

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

## SIGNAL ATTACHMENT 38

Shore CIH 3 Relays (4) 236.102A, 105, 106

AMTRAK  
INSTRUMENT RECORD

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									
R8-F3	1EAHPPR	B1	ST	800	1123098	10/21/14	2011	OK	4MA		8MA		8MA												F	WL	
R8-F4	2EAHPPR	B1	ST	800	1123230	10/21/14	2011	OK	4MA		8MA		8MA												F	WL	
R8-F5	3EAHPPR	B1	ST	800	1123138	10/21/14	2011	OK	4MA		8MA		8MA												F	WL	
R8-F6	4EAHPPR	B1	ST	800	1123148	10/21/14	2011	OK	4MA		8MA		8MA												F	WL	
R8-F7	1WAHPPR	B1	ST	800	1123151	10/21/14	2011	OK	4MA		8MA		8MA												F	WL	
R8-F8	2WAHPPR	B1	ST	800	1123142	10/21/14	2011	OK	4MA		8MA		8MA												F	WL	
R8-E3	3WAHPPR	B1	ST	800	1123094	10/21/14	2011	OK	4MA		8MA		8MA												F	WL	
R8-E4	4WAHPPR	B1	ST	800	1123187	10/21/14	2011	OK	4MA		8MA		8MA												F	WL	

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

[Redacted Signature]

10-21-14  
Date

[Redacted Signature]

INSR  
Title

10-21-14  
Date

\* Shop Test only

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

AMTRAK  
INSTRUMENT RECORD

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
B1	2WRG2PR	B2	GRS	350	75268EOO6	02/12/13	87	OK	11MA		18MA		18MA						F	WL			
B3	2WHD2PR	B1	GRS	500	36153D060	02/12/13	84	OK	7MA		11MA		11MA						F	WL			
B5	1WRG2PR	B2	GRS	350	51339J036	02/12/13	89	OK	11MA		18MA		18MA						F	WL			
B6	1WHD2PR	B1	GRS	500	37047D217	02/12/13	89	OK	7MA		11MA		11MA						F	WL			
B8	9WHD2PR	B1	GRS	500	361530017	02/12/13	84	OK	7MA		11MA		11MA						F	WL			
C1	4WRG2PR	B2	GRS	350	40932F065	02/12/13	87	OK	11MA		18MA		18MA						F	WL			
C3	4WHD2PR	B1	GRS	500	36153D194	02/12/13	84	OK	7MA		11MA		11MA						F	WL			
C4	3WRG2PR	B2	GRS	350	513391063	02/12/13	87	OK	11MA		18MA		18MA						F	WL			
C6	3WHD2PR	B1	GRS	500	36153D409	02/12/13	84	OK	7MA		11MA		11MA						F	WL			
C7	9WRG2PR	B2	GRS	350	40932F080	02/12/13	87	OK	11MA		18MA		18MA						F	WL			
D1	2ERG2PR	B2	GRS	350	40932F053	02/12/13	86	OK	11MA		18MA		18MA						F	WL			
D3	2EHD2PR	B1	GRS	500	37047D297	02/12/13	84	OK	7MA		11MA		11MA						F	WL			
D4	1ERG2PR	B2	GRS	350	503051001	02/12/13	89	OK	11MA		18MA		18MA						F	WL			
D6	1EHD2PR	B1	GRS	500	36153D215	02/12/13	84	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

[Redacted Signature]

2/12/13  
Date

[Redacted Signature]  
(Signed - Supervisor reviewing tests)

INSP 4/8/11  
Title Date

\* Shop Test only

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


AMTRAK  
INSTRUMENT RECORD

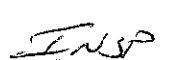
Date of Installed or Transferred	Location with designating or track number	Type or Model	Mfr	Resistance	Serial Number	Dates Tested	Date overhauled	Initial charge	Neutral						Polar				Maximum contact resistance	Local voltage	contact opening	Shop or field test	Inspector	
									Dropaway		Pickup		Working current or voltage		Pickup		Working current or voltage							
									Normal	Reverse	Normal	Reverse	Normal	Reverse	Normal	Reverse	Normal	Reverse						
E1	4ERG2PR	B2	GRS	350	33262F003	02/12/13	86	OK	11MA		18MA		18MA										F	WL
E3	4EHD2PR	B1	GRS	500	36153D215	02/12/13	84	OK	7MA		11MA		11MA										F	WL
E4	3EHG2PR	B2	GRS	350	33262F003	02/12/13	89	OK	11MA		18MA		18MA										F	WL
E6	3EHD2PR	B1	GRS	500	35063D007	02/12/13	84	OK	7MA		11MA		11MA										F	WL
E7	5EHDPR	B1	ALS T	500	8047770	02/12/13	6	OK	7MA		11MA		11MA										F	WL
F7	6E-5ECOSR	B2	GRS	350	509141006	02/12/13	89	OK	11MA		18MA		18MA										F	WL
G2	6E-5EHSR	B1	GRS	500	36153D062	02/12/13	84	OK	7MA		11MA		11MA										F	WL
G3	6E-5ERCSR	B1	GRS	500	J82Q60	02/12/13	82	OK	7MA		11MA		11MA										F	WL
G4	5EHYPR	B1	GRS	194	37270H033	02/12/13	82	OK	11MA		19MA		19MA										F	WL
G5	5EHAR	B1	GRS	500	H82P93	02/12/13	82	OK	7MA		11MA		11MA										F	WL
G6	5EHBR	B1	GRS	500	182294	02/12/13	82	OK	7MA		11MA		11MA										F	WL
G7	5EDR	B1	GRS	500	182Y66	02/12/13	82	OK	7MA		11MA		11MA										F	WL
H6	6E5ERG2PR	B1	GRS	350	509131031	02/12/13	89	OK	11MA		18MA		18MA										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

2/12/13  
Date

  
(Signed - Supervisor reviewing tests)

  
Title

4/11/13  
Date

\* Shop Test only

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

AMTRAK  
INSTRUMENT RECORD

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
B3	MCSR	B1	GRS	500	36513D084	02/12/13	84	OK	7MA		11MA		11MA						F	WL			
B4	MCSBPR	B1	GRS	194	37270H010	02/12/13	88	OK	11MA		28MA		28MA						F	WL			
B5	SMSR	B1	GRS	500	36153D108	02/12/13	84	OK	7MA		11MA		11MA						F	WL			
B8	LCR	B1	GRS	194	37270H038	02/12/13	88	OK	11MA		28MA		28MA						F	WL			
C1	21LR	B2	GRS	350	513391064	02/12/13	89	OK	11MA		18MA		18MA						F	WL			
C3	21NWSR	B1	GRS	500	B83B66	02/12/13	83	OK	7MA		11MA		11MA						F	WL			
C4	21RWSR	B1	GRS	500	36153D090	02/12/13	84	OK	7MA		11MA		11MA						F	WL			
C5	21RWPR	B1	GRS	500	L79762	02/12/13	85	OK	7MA		11MA		11MA						F	WL			
C6	21NWPR	B1	GRS	500	182Z16	02/12/13	82	OK	7MA		11MA		11MA						F	WL			
D1	21RWCR	B2	GRS	350	554261008	02/12/13	89	OK	11MA		18MA		18MA						F	WL			
D3	21RWCPR	B2	GRS	350	503051010	02/12/13	89	OK	11MA		18MA		18MA						F	WL			
D5	21RWC2PR	B2	GRS	350	509131008	02/12/13	89	OK	11MA		18MA		18MA						F	WL			
D7	21RWC3PR	B2	GRS	350	509141019	02/12/13	89	OK	11MA		18MA		18MA						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

2/12/13  
Date

  
(Signed - Supervisor reviewing tests)

*INSP*  
Title

4/11/13  
Date

\* Shop Test only

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

AMTRAK  
INSTRUMENT RECORD

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
E1	21NWCR	B2	GRS	350	509131007	02/13/13	89	OK	11MA		18MA		18MA						F	WL			
E3	21NWCPR	B2	GRS	350	509131003	02/13/13	89	OK	11MA		18MA		18MA						F	WL			
E5	21NWC2PR	B2	GRS	350	50301004	02/13/13	89	OK	11MA		18MA		18MA						F	WL			
E7	21NWC3PR	B2	GRS	350	509131013	02/13/13	89	OK	11MA		18MA		18MA						F	WL			
F1	19LR	B2	GRS	350	509131013	02/13/13	89	OK	11MA		18MA		18MA						F	WL			
F3	19NWSR	B1	GRS	500	183824	02/13/13	84	OK	7MA		11MA		11MA						F	WL			
F4	19RWPR	B1	GRS	500	36153D094	02/13/13	81	OK	7MA		11MA		11MA						F	WL			
F5	19RWPR	B1	GRS	500	G83F46	02/13/13	83	OK	7MA		11MA		11MA						F	WL			
F6	19NWPR	B1	GRS	500	37047D071	02/13/13	84	OK	7MA		11MA		11MA						F	WL			
G1	19RWCR	B2	GRS	350	509141021	02/13/13	89	OK	11MA		18MA		18MA						F	WL			
G3	19RWCPR	B2	GRS	350	513391004	02/13/13	89	OK	11MA		18MA		18MA						F	WL			
G5	19RWC2PR	B2	GRS	350	509131018	02/13/13	89	OK	11MA		18MA		18MA						F	WL			
G7	19RWC3PR	B2	GRS	350	513391065	02/13/13	89	OK	11MA		18MA		18MA						F	WL			

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

[Redacted Signature]

2/13/13  
Date

[Redacted Signature]  
(Signed - Supervisor reviewing tests)

JNSP  
Title

4/16/13  
Date

\* Shop Test only

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

AMTRAK  
INSTRUMENT RECORD

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
H1	19NWCR	B2	GRS	350	513391043	02/13/13	89	OK	11MA		18MA		18MA						F	WL			
H3	19NWCPR	B2	GRS	350	503051007	02/13/13	89	OK	11MA		18MA		18MA						F	WL			
H5	19NWC2PR	B2	GRS	350	513391042	02/13/13	88	OK	11MA		18MA		18MA						F	WL			
H7	19NWC3PR	B2	GRS	350	509141005	02/13/13	89	OK	11MA		18MA		18MA						F	WL			

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

  
\_\_\_\_\_  
(Signed - Supervisor reviewing tests)

2/13/13  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
(Signed - Supervisor reviewing tests)

*JNSP*  
\_\_\_\_\_  
Title

4/11/13  
\_\_\_\_\_  
Date

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

AMTRAK  
INSTRUMENT RECORD

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
B1	4WDEDPR	B1	GRS	500	37697D033	02/13/13	84	OK	7MA		11MA		11MA						F	WL			
B2	4WR-DEDR	B1	GRS	500	36153D219	02/13/13	84	OK	7MA		11MA		11MA						F	WL			
B3	4WDEDPSR	B1	GRS	500	C83596	02/13/13	82	OK	7MA		11MA		11MA						F	WL			
B4	3WDEDPR	B1	GRS	500	H82-R48	02/13/13	84	OK	7MA		11MA		11MA						F	WL			
B5	3WR-DEDR	B1	GRS	500	182-653	02/13/13	83	OK	7MA		11MA		11MA						F	WL			
B6	3WDEDPSR	B1	GRS	500	E83H95	02/13/13	83	OK	7MA		11MA		11MA						F	WL			
B7	2WDEDR	B1	GRS	500	52976R275	02/13/13	84	OK	7MA		11MA		11MA						F	WL			
B8	2WR-DEDR	B1	GRS	500	36153D236	02/13/13	84	OK	7MA		11MA		11MA						F	WL			
C1	43LR	B2	GRS	350	509131021	02/13/13	89	OK	11MA		18MA		18MA						F	WL			
C3	43NWSR	B1	GRS	500	37047D080	02/13/13	84	OK	7MA		11MA		11MA						F	WL			
C4	43RWSR	B1	GRS	500	C83T08	02/13/13	83	OK	7MA		11MA		11MA						F	WL			
C5	43RWPR	B1	GRS	500	37047D048	02/13/13	84	OK	7MA		11MA		11MA						F	WL			
C6	43NWPR	B1	GRS	500	37047D148	02/13/13	84	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

2/13/13  
Date

  
(Signed - Supervisor reviewing tests)

  
Title

4/11/13  
Date


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



AMTRAK  
INSTRUMENT RECORD

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
D1	43RWCR	B2	GRS	350	509131034	02/13/13	88	OK	11MA		18MA		18MA						F	WL			
D3	43RWCP	B2	GRS	350	509131014	02/13/13	88	OK	11MA		18MA		18MA						F	WL			
D5	43RWC2PR	B2	GRS	350	509131009	02/13/13	88	OK	11MA		18MA		18MA						F	WL			
D7	43RWC3PR	B2	GRS	350	509131042	02/13/13	88	OK	11MA		18MA		18MA						F	WL			
E1	43NWCR	B2	GRS	350	509131042	02/13/13	88	OK	11MA		18MA		18MA						F	WL			
E3	43NWCPR	B2	GRS	350	503051008	02/13/13	88	OK	11MA		18MA		18MA						F	WL			
E5	43NWC2PR	B2	GRS	350	513391044	02/13/13	88	OK	11MA		18MA		18MA						F	WL			
E7	43NWC3PR	B2	GRS	350	509131044	02/13/13	88	OK	11MA		18MA		18MA						F	WL			
F1	32LR	B2	GRS	350	513391075	02/13/13	89	OK	11MA		18MA		18MA						F	WL			
F3	32NWSR	B1	GRS	500	37047D366	02/13/13	84	OK	7MA		11MA		11MA						F	WL			
F4	32RWSR	B1	GRS	500	37047D344	02/13/13	84	OK	7MA		11MA		11MA						F	WL			
F5	32RWPR	B1	GRS	500	B83C48	02/13/13	82	OK	7MA		11MA		11MA						F	WL			
F6	32NWPR	B1	GRS	500	B83R93	02/13/13	83	OK	7MA		11MA		11MA						F	WL			
F7	54RWPR	B1	GRS	500	37047D017	02/13/13	84	OK	7MA		11MA		11MA						F	WL			
F8	54NWPR	B1	GRS	500	36153D156	02/13/13	84	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

2/13/13  
Date

  
(Signature of maintainer performing tests)

  
Title

4/11/13  
Date

\* Shop Test only

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

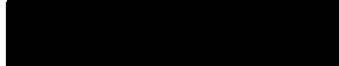
AMTRAK  
INSTRUMENT RECORD

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						
G1	32RWCR	B2	GRS	350	509131041	02/13/13	89	OK	11MA		18MA		18MA										F	WL
G3	32RWCPR	B2	GRS	350	513391008	02/13/13	89	OK	11MA		18MA		18MA										F	WL
G5	32RWC2PR	B2	GRS	350	509131049	02/13/13	89	OK	11MA		18MA		18MA										F	WL
G7	32RWC3PR	B2	GRS	350	513391074	02/13/13	89	OK	11MA		18MA		18MA										F	WL
H1	32NWCR	B2	GRS	350	503051006	02/13/13	88	OK	11MA		18MA		18MA										F	WL
H3	32NWCPR	B2	GRS	350	503051009	02/13/13	89	OK	11MA		18MA		18MA										F	WL
H5	32NWC2PR	B2	GRS	350	509141010	02/13/13	88	OK	11MA		18MA		18MA										F	WL
H7	32NWC3PR	B2	GRS	350	509131019	02/13/13	89	OK	11MA		18MA		18MA										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

2/13/13  
 Date

  
 (Signed - Supervisor reviewing tests)

*JNSP*  
 Title

4/11/13  
 Date

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

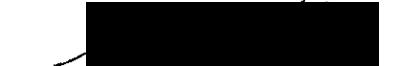
AMTRAK  
INSTRUMENT RECORD

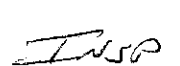
Date of Installed or Transferred	Location with designating or track number	Type or Model	Mfr	Resistance	Serial Number	Dates Tested	Date overhauled	Initial charge	Neutral				Polar				Maximum contact resistance	* Local voltage	* contact opening	Shop or field test	Inspector		
									Dropaway		Pickup		Working current or voltage		Pickup							Working current or voltage	
									Normal	Reverse	Normal	Reverse	Normal	Reverse	Normal	Reverse						Normal	Reverse
B1	2WDEDPSR	B1	GRS	500	36153D397	02/14/13	82	OK	7MA		11MA		11MA						F	WL			
B2	4EDEDPR	B1	GRS	500	182-Y55	02/14/13	81	OK	7MA		11MA		11MA						F	WL			
B3	4ED-DEDR	B1	GRS	500	D80683	02/14/13	83	OK	7MA		11MA		11MA						F	WL			
B4	4EDEDPSR	B1	GRS	500	37047D140	02/14/13	84	OK	7MA		11MA		11MA						F	WL			
B5	3EDEDPR	B1	GRS	500	L82-K03	02/14/13	84	OK	7MA		11MA		11MA						F	WL			
B6	3ER-DEDR	B1	GRS	500	36153D210	02/14/13	84	OK	7MA		11MA		11MA						F	WL			
B7	3EDEDPSR	B1	GRS	500	36153D218	02/14/13	84	OK	7MA		11MA		11MA						F	WL			
B8	2EDEDPR	B1	GRS	500	H82-P11	02/14/13	84	OK	7MA		11MA		11MA						F	WL			
C1	1WDEDPR	B1	GRS	500	B83P55	02/14/13	84	OK	7MA		11MA		11MA						F	WL			
C2	1WR-DEDR	B1	GRS	500	E83160	02/14/13	82	OK	7MA		11MA		11MA						F	WL			
C3	1WDEDPSR	B1	GRS	500	36153D314	02/14/13	84	OK	7MA		11MA		11MA						F	WL			
C4	1WDEDPBR	B1	GRS	500	36153D212	02/14/13	82	OK	7MA		11MA		11MA						F	WL			
D2	5WMSR	B1	GRS	500	3615D132	02/14/13	84	OK	7MA		11MA		11MA						F	WL			
D3	9EMSR	B1	GRS	500	36153D410	02/14/13	84	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

2/14/13  
Date

  
(Signed)

  
Title

4/11/13  
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						
E1	4EMSR	B1	GRS	500	36153D126	02/14/13	84	OK	7MA		11MA		11MA										F	WL
E2	3EMSR	B1	GRS	500	370470374	02/14/13	84	OK	7MA		11MA		11MA										F	WL
E3	2EMSR	B1	GRS	500	37047D111	02/14/13	81	OK	7MA		11MA		11MA										F	WL
E4	1EMSR	B1	GRS	500	1E2H81	02/14/13	82	OK	7MA		11MA		11MA										F	WL
E5	4WMSR	B1	GRS	500	36153D186	02/14/13	84	OK	7MA		11MA		11MA										F	WL
E6	3WMSR	B1	GRS	500	36153D404	02/14/13	83	OK	7MA		11MA		11MA										F	WL
E7	2WMSR	B1	GRS	500	36153D357	02/14/13	84	OK	7MA		11MA		11MA										F	WL
E8	1WMSR	B1	GRS	500	J82Q00	02/14/13	82	OK	7MA		11MA		11MA										F	WL
F1	54LR	B2	GRS	350	509131023	02/14/13	89	OK	11MA		18MA		18MA										F	WL
F3	54NWSR	B1	GRS	500	36153D239	02/14/13	84	OK	7MA		11MA		11MA										F	WL
F4	54RWSR	B1	GRS	500	36153D083	02/14/13	84	OK	7MA		11MA		11MA										F	WL
G1	54RWCR	B2	GRS	350	513391052	02/14/13	89	OK	11MA		18MA		18MA										F	WL
G3	54RWCPR	B2	GRS	350	509131016	02/14/13	89	OK	11MA		18MA		18MA										F	WL
G5	54RWC2PR	B2	GRS	350	513391024	02/14/13	89	OK	11MA		18MA		18MA										F	WL
G7	54RWC3PR	B2	GRS	350	509131005	02/14/13	89	OK	11MA		18MA		18MA										F	WL

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

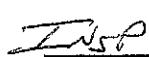
  
Signature of maintainer performing tests

2/14/13  
Date

\* Shop Test only

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

  
(Signature of responsible person)

  
Title

4/11/13  
Date

AMTRAK  
INSTRUMENT RECORD

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						
H1	54NWCR	B2	GRS	350	509141009	02/14/13	89	OK	11MA		18MA		18MA										F	WL
H3	54NWCPR	B2	GRS	350	509141024	02/14/13	89	OK	11MA		18MA		18MA										F	WL
H5	54NWC2PR	B2	GRS	350	513391061	02/14/13	89	OK	11MA		18MA		18MA										F	WL
H7	54NWC3PR	B2	GRS	350	509141012	02/14/13	89	OK	11MA		18MA		18MA										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

2/14/13  
 Date

\* Shop Test only

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

  
 (Signed - Supervisor reviewing tests)

  
 Title

4/11/13  
 Date

AMTRAK  
INSTRUMENT RECORD

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
B1	2ER-DEDR	B1	GRS	500	36153D131	02/15/13	89	OK	7MA		11MA		11MA						F	WL			
B2	2EDEPSR	B1	GRS	500	36153D200	02/15/13	84	OK	7MA		11MA		11MA						F	WL			
B3	1EDEDPR	B1	GRS	500	35063D001	02/15/13	84	OK	7MA		11MA		11MA						F	WL			
B4	1ER-DEDR	B1	GRS	500	36153D233	02/15/13	84	OK	7MA		11MA		11MA						F	WL			
B5	1EDEDPSR	B1	GRS	500	18247A	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
B6	9WDEDPR	B1	GRS	500	18238A	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
B7	9WR-DEDR	B1	GRS	500	J82R25	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
B8	9WDEDPSR	B1	GRS	500	182Y62	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
C1	4WDEDPBR	B1	GRS	500	18250A	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
C2	3WDEDPBR	B1	GRS	500	182742	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
C3	2WDEDPBR	B1	GRS	500	J82R20	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
C4	4EDEDPBR	B1	GRS	500	H82P77	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
C5	3EDEDPBR	B1	GRS	500	H82P10	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
C6	2EDEDPBR	B1	GRS	500	182711	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
C7	1EDEDPBR	B1	GRS	500	182251	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
C8	9WDEDPBR	B1	GRS	500	182C06	02/15/13	82	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

2/15/13  
Date

  
(Signed)

*JNSP*  
Title

4/11/13  
Date

\* Shop Test only

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

AMTRAK  
INSTRUMENT RECORD

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
D1	1BSBPR	B1	GRS	500	182187	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
D2	1BNBPR	B1	GRS	500	L82K26	02/15/13	83	OK	7MA		11MA		11MA						F	WL			
D3	1BFLLR	B1	GRS	500	182E70	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
D4	1BNFLSR	B1	GRS	500	182H82	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
D5	1BSFLSR	B1	GRS	500	182175	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
D6	1BNFR	B1	GRS	500	182Y37	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
D7	1BSFSR	B1	GRS	500	182G43	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
E1	1TBSR	B1	GRS	500	182G61	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
E2	2TBSR	B1	GRS	500	H82E97	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
E3	3TBSR	B1	GRS	500	L82219	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
E4	4TBSR	B1	GRS	500	18272B	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
E5	1ATBSR	B1	GRS	500	J82P85	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
F1	6E-5EHSNDR	B1	GRS	500	182G47	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
F5	9WHSNDRB1	B1	GRS	500	H82R65	02/15/13	82	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

[Redacted Signature]

2/15/13  
Date

\* Shop Test only

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

(Sig [Redacted])

JWSP  
Title

4/11/13  
Date

AMTRAK  
INSTRUMENT RECORD

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
G1	3EHSNDR	B1	GRS	500	182487	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
G3	3WHSNDR	B1	GRS	500	18291A	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
G5	4EHSNDR	B1	GRS	500	J82R55	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
G7	4WHSNDR	B1	GRS	500	30093D12	02/15/13	83	OK	7MA		11MA		11MA						F	WL			
H1	1EHSNDR	B1	GRS	500	J82269	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
H3	1WHSNDR	B1	GRS	500	18208B	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
H5	2EHSNDR	B1	GRS	500	182H18	02/15/13	82	OK	7MA		11MA		11MA						F	WL			
H7	2WHSNDR	B1	GRS	500	182Y53	02/15/13	82	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



2/15/13  
Date

\* Shop Test only

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

(Signe )

JNSP  
Title

4/11/13  
Date