

DCA-15-MR-010
Passenger Train Derailment
Philadelphia, PA
May 12, 2015

SIGNAL ATTACHMENT 42

Shore WBA Insulation Resistance (2) 236.108


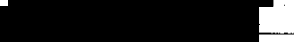


Record of Insulation Resistance C&S 2.0

NOTE: Use 8 1/2 "x 14" legal size paper when printing out this form!

Division: MAD	Location: SHORE	From: WRA	To: WBR
Date Installed: 1988	Manufacturer: ROCKBESTIS	Year Manufactured: 1982	Specification: 57C COMPOSITE

Cable Designation		List Insulation Resistance Values to Ground	List Insulation Resistance Values of Cross	Remarks
CDK	Circuit Nomenclature			
01	W100BX110ER	INF	INF	
02	W100BX110ER	INF	INF	
03	100BX110WR	INF	INF	
04	100BX110WR	INF	INF	
05	SPARE	INF	INF	
06	SPARE	4M	INF	
07	4WAR	INF	INF	
08	3WAR	INF	INF	
09	SPARE	INF	INF	
10	1DS POS	INF	INF	
11	1DS NEG	INF	INF	
12	1TM POS	INF	INF	
13	1TM NEG	INF	INF	
14	2DS POS	INF	INF	
15	2 DS NEG	INF	INF	
16	2TM POS	INF	INF	
17	2TM NEG	INF	INF	
18	2WCC	INF	INF	
19	N2WCC	INF	INF	
20	4BDF	INF	INF	
21	N4WBDF	INF	INF	
22	SPARE	INF	INF	
23	3DS POS	INF	INF	
24	3DS NEG	INF	INF	
25	3TM POS	INF	INF	
26	3TM NEG	5M	INF	
27	3WCC	INF	INF	
28	N3WCC	INF	INF	
29	SPARE	INF	INF	
30	3WAR	30M	INF	
31	2BDF	INF	INF	
32	N3BDF	INF	INF	
33	SPARE	INF	INF	
34	4DS POS	INF	INF	
35	4DS NEG	INF	INF	
36	4TM POS	INF	INF	
37	4TM NEG	INF	INF	
38	4WCC	INF	INF	
39	N4WCC	INF	INF	
40	SPARE	INF	INF	
41	SPARE	INF	INF	
42	SPARE	INF	INF	
43	SPARE	INF	INF	
44	SPARE	INF	INF	
45	C2	INF	INF	
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Signature:  Date Meggered: 8-08
 Signature:  Date Meggered: 8-09

- Instructions:
- List circuit nomenclature for each working conductor.
 - Document working conductors 1 meg or below on form NRPC 3081, C&S 2.3, and list 500,000 or below on form NRPC 2935, C&S 1A.
 - Indicate conductors that are spare.
 - Two signatures required.



Record of Insulation Resistance C&S 2.0

NOTE: Use 8 1/2 "x 14" legal size paper when printing out this form!

Division: MAD		Location: SHORE		From: WBA		To: WBB	
Date Installed: 2008		Manufacturer: OKINITE		Year Manufactured: 2006		Specification: 37C	
Cable Designation		List Insulation Resistance Values to Ground	List Insulation Resistance Values of Cross	Remarks			
CDR	Circuit Nomenclature						
01	SPARE	INF	INF				
02	SPARE	INF	INF				
03	SPARE	INF	INF				
04	SPARE	INF	INF				
05	EIDP	INF	INF				
06	NIEDP	INF	INF				
07	1E1T2P	INF	INF				
08	N1E1T2P	INF	INF				
09	SPARE	INF	INF				
10	SPARE	INF	INF				
11	1WAHP	INF	INF				
12	N1WAHP	INF	INF				
13	1WBHAFP	INF	INF				
14	N1WBHAFP	INF	INF				
15	1WBHAP	INF	INF				
16	N1WBHAP	INF	INF				
17	1WADP	INF	INF				
18	N1WADP	INF	INF				
19	1WBDP	INF	INF				
20	N1WBDP	INF	INF				
21	1WBNP	INF	INF				
22	N1WBNP	INF	INF				
23	1WHD2P	INF	INF				
24	N1WHD2P	INF	INF				
25	1WRG2P	INF	INF				
26	N1WRG2P	INF	INF				
27	ELB12	INF	INF				
28	ELB12	INF	INF				
29	INF	INF	INF				
30	ELN12	INF	INF				
31	ELN12	INF	INF				
32	ELN12	INF	INF				
33	SPARE	INF	INF				
34	SPARE	INF	INF				
35	SPARE	INF	INF				
36	SPARE	INF	INF				
37	SPARE	INF	INF				
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Signature:				Date Meggered: 8/08			
Signature:				Date Meggered: 8-08			
Instructions:							
1. List circuit nomenclature for each working conductor.				3. Indicate conductors that are spare.			
2. Document working conductors 1 meg or below on form NRPC 3081, C&S 2.3, and list 500,000 or below on form NRPC 2935, C&S 2A.				4. Two signatures required.			

AMTRAK RECORD OF INSULATION RESISTANCE C&S 2.0

DIVISON		LOCATION	FROM:	TO
MID-ATLANTIC		SHORE	WBA LOC	814 LOC
DATE INSTALLED:		MANUFACTURER	YEAR MANUFACTURED:	SPECIFICATION
				37c/14
		LIST INSULATION RESISTANCE VALUES TO GROUND	LIST INSULATION RESISTANCE VALUES OF CROSS	CABLE DESIGNATION:
CDR	CRT. NOMENCLATURE			REMARKS:
1	1WDEDP	INF	INF	
2	N1WDEDP	INF	INF	
3	SP	INF	INF	
4	SP	INF	INF	
5	2WDEDP	INF	INF	
6	N2WDEDP	INF	INF	
7	SP	INF	INF	
8	SP	INF	INF	
9	3WDEDP	INF	INF	
10	N3WDEDP	INF	INF	
11	SP	INF	INF	
12	SP	INF	INF	
13	4WDEDP	INF	INF	
14	N4WDEDP	INF	INF	
15	SP	INF	INF	
16	SP	INF	INF	
17	SP	INF	INF	
18	SP	INF	INF	
19	SP	INF	INF	
20	SP	INF	INF	
21	SP	INF	INF	
22	SP	INF	INF	
23	SP	INF	INF	
24	SP	INF	INF	
25	SP	INF	INF	
26	SP	INF	INF	
27	SP	INF	INF	
28	SP	INF	INF	
29	SP	INF	INF	
30	EMERG 110+	INF	INF	
31	EMERG 110+	INF	INF	
32	EMERG 110+	INF	INF	
33	EMERG 110+	INF	INF	
34	EMERG 110 NEG	INF	INF	
35	EMERG 110 NEG	INF	INF	
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SIGNATURE	T. SMITH	DATE MEGGERED: 4/26/2012
SIGNATURE	R. NAGLE	DATE MEGGERED: 4/26/2012

1. INDICATE CONDUCTORS THAT ARE SPARE. 2. UNDERLINE WORKING CONDUCTORS 1 MEG OR BELOW IN RED, AND LIST 500,000 OR BELOW ON FORM C.&S. 2A. 3. INDICATE CONDUCTORS THAT ARE SPARE. 4. TWO SIGNATURES REQUIRED.

AMTRAK RECORD OF INSULATION RESISTANCE C&S 2.0

DIVISION		LOCATION	FROM:	TO:
MID-ATLANTIC		SHORE	LOC WBA	LOC B
DATE INSTALLED:		MANUFACTURER	YEAR MANUFACTURED:	SPECIFICATION
				37C/14
CDR CRT. NOMENCLATURE		LIST INSULATION RESISTANCE VALUES TO GROUND	LIST INSULATION RESISTANCE VALUES OF CROSS	CABLE DESIGNATION: REMARKS:
1	SP	INF	INF	
2	SP	INF	INF	
3	SP	INF	INF	
4	SP	INF	INF	
5	SP	INF	INF	
6	SP	INF	INF	
7	SP	INF	INF	
8	SP	INF	INF	
9	SP	INF	INF	
10	SP	INF	INF	
11	SP	INF	INF	
12	SP	INF	INF	
13	SP	INF	INF	
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SIGNATURE: R. NAGLE DATE MEGGERED: 7/24/2012

SIGNATURE: T SMITH DATE MEGGERED: 7/24/2012

NOTES: 1. LIST NOMENCLATURE FOR EACH WORKING CONDUCTOR. 2. UNDERLINE WORKING CONDUCTORS 1 MEG OR BELOW IN RED, AND LIST 500,000 OR BELOW ON FORM C.&S. 2A. 3. INDICATE CONDUCTORS THAT ARE SPARE. 4. TWO SIGNATURES REQUIRED.

AMTRAK RECORD OF INSULATION RESISTANCE C&S 2.0

DIVISION		LOCATION	FROM:	TO:
MID-ATLANTIC		SHORE	WBA	2W (A ARM)
DATE INSTALLED:		MANUFACTURER	YEAR MANUFACTURED:	SPECIFICATION
				7c9
		LIST INSULATION RESISTANCE VALUES TO GROUND	LIST INSULATION RESISTANCE VALUES OF CROSS	CABLE DESIGNATION:
CDR	CRT. NOMENCLATURE			REMARKS:
1	2WADE	INF.	INF.	
2	2WAHAE	INF.	INF.	
3	2WAHBE	INF.	INF.	
4	2WSAE	INF.	INF.	
5	2WSBE	INF.	INF.	
6	ENX1-2W	INF.	INF.	
7	ENX2-2W	INF.	INF.	
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SIGNATURE: R. GAVIN		DATE MEGGERED: 2/16/2013		
SIGNATURE: E. TURNER		DATE MEGGERED: 2/16/2013		
NOTES: 1. LIST NOMENCLATURE FOR EACH WORKING CONDUCTOR. 3. INDICATE CONDUCTORS THAT ARE SPARE. 2. UNDERLINE WORKING CONDUCTORS 1 MEG OR BELOW IN RED, 4. TWO SIGNATURES REQUIRED. AND LIST 500,000 OR BELOW ON FORM C.&S. 2A.				

AMTRAK RECORD OF INSULATION RESISTANCE C&S 2.0


DIVISION		LOCATION	FROM:	TO:
MID-ATLANTIC		SHORE	WBA	2W (B ARM)
DATE INSTALLED:		MANUFACTURER	YEAR MANUFACTURED:	SPECIFICATION
				5c9
		LIST INSULATION RESISTANCE VALUES TO GROUND	LIST INSULATION RESISTANCE VALUES OF CROSS	CABLE DESIGNATION:
CDR	CRT. NOMENCLATURE			REMARKS:
1	2WBDE	3M	3M	
2	2WBHAE	3M	3M	
3	2WBHBE	3M	3M	
4	2WBNE	10M	10M	
5	SPARE	10M	10M	
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SIGNATURE: R. GAVIN [REDACTED] DATE MEGGERED: 2/16/2013
SIGNATURE: T. ANNUNZIO [REDACTED] DATE MEGGERED: 2/16/2013

2. UNDERLINE WORKING CONDUCTORS 1 MEG OR BELOW IN RED, 4. TWO SIGNATURES REQUIRED.
AND LIST 500,000 OR BELOW ON FORM C.&S. 2A.

AMTRAK RECORD OF INSULATION RESISTANCE C&S 2.0

DIVISION		LOCATION	FROM:	TO:
MID-ATLANTIC		SHORE	WBA Loc.	3W (A ARM)
DATE INSTALLED:		MANUFACTURER	YEAR MANUFACTURED:	SPECIFICATION
				7c9
		LIST INSULATION RESISTANCE VALUES TO GROUND	LIST INSULATION RESISTANCE VALUES OF CROSS	CABLE DESIGNATION: REMARKS:
CDR	CRT. NOMENCLATURE			
1	3WADE	55M	55M	
2	3WAHE	40M	40M	
3	3WAHBE	INF.	INF.	
4	3WSAE	30M	30M	
5	3WSBE	30M	30M	
6	ENX1-3W	30M	30M	
7	ENX2-3W	30M	30M	
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SIGNATURE: R. GAVIN  DATE MEGGERED: 2/16/2013

SIGNATURE: E. TURNER  DATE MEGGERED: 2/16/2013

2. UNDERLINE WORKING CONDUCTORS 1 MEG OR BELOW IN RED, 4. TWO SIGNATURES REQUIRED.
AND LIST 500,000 OR BELOW ON FORM C.&S. 2A.

AMTRAK RECORD OF INSULATION RESISTANCE C&S 2.0

DIVISION		LOCATION	FROM:	TO:
MID-ATLANTIC		SHORE	WBA Loc.	3W (B ARM)
DATE INSTALLED:		MANUFACTURER	YEAR MANUFACTURED:	SPECIFICATION
				5c9
		LIST INSULATION RESISTANCE VALUES TO GROUND	LIST INSULATION RESISTANCE VALUES OF CROSS	CABLE DESIGNATION:
CDR	CRT. NOMENCLATURE			REMARKS:
1	3WBDE	30M	30M	
2	3WBHAE	30M	30M	
3	3WBNE	30M	30M	
4	SPARE	INF.	INF.	
5	SPARE	INF.	INF.	
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SIGNATURE: R. GAVIN		DATE MEGGERED: 2/16/2013		
SIGNATURE: T. ANNUNZIO		DATE MEGGERED: 2/16/2013		
NOTES: 1. LIST NOMENCLATURE FOR EACH WORKING CONDUCTOR. 3. INDICATE CONDUCTORS THAT ARE SPARE. 2. UNDERLINE WORKING CONDUCTORS 1 MEG OR BELOW IN RED, 4. TWO SIGNATURES REQUIRED. AND LIST 500,000 OR BELOW ON FORM C.&S. 2A.				

AMTRAK RECORD OF INSULATION RESISTANCE C&S 2.0

DIVISION		LOCATION	FROM:	TO:
MID-ATLANTIC		SHORE	WBA Loc.	4W (A ARM)
DATE INSTALLED:		MANUFACTURER	YEAR MANUFACTURED:	SPECIFICATION
				7c9
		LIST INSULATION RESISTANCE VALUES TO GROUND	LIST INSULATION RESISTANCE VALUES OF CROSS	CABLE DESIGNATION:
CDR	CRT. NOMENCLATURE			REMARKS:
1	4WADE	35M	35M	
2	4WAHAE	35M	35M	
3	4WAHBE	INF.	INF.	
4	4WSAE	30M	30M	
5	4WSBE	30M	30M	
6	ENX1-4W	30M	30M	
7	ENX2-4W	30M	30M	
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SIGNATURE: R. GAVIN [REDACTED] DATE MEGGERED: 2/16/2013

SIGNATURE: E. TURNER [REDACTED] DATE MEGGERED: 2/16/2013

NOTES: 1. LIST NOMENCLATURE FOR EACH WORKING CONDUCTOR. 2. UNDERLINE WORKING CONDUCTORS 1 MEG OR BELOW IN RED, AND LIST 500,000 OR BELOW ON FORM C.&S. 2A. 3. INDICATE CONDUCTORS THAT ARE SPARE. 4. TWO SIGNATURES REQUIRED.

AMTRAK RECORD OF INSULATION RESISTANCE C&S 2.0

DIVISION		LOCATION	FROM:	TO:
MID-ATLANTIC		SHORE	WBA Loc.	4W (B ARM)
DATE INSTALLED:		MANUFACTURER	YEAR MANUFACTURED:	SPECIFICATION
				5c9
		LIST INSULATION RESISTANCE VALUES TO GROUND	LIST INSULATION RESISTANCE VALUES OF CROSS	CABLE DESIGNATION:
CDR	CRT. NOMENCLATURE			REMARKS:
1	4WBHAE	30M	30M	
2	4WBNE	INF.	INF.	
3	SPARE	INF.	INF.	
4	SPARE	30M	30M	
5	SPARE	INF.	INF.	
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SIGNATURE: R. GAVI [REDACTED]		DATE MEGGERED: 2/16/2013		
SIGNATURE: T. ANNUNZIO [REDACTED]		DATE MEGGERED: 2/16/2013		
NOTES: 1. LIST NOMENCLATURE FOR EACH WORKING CONDUCTOR. 3. INDICATE CONDUCTORS THAT ARE SPARE. 2. UNDERLINE WORKING CONDUCTORS 1 MEG OR BELOW IN RED, 4. TWO SIGNATURES REQUIRED. AND LIST 500,000 OR BELOW ON FORM C.&S. 2A.				