

VandenBerghe, Alissa (Consultant)

From: Thomas, Karen
Sent: Wednesday, April 22, 2009 2:28 PM
To: Clark, Gordon T. (Consultant); Allen, Archie; 'Art Bendelius (bendelius@pbworld.com)'; 'Chris Hawkins'; Conner, Bill (Consultant); Everett, Randy (Consultant); 'Gary English (gary.english@seattle.gov)'; 'Geoffrey Getchman (geoffrey.getchman@seattle.gov)'; 'Kareem Grace (grace@pbworld.com)'; Bandy, Mark; Phelps, Don (Consultant); 'Russ Byrd (russ.byrd@seattle.gov)'; Wendi Walsh (walshwe@pbworld.com); clark@pbworld.com; Bob Melvin (melvin@pbworld.com); Williamson, Alec; Renshaw, Mark; Diemert, Lois (Consultant); Arthur Bendelius (abendelius@agconsultantsinc.com); Lentz, Tom; Kenneth Tipler (kenneth.tipler@seattle.gov)
Cc: Conte, Rick (Consultant); Vanantwerp, J Scott; Lentz, Tom; Fridman, Rita (Consultant); 'Everett, Randolph <FHWA>'
Subject: SR99 Tunnel Fire Life Safety Meeting Agenda for 4/23

Follow Up Flag: Follow up
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Attachments: F&LS Agenda_20090423.doc



F&LS
ja_20090423.doc (7)

Bored Tunnel Fire Life Safety Meeting

Date: April 23, 2009
Time: 1:00 PM – 2:30 PM
Location: 23rd 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

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|------------|--|----------------|
| I | Opening | Don Phelps |
| II | 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 | Kareem Grace |
| | Power Supply | Kareem Grace |

**Drainage
Tunnel Ventilation
Fire Suppression
Tunnel Dampers**

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.
- 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.

Thanks!

Karen Thomas
Admin Assistant III
WSDOT - AWW&SRP
206.267.6844

From: Diemert, Lois (Consultant) **On Behalf Of** Clark, Gordon T. (Consultant)
Sent: Wednesday, February 25, 2009 4:07 PM
To: Allen, Archie; 'Art Bendelius (abendelius@pbworld.com)'; 'Chris Hawkins'; Clark, Gordon T. (Consultant); Conner, Bill (Consultant); Everett, Randy (Consultant); 'Gary English (gary.english@seattle.gov)'; 'Geoffrey Getchman (geoffrey.getchman@seattle.gov)'; 'Kareem Grace (grace@pbworld.com)'; Bandy, Mark; Phelps, Don (Consultant); 'Russ Byrd (russ.byrd@seattle.gov)'; Wendi Walsh (walshwe@pbworld.com); clark@pbworld.com; Bob Melvin (melvin@pbworld.com); Williamson, Alec; Renshaw, Mark; Diemert, Lois (Consultant); Arthur Bendelius (abendelius@agconsultantsinc.com); Lentz, Tom; Kenneth Tipler (kenneth.tipler@seattle.gov)
Cc: Conte, Rick (Consultant); Vanantwerp, J Scott; Lentz, Tom; Fridman, Rita (Consultant); 'Everett, Randolph <FHWA>'

Subject: Fire Life Safety Meeting for SR 99 Tunnel
When: Thursday, April 23, 2009 1:00 PM-2:30 PM (GMT-08:00) Pacific Time (US & Canada).
Where: Alaskan Way Viaduct Program Offices, 999 Third Ave, Suite 2300, Seattle, WA 98104, in 23 Large

This meeting will be a shorter meeting than usual.