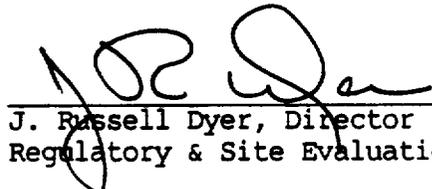
READINESS REVIEW REPORT FOR  
DRILLING OF VERTICAL SEISMIC PROFILING (VSP)  
DRILLHOLE UE-25, VSP-2 (UZ-16)

SUBMITTED:

  
Claudia Newbury  
Readiness Review Chairperson

DATE: 2/28/92

APPROVED:

  
J. Russell Dyer, Director  
Regulatory & Site Evaluation Division

DATE:

4/21/92

ENCLOSURE

READINESS REVIEW REPORT FOR  
DRILLING OF VERTICAL SEISMIC PROFILING (VSP)  
DRILLHOLE UE-25, VSP-2 (UZ-16)

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Section 2 - Recommendations Regarding Readiness

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READINESS REVIEW REPORT FOR  
DRILLING OF VERTICAL SEISMIC PROFILING (VSP)  
DRILLHOLE UE-25, VSP-2 (UZ-16)

Section 1 - Team Members

The Readiness Review Team (RRT) consisted of 4 members directed by a YMPO chairperson and supported by an RRT Secretary:

Readiness Review Chairperson - Claudia Newbury  
YMPO, Technical Analysis Branch

RRT Secretary - Gregory Fehr, Science Applications International Corp. (SAIC)

Members of RRT:

Merrick Whitfield, U.S. Geological Survey  
Ronald Oliver, Los Alamos National Laboratory  
Loren Thompson, SAIC  
Kenneth McFall, Quality Assurance

Section 2 - Recommendations Regarding Readiness

All items on the Attribute List have been closed or have been incorporated on the Open Items Report Form. In addition, an Open Items List has been prepared for ease of tracking closure.

It is recognized that drilling may start before certain scientific procedures are completed. For example, Grading Reports and procedures for geophysical logging can be completed during the initial drilling operations.

It is therefore recommended that the Job Package process continue and that drilling can begin under the control of the Job Package with its inherent hold points ensuring prerequisites are met for each sequence of open actions with the following controls.

1. Open Item 15 (Attribute 15(2)) tracer procedure be complete before drilling starts.
2. Open Item 23 (Attribute 16) system to inject and monitor tracer be available before drilling starts.
3. Open Item 27 (Attribute 21) that a schedule be established by the Job Package Coordinator showing all open prerequisites and all rig site scientific related activities, e.g., logging, packer setting and gas sampling, air permeability, testing, documents covering Open Item 8 (Attribute 8(4)) including geophone mounting brackets.

The other open items will be controlled within the normal Job Package process but will be monitored by the Readiness Review Committee and posted to the Open Items List until all are closed.

SECTION 3  
ATTRIBUTE LIST

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WASHINGTON, D.C.

**READINESS REVIEW ATTRIBUTE LIST**

READINESS REVIEW:

ATTRIBUTE NUMBER	DESCRIPTION OF PREREQUISITE	CLOSED	OPEN ITEM NUMBER	EVALUATED BY (INITIALS)
1.	<p>Do management plans exist? (YES)</p> <p>The following Management Plans have been identified and are in place.</p> <p>A) YMP/CC-0006, Environmental Management Plan</p> <p>B) YMP/CC-0007, YMP Systems Engineering Management Plan</p> <p>C) YMP/CC-0016, Records Management Plan</p> <p>D) YMP/CC-0017, YMP Technical Data Management Plan</p> <p>E) YMP/CC-0018, Field Management Plan</p> <p>F) YMP/88-2, YMP Project Management Plan</p> <p>G) YMP/88-4, YMP Configuration Management Plan</p> <p>H) YMP/88-13, SCP Management Plan</p> <p>I) YMP/90-14, Technical Support Documentation Management Plan</p> <p>J) YMP/90-19, YMP Performance Assessment Management Plan</p> <p>The following are plans that are not specifically management plans.</p> <p>K) YMP/90-022, YMP Test and Evaluation Plan</p> <p>L) DOE/YMP/90-4, Testing Prioritization Implementation Plan</p>	CLOSED		<p><i>KYM</i> 2/27/92</p>

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1.	<p>Continued</p> <p>M) YMP/90-21, YMP Surface Based Testing Facilities Plan</p> <p>N) YMP/91-26, Cost Savings/Value Engineering Program Plan</p> <p>O) YMP/89-12, Software Quality Assurance Plan</p> <p>P) YMP/CC-008, Yucca Mountain Project Design Plan</p> <p>Q) DOE/RW-0051PREV1, OCRWM Systems Engineering Management Plan</p> <p>R) DOE/RW-0119, OCRWM Safety Plan</p> <p>S) YMP/88-1, YMP Project Plan</p> <p>T) YMP/88-2A, YMP Advance Acquisition or Assistance Plan</p> <p>U) YMP/88-14, Radiological Monitoring Plan for the NNWSI Project</p> <p>V) YMP/90-25, YMP Information Management System Plan</p> <p>W) YMP/90-33, Regulatory Compliance Plan</p> <p>X) YMP/90-37, YMP Safety and Health Plan</p> <p>Y) YMP/90-48, YMP Automated Data Processing Contingency and Disaster Recovery Plan</p> <p>Z) YMP/90-49, YMP Computer Program Protection Plan</p>			

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1.	Continued  AA) YMP/90-62, Yucca Mountain Project Waste Package Plan  BB) YMP/91-14, Reclamation Implementation Plan  CC) YMP/91-21, Socioeconomic Plan  DD) YMP/91-22, Yucca Mountain Site Characterization Project Repository Plan  EE) YMP/91-31, Maintainability Plan  FF) YMP Public Affairs Plan			

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2.	Do activity plans exist?			2/28/92
	2a. Is a Job Package (JP 92-03) in place?		OPEN	LSJ
	2b. Is a Test Planning Package (TPP) in place?  (TPP 92-02)		OPEN	2/28/92 LSJ

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3.	<p>Are staffing requirements adequately addressed?</p> <p>3a. Have WAS estimates for staffing been identified which include this activity? (YES)</p> <p>3b. Have participants followed the WAS estimates to prepare for this activity? (YES)</p> <p>3c. Have tasks been assigned to identified participants? (YES)</p> <p>p15 YMP-USGS-3343G-01-C3, R0</p>	<p>CLOSED</p> <p>CLOSED</p> <p>CLOSED</p> <p>CLOSED</p>		<p>2/26/92 LE7</p> <p>2/26/92 LE7</p> <p>2/26/92 LE7</p>

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4.	<p>Are there means to answer questions from the public? (YES)</p> <p>The following procedures are in place to handle questions from the public.</p> <p>A) AP-9.1, Revision 0, NNWSI Project Participant and Public Interaction</p> <p>B) YMP-FOI-5601, Revision 0, Yucca Mountain Personnel and Visitors Control Procedures</p> <p>C) YMP Public Affairs Plan</p>	CLOSED		<p>KYM                  2/27/92</p>

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5.	<p>Are there training programs in place?</p> <p>The training programs are in place for the following participants. Individuals performing the work involved in the drilling, coring, and testing of drill hole UE-25 VSP-2 (UZ-16) will be trained in the governing procedure listed under each participant prior to the start of the activity.</p>			
	1. USGS - YMP USGS QMP 2.07, R1	CLOSED		<i>m SW</i> 2/26/92
	2. LANL - QP-2.6, R1	CLOSED		<i>m SW</i> 2/26/92
	3. BOR - USBR/QMP-2.02, R1	CLOSED		<i>m SW</i> 2/26/92
	4. SMF - SP-131, R5	CLOSED		<i>m SW</i> 2/26/92
	5. TMSS - QMP-02.01, R4	CLOSED		<i>m SW</i> 2/26/92
	6. REECO - MC-02.4, MC-02.4.1-.5	CLOSED		<i>m SW</i> 2/26/92
	7. RSN - PP-02.01, R0, YMP USGS QMP 2.07, R1	CLOSED		<i>m SW</i> 2/26/92

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6.	<p>Are contracts identified in the Job Package?</p> <p>This question cannot be answered until the Job Package is ready for examination.</p> <p>The following contract has been identified as being necessary for the drilling of UZ-16.</p> <p style="padding-left: 40px;">Geophysical Logging</p> <p>Other contracts may be identified as needed as work progresses.</p>		OPEN	<p><i>K/M</i>  <i>2/27/92</i></p>

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7.	<p>Are scopes of work for subcontractors clear, concise, and up-to-date?</p> <p>Are contracts for subcontractors in place? (NO)</p> <p><u>Comment</u></p> <p>The only subcontractor relationship required for the UZ-16 borehole is for geophysical logging services.</p>		OPEN	<p>2/28/92            L87</p>

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8.	<p>Have technical specifications been developed and approved?</p> <p>The following technical specifications have been determined by the users of this drill hole and will be listed in the Job Package. When the Work Program has been completed, a comparison of the specifications listed in the criteria letters will be made to ensure that all pertinent information has been included:</p> <ol style="list-style-type: none"> <li>1. As-Built RSN survey of borehole coordinates and elevation</li> <li>2. Trace gas injection and monitoring system contract</li> <li>3. Plat of proposed and As-Built geophone settings by RSN</li> <li>4. RSN specifications of wellhead box, geophones, cables, central support pipe, tremmie pipe, and geophone mounting brackets.</li> <li>5. Specification for sulfate grouting mixture as directed by the DOE/SR</li> </ol> <p>There may be additional specifications identified before the Job Package is completed. These will be added.</p>			
			OPEN	<i>msw</i> 2/26/92

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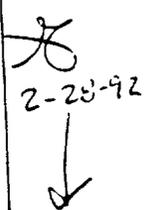
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9.	<p>Have quality assurance programmatic requirements been defined for the activities under review?</p> <table border="1"> <thead> <tr> <th data-bbox="386 667 574 701">Participant</th> <th data-bbox="597 667 656 701">WBS</th> <th data-bbox="760 667 834 701">QAGR</th> <th data-bbox="922 667 1045 701">Subject</th> <th data-bbox="1117 667 1214 701"></th> <th data-bbox="1279 667 1354 701"></th> </tr> </thead> <tbody> <tr> <td>DOE</td> <td>1.2.1</td> <td>RSE-005</td> <td>M&amp;I</td> <td>CLOSED</td> <td rowspan="10" style="vertical-align: top;"> <p style="text-align: center;">X</p> <p style="text-align: center;">2-28-02</p> </td> </tr> <tr> <td>TMSS</td> <td>1.2.5</td> <td>ECPD-001</td> <td>Environ</td> <td>CLOSED</td> </tr> <tr> <td rowspan="3">RSN</td> <td rowspan="3">1.2.3.5. 2.2</td> <td>RSN-GR-028</td> <td>Design</td> <td>CLOSED</td> </tr> <tr> <td>RSN-GR-032</td> <td>Field Supp</td> <td>OPEN</td> </tr> <tr> <td>RSN-GR-003</td> <td>Drill Supp</td> <td>CLOSED</td> </tr> <tr> <td rowspan="3">REECo</td> <td rowspan="3">1.2.3.5.3</td> <td>( ) ( )</td> <td>Geophys</td> <td>OPEN</td> </tr> <tr> <td>R91-1.2.3-0001.1</td> <td>Dring</td> <td>CLOSED</td> </tr> <tr> <td>-0004.1</td> <td>Admin/Labor</td> <td>CLOSED</td> </tr> <tr> <td rowspan="2">USGS</td> <td rowspan="2">1.2.3.3. 1.2.3</td> <td>G1233123</td> <td>Perc</td> <td>CLOSED</td> </tr> <tr> <td>G1233127</td> <td>Hydro-chem</td> <td>CLOSED</td> </tr> <tr> <td rowspan="2">SNL</td> <td rowspan="2">1.2.1.4.1</td> <td>S12141A&amp;B</td> <td>PA</td> <td>CLOSED</td> </tr> <tr> <td>S12147A</td> <td>Post Close</td> <td>CLOSED</td> </tr> <tr> <td>LANL</td> <td>1.2.3.3. 1.2.2</td> <td>10</td> <td>H<sub>2</sub>O Move Trace</td> <td>CLOSED</td> </tr> </tbody> </table>	Participant	WBS	QAGR	Subject			DOE	1.2.1	RSE-005	M&I	CLOSED	<p style="text-align: center;">X</p> <p style="text-align: center;">2-28-02</p>	TMSS	1.2.5	ECPD-001	Environ	CLOSED	RSN	1.2.3.5. 2.2	RSN-GR-028	Design	CLOSED	RSN-GR-032	Field Supp	OPEN	RSN-GR-003	Drill Supp	CLOSED	REECo	1.2.3.5.3	( ) ( )	Geophys	OPEN	R91-1.2.3-0001.1	Dring	CLOSED	-0004.1	Admin/Labor	CLOSED	USGS	1.2.3.3. 1.2.3	G1233123	Perc	CLOSED	G1233127	Hydro-chem	CLOSED	SNL	1.2.1.4.1	S12141A&B	PA	CLOSED	S12147A	Post Close	CLOSED	LANL	1.2.3.3. 1.2.2	10	H <sub>2</sub> O Move Trace	CLOSED			
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9.	Continued			
	BOR Under USGS N/A	CLOSED		
	TESS 1.2.5.2.2 RSE-020 Intfer	CLOSED		
	LLNL 1.2.2.2.2 LLNL QAG Hydrd 007.5, Valid 008.6,L033	CLOSED		

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10.	Do participants have approved QA programs in place?			
	a. YMPO: DOE/RW-0215, Rev 3, ICN 3.1	CLOSED		[Signature] 2-19-92
	b. TMSS: QAPD, Rev 4	CLOSED		[Signature] 2-19-92
	c. RSN: QAPD-002, Rev 0, Change Notice B	CLOSED		[Signature] 2-19-92
	d. REECO: QAPP, 568-DOC-115, Rev 8	CLOSED		[Signature] 2-19-92
	e. USGS: YMP-USGS-QAPP-01, Rev 5	CLOSED		[Signature] 2-19-92
	f. SNL: SNL-NWRT-QAPP, Rev E	CLOSED		[Signature] 2-19-92
	g. LANL: QAPP LANL-YMP-QAPP, Rev 5	CLOSED		[Signature] 2-19-92
	h. BOR: Under USGS Program	N/A		[Signature] 2-19-92

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11.	<p>Have inspection points, hold points, and QA reviews been established, reviewed, and approved?</p> <p><u>Comment</u></p> <p>This will be closed when the JP and TPP are issued.</p>		OPEN	<p>2/29/92            L E J</p>

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12.	<p>Have organizational and physical interfaces been defined and documented?</p> <p><u>Level 1</u></p> <p>The approved JP 92-03 document provides compliance for this attribute.</p> <p><u>Level 2</u></p> <p>An independent search of project documents identified the following issues and evidence of attribute compliance.</p> <p>Issue 1 - Los Alamos is not identified as an activity interface in TPP 92-02 initiation record.</p> <p>Project FWBS Dictionary identifies work element interfaces.</p> <p>Project Study Plans identify interfaces.</p> <p>Participant "Criteria Letter" to YMPO identifies interfaces.</p> <p><u>Constraint</u></p> <p>Review of the finalized TPP 92-02 document and/or the JP 92-03 document for compliance with level 2 information by the Readiness Review chairperson or a panel member is recommended before field work is initiated.</p>		OPEN	<p>pu</p>

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13.	<p>Are documents in place to assure that regulatory requirements have been addressed, including local, state, or federal permits?</p> <p>The following 4 documents were required to be in place to assure that the regulatory requirements have been addressed.</p> <ol style="list-style-type: none"> <li>1. Waiver Request to complete drill hole UE-25 VSP-2 (UZ-16)</li> <li>2. Statement of Findings</li> <li>3. Air Quality Surface Disturbance Permit from the State of Nevada</li> <li>4. Air Quality Permit to operate the LM-300 drill rig.</li> </ol> <p>(See Attribute 24 for Tracer Permit Status)</p>	<p style="text-align: center;">CLOSED</p> <p style="text-align: center;">CLOSED</p> <p style="text-align: center;">CLOSED</p> <p style="text-align: center;">CLOSED</p>		<p style="text-align: right;">2/25/92 mshw</p> <p style="text-align: right;">2/25/92 mshw</p> <p style="text-align: right;">2/25/92 mshw</p> <p style="text-align: right;">2/25/92 mshw</p>

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14.	<p>Are logical interfaces between network activities established?</p> <p><u>Level 1</u></p> <p>The approved Job Package 92-03 developed under AP-5.21Q documents provides compliance for this attribute.</p> <p><u>Level 2</u></p> <p>An independent search of project documents identified the following issues and evidence of attribute compliance.</p> <p>PACS information at the P&amp;S level summarizes the major activity elements necessary to accomplish and fund the effort. The PACS summary account information adds detail to the network. Integration is in process. A working REECO schedule was located which will be adequate to initiate this effort.</p> <p><u>Constraint</u></p> <p>Review of the finalized TPP 92-02 document and/or the JP 92-03 document for compliance with level 2 information by the Readiness Review chairperson or a panel member is recommended before field work is initiated.</p>		OPEN	DO

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15.	<p>Are implementing procedures in place and approved?</p> <p>The individual implementing procedures to be used by the Participants will be identified in the Job Package. AP-5.21Q, Revision 3, Field Work Activation, Page 12 of 21, Guideline For Job Package Outlines, Paragraph A-1.b includes references to applicable procedures. This will be verified when the Job Package(s) is presented for examination. This item will remain open until that time.</p> <p>Additionally these procedures do not include all the procedures listed in the Criteria Letter. Not all listed procedures are necessary to start work; however, procedures called for in the Criteria Letter such as, the procedure for dry coring and drilling of unsaturated zone boreholes, are not listed in the Job Package Requirements mentioned in the preceding paragraph but must be in place prior to the start of drilling and coring.</p> <p>The USGS, RSN, REECo, and Project Office will have to provide some form of identification in the Job Package of the procedures they intend to implement. This listing will then be compared to the work to be accomplished.</p> <p>Other procedures may be identified as the Job Package progresses.</p>			

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ATTRIBUTE NUMBER	DESCRIPTION OF PREREQUISITE	CLOSED	OPEN ITEM NUMBER	EVALUATED BY (INITIALS)
15.	<p>Continued</p> <p>The following procedures have been identified as necessary for the drilling of UZ-16.</p> <p>Raytheon Services of Nevada:</p> <p>PP-01-03 Survey Department Work Functions, Rev 0</p> <p>PP-01-04 Survey Department Document Control and Distribution, Rev 0</p> <p>PP-02-01 Indoctrination and Training, Rev 0</p> <p>PP-02-02 Personnel Selection, Rev 0</p> <p>PP-02-08 Training, Qualification, and Certification of Materials Testing Laboratory Personnel, Rev 0</p> <p>PP-03-06 Hold Control, Rev 0</p> <p>PP-03-20 Surface Based Borehole Programs, Rev 0</p> <p>PP-03-22 Preparation of As-Built Drawings and Specifications, Rev 0</p> <p>PP-03-23 Field Change Control Process, Rev 0</p> <p>PP-06-01 Controlled Document Distribution, Rev 0</p> <p>PP-11-01 General Testing Procedure for the Materials Testing Laboratory, Rev 0</p> <p>PP-12-01 Control of Measuring and Test Equipment, Rev 0</p> <p>PP-17-01 Records Management, Rev 1</p> <p>PP-17-02 Records Storage, Rev 1</p> <p>PP-17-03 Records Source Requirements, Rev 1</p> <p>PP-17-04 Project Microfilm Center, Rev 1</p> <p>PP-20-02 Drilling Specialist Surveillance, Rev 2</p> <p>YMP 1010 Field Inspection, Rev 1</p>	CLOSED		KYM 2/27/92

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READINESS REVIEW:

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15.	Continued			
	U.S. Geological Survey:	CLOSED		KTM 2/27/92
	HP-12 Method for Collection, Processing, and Handling of Drill Cuttings and Core from Unsaturated-Zone Boreholes at the Well-Site, NTS, Rev 3			
	HP-37 Drilling and Coring of Unconsolidated Sediments, Rev 1			
	HP-56 Gas and Water Vapor Sampling from Unsaturated-Zone Test Holes, Rev 3			
	HP-176 Procedure to Collect Gas Composition Samples at Selected Depth Intervals, Rev 1			
	HP-131 Methods for Handling and Transporting Unsaturated Core and Rubble Samples for Hydrochemical Analysis, Rev 2			
	HP-225 Methods used to Collect, Analyze, Preserve, and Process Surface and Groundwater Samples, Rev 0			
	HP-231 Identification, Monitoring, and Sampling of Parched Water and Ground Water Encountered While Drilling Surface-Based Boreholes, Rev 2			
	REECo	CLOSED		KTM 2/27/92
	CD-SOP-001 Water Accountability on the Yucca Mountain Project, Rev 2			
	CD-SOP-019 Dust Control for the Yucca Mountain Project, Rev 1			
	DD-SOP-004 Measurement of Depth of Hole, Rev 2			
	DD-SOP-002 Core Handling, Rev 2			

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15.	<p>Continued</p> <p>*DD-SOP-080 CME-550 Rig UP/Rig Down Procedure, Rev 2</p> <p>*DD-SOP-013 Operating Instructions for the WEN Compressor (DOE/NTS Numbers 86025 and 86049), Rev 2</p> <p>* Stated in the Job Package Requirements but actually N/A</p> <p>The following procedures have been identified as necessary for the initiation of drilling on UZ-16.</p> <ol style="list-style-type: none"> <li>1. Sealing core for UZ Hydrochemistry testing, (USGS) or (SMF)?</li> <li>2. Inputting a tracer gas to drilling air and monitoring the input concentrations, (USGS)</li> <li>3. Instrumentation and stemming of VSP boreholes, (USGS)</li> <li>4. VSP field data acquisition, (USGS)</li> <li>5. Transporting core for UZ hydrochemistry testing, (USGS) or (SMF)?</li> <li>6. Scientific notebook plan for air permeable testing, (USGS)</li> <li>7. Assembly and operation of surface based air permeable packer system, (Bureau of Reclamation)</li> </ol> <p>Project Office will still have to identify in the Job Package any procedures to be used in the drilling of UZ-16.</p>		OPEN	KTM 2/27/92

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READINESS REVIEW:

ATTRIBUTE NUMBER	DESCRIPTION OF PREREQUISITE	CLOSED	OPEN ITEM NUMBER	EVALUATED BY (INITIALS)
16.	Have equipment and facilities been acquired and are they operational?			m 8 w 2/26/92
	The equipment, facilities, and drill rig required to complete drill hole UE-25 VSP-2 (UZ-16) are identified in the Job Package and are as follows.			
	<u>USGS Equipment</u>			
	Geophones and cable assemblies	CLOSED		m 8 w 2/26/92
	Winch to hoist packers for air permeability testing	CLOSED		m 8 w 2/26/92
	Packers for air permeability testing	CLOSED		m 8 w 2/26/92
	Winch to hoist packers for gas sampling (Being built by BOR)		OPEN	m 8 w 2/26/92
	Packers for gas sampling (Being built by BOR)		OPEN	m 8 w 2/26/92
	System to monitor inspection of a tracer gas into drill hole (Being built by Raytheon)		OPEN	m 8 w 2/26/92
	<u>Sample Management Facility</u>			
	Buildings 4320 and 4221 in Area 25	CLOSED		m 8 w 2/26/92
	<u>USGS Facility</u>			
	Building 4215 in Area 25	CLOSED		m 8 w 2/26/92
	<u>REEMCo</u>			
An appropriate rig has been procured and prototyped to drill and test UE-25 VSP-2 (UZ-16).	CLOSED		m 8 w 2/26/92	

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READINESS REVIEW:

ATTRIBUTE NUMBER	DESCRIPTION OF PREREQUISITE	CLOSED	OPEN ITEM NUMBER	EVALUATED BY (INITIALS)
17.	<p>Are funds available to do the work?</p> <p><u>Level 1</u></p> <p>The approved JP 92-03 document provides compliance for this attribute.</p> <p><u>Level 2</u></p> <p>An independent search of project documents identified the following issues and evidence of attribute compliance.</p> <p>Issue 1 - Funding for the logging contractor and the contract are viewed as open items.</p> <p>PACS information at the P&amp;S level summarizes the major activity elements necessary to accomplish and fund the effort. The Work Order cost estimate for the construction work is less than the amount remaining in the REECO account. The scientific, engineering, and support organizations are funded by level of effort under their respective accounts.</p> <p><u>Constraint</u></p> <p>Review of the finalized TPP 92-02 document and/or the JP 92-03 document for compliance with level 2 information by the Readiness Review chairperson or a panel member is recommended before field work is initiated.</p>		OPEN	FO

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ATTRIBUTE NUMBER	DESCRIPTION OF PREREQUISITE	CLOSED	OPEN ITEM NUMBER	EVALUATED BY (INITIALS)
18.	<p>Has handling of data, information, and records been addressed?</p> <p>Is there a records management plan in place? (YES)</p> <p>YMPCC-0016</p> <p>Have data submittals been addressed in the JP?</p>	<p>CLOSED</p>	<p>OPEN</p>	<p><i>[Signature]</i> 2/28/92</p> <p><i>[Signature]</i> 2/28/92</p>

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ATTRIBUTE NUMBER	DESCRIPTION OF PREREQUISITE	CLOSED	OPEN ITEM NUMBER	EVALUATED BY (INITIALS)
19.	Have safety and health measures been identified? (YES)	CLOSED		2/26/92 L87
	19a. Is there a YMP safety plan for field operations? (YES)  YMP-FOI 5001 & YMP-FOY 5601	CLOSED		2/26/92 L87
	19b. Has the responsibility for safety on the drilling site been assigned? (YES)  JP assigns that responsibility to REECo.	CLOSED		2/26/92 L87
	19c. Does each participant have a safety plan? (YES)	CLOSED		2/26/92 L87

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20.	Have security requirements been addressed? (YES)	CLOSED		2/28/92 LSJ
	20a. Does a Nevada Test Site (NTS) security document exist? (YES)  NTS-SOP-1101	CLOSED		2/28/92 LSJ
	20b. Does an agreement between the YMP and NTS exist? (YES)  Memorandum of Agreement between the Manager, DOE/NV, and the Manager, YMP.	CLOSED		2/28/92 LSJ
	20c. Does a YMP security document exist? (YES)  YMP-FOI-5601.	CLOSED		2/28/92 LSJ

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READINESS REVIEW:

ATTRIBUTE NUMBER	DESCRIPTION OF PREREQUISITE	CLOSED	OPEN ITEM NUMBER	EVALUATED BY (INITIALS)
21.	<p>Do schedules exist and are they adequate?</p> <p><u>Level 1</u></p> <p>The approved JP 92-03 document provides compliance for this attribute.</p> <p><u>Level 2</u></p> <p>An independent search of project documents identified the following issues and evidence of attribute compliance.</p> <p>Issue 1 - A working schedule of involved participants can be very beneficial in accomplishing multimillion dollar activities within the budget. I was unable to locate such a schedule.</p> <p>PACS information at the Summary level summarizes the major activity elements necessary to accomplish the effort. The effort is also defined by the higher level participant assignment levels of the FWBS Dictionary.</p> <p><u>Constraint</u></p> <p>Review of the finalized TPP 92-02 document and/or the JP 92-03 document for compliance with level 2 information by the Readiness Review chairperson or a panel member is recommended before field work is initiated.</p>		OPEN	po

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ATTRIBUTE NUMBER	DESCRIPTION OF PREREQUISITE	CLOSED	OPEN ITEM NUMBER	EVALUATED BY (INITIALS)
22.	<p>Are work scopes consistent with upper tier documents?</p> <p><u>Level 1</u></p> <p>The approved TPP 92-02 document provides compliance for this attribute.</p> <p><u>Level 2</u></p> <p>An independent search of project documents identified the following issues and evidence of attribute compliance.</p> <p>The issues and information needs presented in the SCPB are addressed by the activity study plan. The study plan documents are consistent with the SCPB and the WBS dictionary statement of work. The Grading packages which are generally higher tiered documents cover the scope of the proposed activity.</p> <p><u>Constraint</u></p> <p>Review of the finalized TPP 92-02 document and/or the JP 92-03 document for compliance with level 2 information by the Readiness Review chairperson or a panel member is recommended before field work is initiated.</p>		OPEN	PO

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ATTRIBUTE NUMBER	DESCRIPTION OF PREREQUISITE	CLOSED	OPEN ITEM NUMBER	EVALUATED BY (INITIALS)
23.	<p>Has the activity been checked against the technical baseline?</p> <p><u>Level 1</u></p> <p>The approved TPP 92-02 and JP 92-03 document provides compliance for this attribute.</p> <p><u>Level 2</u></p> <p>An independent search of project documents identified the following issues and evidence of attribute compliance.</p> <p>This activity is specified by participant study plans identified by the SCPB. The PACS schedule which is the source of the TPP and JP planning and scheduling information is under project office control by AP-5.36. The SBTFRD document identifies the functional requirements for this activity and is baselined.</p> <p><u>Constraint</u></p> <p>Review of the finalized TPP 92-02 document and/or the JP 92-03 document for compliance with level 2 information by the Readiness Review chairperson or a panel member is recommended before field work is initiated.</p>		OPEN	RW



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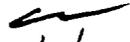
READINESS REVIEW:

ATTRIBUTE NUMBER	DESCRIPTION OF PREREQUISITE	CLOSED	OPEN ITEM NUMBER	EVALUATED BY (INITIALS)
25.	<p>Are there any outstanding CARs, SDRs, Stop Work Orders, etc.?</p> <p>There were no Standard Deficiency Reports, Corrective Action Requests, or Stop Work Orders identified against the activities associated with the initiation of the drilling of UZ-16.</p>	CLOSED		<p>KYM            2-26-92</p>

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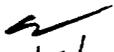
READINESS REVIEW:

ATTRIBUTE NUMBER	DESCRIPTION OF PREREQUISITE	CLOSED	OPEN ITEM NUMBER	EVALUATED BY (INITIALS)
26.	Has an evaluation been done of potential impacts to waste isolation?  Evaluation received 2/13/92.	CLOSED		 3/5/92

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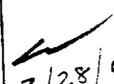
READINESS REVIEW:

ATTRIBUTE NUMBER	DESCRIPTION OF PREREQUISITE	CLOSED	OPEN ITEM NUMBER	EVALUATED BY (INITIALS)
27.	<p>Has an evaluation been done of potential test interferences?</p> <p>TESS completed a Test Interference Evaluation on 2/3/92 and transmitted it to YMPO.</p>	CLOSED		 3/5/92

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ATTRIBUTE NUMBER	DESCRIPTION OF PREREQUISITE	CLOSED	OPEN ITEM NUMBER	EVALUATED BY (INITIALS)
28.	<p>Have controls been identified to mitigate potential impacts to waste isolation or test interferences?</p> <p>SNL evaluation is to identify controls. TRW/M&amp;O has evaluated potential test interferences. When that evaluation has been reviewed and accepted by YMPO in accordance with BTP-RSED-01-01, this item can be closed.</p> <p>Standard controls have been established in the work program.</p>	CLOSED		 2/28/92

SECTION 4  
OPEN ITEMS LIST

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READINESS REVIEW OPEN ITEMS LIST

READINESS REVIEW:

<u>OPEN ITEM NO.</u>	<u>ACTION REQUIRED</u>	<u>RESPONSI- BILITY</u>	<u>ESTIMATED COMPLETION DATE</u>	<u>DATE CLOSED</u>	<u>CLOSED BY (INITIALS)</u>
1	Attribute 2a. Is a Job Package (JP 92-03) in place?	Job Package Coordinator	3-30-92		
2	Attribute 2b. Is a Test Planning Package (TPP) in place? (TPP 92-02)	Project Engineer	3-19-92		
3	Attribute 6 Are contracts identi- fied in the Job Package?	Job Package Coordinator	3-30-92		
4	Attribute 7 Are scopes of work for subcontractors clear, concise, and up-to- date?	Job Package Coordinator	3-30-92		
5	Attribute 8(1) Need As-Built RSN sur- vey of borehole coordinates and elevation.	Job Package Coordinator	3-30-92		
6	Attribute 8(2) Need trace gas injection and monitoring system contract	Job Package Coordinator	3-30-92		

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READINESS REVIEW OPEN ITEMS LIST

READINESS REVIEW:

<u>OPEN ITEM NO.</u>	<u>ACTION REQUIRED</u>	<u>RESPONSI- BILITY</u>	<u>ESTIMATED COMPLETION DATE</u>	<u>DATE CLOSED</u>	<u>CLOSED BY (INITIALS)</u>
7	Attribute 8(3) Need plat of proposed and As-Built geophone settings by RSN.	Job Package Coordinator	3-30-92		
8	Attribute 8(4) Need RSN specifications of wellhead box, geo- phones, cables, central support pipe, tremmie pipe, and geophone mounting brackets.	Job Package Coordinator	3-30-92		
9	Attribute 8(5) Need specifications for sulfate grouting mix- ture as directed by the DOE/SR.	Job Package Coordinator	3-30-92		
10	Attribute 9 Have quality assurance programmatic require- ments been defined for the activities under review? (Need RSN Field Support and Geophys.)	Job Package Coordinator	3-30-92		

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READINESS REVIEW:

<u>OPEN ITEM NO.</u>	<u>ACTION REQUIRED</u>	<u>RESPOISI- BILITY</u>	<u>ESTIMATED COMPLETION DATE</u>	<u>DATE CLOSED</u>	<u>CLOSED BY (INITIALS)</u>
11	Attribute 11 Have inspection points, hold points, and QA reviews been established, reviewed, and approved?	Job Package Coordinator	3-30-92		
12	Attribute 12 Have organizational and physical interfaces been defined and documented?	Job Package Coordinator and Project Engineer	3-30-92		
13	Attribute 14 Are logical interfaces between network activities established?	Job Package Coordinator	3-30-92		
14	Attribute 15(1) Need procedure for sealing core for UZ Hydrochemistry testing.	Job Package Coordinator	3-30-92		
15	Attribute 15(2) Need procedure for inputting a tracer gas to drilling air and monitoring the input concentrations.	Job Package Coordinator	3-30-92		

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<u>OPEN ITEM NO.</u>	<u>ACTION REQUIRED</u>	<u>RESPONSI- BILITY</u>	<u>ESTIMATED COMPLETION DATE</u>	<u>DATE CLOSED</u>	<u>CLOSED BY (INITIALS)</u>
16	Attribute 15(3) Need procedure for instrumentation and stemming of VSP boreholes.	Job Package Coordinator	3-30-92		
17	Attribute 15(4) Need procedure for VSP field data acquisition.	Job Package Coordinator	3-30-92		
18	Attribute 15(5) Need procedure for transporting core for UZ hydrochemistry testing.	Job Package Coordinator	3-30-92		
19	Attribute 15(6) Need procedure for scientific notebook plan for air permeability testing.	Job Package Coordinator	3-30-92		
20	Attribute 15(7) Need procedure for assembly and operation of surface based air permeable packer system.	Job Package Coordinator	3-30-92		

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READINESS REVIEW:

<u>OPEN ITEM NO.</u>	<u>ACTION REQUIRED</u>	<u>RESPONSI- BILITY</u>	<u>ESTIMATED COMPLETION DATE</u>	<u>DATE CLOSED</u>	<u>CLOSED BY (INITIALS)</u>
21	Attribute 16 Need winch to hoist packers for gas sampling?	Bureau of Reclamation or REECO	7-1-92		
22	Attribute 16 Need packers for gas sampling.	Bureau of Reclamation	6-1-92		
23	Attribute 16 Need system to monitor injection of a tracer gas into drill hole.	Job Package Coordinator	3-30-92		
24	Attribute 17 Are funds available to do the work?	Job Package Coordinator	3-30-92		
25	Attribute 18 Have data submittals been addressed in the JP?	Job Package Coordinator	3-30-92		
26	Attribute 21 Do schedules exist and are they adequate?	Job Package Coordinator	3-30-92		

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27	Attribute 22 Are work scopes consis- tent with upper tier documents?	Project Engineer	3-19-92		
28	Attribute 23 Has the activity been checked against the technical baseline?	Job Package Coordinator and Project Engineer	3-30-92		
29	Attribute 24 Need tracer permit.	Job Package Coordinator	4-20-92		

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READINESS REVIEW OF EDITED REPORT

READINESS REVIEW

ATTRIBUTE NO.

OPEN ITEM NUMBER

UE-25, VSP-2 (UZ-16)

2a

1

DESCRIPTION OF PREREQUISITE

Is Job Package (JP 92-03) in place?

DESCRIPTION OF OPEN ITEM

Job Package

ACTIONS REQUIRED TO CLOSE

RESPONSIBILITY

ESTIMATED COMPLETION DATE

Issue Job Package

Job Package  
Coordination

3-30-92

HOLD POINT REQUIRED? YES  NO

PREPARED BY

*Loan E. Thomas*

*2-28-92*

Name

Date

ASSIGNMENT OF HOLD POINTS:

ACTIONS COMPLETED DATE:

VERIFIED BY:

CLOSURE APPROVED BY

Readiness Review Chairperson

Date

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READINESS REVIEW OF OPEN ITEM REPORT

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	2b	2

**DESCRIPTION OF PREREQUISITE**

Is Test Planning Package (TPP 92-02) in place?

**DESCRIPTION OF OPEN ITEM**

Test Planning Package

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
Issue TPP	Project Engineer	3-19-92

HOLD POINT REQUIRED? YES  NO

**PREPARED BY**  
*Leon E. Thompson*  
 \_\_\_\_\_  
 Name

2-28-92  
 \_\_\_\_\_  
 Date

**ASSIGNMENT OF HOLD POINTS:**

**ACTIONS COMPLETED DATE:** \_\_\_\_\_ **VERIFIED BY:** \_\_\_\_\_

**CLOSURE APPROVED BY**

\_\_\_\_\_ **Date**

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WASHINGTON, D.C.

7 READINESS REVIEW OPEN ITEM REPORT

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	6	3

**DESCRIPTION OF PREREQUISITE**

Are contracts identified in the Job Package?

**DESCRIPTION OF OPEN ITEM**

Contract for geophysical logging

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
Provision for geophysical logging in Job Package	Job Package Coordinator	3-30-92

HOLD POINT REQUIRED? YES  NO

**PREPARED BY**

Kenneth McCall 2/28/92  
Name Date

**ASSIGNMENT OF HOLD POINTS:**

**ACTIONS COMPLETED DATE:** \_\_\_\_\_ **VERIFIED BY:** \_\_\_\_\_

**CLOSURE APPROVED BY**

\_\_\_\_\_  
Readiness Review Chairperson Date

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ADDRESS FROM WHICH TO OBTAIN THE REPORT

READINESS REVIEW

ATTRIBUTE NO.

OPEN ITEM NUMBER

UE-25, VSP-2 (UZ-16)

7

4

DESCRIPTION OF PREREQUISITE

Are scopes of work for subcontractors clear, concise, and up-to-date?

DESCRIPTION OF OPEN ITEM

Scope of work for geophysical logging in Job Package

ACTIONS REQUIRED TO CLOSE

RESPONSIBILITY

ESTIMATED COMPLETION DATE

Scope of geophysical logging covered in Job Package

Job Package Coordinator

3-30-92

HOLD POINT REQUIRED? YES  NO

PREPARED BY

*Loren E. Thom*

2-28-92

Name

Date

ASSIGNMENT OF HOLD POINTS:

ACTIONS COMPLETED DATE:

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**READINESS REVIEW OF THE REPORT**

**READINESS REVIEW**

UE-25, VSP-2 (UZ-16)

**ATTRIBUTE NO.**

8(1)

**OPEN ITEM NUMBER**

5

**DESCRIPTION OF PREREQUISITE**

Technical Specifications: As-Built RSN survey of borehole coordinates and elevation

**DESCRIPTION OF OPEN ITEM**

Technical Specifications: As-Built RSN survey of borehole coordinates and elevation

**ACTIONS REQUIRED TO CLOSE**

**RESPONSIBILITY**

**ESTIMATED COMPLETION DATE**

Job Package with work program with above information

Job Package Coordinator

3-30-92

HOLD POINT REQUIRED? YES  NO

**PREPARED BY**

*Merrick S. Whitfield*

Name

2/28/92

Date

**ASSIGNMENT OF HOLD POINTS:**

**ACTIONS COMPLETED DATE:**

**VERIFIED BY:**

**CLOSURE APPROVED BY**

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**ADDRESS REVIEW OF THE REPORT**

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	8(2)	6

**DESCRIPTION OF PREREQUISITE**

Technical Specifications: Trace gas injection and monitoring system contract

**DESCRIPTION OF OPEN ITEM**

Provision for obtaining equipment for tracer injection and determination of who will monitor it

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
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Include responsibilities in Job Package	Job Package Coordinator	3-30-92
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HOLD POINT REQUIRED? YES  NO

**PREPARED BY**

Merrick S. Whitfield  
Name

2/28/92  
Date

**ASSIGNMENT OF HOLD POINTS:**

**ACTIONS COMPLETED DATE:**

**VERIFIED BY:**

**CLOSURE APPROVED BY**

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ADDRESS REVIEW OF TITLE REPORT

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	8(3)	7

DESCRIPTION OF PREREQUISITE

Technical Specifications: Plat of proposed and As-Built geophone settings by RSN

DESCRIPTION OF OPEN ITEM

Geophone location on cable and/or in drillhole

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
Graphics or narrative describing location of geophones on cable and/or spacing down hole	Job Package Coordinator	3-30-92

HOLD POINT REQUIRED? YES \_\_\_ NO

PREPARED BY

Merrick S. Whitfield  
Name

2/28/92  
Date

ASSIGNMENT OF HOLD POINTS:

ACTIONS COMPLETED DATE:

VERIFIED BY:

CLOSURE APPROVED BY

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ADDRESS REVIEW OF FIELD REPORT

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	8(4)	8

DESCRIPTION OF PREREQUISITE

Technical Specifications: RSN specifications of wellhead box, geophones, cables, central support pipe, tremmie pipe, and geophone mounting brackets

DESCRIPTION OF OPEN ITEM

Technical Specifications: RSN specifications of wellhead box, geophones, cables, central support pipe, tremmie pipe, and geophone mounting brackets

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
Job Package with Work Program covering the above specifications	Job Package Coordinator	3-30-92

HOLD POINT REQUIRED? YES  NO

PREPARED BY

Merrick S. Whitfield  
Name

2/28/92  
Date

ASSIGNMENT OF HOLD POINTS:

ACTIONS COMPLETED DATE:

VERIFIED BY:

CLOSURE APPROVED BY

\_\_\_\_\_  
Readiness Review Chairperson

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ADDRESS REVIEW OF THE REPORT

READINESS REVIEW

ATTRIBUTE NO.

OPEN ITEM NUMBER

UE-25, VSP-2 (UZ-16)

8(5)

9

DESCRIPTION OF PREREQUISITE

Technical Specifications: Specification for sulfate grouting mixture as directed by the DOE/SR

DESCRIPTION OF OPEN ITEM

Technical Specifications: Specification for sulfate grouting mixture as directed by the DOE/SR

ACTIONS REQUIRED TO CLOSE

RESPONSIBILITY

ESTIMATED COMPLETION DATE

Specification for above  
in Job Package

Job Package  
Coordinator

3-30-92

HOLD POINT REQUIRED? YES  NO

PREPARED BY

Merrick S. Whitfield  
Name

2/28/92  
Date

ASSIGNMENT OF HOLD POINTS:

ACTIONS COMPLETED DATE:

VERIFIED BY:

CLOSURE APPROVED BY

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**FEEDBACK ADDRESS REVIEW OF THE REPORT**

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	9	10

**DESCRIPTION OF PREREQUISITE**

Have quality assurance programmatic requirements been defined?

**DESCRIPTION OF OPEN ITEM**

RSN Grading Report is required for Field Support including geophysical logging.

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
Include reference to Grading Report(s) in Job Package	Job Package Coordinator	3-30-92

HOLD POINT REQUIRED? YES  NO

**PREPARED BY** Gregory John 2-28-92  
Date

Name

**ASSIGNMENT OF HOLD POINTS:**

**ACTIONS COMPLETED DATE:** \_\_\_\_\_ **VERIFIED BY:** \_\_\_\_\_

**CLOSURE APPROVED BY** \_\_\_\_\_ \_\_\_\_\_  
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READINESS REVIEW OF THE REPORT

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	11	11

DESCRIPTION OF PREREQUISITE

Have inspection points, hold points, and QA reviews been established, reviewed, and approved?

DESCRIPTION OF OPEN ITEM

Job Package will specify any hold points and reviews.

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
Issuance of Job Package	Job Package Coordinator	3-30-92

HOLD POINT REQUIRED? YES \_\_\_ NO

PREPARED BY

*Lois E. Thomas*

Name

*2-28-92*

Date

ASSIGNMENT OF HOLD POINTS:

ACTIONS COMPLETED DATE:

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READINESS REVIEW OPEN ITEM REPORT

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	14	13

DESCRIPTION OF PREREQUISITE

Are logical interfaces between network activities established?

DESCRIPTION OF OPEN ITEM

Logical interfaces required are included in the Job Package.

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
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Issuance of Job Package	Job Package Coordinator	3-30-92
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HOLD POINT REQUIRED? YES  NO

PREPARED BY

*Ron Oliver*

Name

2-28-92

Date

ASSIGNMENT OF HOLD POINTS:

ACTIONS COMPLETED DATE:

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READINESS REVIEW OF DEFECTED REPORT

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	15(1)	14

DESCRIPTION OF PREREQUISITE

Are implementing procedures in place and approved?

DESCRIPTION OF OPEN ITEM

Need procedure for sealing core for UZ Hydrochemistry testing.

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE	HOLD POINT REQUIRED? YES <input type="checkbox"/> NO <input type="checkbox"/>
Issuance of Job Package	Job Package Coordinator	3-30-92	

PREPARED BY

*Kenneth McCall*  
Name

*2/23/92*  
Date

ASSIGNMENT OF HOLD POINTS:

ACTIONS COMPLETED DATE:

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**7 READINESS REVIEW OF ITEM REPORT**

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	15(2)	15

**DESCRIPTION OF PREREQUISITE**

Are implementing procedures in place and approved?

**DESCRIPTION OF OPEN ITEM**

Need procedure for inputting a tracer gas to drilling air and monitoring the input concentrations.

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
Issuance of Job Package	Job Package Coordinator	3-30-92

HOLD POINT REQUIRED? YES  NO

**PREPARED BY**

Kenneth M. Scott 2/28/92  
Name Date

**ASSIGNMENT OF HOLD POINTS:**

**ACTIONS COMPLETED DATE:** \_\_\_\_\_ **VERIFIED BY:** \_\_\_\_\_

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**READINESS REVIEW: CLOSURE REPORT**

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	15(3)	16

**DESCRIPTION OF PREREQUISITE**

Are implementing procedures in place and approved?

**DESCRIPTION OF OPEN ITEM**

Need procedure for instrumentation and stemming of VSP boreholes.

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
Issuance of Job Package	Job Package Coordinator	3-30-92
HOLD POINT REQUIRED? YES <input type="checkbox"/> NO <input type="checkbox"/>		

**PREPARED BY**

Kenneth A. McCall 2/28/92  
Name Date

**ASSIGNMENT OF HOLD POINTS:**

**ACTIONS COMPLETED DATE:** \_\_\_\_\_ **VERIFIED BY:** \_\_\_\_\_

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READINESS REVIEW OF THE REPORT

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	15(4)	17

DESCRIPTION OF PREREQUISITE

Are implementing procedures in place and approved?

DESCRIPTION OF OPEN ITEM

Need procedure for VSP field data acquisition.

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
Issuance of Job Package	Job Package Coordinator	3-30-92

HOLD POINT REQUIRED? YES  NO

PREPARED BY

Kenneth A. McFall  
Name

2/28/92  
Date

ASSIGNMENT OF HOLD POINTS:

ACTIONS COMPLETED DATE:

VERIFIED BY:

CLOSURE APPROVED BY

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READINESS REVIEW OF THE REPORT

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	15(5)	18

**DESCRIPTION OF PREREQUISITE**

Are implementing procedures in place and approved?

**DESCRIPTION OF OPEN ITEM**

Need procedure for transporting core for UZ hydrochemistry testing.

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
Issuance of Job Package	Job Package Coordinator	3-30-92

HOLD POINT REQUIRED? YES  NO

**PREPARED BY**

Kenneth A. McFall 2/28/92  
Name Date

**ASSIGNMENT OF HOLD POINTS:**

**ACTIONS COMPLETED DATE:** \_\_\_\_\_ **VERIFIED BY:** \_\_\_\_\_

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READINESS REVIEW OF THE REPORT

READINESS REVIEW

ATTRIBUTE NO.

OPEN ITEM NUMBER

UE-25, VSP-2 (UZ-16)

15(6)

19

DESCRIPTION OF PREREQUISITE

Are implementing procedures in place and approved?

DESCRIPTION OF OPEN ITEM

Need procedure for scientific notebook plan for air permeable testing.

ACTIONS REQUIRED TO CLOSE

RESPONSIBILITY

ESTIMATED COMPLETION DATE

Issuance of  
Job Package

Job Package  
Coordinator

3-30-92

HOLD POINT REQUIRED? YES  NO

PREPARED BY

*Kenneth M. Scott*

Name

*2/28/92*

Date

ASSIGNMENT OF HOLD POINTS:

ACTIONS COMPLETED DATE:

VERIFIED BY:

CLOSURE APPROVED BY

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Date

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**READINESS REVIEW OF TITLE D REPORT**

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	15(7)	20

**DESCRIPTION OF PREREQUISITE**

Are implementing procedures in place and approved?

**DESCRIPTION OF OPEN ITEM**

Need procedure for assembly and operation of surface based air permeable packer system.

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
---------------------------	----------------	---------------------------

Issuance of  
Job Package

Job Package  
Coordinator

3-30-92

HOLD POINT REQUIRED? YES  NO

**PREPARED BY**

Kenneth M. Smith

Name

2/28/92

Date

**ASSIGNMENT OF HOLD POINTS:**

**ACTIONS COMPLETED DATE:**

**VERIFIED BY:**

**CLOSURE APPROVED BY**

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READINESS REVIEW CHECKLIST REPORT

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	16	22

**DESCRIPTION OF PREREQUISITE**

Have equipment and facilities been acquired, and are they operational?

**DESCRIPTION OF OPEN ITEM**

Need packers for gas sampling.

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
Packers completed by BOR or listed as open prerequisite in Job Package - then track to closure.	Bureau of Reclamation	6-1-92

HOLD POINT REQUIRED? YES  NO

**PREPARED BY**

Merrick S. Whitfield 2/28/92  
Name Date

**ASSIGNMENT OF HOLD POINTS:**

**ACTIONS COMPLETED DATE:** \_\_\_\_\_ **VERIFIED BY:** \_\_\_\_\_

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**ADDRESS REVIEW OF ATTITUDE REPORT**

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	16	23

**DESCRIPTION OF PREREQUISITE**

Have equipment and facilities been acquired, and are they operational?

**DESCRIPTION OF OPEN ITEM**

Tracer injection system.

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
Verify completion of unit or it is listed as open prerequisite in Job Package - then track to completion.	Job Package Coordinator	3-30-92

HOLD POINT REQUIRED? YES  NO

**PREPARED BY**

Merrick S. Whitfield 2/28/92  
Name Date

**ASSIGNMENT OF HOLD POINTS:**

ACTIONS COMPLETED DATE: \_\_\_\_\_ VERIFIED BY: \_\_\_\_\_

**CLOSURE APPROVED BY**

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**READINESS REVIEW OF ERETEC REPORT**

**READINESS REVIEW**

UE-25, VSP-2 (UZ-16)

**ATTRIBUTE NO.**

17

**OPEN ITEM NUMBER**

24

**DESCRIPTION OF PREREQUISITE**

Are funds available to do the work?

**DESCRIPTION OF OPEN ITEM**

Are funds available to do the work?

**ACTIONS REQUIRED TO CLOSE**

The issuance of JP 92-03 indicates appropriate funding.

**RESPONSIBILITY**

Job Package Coordinator

**ESTIMATED COMPLETION DATE**

3-30-92

HOLD POINT REQUIRED? YES  NO

**PREPARED BY**

Don Oliver

Name

2-28-92

Date

**ASSIGNMENT OF HOLD POINTS:**

**ACTIONS COMPLETED DATE:**

**VERIFIED BY:**

**CLOSURE APPROVED BY**

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READINESS REVIEW OF THE REPORT

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	18	25

**DESCRIPTION OF PREREQUISITE**

Has handling of data, information, and records been addressed.

**DESCRIPTION OF OPEN ITEM**

Have data, information, and records submittals been addressed in the Job Package.

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
Issuance of Job Package Package covers this attribute.	Job Package Coordinator	3-30-92

HOLD POINT REQUIRED? YES  NO

**PREPARED BY**

*Claudia M. Nambary* 2-28-92  
Name Date

**ASSIGNMENT OF HOLD POINTS:**

**ACTIONS COMPLETED DATE:** \_\_\_\_\_ **VERIFIED BY:** \_\_\_\_\_

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**ADDRESS REVIEW OF TITLE OF REPORT**

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	21	26

**DESCRIPTION OF PREREQUISITE**

Do schedules exist, and are they adequate?

**DESCRIPTION OF OPEN ITEM**

Do schedules exist, and are they adequate?

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
Schedules are included in JP 92-03, issuance of JP covers this attribute.	Job Package Coordinator	3-30-92
HOLD POINT REQUIRED? YES <input type="checkbox"/> NO <input type="checkbox"/>		

**PREPARED BY**

*Ran Oliver*

Name

2-28-92

Date

**ASSIGNMENT OF HOLD POINTS:**

**ACTIONS COMPLETED DATE:**

**VERIFIED BY:**

**CLOSURE APPROVED BY**

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ADDRESS REVIEW OF THE REPORT

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	22	27

**DESCRIPTION OF PREREQUISITE**

Are work scopes consistent with upper tier documents?

**DESCRIPTION OF OPEN ITEM**

Are work scopes consistent with upper tier documents?

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
Issuance of TPP 92-02 covers this Attribute.	Project Engineer	3-19-92

HOLD POINT REQUIRED? YES  NO

**PREPARED BY**

Paul Oliver 2-28-92  
Name Date

**ASSIGNMENT OF HOLD POINTS:**

**ACTIONS COMPLETED DATE:** \_\_\_\_\_ **VERIFIED BY:** \_\_\_\_\_

**CLOSURE APPROVED BY**

\_\_\_\_\_ \_\_\_\_\_  
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**READINESS REVIEW OF TITLE REPORT**

READINESS REVIEW	ATTRIBUTE NO.	OPEN ITEM NUMBER
UE-25, VSP-2 (UZ-16)	23	28

**DESCRIPTION OF PREREQUISITE**

Has the activity been checked against the technical baseline?

**DESCRIPTION OF OPEN ITEM**

Has the activity been checked against the technical baseline?

ACTIONS REQUIRED TO CLOSE	RESPONSIBILITY	ESTIMATED COMPLETION DATE
The approved TPP 92-02 and JP 92-03 provide compliance for this attribute.	Job Package Coordinator & Project Engineer	3-30-92
HOLD POINT REQUIRED? YES <input type="checkbox"/> NO <input type="checkbox"/>		

**PREPARED BY**

*Ron Oliver*

Name

*2-28-92*

Date

**ASSIGNMENT OF HOLD POINTS:**

**ACTIONS COMPLETED DATE:**

**VERIFIED BY:**

**CLOSURE APPROVED BY**

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ADDRESS REVIEW OF THE REPORT

READINESS REVIEW

UE-25, VSP-2 (UZ-16)

ATTRIBUTE NO.

24

OPEN ITEM NUMBER

29

DESCRIPTION OF PREREQUISITE

Environmental surveys completed, permits acquired.

DESCRIPTION OF OPEN ITEM

Need tracer permit.

ACTIONS REQUIRED TO CLOSE

Verify receipt of  
tracer permit.

RESPONSIBILITY

Job Package  
Coordinator

ESTIMATED COMPLETION DATE

4-20-92

HOLD POINT REQUIRED? YES  NO

PREPARED BY

Merrick S. Whitfield  
Name

2/28/92  
Date

ASSIGNMENT OF HOLD POINTS:

This is a hold point in JP 92-03.

ACTIONS COMPLETED DATE:

VERIFIED BY:

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