



## Department of Energy

Washington, DC 20585

QA: QA

APR 03 2000

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President and General Manager  
TRW Environmental Safety Systems, Inc.  
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Las Vegas, NV 89144-6352

### ISSUANCE OF DEFICIENCY IDENTIFICATION AND REFERRAL (DIR) FORM DIR 00-15 FOR DEFICIENCY REPORT (DR) LVMO-00-D-038

The enclosed DIR has been made part of the subject deficiency. Please consider this information in evaluating the extent of the condition.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or William J. Glasser at (702) 794-5014.

OQA:JB-1104

Enclosure:  
DIR 00-15

*James Blaylock*  
Robert W. Clark, Director  
Office of Quality Assurance



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*Add: K. Stabbein*

*NIM 550 7*

APR 03 2000

cc w/encl:

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RADIOACTIVE WASTE MANAGEMENT  
U.S. DEPARTMENT OF ENERGY  
WASHINGTON, D.C.

DIR 00-15

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QA: L

DEFICIENCY IDENTIFICATION AND REFERRAL

Date:

03/28/00

DR/CAR Referred to:

DR LVMO-00-D-038

Description of Deficiency:

LaGrit V1.0 and GEOMESH V1.0 software have not met the software qualification requirements of AP-SI.1Q, Rev 2 for use on Yucca Mountain Project quality-affecting activities at LANL.

How Identified:

This deficiency was previously documented on attached NCRs YMSCO-00-0003 and YMSCO-00-0004. These NCRs are being invalidated and the situation referred to this DR.

NOTE: Action is underway to qualify LaGrit via Software Activity Number (SAN) LANL-2000-048 and Software Tracking Number (STN) 10212-1.0-00. It has been stated in the proposed disposition of the referenced NCRs that GEOMESH and LaGrit are the same software package. This will need to be verified prior to closing this DR.

Existing Open DR/CAR:

DR LVMO-00-D-038

Open DR/CAR QAR's Concurrence:

K. A. Hodges *K. A. Hodges*

Date:

3/28/00

Initiator:

R. E. Powe *R E Powe*

Date:

3/28/00

Exhibit AP-16.1Q.5

Rev. 06/01/1999

ENCLOSURE

YMP-006-R6 08/02/97		<b>YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT NONCONFORMANCE REPORT</b>	
NCR. No. <u>YMSCO-00-0003</u>		Page <u>1</u> of <u>1</u>	
1. Initiator Name: <u>Cleoves B. Martinez</u> Organization: <u>LANL</u> Date: <u>10/28/99</u>			
2. Description of Non-Conformance:  LaGrit V1.0 software has not met the software qualification requirements of AP-SI.1Q, Rev. 2, for use on Yucca Mountain Project quality-affecting activities.			
<input type="checkbox"/> Hold Tag Applied		No. of Hold Tags Applied <u>NA</u>	
		Field Work Package/ Job Package/ Test Planning Package No. <u>NA</u>	
3. OQA: <input checked="" type="checkbox"/> Validation <input type="checkbox"/> Invalidation <input checked="" type="checkbox"/> Q <input type="checkbox"/> Non-Q			
Name: <u>John C. Friend</u>		Date: <u>10/28/99</u>	
		ORIGINAL red	
4. Disposition Evaluation			
<input type="checkbox"/> Rework <input checked="" type="checkbox"/> Repair <input type="checkbox"/> Use-As-Is <input type="checkbox"/> Conditional Release			
<input type="checkbox"/> Reject/Scrap <input type="checkbox"/> Limited Use <input type="checkbox"/> Discard			
Potentially Reportable <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Justification/Comments:  In the past there have been different names given to this software package. The have been GEOMESH and LaGrit. These codes have been merged to have the same functionality under the code LaGrit. LaGrit is currently being qualified and is identified under software activity number (SAN) LANL-2000-048, and software tracking number (STN) 102121.0-00. Any past work with GEOMESH will be covered by the qualification of the LaGrit code since they are just different names for the same thing.			
5. Recommended Disposition by:			
Name: <u>[Signature]</u>		Organization: <u>LANL</u> Date: <u>3-27-00</u>	
Recommended Disposition			
Name: <u>[Signature]</u>		Organization: <u>LANL</u> Date: <u>3-27-00</u>	
Approval of Disposition			
6. OQA Concurrence with Disposition: Corrective Action: <input type="checkbox"/> No <input type="checkbox"/> Yes No. _____			
Name: _____		Date: _____	
7. Completion of Disposition: <input type="checkbox"/> Hold Tag Removed No. of Hold Tags Removed _____			
Name: _____		Organization: _____ Date: _____	
OQA Concurrence:			
Name: _____		Date: _____	
8. OQA Final Review:			
Name: _____		Date: _____	

YMP-008-R6  
08/02/97YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT  
NONCONFORMANCE REPORT

NCR. No. YMSCO-00-0004

Page 1 of 1

1.

Initiator Name: Cleoves B. Martinez Organization: LANL Date: 10/28/99

2. Description of Non-Conformance:

GEOMESH V1.0 software has not met the software qualification requirements of AP-SI.1Q, Rev. 2, for use on Yucca Mountain Project quality-affecting activities.

☐ Hold Tag Applied

No. of Hold Tags Applied NA

Field Work Package/  
Job Package/  
Test Planning Package No.

NA

3. OCA:

☒ Validation ☐ Invalidation☒ QA ☐ Non-QA

Name: John C. Frazier

Date: 10/29/99

ORIGINAL  
red

4. Disposition Evaluation

☐ Rework☒ Repair☐ Use-As-Is☐ Conditional Release☐ Reject/Scrap☐ Limited Use☐ Discard

Potentially Reportable

☐ Yes☒ No

Justification/Comments:

In the past there have been different names given to this software package. They have been GEOMESH and LaGriT. These codes have been merged to have the same functionality so that in the future all work will utilize the LaGriT code. Any past work with GEOMESH will be covered by the qualification of the LaGriT code since they are just different names for the same thing.

5. Recommended Disposition by:

Name:

Recommended Disposition

Organization: LANL

Date: 3-27-00

Name:

Approval of Disposition

Organization: LANL

Date: 3-27-00

6. OCA Concurrence with Disposition:

Corrective Action: ☐ No ☐ Yes No.

Name:

Date:

7. Completion of Disposition:

☐ Hold Tag Removed

No. of Hold Tags Removed

Name:

Organization: Date:

OCA Concurrence:

Name:

Date:

8. OCA Final Review:

Name:

Date: