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

SIGNAL ATTACHMENT 43

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

) * *			curre					Pol				*	*				
													Worl				Wor						
<u> </u>	 								Dropa	away	Pick	cup	volta	age	Pick	cup	volt	age					
Date of Installed or Transferred	Location with designating or track number	Type or Model	Mfr	Resistance	Serial Number	DatesTrested	Date overhauled	Initial charge	Normal	Reverse	Normal	Reverse	Normal	Reverse	Normai	Reverse	Normal	Reverse	Maximum contact resistance	Local voltage	contact opening	Shop or field test	Inspector
	3E1TR	PC250	USS	20	2784046	01/23/14	84	ок				:	26MA	26MA								F	WL
	4E1TR	PC250	USS	20	1484254	01/23/14	84	ок					27MA	27MA			<u> </u>					F	WL
	4ECTPR	PC250	USS	20	2384607	01/23/14	84	ок					27MA	27MA								F	WL
	2E1TR	PC250	uss	20	1984056	01/23/14	84	ок					27MA	27MA		l						F	WL
	1E1TR	PC250	USS	20	2784024	01/23/14	84	ок					26MA	26MA								F	WL
	3CTPR	PC250	uss	20	3194378	01/23/14	84	ок					26MA	26MA					<u> </u>			F	WL
-																		ļ					
	1DS	DP14	uss	1000	G53376	01/23/14	77	ок	3.1V	3.1V	5.4V	5.4V	6.1V	6.1V	3.2V	3.2V						F	WL
	2DS	DP14	uss	1000	H11008	01/23/14	76	ок	3.0V	3.0V	5.3V	5.3V	6.2V	6.2V	3.2V	3.2V						F	WL
	3DS	DP14	uss	1000	H17958	01/23/14	77	ок	2.9V	2.9V	5.2V	5.3V	6.3V	6.3V	3.1V	3.1V						F	WL
	4DS	DP14	uss	1000	R28800	01/23/14	46	ок	2.9V	2.9V	5.2V	5,2V	6.3V	6.3V	3.1V	3.1V						F	WL
																							<u> </u>
	75CT	PC250	uss	NA	1484344	01/23/14	84	ок					8VDC									F	WL
	120CT	PC250	uss	NA	784097	01/23/14	84	ок					8VDC								<u> </u>	F	WL
	180CT	PC250	uss	NA	3284047	01/23/14	84	ок					8VDC									F	WL

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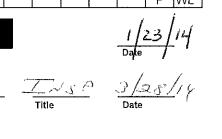
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Yellow: To be forwarded to responsible ADE-C&S Office

* Shop Test only

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







	i I			T		* *		Neutral Worki						Po	lar			*	*				
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									Dropa	away	Pick	шp	volta		Pick	kup	volt			i			
Date of Installed or Transferred	Location with designating or track number	Type or Model	Mfr	Resistance	Serial Number	Darios Tested	Date overhauled	Initial charge	Normal	Reverse	Normal	Reverse	Normal	Reverse	Normal	Reverse	Normal	Reverse	Maximum contact resistance	Local voltage	contact opening	Shop or field test	Inspector
	1E1TFPR	PN150B	บรร	100	3883161	01/23/14	83	ок	11MA		20MA		20MA									F	WL
	1E1TBPR	PN150B	USS	100	3883129	01/23/14	83	ок	11MA		21MA		21MA									F	WL
	1E1TPR	PN258B	USS	2000	1385039	01/23/14	85	ок	2MA		5MA		5MA									F	WL
	1E1TFBPR	PN150B	USS	100	L966329	01/23/14	81	ок	11MA		19MA		19MA									F	WL
	1E1ADR	PN250B	บรร	55	3183649	01/23/14	83	ок	20MA		41MA		41MA					<u> </u>				F	WL
	2E1TFPR	PN150B	uss	100	3383809	01/23/14	83	ок	16MA		22MA		22MA				<u> </u>					F	WL
	2E1TBPR	PN150B	บรร	100	3182362	01/23/14	82	ок	12MA		21MA		21MA				<u> </u>	<u> </u>		ļ	<u> </u>	F	WL
	2E1TPR	PN258B	uss	2000	1385060	01/23/14	83	ок	4MA		6МА		6MA					<u> </u>	-			F	WL.
	2E1ADR	PN250B	uss	55	4683412	01/23/14	83	ок	20MA		41MA		41MA								_	F	WL
	3TR	PN150B	uss	500	1694169	01/23/14	83	ок	11MA		14MA		14MA							ļ	<u> </u>	F	WL
	3TRA	B1N	GRS	500	I82E72	01/23/14	82	ок	7MA		13MA		13MA				ļ	_		ļ <u>.</u>		F	WL
	4TRA	B1N	GRS	500	J82P89	01/23/14	82	ок	6MA		12MA		12MA	ļ	<u> </u>							F	WL
																					_		
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						* *		Neutral Work Currer Dropaway Pickup volta					Po	lar			*	*					
																	Wor	king ent or] !		· ·		
									Dropa	away	Pick	шp	volta		Pici	kup	voit						
Date of Installed or Transferred	Location with designating or track number	Type or Model	Mfr	Resistance	Serial Number	Dates Tested	Date overhauled	Initial charge	Normal	Reverse	Maximum contact resistance	Local voltage	contact opening	Shop or field test	Inspector								
	3E1TFPR	PN150B	uss	60	2884204	01/23/14	84	ок	15MA		зома		30MA									F	WL
	3E1TBPR	PN150B	uss	100	3084032	01/23/14	84	ок	16MA		21MA	,	21MA									F	WL
	3E1TPR	PN258B	uss	2000	2885133	01/23/14	85	ок	4MA		6MA		6MA									F	WL
	3E1TFBPR	PN150B	uss	100	33518041	01/23/14	83	ок	11MA		22MA		22MA									F	WL
	3E1ADR	PN250B	uss	55	4683487	01/23/14	83	ок	25MA		40MA		40MA									F	WL
	4E1TFPR	PN150B	uss	60	1084186	01/23/14	84	ок	13MA		21MA		21MA									F	WL
	4E1TBPR	PN150B	uss	100	3383736	01/23/14	83	ок	11MA		23MA		23MA									F	WL.
	4E1TPR	PN258B	uss	2000	2885144	01/23/14	85	ок	4MA		8MA		8MA							ļ		F	WL
	4E1TFBPR	PN150B	uss	100	3084006	01/23/14	84	ок	12MA		24MA		24MA							<u> </u>		F	WL
	4E1ADR	PN250B	USS	55	4683394	01/23/14	83	ок	зма		7MA		7MA				ļ	-				F	WL
	4TR	PN150B	uss	2000	1684170	01/23/14	84	ок	11MA		14MA		14MA							<u> </u>		F	WL
	4ECTPR	PC250	uss	NA	1484473	01/23/14	84	ок					8VDC				_					F	WL
													1										\perp
						7 (2)																	
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Signature of maintainer performing tests



 $\frac{1/23/14}{Date}$ Title $\frac{3/28/19}{Date}$

						* * *		Neutral Work currer Dropaway Pickup volta					Po	lar		·	*	*		-			
				j										~ [Wor						
ي ا									D гор:	away	Pick	cup	volta		Pic	kup	volt						
Date of Installed or Transferred	Location with designating or track number	Type or Model	Mfr	Resistance	Serial Number	DatesTrested	Date overhauled	Initial charge	Normal	Reverse	Normal	Reverse	Normal	Reverse	Normai	Reverse	Normal	Reverse	Maximum contact resistance	Local voltage	contact opening	Shop or field test	Inspector
	1E1TLOPR	DN11	uss	500	V31250	01/23/14	78	ок	2.7V		6.1V		6.1V									F	WL
	1CCR	DN11	uss	1000	B1013	01/23/14	45	ОК	2.6V		6.1V		6.1V									F	WL
	1DSEM	DN11	uss	1000	N26225	01/23/14	88	ОК	3.1V		6.2V		6.2V									F	WL
	2E1TLOPR	DN11	USS	1000	G39232	01/23/14	75	ок	2.8V		5.2V		5.2V									F	WL
	2CCR	DN11	USS	1000	T95129	01/23/14	80	ок	2.7V		4.9V		4.9V									F	WL
	2DSEM	DN11	USS	1000	M94270	01/23/14	88	ок	3.1V		5.8V		5.8V									F	WL
	3CCR	DN11	uss	1000	H59431	01/23/14	78	ок	2.9V		5.5V		5.5V									F	WL
	3DSWM	DN11	USS	1000	X89109	01/23/14	88	ок	3.1V		6.3V		6.3V				ļ		<u> </u>			F	WL
	4CCR	DN11	uss	1000	Y18087	01/23/14	87	ОК	3.1V		6.2V		6.2V									F	WL
	4DSWM	DN11	uss	1000	M94277	01/23/14	88	ок	3.2V		6.3V		6.3V					ļ <u>.</u>				F	WL

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						*****					Nec	ıtral				Po	Іаг			*	*		
									cur			Wor	-			Wor							
5									Drop	away	Pic	kup	volt		Pic	kup	volt						
Date of Installed or Transferred	Location with designating or track number	Type or Model	Mfr	Resistance	Serial Number	Dates Tested	Date overhauled	Initial charge	Normal	Reverse	Normal	Reverse	Normai	Reverse	Normal	Reverse	Normal	Reverse	Maximum contact resistance	Local voltage	contact opening	Shop or field test	Inspector
	1WFLR	FN16A	uss	500	X31170	01/24/14	88	ок					8VDC									F	WL
	1WFLCR	DN11	USS	1000	N5116	01/24/14	88	ок	3.1V		5.1V		5.1V									F	WL
	2WFLR	FN16A	uss	500	R3995	0:1/24/14	88	ок					8VDC									ഥ	WL.
	2WFLCR	DN11	uss	1000	N10869	01/24/14	88	ок	3.4V		6.1V		6.1V				· -					F	WL
	3WFLR	FN16A	บรร	500	P4006	01/24/14	88	ок					8VCD									F	WL
	3WFLCR	DN11	uss	1000	N83720	01/24/14	88	ок	3.4V		6.1V		6.1V									F	WL
	4WFLR	FN16A	uss	500	L23049	01/24/14	88	ок					8VDC									F	WL
	4WFLCR	DN11	uss	1000	Y90547	01/24/14	88	ок	3,5V		6.2V		6.2V									F	WL
													ļ										
						10.42 (Mi CV (Mi A) (A) (A) (A) (A) (A) (A) (A) (A) (A)																	

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						* * *			Neutral Work							Po	lar			*	*		
																	Wor						
									Drop	away	Picl	kup	volt		Pic	кир		age					
Date of Installed or Transferred	Location with designating or track number	Type or Model	Mfr	Resistance	Serial Number	Dates Tested	Date overhauled	Initial charge	Normal	Reverse	Normal	Reverse	Normal	Reverse	Normal	Reverse	Normal	Reverse	Maximum contact resistance	Local voltage	contact opening	Shop or field test	Inspector
	3WADPR	DN11	USS	1000	L111511	01/24/14	82	ок	2,6V		5.4V		5.4V									F	WL
	3WAHPR	DN11	บรร	1000	L31975	01/24/14	59	ок	2.8V		5.7V		5.7V									F	WL
	3WBDPR	DN11	uss	1000	G35740	01/24/14	49	ок	2.9V		5.9V		5.9V									F	WL
	3WBHAPR	DN11	uss	1000	H92864	01/24/14	82	ок	3.0V		6.0V		6.0V									F	WL
	3WBHAFPR	DN11	uss	1000	N63819	01/24/14	42	ок	3.1V		6.1V		6.1V									F	WL
	3WBNPR	DN11	uss	1000	M91689	01/24/14	88	ок	2.9V		5.8V		5.8V									F	WL
	3WHDPR	DN11	uss	1000	L389517	01/24/14	67	ок	3.0V		5,9V		5.9V						ļ			F	WL
	3WRGPR	DN11	uss	1000	S70116	01/24/14	88	ок	3.0V		5.9V		5.9V									F	WL
	4WADPR	DN11	uss	1000	H89331	01/24/14	82	ок	3.1V		6.1V		6.1V									F.	WL
	4WAHPR	DN11	USS	1000	H42812	01/24/14	77	ок	3,1V		6.1V		6.1V						ļ			F	WL
	4WBDPR	DN11	uss	1000	T462	01/24/14	50	ок	3.0V		6.0V	ļ	6.0V					<u> </u>		<u> </u>	ļ	F	WL
	4WBHAPR	DN11	uss	1000	N53403	01/24/14	82	ок	3.2V		6.0V		6.0٧									F	WL
	4WBNPR	DN11	uss	1000	L415190	01/24/14	88	ок	3.0V		6.0V		6.0V									F	WL
	4WHDPR	DN11	uss	1000	L380991	01/24/14	82	ок	2.9V		5.9V		5.9V									F	WL
	4WRGPR	DN11	uss	1000	541424	01/24/14	88	ок	2.9V		5.9V		5.9V									F	WL

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						***				•••	Neu	itral			•	Po	lar			*	*		
						Server Comp							Worl	- 1			Worl						
				İ					Drop	away	Pic	кир	volta		Pick	kup	volta						
Date of Installed or Transferred	Location with designating or track	Type or		Resistance	Serial	Dates Tested	Date overhauled	Initial charge	Normal	Reverse	Maximum contact resistance	Local voltage	contact opening	Shop or field test	Inspector								
O F	number	Model	Mfr	α	Number	Δ		<u> </u>	Ż	꼰	Ž	ᅂ	Ž	ď	Z	ď	Z	吖	≥ ⊻		Ö	S	<u> </u>
	1WADPR	DN11	บรร	1000	L31978	01/24/14	87	ок	3,0V		6.0V		6.0V						,			F	WL
	1WAHPR	DN11	uss	1000	T36842	01/24/14	87	ок	3.0V		6.1V		6.1V							ļ	,	F	WL
	1WBDPR	DN11	uss	1000	B16120	01/24/14	45	ок	2.9V		6.0V		6,0V									F	WL
	1WBHAPR	DN11	uss	1000	M35663	01/24/14	77	ок	2.8V	,	5.8V		5.8V									F	WL
	1WBHAFPR	DN11	USS	1000	B19366	01/24/14	45	ок	2.9V		5.9V		5.9V									F	WL
	1WBNPR	DN11	uss	1000	B19324	01/24/14	45	ок	3.0V		6.1V		6.1V									F	WL
	1WHDPR	DN11	uss	1000	L276716	01/24/14	88	ок	3.1V		6.0V		6.0V						ļ			F	WL
	1WRGPR	DN11	uss	1000	R67269	01/24/14	88	ок	3.1V		6.2V		6.2V									F	WL
	2WADPR	DN11	uss	1000	Y90813	01/24/14	88	ок	3.0V		6.1V		6.1V									F	WL
	2WAHPR	DN11	uss	1000	P13926	01/24/14	88	ок	2.9V		5.9V		5.9V									F	WL
	2WBDPR	DN11	uss	1000	E18587	01/24/14	88	ок	2.8V		5.8V		5.8V		•				ļ			F	WL
	2WBHAPR	DN11	uss	1000	N13489	01/24/14	88	ок	2.9V		6.2V		6.2V		*						ļ	F	WL
	2WBHAFPR	DN11	uss	1000	H47217	01/24/14	48	ок	2.9V		5.9V		5.9V						<u> </u>			F	WL
	2WBNPR	DN11	uss	1000	L415113	01/24/14	88	ок	3.0V		6.1V		6.1V									F	WL
	2WHDPR	DN11	uss	1000	586352	01/24/14	87	ок	3.1V		6.2V		6,2V					_		1		F	WL
	2WRGPR	DN11	uss	1000	B2334	01/24/14	45	ОК	3.0V		6.1V		6.1V									F	WL

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