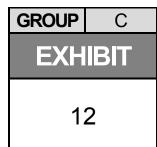


NATIONAL TRANSPORTATION SAFETY BOARD Investigative Hearing

Washington Metropolitan Area Transit Authority Metrorail train 302 that encountered heavy smoke in the tunnel between the L'Enfant Plaza Station and the Potomac River Bridge on January 12, 2015



Agency / Organization

WMATA

Title

Tunnel Leak Inspection Report 2011, L'Enfant Plaza to L'Enfant Plaza Portal



TUNNEL LEAK INSPECTION REPORT

F03 L'Enfant Plaza to L'Enfant Plaza Portal OB (3,800

Ft)

Inspected By: Eric Krist* Date Inspected: 3/25/2011 Report Generated:				25/2011
	Active water leaks (severe) elements such as: rail, rail fasteners, lights fixtures, et	fasteners, and other track components	nd premature loss of service life to current s, switch hardware, hand railing, safety gra	operating system b rails, fire line, cable
			ninute, which leak into the tunnel, but aren It operating systems due to moisture and h	
Category 3 - T	Tunnel Water Leaks (DAN	/IP AREAS)		
CHAIN MARKER	TUNNEL AREA 3R CRN SW INV	COMPONENTS AFFECTED W L HW SW R FL	Location & CATEGORY DRAIN 1, 2 OR 3 SIZE	REMARKS
92+40	X		2	cold jt.
88+80	Х		3	cold jt.
88+30	X X	X X X	1	Leaking on running rail (see attached file for e-mail sent 3-26-11) See Photo(s): 1, 2, 3, 4
87+30	Х		3	
77+25	Х		3	
70+60	Х	X	1	Tunnel changes from concrete to steel
70+15	Х	Х	1	
70+10	Х	Х	1	
69+70	Х	Х	1	
3R=3rd rail R=rail	INV=invert area CRN=Crown	HW=Track hardware L=Lights	SW=Safety walk Area FL=Fire line	W=wire
CHAIN MARKER	TUNNEL AREA 3R CRN SW INV	COMPONENTS AFFECTED W L HW SW R FL	Location & CATEGORY DRAIN 1, 2 OR 3 SIZE	REMARKS
		THINK SAFETY	FIRST	



TUNNEL LEAK INSPECTION REPORT

F03 L'Enfant Plaza to L'Enfant Plaza Portal OB (3,800

Inspected E	3y: Eric Krist*			Date Inspected: 3/25/2011 Report Generated:			
Category 1 -	Active water leaks (severe elements such as: rail, rail fasteners, lights fixtures, et	fasteners, and other track	g damage and components, s	premature loss of ser witch hardware, hand	vice life to current d railing, safety gra	operating system ab rails, fire line, cable	
Category 2 -	Active or seasonal water le damage to a element, but	aks with a volume less th will reduce the service life	an 30 drips/min of the current c	ute, which leak into the perating systems due	he tunnel, but aren e to moisture and h	't directly causing numidity.	
Category 3 - ⁻	Funnel Water Leaks (DAI	MP AREAS)					
CHAIN MARKER	TUNNEL AREA 3R CRN SW INV	COMPONENTS AF		Location & DRAIN SIZE	CATEGORY 1, 2 OR 3	REMARKS	
69+30	X	x x			1		
67+70	Х	X			1		
6+10	Х				3		
52+90	Х	X X			1		
3R=3rd rail R=rail	INV=invert area CRN=Crown	HW=Track L=Lights		SW=Safety wall FL=Fire line		W=wire	
CHAIN MARKER	TUNNEL AREA 3R CRN SW INV	COMPONENTS AF		Location & DRAIN SIZE	CATEGORY 1, 2 OR 3	REMARKS	
		THINK S	AFETY F	IRST			
			2				



TUNNEL LEAK INSPECTION REPORT

F03 L'Enfant Plaza to L'Enfant Plaza Portal OB (3,800

Inspected By: Eric Krist*		Date Inspected: 3/25/2011 Report Generated:		25/2011	
Category 1 -	Active water leaks (severe)	which are directly causing damage and	d premature loss of se	vice life to current	operating system
	elements such as: rail, rail fasteners, and other track components, switch hardware, hand railing, safety grab rails, fire line, cable fasteners, lights fixtures, etc.				
Category 2 -	Category 2 - Active or seasonal water leaks with a volume less than 30 drips/minute, which leak into the tunnel, but aren't directly causing damage to a element, but will reduce the service life of the current operating systems due to moisture and humidity.				
Category 3 - ⁻	Funnel Water Leaks (DAN	/IP AREAS)			
CHAIN MARKER	TUNNEL AREA 3R CRN SW INV	COMPONENTS AFFECTED W L HW SW R FL	Location & DRAIN SIZE	CATEGORY 1, 2 OR 3	REMARKS

3R=3rd rail	INV=invert area	HW=Track hardware	SW=Safety walk	< Area	W=wire
R=rail	CRN=Crown	L=Lights	FL=Fire line		
CHAIN MARKER	TUNNEL AREA 3R CRN SW INV	COMPONENTS AFFECTED W L HW SW R FL	Location & DRAIN SIZE	CATEGORY 1, 2 OR 3	REMARKS
THINK SAFETY FIRST					



TUNNEL LEAK INSPECTION REPORT

F03 L'Enfant Plaza to L'Enfant Plaza Portal OB (3,800

Inspected By: Eric Krist*		Date Inspected: 3/25/2011 Report Generated:		25/2011	
Category 1 -	Active water leaks (severe)	which are directly causing damage and	d premature loss of se	vice life to current	operating system
	elements such as: rail, rail fasteners, and other track components, switch hardware, hand railing, safety grab rails, fire line, cable fasteners, lights fixtures, etc.				
Category 2 -	Category 2 - Active or seasonal water leaks with a volume less than 30 drips/minute, which leak into the tunnel, but aren't directly causing damage to a element, but will reduce the service life of the current operating systems due to moisture and humidity.				
Category 3 - ⁻	Funnel Water Leaks (DAN	/IP AREAS)			
CHAIN MARKER	TUNNEL AREA 3R CRN SW INV	COMPONENTS AFFECTED W L HW SW R FL	Location & DRAIN SIZE	CATEGORY 1, 2 OR 3	REMARKS

3R=3rd rail	INV=invert area	HW=Track hardware	SW=Safety wall	k Area	W=wire
R=rail	CRN=Crown	L=Lights	FL=Fire line		
CHAIN MARKER	TUNNEL AREA 3R CRN SW INV	COMPONENTS AFFECTED W L HW SW R FL	Location & DRAIN SIZE	CATEGORY 1, 2 OR 3	REMARKS
THINK SAFETY FIRST					



TUNNEL LEAK INSPECTION REPORT

F03 L'Enfant Plaza to L'Enfant Plaza Portal OB (3,800

Inspected By: Eric Krist*				nspected: 3/2 rt Generated:	25/2011
	elements such as: rail, rail fasteners, lights fixtures, et Active or seasonal water le) which are directly causing damage and fasteners, and other track components, c. waks with a volume less than 30 drips/m will reduce the service life of the current	switch hardware, hand	d railing, safety gra ne tunnel, but aren	b rails, fire line, cable 't directly causing
Category 3 - ⁻	Funnel Water Leaks (DAN	MP AREAS)			
CHAIN MARKER	TUNNEL AREA 3R CRN SW INV	COMPONENTS AFFECTED W L HW SW R FL	Location & DRAIN SIZE	CATEGORY 1, 2 OR 3	REMARKS

3R=3rd rail R=rail	INV=invert area CRN=Crown	HW=Track hardware L=Lights	SW=Safety walk FL=Fire line	Area	W=wire
CHAIN MARKER	TUNNEL AREA 3R CRN SW INV	COMPONENTS AFFECTED W L HW SW R FL	Location & DRAIN SIZE	CATEGORY 1, 2 OR 3	REMARKS
THINK SAFETY FIRST					



TUNNEL LEAK INSPECTION REPORT

F03 L'Enfant Plaza to L'Enfant Plaza Portal OB (3,800

Inspected By: Eric Krist*				Inspected: 3/2 rt Generated:	25/2011
Category 1 -		which are directly causing damage and fasteners, and other track components, c.			
Category 2 -		aks with a volume less than 30 drips/mi will reduce the service life of the current			
Category 3 -	Funnel Water Leaks (DAN	/IP AREAS)			
CHAIN MARKER	TUNNEL AREA 3R CRN SW INV	COMPONENTS AFFECTED W L HW SW R FL	Location & DRAIN SIZE	CATEGORY 1, 2 OR 3	REMARKS



3R=3rd rail R=rail	INV=invert area CRN=Crown	HW=Track hardware L=Lights	SW=Safety walk Area FL=Fire line	W=wire	
CHAIN MARKER	TUNNEL AREA 3R CRN SW INV	COMPONENTS AFFECTED W L HW SW R FL	Location & CATEGORY DRAIN 1, 2 OR 3 SIZE	REMARKS	
THINK SAFETY FIRST					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY L Line Tunnel Leaks Track 2 OB (6,100 Ft) - F03 L'Enfant Plaza to L'Enfant Plaza Portal OB (3,800 Ft)



Photo 1 L2 88+30



Photo 2 L2 88+30

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY L Line Tunnel Leaks Track 2 OB (6,100 Ft) - F03 L'Enfant Plaza to L'Enfant Plaza Portal OB (3,800 Ft)



Photo 3 L2 88+30



Photo 4 L2 88+30