



Model Error Resolution Document

QA: QA
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Complete only applicable items.

INITIATION

1. Originator: Alicia Aragon	2. Date: 05/20/08	3. ERD No. MDL-NBS-HS-000023 ERD 02
4. Document Identifier: MDL-NBS-HS-000023 REV 01 AD 01	5. Document Title: Simulation of Net Infiltration for Present-Day and Potential Future Climates	
6. Description of and Justification for Change (Identify applicable CRs and TBVs):		

I Background Information Summary

This ERD addresses CR 12144 which identifies an error in Figure 7.2.1.2-2[a] of *Simulation of Net Infiltration for Present-Day and Potential Future Climates* (MDL-NBS-HS-000023 REV 01 AD 01 [DIRS 182145]).

CR Description (CR 12144)

"In MDL-NBS-HS-000023 REV 01 AD 01 Figure 7.2.1.2-2[a], the y-axis is plotted on a log scale. The minimum value is shown as 0. This should be 0.1. This figure also appears in DTN: SN0801T0502206.049, file "Recharge_models_vs_MASSIF_ver3.xls" on worksheet "Fig7212-2".

Other than the editorial change in the figure, this error has no effect on the output of the MDL-NBS-HS-000023 REV 01 AD 01."

II Inputs and/or Software

No new input sources or software are used in this ERD.

(see attached)

CONCURRENCE

	Printed Name	Signature	Date
7. Checker	Daniel Levitt		5/22/08
8. QCS/QA Reviewer	Sounia Darnell		05/22/2008

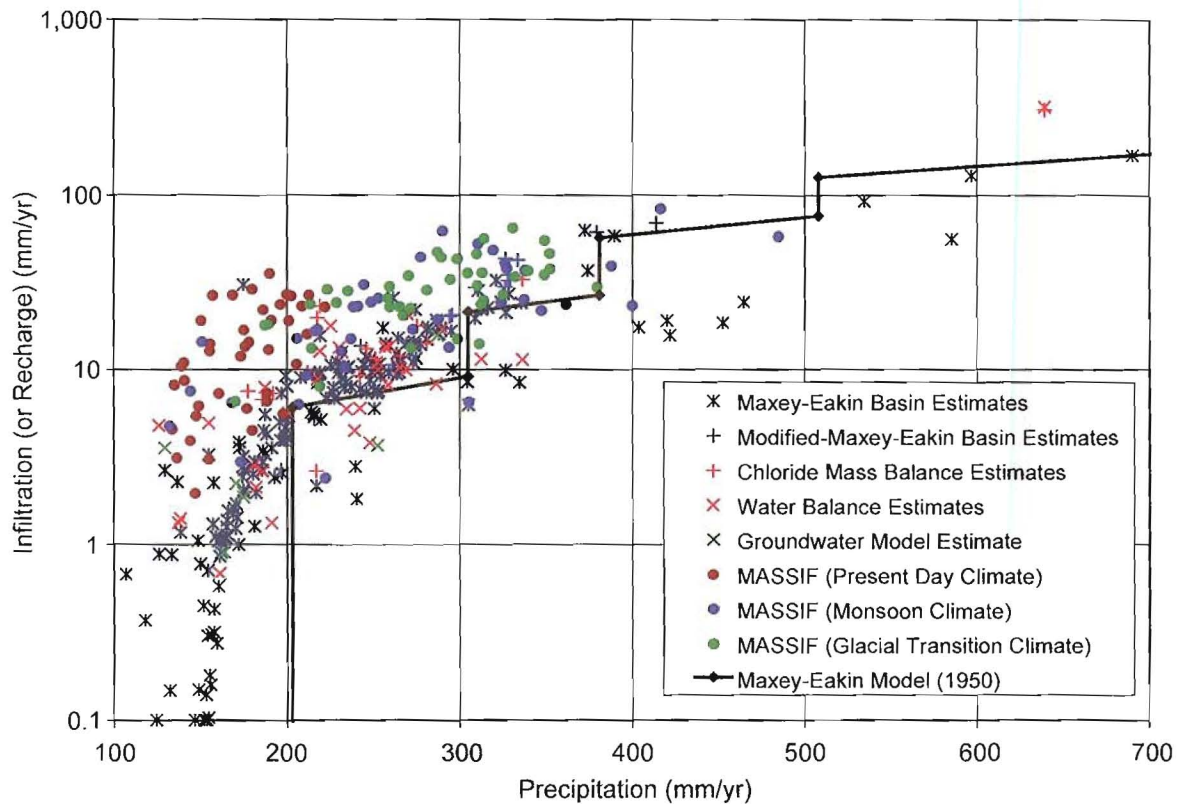
APPROVAL

9. Originator	Alicia Aragon		5/22/08
10. Responsible Manager	Paul Dixon		5-22-08

(Continued from Block 6)

III Analysis and Results

To resolve this issue, Figure 7.2.1.2-2[a] on page 7-52 of MDL-NBS-HS-000023 REV 01 AD 01 is to be replaced with the corrected figure as shown below.



Source: Output DTNs: SN0701T0502206.034, SN0701T0502206.036, and SN0701T0502206.035, respectively (MASSIF results for Present-Day, Monsoon, and Glacial Transition climates). Data are from sources listed for Tables 7.2.1.2-1[a], 7.2.1.2-2[a], 7.2.1.2-3[a], 7.2.1.2-4[a], 7.2.1.2-5[a], and 7.2.1.2-6[a], which are also compiled in validation Output DTN: SN0801T0502206.049.

NOTE: Vertical line that extends to the horizontal axis associated with the Maxey-Eakin Model (1950) represents the precipitation amount below which the model predicts zero recharge.

Figure 7.2.1.2-2[a]. Comparison of Recharge Estimates for Nevada Hydrographic Areas/Subareas with MASSIF Estimates of Net Infiltration at Yucca Mountain

This editorial error is also corrected in Rev 001 to output DTN: SN0801T0502206.049, file: *Recharge_Models_vs_MASSIF_ver4.xls*, worksheet: "Fig7212-2." In Section 9.4[a] on page 9-21 of MDL-NBS-HS-000023 REV 01 AD 01 [DIRS 182145], the submittal date for DTN: SN0801T0502206.049 is to be replaced with 05/22/08 to reflect the revision to the DTN.

IV Impact Evaluation

Because it is editorial in nature, the correction to Figure 7.2.1.2-2[a] of MDL-NBS-HS-000023 REV 01 AD 01 [DIRS 182145] does not impact the conclusions or output from MDL-NBS-HS-000023 REV 01 AD 01 [DIRS 182145]. The DIRS report to MDL-NBS-HS-000023 REV 01 AD 01 [DIRS 182145] does not change, and this editorial correction has no impact on downstream products that cite MDL-NBS-HS-000023 REV 01 AD 01 [DIRS 182145].

Controlled documents that cite MDL-NBS-HS-000023 REV 01 AD 01 [DIRS 182145] include the following:

- ANL-WIS-MD-000024 REV 01: *Postclosure Nuclear Safety Design Bases*
- ANL-WIS-MD-000027 REV 00: *Features, Events, and Processes for the Total System Performance Assessment: Analyses.*
- MDL-NBS-HS-000006 REV 03 AD 01: *UZ Flow Models and Submodels.*
- MDL-WIS-PA-000005 REV 00 AD 01: *Total System Performance Assessment Model/Analysis for the License Application.*
- TDR-PCS-SE-000001 REV 05 AD 01: *Performance Confirmation Plan*
- TDR-WIS-PA-000014 REV 00: *TSPA Information Package for the Draft SEIS.*