From: Chandrika Manepally
Sent: Monday, July 09, 2007 4:26 PM
To: Kaushik Das
Subject: MSTHM - kth properties of rubble

Kaushik
Please check Appendix XI for the calculations related to rubble kth.
This is one of the topics for Appendix 7.

Appendix XI corroborates estimates of the effective dry bulk thermal conductivity of the host-rock rubble in the collapsed drift on the basis of the Kunii and Smith relationship (Kunii and Smith 1960 [DIRS 153166], Equation 8). On the basis of that assessment, a mean value of 0.81 W/m°C is determined for the dry bulk thermal conductivity, with a range of 0.57 to 1.05
W/m°C. The low end of this range (0.57 W/m°C) is very close to the dry bulk thermal conductivity value of 0.5 W/m°C used in low-Kth case. The high end of this range (1.05 W/m°C) is very close to the dry bulk thermal conductivity value of 1.0 W/m°C used in the high-Kth case.

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