## **MEETING AGENDA**

## **Bored Tunnel Fire Life Safety Meeting**

Date: April 23, 2009 Time: 1:00 PM – 2:30 PM Location: 23<sup>rd</sup> Floor Large Conf Rm Lead: Don Phelps

Attendees: Allen, Archie; Bendelius, Art; Hawkins, Chris; Clark, Gordon T.; Conner, Bill; Everett, Randy; English, Gary; Getchman, Geoffrey; Grace, Kareem; Bandy, Mark; Phelps, Don; Byrd, Russ; Walsh, Wendi; Melvin, Bob; Williamson, Alec; Renshaw, Mark; Diemert, Lois; Lentz, Tom; Tipler, Kenneth; Conte, Rick; Vanantwerp, J Scott

**Purpose**: Review of current tunnel geometry, tunnel systems design criteria, systems space proofing, and current design update

I	Opening	Don Phelps
П	Review of Current Tunnel Geometry	Gordon Clark
III	Tunnel Systems Design Criteria	Chris Hawkins
IV	Systems Space Proofing	Rich Matrisian
V	Current Design Update: Lighting Power Supply Drainage Tunnel Vertilation Fire Suppression Tunnel Dampers	Kareem Grace Kareem Grace Rich Matrisian Chris Hawkins Chris Hawkins Chris Hawkins

## VI Issues To Be Resolved (Significant unresolved FLS issues compiled from last meeting)

- How to do variable message signs (VMS) and other signage factor in SR 99 Bored Tunnel traffic control and emergency evacuation.
- Consider making the tunnel roadway's right shoulder a consistent width and narrow up left shoulder for emergency vehicles.
- Working space is needed for maintenance and equipment; this may be more of a construction issue. Space planning is needed.
- Two-way communication is needed between agencies but interoperability is a problem to be addressed.
- How to get SR 99 Bored Tunnel connected to WSDOT's fiber optic system will be an issue.
- Can maintenance be performed without taking the tunnel out of commission? WSDOT needs to be able to take a system down and still operate the tunnel. This suggests the need for redundant system and equipment.

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- There is a possibility for a need to provide Seattle City Light (SCL) with space to put in transmission lines. It was noted that a vault fire can be very tenacious to fight; it's another fire to fight. As a limited access facility, WSDOT may choose to not go there.
- Emergency generator sizing the generator capacity will be driven by how the tunnel is operated during a city-wide power outage. Traffic could be banned or permitted to use in restricted mode, such as not trucks.
- Construction Phase: Need a tunnel fire rescue plan/ emergency response plan specifically for the tunnel conditions while it is being constructed.
- Consider requirements for reinforcing the tunnel structure against terrorist events.

Action Item: Russ Berger is drafting requirements regarding UL listings for proprietary or central system and will send information to Mark Bandy.