

**VandenBerghe, Alissa (Consultant)**

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**From:** Harvey W. Parker [harveyparker@compuserve.com]  
**Sent:** Friday, January 30, 2009 2:15 PM  
**To:** Grotefendt, Amy (Consultant)  
**Cc:** Van Ness, Kristy (Consultant); Lenz, KaDeena (Consultant); harveyparker@compuserve.com; Preedy, Matt; Reilly, John; White, John  
**Subject:** RE: Escape and ventilation buildings. Reformatted

**Amy, for some reason when I pressed Queue, some of the bold came out reformatted and with a giant font. I hope this one gets it right.**

**Best regards,  
Harvey**

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Amy, you are on the right track; it is too early to make statements. I have copied your text below and added some edits in **bold**. Although I made some edits on the sentence concerning the two ventilation structures at the portals, I would suggest leaving that sentence out since mentioning a couple of ventilation structures would give a target for more questions. Also the word "ventilation" seems to have a couple of extra letters in it but I did not change them so as not to be confused with what my substantive changes are.

So here are my suggestions in **bold**.

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My apologies for the delay in responding to you. The design of the tunnel is in the very early stages. This means that we don't yet have specific information about the number and location of ventilation structures and emergency exits. **Certainly safety during operation and during emergencies will be given the highest priority. The configuration and design will be in accordance with the most recent guidelines and requirements such as the National Fire Protection Association (NFPA 502), WSDOT, FHWA Standards, the requirements of Seattle's fire marshals, and lessons learned nationally, internationally, as well as recent thinking and lessons learned on our own very safe Mt. Baker Ridge tunnel here in Seattle.**

**Any more detailed information at this time** depends on the specifications of the tunnel ventilation system and modeling of how air quality and flow can best be managed in the tunnel. We also are considering the best options for ventilating the tunnel in the dense urban and residential environment of downtown Seattle, including looking to recent national and international projects. **Currently we anticipate** at least two ventailiation structures, **one** at the north **portal** and **one at the** south portal.

We are also working with the city and county on the best way to involve the downtown neighborhoods in the design of the portals and other tunnel elements. We know regular involvement in the process will result in a better design that balances the community's interests with operating the tunnel.

We will be in touch in the next month to talk with you about our public involvement plans as well as our latest thinking on ventilation and emergency access. In the meantime, if you have any questions please contact me at 206-464-1221.

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Amy, I hope this helps. Call or email me if I can help more.

Best regards,  
Harvey

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**THE FOLLOWING IS AMY'S REQUEST TODAY**

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At 10:32 AM 1/30/2009 -0800, Grotefendt, Amy (Consultant) wrote:

I haven't gotten any feedback yet from Harvey or John so have drafted a proposed very general response below -- please review and send me comments back by 3 p.m. today so this can go out before the weekend. It's now been over two weeks since we got this so we really need to get something back to John.

Thanks

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John --

My apologies for the delay in responding to you. The design of the tunnel is in the very early stages. This means that we don't yet have specific information about the number and location of ventilation structures and emergency exits. This information depends on the specifications of the tunnel ventilation system and modeling of how air quality and flow can best be managed in the tunnel. We also are considering the best options for ventilating the tunnel in the dense urban and residential environment of downtown Seattle, including looking to recent national and international projects. Our plans right now call for two at least two ventilation structures at the north and south portals.

We are also working with the city and county on the best way to involve the downtown neighborhoods in the design of the portals and other tunnel elements. We know regular involvement in the process will result in a better design that balances the community's interests with operating the tunnel.

We will be in touch in the next month to talk with you about our public involvement plans as well as our latest thinking on ventilation and emergency access. In the meantime, if you have any questions please contact me at 206-464-1221.

Thank you,  
Ron

From: Paananen, Ron [ <mailto:PaananR@wsdot.wa.gov> ]  
Sent: Tuesday, January 13, 2009 3:00 PM  
To: White, John; Amy Grotefendt  
Subject: Fw: Escape and ventilation buildings

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From: John Pehrson  
To: Paananen, Ron  
Sent: Tue Jan 13 14:45:51 2009  
Subject: Escape and ventilation buildings

Ron,

I'm assuming the deep bored single tunnel will require one or more personnel escape paths and ventilation buildings. Do you know about where these need to be located? What is the general size and environmental impact?

John Pehrson  
206-441-9913

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