

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

## SIGNAL ATTACHMENT 33

Shore A Relays (4) 236.102A, 105, 106

SHORE A LOCATION SHEET - 1

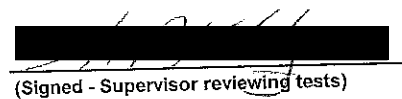
AMTRAK RECORD SHEET

Date of installed or Transferred	Location with designating or track number	Type or Model	Mfr	Resistance	Serial Number	Dates Tested	Date overhauled	Initial charge	Neutral				Polar				Maximum contact resistance	Local voltage	contact opening	Shop or field test	Inspector		
									Dropaway		Pickup		Working current or voltage		Pickup							Working current or voltage	
									Normal	Reverse	Normal	Reverse	Normal	Reverse	Normal	Reverse						Normal	Reverse
	1WDSR	DP14	USS	1000	H87351	01/20/14	88	OK	3.1V	3.1V	5.4V	5.4V	6.1V	6.1V	3.3V	3.3V				F	WL		
	2WDSR	DP14	USS	1000	U77770	01/20/14	88	OK	3.2V	3.2V	5.6V	5.6V	6.3V	6.3V	3.4V	3.4V				F	WL		
	3WDSR	DP14	USS	1000	S4900	01/20/14	88	OK	3.3V	3.3V	5.7V	5.7V	6.4V	6.4V	3.5V	3.5V				F	WL		
	4WDSR	DP14	USS	1000	H53639	01/20/14	88	OK	3.2V	3.2V	5.5V	5.5V	6.3V	6.3V	3.4V	3.4V				F	WL		
	180CT	PC250	USS	NA	3284034	01/20/14	88	OK					7.1V							F	WL		
	120CT	PC250	USS	NA	3384522	01/20/14	88	OK					7.0V							F	WL		
	75CT	PC250	USS	NA	338417	01/20/14	88	OK					6.9V							F	WL		

Distribution: White: File copy  
 Pink: To be retained at location of test  
 Yellow: To be forwarded to responsible ADE-C&S Office



1/20/14  
Date

  
 (Signed - Supervisor reviewing tests)

INSA  
3/28/14  
Title Date

\* Shop Test only

\*\* Date indicates index registration plate verified for each plug-in relay

SHORE A LOCATION  
SHEET - 2

AMTRAK  
RECORD SHEET

Date of Installed or Transferred	Location with designating or track number	Type or Model	Mfr	Resistance	Serial Number	Dates Tested	Date overhauled	Initial charge	Neutral				Polar				Maximum contact resistance	Local voltage	contact opening	Shop or field test	Inspector		
									Dropaway		Pickup		Working current or voltage		Pickup							Working current or voltage	
									Normal	Reverse	Normal	Reverse	Normal	Reverse	Normal	Reverse						Normal	Reverse
	2EFLR	E-1	ST	500	11055	01/17/12	89	OK					8VDC						F	WL			
	2EFLCR	DN11	USS	1000	L904330	01/17/12	89	OK	3.4V		5.3V		5.3V						F	WL			
	3EFLR	E-1	ST	500	11054	01/17/12	89	OK					8VDC						F	WL			
	3EFLCR	DN11	USS	1000	M78667	01/17/12	88	OK	3.2V		5.3V		5.3V						F	WL			
	4EFLR	E-1	ST	500	11060	01/17/12	89	OK					8VDC						F	WL			
	4EFLCR	DN11	USS	1000	B16176	01/17/12	90	OK	3.0V		5.3V		5.3V						F	WL			
	EHAPR	DN11	USS	1000	L518661	01/17/12	89	OK	2.9V		5.3V		5.3V						F	WL			
	5EDPR	DN11	USS	1000	B34836	01/17/12	89	OK	3.0V		5.1V		5.1V						F	WL			
	5EBHBPR	DN11	USS	1000	L898229	01/17/12	78	OK	2.9V		5.0V		5.0V						F	WL			
	5ERGPR	DN11	USS	1000	L894543	01/17/12	87	OK	2.9V		4.9V		4.9V						F	WL			
	6EHBPR	DN11	USS	1000	L25131	01/17/12	89	OK	2.8V		4.9V		4.9V						F	WL			

Distribution: White: File copy  
 Pink: To be retained at location of test  
 Yellow: To be forwarded to responsible ADE-C&S Office

  
 Signature of maintainer performing tests

1/17/12  
 Date

\* Shop Test only

\* Date indicates index registration plate verified for each plug-in relay

  
 Title

ca's  
 TASP  
 Title


3/7/12  
 Date

Date of Installed or Transferred	Location with designating or track number	Type or Model	Mfr	Resistance	Serial Number	Dates Tested	Date overhauled	Initial charge	Neutral				Polar				Maximum contact resistance	Local voltage	contact opening	Shop or field test	Inspector		
									Dropaway		Pickup		Working current or voltage		Pickup							Working current or voltage	
									Normal	Reverse	Normal	Reverse	Normal	Reverse	Normal	Reverse						Normal	Reverse
	1EAHPR	DN11	USS	500	E23684	01/17/12	90	OK	2.8V		4.9V		4.9V						F	WL			
	1EBHAFPR	DN11	USS	1000	R5518	01/17/12	90	OK	2.8V		5.0V		5.0V						F	WL			
	1EBDPR	DN11	USS	500	N96846	01/17/12	90	OK	3.0V		5.1V		5.1V						F	WL			
	1EBNPR	DN11	USS	1000	N27592	01/17/12	90	OK	2.9V		5.0V		5.0V						F	WL			
	1EHDPDR	DN11	USS	1000	Y84755	01/17/12	88	OK	2.9V		5.0V		5.0V						F	WL			
	1ERGPDR	DN11	USS	1000	570144	01/17/12	89	OK	3.0V		5.2V		5.2V						F	WL			
	2EAHPR	DN11	USS	500	M71005	01/17/12	89	OK	3.1V		5.3V		5.3V						F	WL			
	2EBHAFPR	DN11	USS	1000	G26324	01/17/12	88	OK	2.9V		5.0V		5.0V						F	WL			
	2EDPR	DN11	USS	500	S82600	01/17/12	80	OK	2.9V		5.0V		5.0V						F	WL			
	2EBNPR	DN11	USS	1000	H71779	01/17/12	89	OK	3.0V		5.1V		5.1V						F	WL			
	2EHDPDR	DN11	USS	1000	L24594	01/17/12	88	OK	3.0V		5.1V		5.1V						F	WL			
	2ERGPDR	DN11	USS	1000	N14715	01/17/12	89	OK	3.0V		5.1V		5.1V						F	WL			
	3EAHPR	DN11	USS	1000	L935581	01/17/12	89	OK	2.9V		5.0V		5.0V						F	WL			
	3EBHAFPR	DN11	USS	1000	N79157	01/17/12	90	OK	2.9V		4.9V		4.9V						F	WL			
	3EDPR	DN11	USS	500	H65526	01/17/12	89	OK	3.1V		5.2V		5.2V						F	WL			
	3EBNPR	DN11	USS	1000	P21850	01/17/12	89	OK	3.0V		5.1V		5.1V						F	WL			

Distribution: White: File copy  
 Pink: To be retained at location of test  
 Yellow: To be forwarded to responsible ADE-C&S Office

  
 Signature of maintainer performing tests

1/17/12  
 Date

  
 (Signed - Supervisor reviewing tests)

ces  
 Insp.  
 Title

3/7/12  
 Date

\* Shop Test only

\*\* Date indicates index registration plate verified for each plug-in relay

Date of Installed or Transferred	Location with designating or track number	Type or Model	Mfr	Resistance	Serial Number	Dates Tested	Date overhauled	Initial charge	Neutral						Polar				Maximum contact resistance	Local voltage	contact opening	Shop or field test	Inspector	
									Dropaway		Pickup		Working current or voltage		Pickup		Working current or voltage							
									Normal	Reverse	Normal	Reverse	Normal	Reverse	Normal	Reverse	Normal	Reverse						
	5W1TR	PN150B	USS	2000	9989493	01/18/12	83	OK	10MA		13MA		13MA										F	WL
	5TR	PN150B	USS	2000	1684150	01/18/12	84	OK	10MA		13MA		13MA										F	WL
	1TRA	B1	GRS	500	1820413	01/18/12	84	OK	7MA		11MA		11MA										F	WL
	2TRA	B1	GRS	500	42463F239	01/18/12	86	OK	7MA		11MA		11MA										F	WL
	5TRA	B1	GRS	500	I83T23	01/18/12	83	OK	7MA		11MA		11MA										F	WL
	1EORJR	B1	GRS	500	I82Y17	01/18/12	82	OK	7MA		11MA		11MA										F	WL
	2EORJR	B1	GRS	500	J82064	01/18/12	82	OK	7MA		11MA		11MA										F	WL
	3EORJR	B1	GRS	500	40925F167	01/18/12	85	OK	7MA		11MA		11MA										F	WL
	4EORJR	B1	GRS	500	D804C6	01/18/12	86	OK	7MA		11MA		11MA										F	WL

Distribution: White: File copy  
 Pink: To be retained at location of test  
 Yellow: To be forwarded to responsible ADE-C&S Office

  
 Signature of maintainer performing tests

1/18/12  
 Date

  
 (Signed - Supervisor reviewing tests)

*eas*  
*INSR*  
 Title

3/7/12  
 Date

\* Shop Test only  
 \*\* Date indicates index registration plate verified for each plug-in relay

Date of Installed or Transferred	Location with designating or track number	Type or Model	Mfr	Resistance	Serial Number	Dates Tested	Date overhauled	Initial charge	Neutral				Polar				Maximum contact resistance	Local voltage	* contact opening	* Shop or field test	Inspector		
									Dropaway		Pickup		Working current or voltage		Pickup							Working current or voltage	
									Normal	Reverse	Normal	Reverse	Normal	Reverse	Normal	Reverse						Normal	Reverse
	1ECCR	DN11	USS	1000	M24170	01/18/12	45	OK	2.8V		4.8V		4.8V						F	WL			
	1WDSEM	DN11	USS	1000	S24629	01/18/12	89	OK	3.0V		5.0V		5.0V						F	WL			
	2ECCR	DN11	USS	1000	L282345	01/18/12	70	OK	2.8V		4.8V		4.8V						F	WL			
	2WDSEM	DN11	USS	1000	B26432	01/18/12	89	OK	2.8V		4.8V		4.8V						F	WL			
	3ECCR	DN11	USS	1000	M28304	01/18/12	45	OK	3.0V		5.0V		5.0V						F	WL			
	3WDSWM	DN11	USS	1000	HI7416	01/18/12	88	OK	3.0V		5.0V		5.0V						F	WL			
	4ECCR	DN11	USS	1000	H48319	01/18/12	89	OK	2.9V		4.9V		4.9V						F	WL			
	4WDSWM	DN11	USS	1000	B25210	01/18/12	89	OK	3.0V		4.9V		4.9V						F	WL			
	8EFLR	E1	ST	500	11047	01/18/12	89	OK					8.0V						F	WL			
	8EFLCR	DN11	USS	1000	M8768	01/18/12	90	OK	3.0V		5.1V		5.1V						F	WL			
	1EFLR	E1	ST	500	11056	01/18/12	89	OK					8.0V						F	WL			
	1EFLCR	DN11	USS	1000	L904425	01/18/12	90	OK	3.0V		5.1V		5.1V						F	WL			

Distribution: White: File copy  
 Pink: To be retained at location of test  
 Yellow: To be forwarded to responsible ADE-C&S Office

  
 Signature of maintainer performing tests

1/18/12  
 Date

  
 (Signed - Supervisor reviewing tests)

cds  
 INSP  
 Title

3/7/12  
 Date

\* Shop Test only  
 \* Date indicates index registration plate verified for each plug-in relay.

Date of Installed or Transferred	Location with designating or track number	Type or Model	Mfr	Resistance	Serial Number	Dates Tested	Date overhauled	Initial charge	Neutral				Polar				Maximum contact resistance	Local voltage	contact opening	Shop or field test	Inspector		
									Dropaway		Pickup		Working current or voltage		Pickup							Working current or voltage	
									Normal	Reverse	Normal	Reverse	Normal	Reverse	Normal	Reverse						Normal	Reverse
	1W1TR	PC250	USS	20	1984065	01/18/12	84	OK					29MA	29MA					F				
	1W1TBPR	PN150B	USS	100	3084119	01/18/12	84	OK	12MA		19MA		19MA						F				
	1W1TFPR	PN150B	USS	60	1084206	01/18/12	84	OK	18MA		30MA		30MA	30MA					F				
	1W1PR	PN258B	USS	2000	1185170	01/18/12	85	OK	3.6V		7.7V		7.7V						F				
	1W1TFBPR	PN150B	USS	100	0983298	01/18/12	83	OK	3MA		7MA		7MA						F				
	1W1ADR	PN250B	USS	55	4683448	01/18/12	84	OK	3MA		9MA		9MA						F				
	1W1BDR	PN250B	USS	55	1184360	01/18/12	84	OK	4MA		10MA		10MA						F				
	3W1TR	PC250	USS	20	3184376	01/18/12	08	OK					30MA	30MA					F				
	3W1TBPR	PN150B	USS	100	3084104	01/18/12	84	OK	11MA		21MA		21MA						F				
	3W1TFPR	PN150B	USS	60	1484134	01/18/12	84	OK	9MA		26MA		26MA						F				
	3W1TPR	PN258B	USS	2000	1185152	01/18/12	85	OK	4.0V		8.9V		8.9V						F				
	3W1TFBPR	PN150B	USS	100	3883162	01/18/12	83	OK	4MA		8MA		8MA						F				
	3W1ADR	PN250B	USS	55	4683399	01/18/12	83	OK	22MA		39MA		39MA						F				
	3W1BDR	PN250B	USS	55	3183627	01/18/12	83	OK	21MA		38MA		38MA						F				
	1TR	PN150B	USS	2000	1284002	01/18/12	84	OK	8MA		12MA		12MA						F				
	1CTPR	PC250	USS	20	1284233	01/18/12	84	OK					28MA	28MA					F				

Distribution: White: File copy  
 Pink: To be retained at location of test  
 Yellow: To be forwarded to responsible ADE-C&S Office

  
 Signature of maintainer performing tests

1/18/12  
 Date

\* Shop Test only

\*\* Date indicates index registration plate verified for each plug-in relay.

  
 (Signed - Supervisor reviewing tests)

COCS  
 JWSR  
 Title

3/7/12  
 Date

Date of Installed or Transferred	Location with designating or track number	Type or Model	Mfr	Resistance	Serial Number	Dates Tested	Date overhauled	Initial charge	Neutral				Polar				Maximum contact resistance	Local voltage	contact opening	Shop or field test	Inspector		
									Dropaway		Pickup		Working current or voltage		Pickup							Working current or voltage	
									Normal	Reverse	Normal	Reverse	Normal	Reverse	Normal	Reverse						Normal	Reverse
	2W1TR	PC250	USS	20	2384599	01/18/12	84	OK					21MA	21MA					F	WL			
	2W1TBPR	PN150B	USS	100	3383811	01/18/12	83	OK	12MA		22MA		22MA						F	WL			
	2W1TFPR	PN150B	USS	60	1084204	01/18/12	84	OK	19MA		31MA		31MA						F	WL			
	2W1TPR	PN258B	USS	2000	1385067	01/18/12	85	OK	3.8V		8.2V		8.2V						F	WL			
	2W1TFBPR	PN150B	USS	100	3883060	01/18/12	83	OK	12MA		22MA		22MA						F	WL			
	2W1ADR	PN250B	USS	55	4083238	01/18/12	83	OK	19MA		31MA		31MA						F	WL			
	2W1BDR	PN250B	USS	55	4683468	01/18/12	83	OK	21MA		40MA		40MA						F	WL			
	4W1TR	PC250	USS	20	1284269	01/18/12	84	OK					23MA	23MA					F	WL			
	4W1TBPR	PN150B	USS	100	3084074	01/18/12	84	OK	11MA		22MA		22MA						F	WL			
	4W1TFPR	PN150B	USS	60	1084145	01/18/12	84	OK	19MA		25MA		25MA						F	WL			
	4W1TPR	PN258B	USS	2000	2885119	01/18/12	85	OK	4.1V		8.0V		8.0V						F	WL			
	4W1TFBPR	PN150B	USS	100	3383737	01/18/12	83	OK	12MA		22MA		22MA						F	WL			
	4W1ADR	PN250B	USS	55	3184115	01/18/12	84	OK	12MA		37MA		37MA						F	WL			
	4W1BDR	PN250B	USS	55	3183658	01/18/12	83	OK	11MA		33MA		33MA						F	WL			
	2TR	PN150B	USS	2000	1184215	01/18/12	84	OK	8.0V		12V		12V						F	WL			
	2CTPR	PC250	USS	20	2384564	01/18/12	84	OK					24MA	24MA					F	WL			

Distribution: White: File copy  
Pink: To be retained at location of test  
Yellow: To be forwarded to responsible ADE-C&S Office

  
Signature of maintainer performing tests

1/18/12  
Date

\* Shop Test only

\*\* Date indicates index registration plate verified for each plug-in relay

  
(Signed - Supervisor reviewing tests)

*cas Insp.*  
Title

3/7/12  
Date



Date of Installed or Transferred	Location with designating or track number	Type or Model	Mfr	Resistance	Serial Number	Dates Tested	Date overhauled	Initial charge	Neutral				Polar				Maximum contact resistance	* Local voltage	* contact opening	Shop or field test	Inspector		
									Dropaway		Pickup		Working current or voltage		Pickup							Working current or voltage	
									Normal	Reverse	Normal	Reverse	Normal	Reverse	Normal	Reverse						Normal	Reverse
	3EHDPR	DN11	USS	1000	N59350	01/19/12	88	OK	2.5V		4.9V		4.9V						F	WL			
	3ERGPR	DN11	USS	1000	H17281	01/19/12	89	OK	2.5V		4.9V		4.9V						F	WL			
	4EAHPR	DN11	USS	1000	H46681	01/19/12	88	OK	2.6V		4.8V		4.8V						F	WL			
	4EBHAFPR	DN11	USS	1000	R65397	01/19/12	89	OK	2.7V		5.0V		5.0V						F	WL			
	4EDPR	DN11	USS	1000	N19688	01/19/12	89	OK	2.8V		5.1V		5.1V						F	WL			
	4EBNPR	DN11	USS	1000	P91328	01/19/12	89	OK	2.6V		4.9V		4.9V						F	WL			
	4EHDPR	DN11	USS	1000	N32049	01/19/12	88	OK	2.9V		5.1V		5.1V						F	WL			
	4ERGPR	DN11	USS	1000	M91524	01/19/12	89	OK	2.9V		5.2V		5.2V						F	WL			


Distribution: White: File copy  
 Pink: To be retained at location of test  
 Yellow: To be forwarded to responsible ADE-C&S Office

  
 Signature of maintainer performing tests

1/19/12  
 Date

\* Shop Test only

\*\* Date indicates index registration plate verified for each plug-in relay.

  
 (Signed - Supervisor reviewing tests)

C&S  
 INSP  
 Title

3/7/12  
 Date