

Model CH 5-22-08



**Scientific Analysis/Calculation  
Error Resolution Document**

QA: QA  
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Complete only applicable items.

**INITIATION**

1. Originator: Gordon Keating	2. Date: 05/21/2008	3. ERD No. MDL-MGR-GS-000002 ERD 01
4. Document Identifier: MDL-MGR-GS-000002 REV 03	5. Document Title: Atmospheric Dispersal and Deposition of Tephra from a Potential Volcanic Eruption 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 condition identified in CR-11720. A justification for no impact to the conclusions of MDL-MGR-GS-000002 REV 03 is included. See attached.

Other documents that have been evaluated for impact of the use of MDL-MGR-GS-000002 REV 03 as direct input are:

MDL-WIS-PA-000005 Rev. 00, MiscId 01 TOTAL SYSTEM PERFORMANCE ASSESSMENT MODEL/ANALYSIS FOR THE LICENSE APPLICATION - Volume I

ANL-WIS-MD-000027 Rev. 00 FEATURES, EVENTS, AND PROCESSES FOR THE TOTAL SYSTEM PERFORMANCE ASSESSMENT: ANALYSES

The evaluation reveals no instances in which Section 5.2.4 was cited as an input in another project document. Thus there is no impact to other documents.

**CONCURRENCE**

	Printed Name	Signature	Date
7. Checker	Terry Crump	<i>Terry F. Crump</i>	5/21/2008
8. QCS/QA Reviewer	Sounia Kassabian Darnell	<i>Sounia K. Darnell</i>	05/21/2008

**APPROVAL**

9. Originator	Gordon Keating/ Cliff Howard	<i>Gordon Keating Cliff Howard</i>	5/21/08 5-21-08
10. Responsible Manager	Paul Dixon	<i>Paul Dixon</i>	5-22-08

## **CR-11720 Evaluation**

### **I. Background Information Summary:**

*A typographical error has been found in Section 5.2.4 of the model report MDL-MGR-GS-000002 REV 03 "Atmospheric Dispersal and Deposition of Tephra from a Potential Volcanic Eruption at Yucca Mountain" for the waste particle-size unit. The unit appears in the third paragraph of Section 5.2.4 as 0.2 mm instead of 0.2 cm.*

*The correct dimension is cited elsewhere in the document (Section 6.5.2.16 and Appendix F); also it is cited accurately in the product output DTN: LA0702PADE03GK.002.*

### **III. Description of Change:**

Page 5-6, Section 5.2.4, 3<sup>rd</sup> paragraph, last sentence; change to read:

“The upper bound (0.2 **cm**) represents a typical fragment size from a fractured postservice spent fuel pellet, and the lower bound (1  $\mu\text{m}$ ) recognizes the observed tendency for accretion of sub-micron particles.”

Note: There are no changes required to the DIRS report.

### **IV. Inputs and/or Software:**

There is no change to input values or to software.

### **V. Impact or Conclusions:**

This was a typographical error and the corrected text completes the needed clarification. The error corrected by this ERD has no impact to the results or conclusions of MDL-MGR-GS-000002 REV 03.