

*2/13/02*

**From:** Kevin McGrattan <kevin.mcgrattan@nist.gov>  
**To:** Christopher Bajwa <CSB1@nrc.gov> *NMSS*  
**Date:** Mon, May 13, 2002 2:54 PM  
**Subject:** Re: Fwd: RE: More info. on the Howard Street Tunnel Fire

Christopher Bajwa wrote:

>  
> Kevin,  
>  
> I've never really been sure on the correct value myself. I don't know where the 1.35 value  
> came from.  
>  
> 0.8% grade sounds right...and is right according to the drawings. I've read a lot of different  
> values myself. I think there may have been confusion between slope and grade and  
> percentages.  
>  
> It may affect the smoke travel some...I don't know.  
>  
> Sorry for not providing this piece of information before. I hope that it proves helpful in getting  
> a more accurate calculation.  
>

It will probably reduce the cross flow some, which may  
affect the temps. Good  
example of parameter sensitivity.

Kevin

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Kevin McGrattan  
National Institute of Standards and Technology  
100 Bureau Drive, Stop 8663  
Gaithersburg MD 20899-8663

Telephone: (301) 975 2712  
FAX: (301) 975 4052

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