

		Scientific Analysis/Calculation Error Resolution Document		QA: QA Page 1 of 3	
<i>Complete only applicable items.</i>					
INITIATION					
1. Originator: Cliff Howard		2. Date: 04/01/2008		3. ERD No. ANL-MGR-GS-000002 ERD 01	
4. Document Identifier: ANL-MGR-GS-000002 REV 03			5. Document Title: Characterize Eruptive Processes at Yucca Mountain, Nevada		
6. Description of and Justification for Change (Identify applicable CRs and TBVs): The following evaluations/changes/corrections are posted to correct the conditions identified in CR-10216 and CR 11581. A justification for no impact to results or conclusions of ANL-MGR-GS-000002 REV 03 or any down stream users is included. See attached for a detailed description of each CR.					
CONCURRENCE					
	Printed Name	Signature	Date		
7. Checker	Terry Crump	<i>Terry R. Crump</i>	03/31/2008		
8. QA/QCS Reviewer	Sounia Kassabian Darnell	<i>Sounia K. Darnell</i>	03/31/2008		
APPROVAL					
9. Originator	Cliff Howard	<i>Cliff Howard</i>	3-31-2008		
10. Responsible Manager	Kathryn Knowles For	<i>Paul J</i>	4-1-08		

CR- 10216 Evaluation

I. Background Information Summary:

Error found in Table 7-1 (Technical Product Output) of the approved Analysis Report ANL-MGR-GS-000002, Rev. 03 Characterize Eruptive Processes at Yucca Mountain, Nevada. The recommended value for volcanic tephra fall or ash volume parameter is given as a log-uniform distribution. The correct value is a uniform distribution.

II. Description of Change:

Upon further examination, Table 7-1 of the AMR was found to be correct. There were some errors in Preliminary DTN LA0612DK831811.001, which have been corrected in the Final DTN LA0612DK831811.001. The extent of condition also indicated an editorial error in ANL-MGR-GS-000002 REV 03, Section 6.3.4.4. The description of the distribution of volcanic tephra fall or ash volume is given as a “uniform” instead of “log-uniform”.

Change Section 6.3.4.4, 1st paragraph, last sentence:

From “uniform probability distribution” To “log-uniform probability distribution.”

III. Inputs and/or Software:

There is no change to the input values or to the software.

IV. Impact/Results and Conclusions:

This was a typographical error and the corrected text completes the needed clarification. There is no impact to the results or conclusions of ANL-MGR-GS-000002 REV 03.

CR 11581 Evaluation

I. Background Information Summary:

During the surveillance of three igneous events technical products (Surveillance LQA-IS-08-008), three issues were associated with the AMR ANL-MGR-GS-000002, Rev. 03, Characterize Eruptive Processes at Yucca Mountain, Nevada. This ERD will discuss Issue # 2:

***Issue # 2.** The report TDR-NBS-GS-000016, Data Qualification Report: Data Related to Characterization of Eruptive Processes for Use on the Yucca Mountain Project [DIRS 156980] is identified in DIRS as an indirect input to the AMR. This document is referenced in Section 7 of the AMR, page 7-1, 1st paragraph, as a prominent basis for the AMR. It is not referenced elsewhere in the report. This qualification report is identified in the CDIS as cancelled. The report qualified DTN LA0004FP831811.002. This DTN has been placed behind the TDMS firewall. DTN LA0004FP831811.002 is not used in this report. It should be clarified whether this cancelled qualification report should continue to be referenced. SCI-PRO-005, Attachment 2 requires that the appropriateness of technical product inputs be substantiated.*

II. Description of Change:

Data Qualification Report TDR-NBS-GS-000016 (CRWMS M&O 2000 [156980]) is referenced in Section 7 of the AMR, page 7-1, 1st paragraph, as a prominent basis for the AMR. This cancelled Data Qualification Report (DQR) was carried over by mistake from REV 02 of the main analysis report when the document was revised. This DQR is not used in ANL-MGR-GS-000002 REV 03 and must be removed from the document.

“This report provides technical bases for parameter values that will be used for the TSPA-LA related to the effects of a volcanic eruption through the Yucca Mountain repository. Uncertainties in the output parameters are described in the text as appropriate and summarized in Table 7-1. ~~The information and data in this report are based largely on literature values and simple calculations as described in Section 6 and discussed in *Data Qualification Report: Data Related to Characterization of Eruptive Processes for Use on the Yucca Mountain Project* (CRWMS M&O 2000 [DIRS 156980], p. 17).~~ Other information that indirectly relates to assessment of a potential igneous disruption of the repository and posteruption processes, such as descriptions of the Lathrop Wells volcano, is based on field studies and supporting laboratory analyses.”

Also remove the following reference from Section 8.1 and the DIRS report:

156980 CRWMS M&O 2000. *Data Qualification Report: Data Related to Characterization of Eruptive Processes for Use on the Yucca Mountain Project*. TDR-NBS-GS-000016 REV 00. Las Vegas, Nevada: CRWMS M&O. ACC: MOL.20000810.0002.

III. Inputs and/or Software:

There is no change to the input values or to the software.

IV. Impact/Results and Conclusions:

This was an editorial error and the corrected text completes the needed clarification. There is no impact to the results or conclusions of ANL-MGR-GS-000002 REV 03.

General Note: The resolutions described herein are for the purpose of mitigating the conditions contained in the identified Condition Reports. They are hereby conveyed by this ERD, as a means to notify all users of ANL-MGR-GS-000002 REV 03 of additional data or information that augments the report and should be considered, by way of explanation, part of the report.