

# **EXHIBIT 2-K**

**Docket No. DCA-08-MR009**

**NATIONAL TRANSPORTATION SAFETY BOARD  
WASHINGTON, D.C. 20594**

**Control Point Bernson Westbound Pre-accident  
Inspection and Test Records**









SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY  
 Communications and Signals Department  
 PART 236 INSPECTIONS and TESTS



Test must be made when placed in service, modified or disarranged, and at least once every designated time frame thereafter.

RECORDING MARK:

- C = Test complete. Equipment in satisfactory condition
- \* A = Adjustment made & test complete.
- Equipment in satisfactory condition.
- \* R = Repairs or replacement needed.
- \* S = Repairs or replacement made.
- Equipment in satisfactory condition.
- \* = Explain on back of form.

NAME: RON MONGIELLO  
 SIGNATURE: *Ron Mongiello*  
 SUBDIVISION: VENTURAS  
 REVIEWED BY: *[Signature]*

DATE: 4-30-08

DATE: 5-5-08

M.P.	LOCATION	DATE OF TEST	MONTHLY						6 MONTHS				1 YEAR				2 YEAR					
			SW. CRT. CONT. 236.103	SHUNT FOULING 236.104	GROUNDS 236.107	GAGE ATS INDUCTOR 236.576	SWITCH OBSTRUCTION 236.382	TEST ATS INDUCTOR 236.576	SL. SIGNAL MECH. 236.102 (a)	TIMER NAME	PREDETERMINED TIME	ACTUAL TIME	TEST RESULTS	APPROACH LOCKING 236.377	TIME LOCKING 236.378	ROUTE LOCKING 236.379	INDICATION LOCKING 236.380	TRAFFIC LOCKING 236.381	LINE NO.			
																				TIME RELEASE/TIME RELAY 236.109		
442.65	SIGNALS 4426-4427	4-29-08	N/A	N/A	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1				
444.40	CP TOPANGA	4-18-08	C	C	C	N/A	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2				
445.70	SIGNALS 4451-4452-4453-4454	4-19-08	N/A	N/A	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3				
446.10	HAND THROW SWITCH & SIGNAL	4-19-08	C	C	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4				
446.80	CP BERNSON	4-24-08	C	C	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5				
447.10	HAND THROW SWITCH & SIGNAL	4-18-08	A	C	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6				
447.15	HAND THROW SWITCH	4-18-08	A	C	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7				
447.60	HAND THROW SWITCH & SIGNAL	4-21-08	C	C	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8				
447.60	HAND THROW DERAIL	4-21-08	C	C	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9				
448.30	SIGNALS 4483-4484	4-9-08	N/A	N/A	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10				
449.30	HAND THROW SWITCH & ELECTRIC LOCK	4-8-08	A	C	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11				
450.00	HAND THROW SWITCH & SIGNAL	4-4-08	C	C	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12				
450.35	HAND THROW SWITCH & SIGNAL	4-4-08	C	C	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13				
450.40	SIGNALS 4503-4504	4-4-08	N/A	N/A	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14				
451.80	SIGNALS 4517-4518	4-4-08	N/A	N/A	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15				
452.05	HAND THROW SWITCH & SIGNAL	4-3-08	A	C	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16				
453.10	CP RAYMER	4-17-08	C	C	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17				
453.55	HAND THROW SWITCH & ELECTRIC LOCK	4-22-08	C	C	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18				
453.60	HAND THROW SWITCH	4-22-08	A	C	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19				
453.70	CP ELLIKER	4-10-08	N/A	N/A	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20				
453.70	CP ELLIKER #1 POWER SWITCH	4-10-08	C	C	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21				
453.70	CP ELLIKER #1X POWER SWITCH	4-10-08	C	C	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22				
																		23				
																			24			

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY  
 Communications and Signals Department  
 PART 238 INSPECTIONS and TESTS



NAME: S.I. MORRIS  
 SIGNATURE: *[Signature]*  
 SUBDIVISION: VENTURA  
 REVIEWED BY: *[Signature]*  
 DATE: 7/30/08  
 DATE: 8-8-08

Test must be made when placed in service, modified or disarranged, and at least once every designated time frame thereafter.

RECORDING-MARK:

- C = Test complete. Equipment in satisfactory condition
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- \* S = Repairs or replacement made.  
Equipment in satisfactory condition.
- \* = Explain on back of form.

LOCATION	DATE OF TEST
C.P. BERNSON	7/27/08
FM OVER 1N	7/30/08
TM OVER 1N	
FS OVER 1R	
TS OVER 1R	

LINE NO.	MONTHLY						6 MONTHS				1 YEAR				2 YEAR				
	MONTHLY						6 MONTHS				1 YEAR				2 YEAR				
	SP. CRT. CONT. 238.108	SHUNT FOUNG 238.104	GROUNDS 238.107	GAGE ATS INDUCTOR 238.578	SWITCH OBSTRUCTION 238.382	TEST ATS INDUCTOR 238.576	SL. SIGNAL MECH. 238.102 (a)	TIMER NAME	PREDETERMINED TIME	ACTUAL TIME	TEST RESULTS	APPROACH LOCKING 238.377	TME LOCKING 238.378	ROUTE LOCKING 238.379	INDICATION LOCKING 238.380	TRAFFIC LOCKING 238.381			
1							TE	360"	360"	C									
2							DTE	20"	20"	C									
3							ORTE	30"	30"	C									
4							FLTE	20"	21"	C									
5							SLTE	20"	21"	C									
6											C	C	C	C					
7											C	C	C	C					
8											C	C	C	C					
9											C	C	C	C					
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY  
 Communications and Signals Department  
 PARTS 234 and 236 RELAY INSPECTIONS and TESTS



SEARCHLIGHT SIGNAL Rule 236.102(b)  
 ELECTRIC SWITCH LOCK Rule 236.105  
 D.C. POLAR RELAY Rule 236.106 and 234.283  
 D.C. NON-POLAR RELAY Rule 236.106 and 234.283

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- Equipment in satisfactory condition.
- Equipment on back of form.

SUBDIVISION VENTURA LOCATION VENTURA  
 RELAY NAME T SIG STOP RELAY TYPE ST  
 MANUFACTURER SAFETRAN PIECE NO. 400000  
 SERIAL NO. 213152 COIL RESISTANCE 500 OHM  
 C.P. BERNSON A468

RATED			
MINIMUM RELEASE	MAX. DIRECT PICK-UP	WORKING	MAX. CHANGE OVER
NORMAL	REVERSE	NORMAL	REVERSE
2.42V	6.65V		

YEAR	2008	INITIAL CHARGE	12Y.	RESULT OF TEST:
		NEUTRAL CONTACTS	6X6	C
		MINIMUM RELEASE	2.87	
		MAXIMUM DIRECT PICK-UP	5.35	
		WORKING		
		POLAR CONTACTS		
		CHANGE-OVER		
		Comments:		
		NAME (print) S.T. MORRIS		
		SIGNATURE <i>[Signature]</i>		
		REVIEWED BY (print) J. McInyre		DATE 2/24/2008
		SIGNATURE <i>[Signature]</i>		DATE 3-4-08

YEAR	INITIAL CHARGE	RESULT OF TEST:
	NEUTRAL CONTACTS	
	MINIMUM RELEASE	
	MAXIMUM DIRECT PICK-UP	
	WORKING	
	POLAR CONTACTS	
	CHANGE-OVER	
	Comments:	
	NAME (print)	
	SIGNATURE	
	REVIEWED BY (print)	
	SIGNATURE	

YEAR	INITIAL CHARGE	RESULT OF TEST:
	NEUTRAL CONTACTS	
	MINIMUM RELEASE	
	MAXIMUM DIRECT PICK-UP	
	WORKING	
	POLAR CONTACTS	
	CHANGE-OVER	
	Comments:	
	NAME (print)	
	SIGNATURE	
	REVIEWED BY (print)	
	SIGNATURE	



SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY  
 Communications and Signals Department  
 PARTS 234 and 236 RELAY INSPECTIONS and TESTS



SEARCHLIGHT SIGNAL Rule 235.102(b)  
 ELECTRIC SWITCH LOCK Rule 235.105  
 D.C. POLAR RELAY Rule 235.106 and 234.203  
 D.C. NON-POLAR RELAY Rule 235.106 and 234.203

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SUBDIVISION \_\_\_\_\_ VENTURA \_\_\_\_\_ LOCATION \_\_\_\_\_  
 RELAY NAME \_\_\_\_\_ RWR \_\_\_\_\_ RELAY TYPE \_\_\_\_\_  
 MANUFACTURER SAFETRAN \_\_\_\_\_ PIECE NO. \_\_\_\_\_  
 SERIAL NO. 216863 \_\_\_\_\_ COIL RESISTANCE 500 OHM \_\_\_\_\_  
 C.P. BERNSON \_\_\_\_\_  
 ST \_\_\_\_\_  
 400520 \_\_\_\_\_

RATED										
YEAR	2008	INITIAL CHARGE	MINIMUM RELEASE		MAX. DIRECT PICK-UP		WORKING		MAX. CHANGE OVER	
			NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE
		12V.	3.23V.	10.45V.						

YEAR	2008	INITIAL CHARGE	POLAR CONTACTS		CHANGE-OVER		Comments:		RESULT OF TEST:
			NORMAL	REVERSE	NORMAL	REVERSE			
		2X2	3.81						C
			5.81						

NAME (print) S.T. MORRIS  
 SIGNATURE *[Signature]*  
 REVIEWED BY (print) J. MCINTYRE  
 SIGNATURE *[Signature]*  
 DATE 2/24/2008  
 DATE 3-4-08

YEAR	INITIAL CHARGE	POLAR CONTACTS		CHANGE-OVER		Comments:		RESULT OF TEST:
		NORMAL	REVERSE	NORMAL	REVERSE			

NAME (print) \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_  
 REVIEWED BY (print) \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DATE \_\_\_\_\_

YEAR	INITIAL CHARGE	POLAR CONTACTS		CHANGE-OVER		Comments:		RESULT OF TEST:
		NORMAL	REVERSE	NORMAL	REVERSE			

NAME (print) \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_  
 REVIEWED BY (print) \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DATE \_\_\_\_\_

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY  
 Communications and Signals Department  
 PARTS 234 and 236 RELAY INSPECTIONS and TESTS



SEARCHLIGHT SIGNAL Rule 235.102(b)  
 ELECTRIC SWITCH LOCK Rule 235.105  
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SUBDIVISION VENTURA LOCATION C.P. BERNSON  
 RELAY NAME NWTPPR RELAY TYPE ST  
 MANUFACTURER SAFETRAN PIECE NO. 400000  
 SERIAL NO. 110308 COIL RESISTANCE 500 OHM

RATED									
MINIMUM RELEASE		MAX. DIRECT PICK-UP		WORKING		MAX. CHANGE OVER			
NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE
2.42V.		6.65V.							

YEAR	2008	INITIAL CHARGE	12V.	RESULT OF TEST:	C
		NEUTRAL CONTACTS	6X6		
		MINIMUM RELEASE	2.91		
		MAXIMUM DIRECT PICK-UP	5.88		
		WORKING			
		POLAR CONTACTS			
		CHANGE-OVER			
		Comments:			
		NAME (print) S.T. MORRIS			
		SIGNATURE <i>[Signature]</i>			
		REVIEWED BY (print) J. McIntyre			
		SIGNATURE <i>[Signature]</i>			
		DATE 2/24/2008			
		DATE 3-4-08			

YEAR	INITIAL CHARGE	RESULT OF TEST:
	NEUTRAL CONTACTS	
	MINIMUM RELEASE	
	MAXIMUM DIRECT PICK-UP	
	WORKING	
	POLAR CONTACTS	
	CHANGE-OVER	
	Comments:	
	NAME (print)	
	SIGNATURE	
	REVIEWED BY (print)	
	SIGNATURE	
	DATE	
	DATE	

YEAR	INITIAL CHARGE	RESULT OF TEST:
	NEUTRAL CONTACTS	
	MINIMUM RELEASE	
	MAXIMUM DIRECT PICK-UP	
	WORKING	
	POLAR CONTACTS	
	CHANGE-OVER	
	Comments:	
	NAME (print)	
	SIGNATURE	
	REVIEWED BY (print)	
	SIGNATURE	
	DATE	
	DATE	

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY  
 Communications and Signals Department  
 PARTS 234 and 236 RELAY INSPECTIONS and TESTS



SEARCHLIGHT SIGNAL Rule 236.102(b)  
 ELECTRIC SWITCH LOCK Rule 236.105  
 D.C. POLAR RELAY Rule 236.106 and 234.263  
 D.C. NON-POLAR RELAY Rule 236.106 and 234.263

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SUBDIVISION VENTURA LOCATION C.P. BERNSON  
 RELAY NAME NWR RELAY TYPE ST  
 MANUFACTURER SAFETRAN PIECE NO. 400520  
 SERIAL NO. 216893 COIL RESISTANCE 500 OHM

YEAR	2008	RATED										RESULT OF TEST:	
		MINIMUM RELEASE		MAX. DIRECT PICK-UP		WORKING		MAX. CHANGE OVER		REVERSE			
		NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE		
		3.23v.	10.45v.										

YEAR	2008	INITIAL CHARGE	12v.	NEUTRAL CONTACTS	2X2	POLAR CONTACTS	RESULT OF TEST:
		MINIMUM	3.77	NORMAL	REVERSE	NORMAL	C
		RELEASE		CHANGE-OVER		REVERSE	
		MAXIMUM	9.47	NORMAL	REVERSE		
		DIRECT PICK-UP		REVERSE			
		WORKING		NORMAL	REVERSE		

NAME (print) S.T. MORRIS  
 SIGNATURE [Signature]  
 REVIEWED BY (print) J. MCINTYRE  
 SIGNATURE [Signature]  
 DATE 2/24/2008  
 DATE 3-4-08

YEAR	2008	INITIAL CHARGE	NEUTRAL CONTACTS	MINIMUM	RELEASE	MAXIMUM	DIRECT PICK-UP	WORKING	POLAR CONTACTS	CHANGE-OVER	Comments:	RESULT OF TEST:
				NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE			
				REVERSE		REVERSE						
				NORMAL	REVERSE	NORMAL	REVERSE					
				REVERSE		REVERSE						
				NORMAL	REVERSE							

NAME (print)  
 SIGNATURE  
 REVIEWED BY (print)  
 SIGNATURE  
 DATE  
 DATE

YEAR	2008	INITIAL CHARGE	NEUTRAL CONTACTS	MINIMUM	RELEASE	MAXIMUM	DIRECT PICK-UP	WORKING	POLAR CONTACTS	CHANGE-OVER	Comments:	RESULT OF TEST:
				NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE			
				REVERSE		REVERSE						
				NORMAL	REVERSE	NORMAL	REVERSE					
				REVERSE		REVERSE						
				NORMAL	REVERSE							

NAME (print)  
 SIGNATURE  
 REVIEWED BY (print)  
 SIGNATURE  
 DATE  
 DATE

**SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY**  
**Communications and Signals Department**  
**PARTS 234 and 236 RELAY INSPECTIONS and TESTS**

SHEET 5 OF 10 SHEETS



SEARCHLIGHT SIGNAL Rule 236.102(b)  
 ELECTRIC SWITCH LOCK Rule 236.105  
 D.C. POLAR RELAY Rule 236.106 and 234.283  
 D.C. NON-POLAR RELAY Rule 236.106 and 234.283

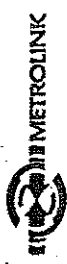
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- A \* Adjustment made & test complete.
- E \* Equipment in satisfactory condition.
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- S \* Repairs or replacement made.
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SUBDIVISION VENTURA LOCATION C.P. BERNSON  
 RELAY NAME HR RELAY TYPE ST  
 MANUFACTURER SAFETRAN PIECE NO. 400000  
 SERIAL NO. 110314 COIL RESISTANCE 500 OHM

YEAR	2008	INITIAL CHARGE		RATED				RESULT OF TEST:
		MINIMUM	RELEASE	MAX. DIRECT PICK-UP	WORKING	MAX. CHANGE OVER		
		NEUTRAL CONTACTS		NORMAL	REVERSE	NORMAL	REVERSE	C
		3.01						
		DIRECT PICK-UP		NORMAL	REVERSE	Comments:		S.T. MORRIS J. McIntyre DATE 2/24/2008
		5.84						
		WORKING		NORMAL	REVERSE			DATE 3-4-08
		INITIAL CHARGE						
		NEUTRAL CONTACTS		NORMAL	REVERSE	NORMAL	REVERSE	RESULT OF TEST:
		DIRECT PICK-UP		NORMAL	REVERSE	Comments:		NAME (print) SIGNATURE REVIEWED BY (print) SIGNATURE DATE
		WORKING		NORMAL	REVERSE			DATE
		INITIAL CHARGE						
		NEUTRAL CONTACTS		NORMAL	REVERSE	NORMAL	REVERSE	RESULT OF TEST:
		DIRECT PICK-UP		NORMAL	REVERSE	Comments:		NAME (print) SIGNATURE REVIEWED BY (print) SIGNATURE DATE
		WORKING		NORMAL	REVERSE			DATE
		INITIAL CHARGE						
		NEUTRAL CONTACTS		NORMAL	REVERSE	NORMAL	REVERSE	RESULT OF TEST:
		DIRECT PICK-UP		NORMAL	REVERSE	Comments:		NAME (print) SIGNATURE REVIEWED BY (print) SIGNATURE DATE
		WORKING		NORMAL	REVERSE			DATE

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY  
 Communications and Signals Department  
 PARTS 234 and 236 RELAY INSPECTIONS and TESTS



SEARCHLIGHT SIGNAL 2 YEAR TEST Rule 236.102(b)  
 ELECTRIC SWITCH LOCK 2 YEAR TEST Rule 236.106  
 D.C. POLAR RELAY 2 YEAR TEST Rule 236.106 and 234.253  
 D.C. NON-POLAR RELAY 4 YEAR TEST Rule 236.106 and 234.253

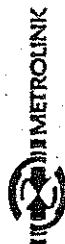
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SUBDIVISION VENTURA LOCATION C.P. BERNSON  
 RELAY NAME F SIG STOP RELAY TYPE ST  
 MANUFACTURER SAFETRAN PIECE NO. 400000  
 SERIAL NO. 300948 COIL RESISTANCE 500 OHM

YEAR	2008	INITIAL CHARGE	RATED						RESULT OF TEST:		
			MINIMUM RELEASE		MAX. DIRECT PICK-UP		WORKING			MAX. CHANGE OVER	
		NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE		
		2.42V.		6.65V.						C	
		12V.									
		NEUTRAL CONTACTS									
		MINIMUM RELEASE	3.32			POLAR CONTACTS					
		REVERSE				CHANGE-OVER		NORMAL			
		MAXIMUM	5.81			Comments:		REVERSE			
		DIRECT PICK-UP								NAME (print) S.T. MORRIS	
		WORKING								SIGNATURE <i>[Signature]</i>	
										REVIEWED BY (print) J. McIntyre	
										SIGNATURE <i>[Signature]</i>	
										DATE 2/24/2008	
										DATE 3-1-08	
		INITIAL CHARGE									
		NEUTRAL CONTACTS									
		MINIMUM RELEASE				POLAR CONTACTS		NORMAL			
		REVERSE				CHANGE-OVER		REVERSE			
		MAXIMUM				Comments:					
		DIRECT PICK-UP								NAME (print)	
		WORKING								SIGNATURE	
										DATE	
										REVIEWED BY (print)	
										SIGNATURE	
										DATE	
		INITIAL CHARGE									
		NEUTRAL CONTACTS									
		MINIMUM RELEASE				POLAR CONTACTS		NORMAL			
		REVERSE				CHANGE-OVER		REVERSE			
		MAXIMUM				Comments:					
		DIRECT PICK-UP								NAME (print)	
		WORKING								SIGNATURE	
										DATE	
										REVIEWED BY (print)	
										SIGNATURE	
										DATE	

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY

Communications and Signals Department  
PARTS 234 and 236 RELAY INSPECTIONS and TESTS



- 2 YEAR TEST Rule 236.102(b)
- 2 YEAR TEST Rule 236.105
- 2 YEAR TEST Rule 236.106 and 234.263
- 4 YEAR TEST Rule 236.106 and 234.263

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SUBDIVISION VENTURA LOCATION C.P. BERNSON  
RELAY NAME DTRR RELAY TYPE ST  
MANUFACTURER SAFETRAN PIECE NO. 4000510  
SERIAL NO. 300261 COIL RESISTANCE 2 OHM

RATED							
MINIMUM RELEASE		MAX. DIRECT PICK-UP		WORKING		MAX. CHANGE OVER	
NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE
0.620a		1.738a					

YEAR	2008	INITIAL CHARGE	12 V.	RESULT OF TEST:	C
		NEUTRAL CONTACTS	4X4		
		MINIMUM RELEASE	0.0872		
		MAXIMUM	0.1499		
		DIRECT PICK-UP			
		WORKING			
		POLAR CONTACTS			
		NORMAL	NORMAL		
		REVERSE	REVERSE		
		CHANGE-OVER			
		Comments:			
		NAME (print) S.T. MORRIS			
		SIGNATURE <i>[Signature]</i>			
		REVIEWED BY (print) J. McIntyre			
		SIGNATURE <i>[Signature]</i>			
		DATE 2/24/2008			
		DATE 3-4-08			

YEAR		INITIAL CHARGE		RESULT OF TEST:
		NEUTRAL CONTACTS		
		MINIMUM RELEASE		
		MAXIMUM		
		DIRECT PICK-UP		
		WORKING		
		POLAR CONTACTS		
		NORMAL	NORMAL	
		REVERSE	REVERSE	
		CHANGE-OVER		
		Comments:		
		NAME (print)		
		SIGNATURE		
		REVIEWED BY (print)		
		SIGNATURE		
		DATE		
		DATE		

YEAR		INITIAL CHARGE		RESULT OF TEST:
		NEUTRAL CONTACTS		
		MINIMUM RELEASE		
		MAXIMUM		
		DIRECT PICK-UP		
		WORKING		
		POLAR CONTACTS		
		NORMAL	NORMAL	
		REVERSE	REVERSE	
		CHANGE-OVER		
		Comments:		
		NAME (print)		
		SIGNATURE		
		REVIEWED BY (print)		
		SIGNATURE		
		DATE		
		DATE		

**SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY**  
**Communications and Signals Department**  
**PARTS 234 and 236 RELAY INSPECTIONS and TESTS**

- SEARCHLIGHT SIGNAL      2 YEAR TEST      Rule 236.102(b)
- ELECTRIC SWITCH LOCK    2 YEAR TEST      Rule 236.105
- D.C. POLAR RELAY        2 YEAR TEST      Rule 236.106 and 234.263
- D.C. NON-POLAR RELAY    4 YEAR TEST      Rule 236.106 and 234.263



**RECORDING MARK:**

- C = Test complete. Equipment in satisfactory condition
- A = Adjustment made & test complete.
- R = Repairs or replacement needed.
- S = Repairs or replacement made.
- = Explain on back of form.

SUBDIVISION      VENTURA      LOCATION      C.P. BERNSON  
 RELAY NAME        DTR            RELAY TYPE      ST  
 MANUFACTURER    SAFETRAN      PIECE NO.        4000510  
 SERIAL NO.        300271        COIL RESISTANCE      2 OHM

RATED							
MINIMUM RELEASE		MAX. DIRECT PICK-UP		WORKING		MAX. CHANGE OVER	
NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE
0.620a.		1738a.					

YEAR	2008	INITIAL CHARGE	12 V.	RESULT OF TEST:	C
NEUTRAL CONTACTS		4X4		POLAR CONTACTS	
MINIMUM RELEASE	NORMAL	REVERSE	0.0952	NORMAL	REVERSE
MAXIMUM DIRECT PICK-UP	NORMAL	REVERSE	0.1494	CHANGE-OVER	Comments:
WORKING	NORMAL	REVERSE		NAME (print)	S.T. MORRIS
				SIGNATURE	<i>[Signature]</i>
				REVIEWED BY (print)	J. McIntyre
				SIGNATURE	<i>[Signature]</i>
				DATE	2/24/2008
				DATE	3-11-08

YEAR		INITIAL CHARGE		RESULT OF TEST:	
NEUTRAL CONTACTS				POLAR CONTACTS	
MINIMUM RELEASE	NORMAL	REVERSE		NORMAL	REVERSE
MAXIMUM DIRECT PICK-UP	NORMAL	REVERSE		CHANGE-OVER	Comments:
WORKING	NORMAL	REVERSE		NAME (print)	
				SIGNATURE	
				REVIEWED BY (print)	
				SIGNATURE	
				DATE	

YEAR		INITIAL CHARGE		RESULT OF TEST:	
NEUTRAL CONTACTS				POLAR CONTACTS	
MINIMUM RELEASE	NORMAL	REVERSE		NORMAL	REVERSE
MAXIMUM DIRECT PICK-UP	NORMAL	REVERSE		CHANGE-OVER	Comments:
WORKING	NORMAL	REVERSE		NAME (print)	
				SIGNATURE	
				REVIEWED BY (print)	
				SIGNATURE	
				DATE	

**SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY**  
**Communications and Signals Department**  
**PARTS 234 and 236 RELAY INSPECTIONS and TESTS**

SHEET 9 OF 10 SHEETS



SEARCHLIGHT SIGNAL Rule 236.102(b)  
 ELECTRIC SWITCH LOCK Rule 236.105  
 D.C. POLAR RELAY Rule 236.106 and 234.263  
 D.C. NON-POLAR RELAY Rule 236.106 and 234.263

**RECORDING MARK:**

- C \* Test complete. Equipment in satisfactory condition
- A \* Adjustment made & test complete.
- R \* Repair or replacement needed.
- S \* Repair or replacement made.
- E \* Equipment in satisfactory condition.
- X \* Explain on back of form.

SUBDIVISION VENTURA LOCATION  
 RELAY NAME 4461NWTPT RELAY TYPE B  
 MANUFACTURER GRS PIECE NO. A62-125  
 SERIAL NO. 23477M070 COIL RESISTANCE 500 OHM  
 C.P. BERNSON

YEAR	2008	INITIAL CHARGE	RATED						RESULT OF TEST:		
			MINIMUM RELEASE		MAX. DIRECT PICK-UP		WORKING			MAX. CHANGE OVER	
			NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE	
			0.0039		0.0127						

YEAR	2008	INITIAL CHARGE	POLAR CONTACTS						RESULT OF TEST:		
			MINIMUM RELEASE		MAXIMUM DIRECT PICK-UP		WORKING				
			NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE			
			0.0064		0.0118						
			Comments:								

NAME (print) S.T. MORRIS  
 SIGNATURE *[Signature]* DATE 2/24/20  
 REVIEWED BY (print) J. Mc Intyre  
 SIGNATURE *[Signature]* DATE 3-4-08

YEAR	2008	INITIAL CHARGE	POLAR CONTACTS						RESULT OF TEST:		
			MINIMUM RELEASE		MAXIMUM DIRECT PICK-UP		WORKING				
			NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE			
			Comments:								

NAME (print)  
 SIGNATURE  
 REVIEWED BY (print)  
 SIGNATURE  
 DATE  
 DATE

YEAR	2008	INITIAL CHARGE	POLAR CONTACTS						RESULT OF TEST:		
			MINIMUM RELEASE		MAXIMUM DIRECT PICK-UP		WORKING				
			NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE			
			Comments:								

NAME (print)  
 SIGNATURE  
 REVIEWED BY (print)  
 SIGNATURE  
 DATE  
 DATE



**SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY**  
**Communications and Signals Department**  
**PARTS 234 and 236 RELAY INSPECTIONS and TESTS**



SEARCHLIGHT SIGNAL Rule 236.102(b)  
 ELECTRIC SWITCH LOCK Rule 236.108  
 D.C. POLAR RELAY Rule 236.106 and 234.263  
 D.C. NON-POLAR RELAY Rule 236.108 and 234.263

**RECORDING MARK:**

- C \* Test complete, Equipment in satisfactory condition
- A \* Adjustment made & test complete.
- R \* Repairs in satisfactory condition.
- S \* Repairs or replacement needed.
- Equipment in satisfactory condition.
- Equipment in satisfactory condition.
- Explain on back of form.

SUBDIVISION VENTURA LOCATION C.P. BERNSON  
 RELAY NAME 2WLR RELAY TYPE ST  
 MANUFACTURER SAFETRAN PIECE NO. 400000  
 SERIAL NO. 213258 COIL RESISTANCE 500 OHM

YEAR	INITIAL CHARGE	RATED						RESULT OF TEST:	
		MINIMUM RELEASE		MAX. DIRECT PICK-UP		WORKING			MAX. CHANGE OVER
		NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE
2008	12V.	2.42V.		5.66V.					

YEAR	INITIAL CHARGE	POLAR CONTACTS				CHANGE-OVER	Comments:	NAME (print)	SIGNATURE	DATE
		MINIMUM RELEASE	MAXIMUM	DIRECT PICK-UP	WORKING					
	6X5	NORMAL	2.82	NORMAL			S.T. MORRIS		2/24/11	
		REVERSE		REVERSE			J. McIntyre		3-14-11	

YEAR	INITIAL CHARGE	POLAR CONTACTS				CHANGE-OVER	Comments:	NAME (print)	SIGNATURE	DATE
		MINIMUM RELEASE	MAXIMUM	DIRECT PICK-UP	WORKING					
		NORMAL		NORMAL						
		REVERSE		REVERSE						

YEAR	INITIAL CHARGE	POLAR CONTACTS				CHANGE-OVER	Comments:	NAME (print)	SIGNATURE	DATE
		MINIMUM RELEASE	MAXIMUM	DIRECT PICK-UP	WORKING					
		NORMAL		NORMAL						
		REVERSE		REVERSE						



SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY  
Communications and Signals Department

SHEET 2 OF 6 SHEETS

TEN YEAR INSULATION RESISTANCE TEST FOR WIRES IN TRUNKING AND CABLES  
RULES 234.267 and 236.108

RECORDING MARK:

- C = Test complete. Equipment in satisfactory condition.
- \* A = Adjustment made & test complete. Equipment in satisfactory condition.
- \* R = Repairs or replacement needed.
- \* S = Repairs or replacement made. Equipment in satisfactory condition.
- \* = Explain on back of form.



LOCATION: C.P. BERNSON  
SUBDIVISION: VENTURA

TESTED BY: S. MORRIS  
NAME (Print):  
SIGNATURE:

MONTH: JULY  
YEAR: 2008

DATE OF TEST	CABLE	WIRE I.D.	TEST RESULTS	RESISTANCE	REMARKS	CONDITION
7/27/2008	10C #9	SP	C	INF		
		SP				
		SP				
		SP				
		SP				
		NTSGYE		2G		
		TSGE		INF		
		TSYE				
		NTSRE				
		TSRE	X			

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY  
 Communications and Signals Department

TEN YEAR INSULATION RESISTANCE TEST FOR WIRES IN TRUNKING AND CABLES  
 RULES 234.267 and 236.108

RECORDING MARK:

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- S = Repairs or replacement made. Equipment in satisfactory condition.
- = Explain on back of form.



LOCATION: C.P. BERNSON  
 SUBDIVISION: VENTURA

TESTED BY:  
 NAME (Print): H.T. MORRIS  
 SIGNATURE: *[Signature]*

MONTH: JULY  
 YEAR: 2008

DATE OF TEST	CABLE	WIRE I.D.	TEST RESULTS	RESISTANCE	REMARKS	CONDITION
7/27/2008	10C #9	SP	C	INF	CIRCUITS NOT MEETING SPECIFICATIONS	
		SP		↓		
		SP		500M		
		SP		↓		
		NTMGYE		↓		
		TMGE		INF		
		TMYE		↓		
		NTMRE		↓		
		TMRE		↓		





TEN YEAR INSULATION RESISTANCE TEST FOR WIRES IN TRUNKING AND CABLES  
 RULES 234.267 and 236.108

RECORDING MARK:

- C = Test complete. Equipment in satisfactory condition.
- A = Adjustment made & test complete. Equipment in satisfactory condition.
- R = Repairs or replacement needed.
- S = Repairs or replacement made. Equipment in satisfactory condition.
- \* = Explain on back of form.



LOCATION: C.P. BERNSON  
 SUBDIVISION: VENTURA

TESTED BY: S.T. MORRIS  
 NAME (Print): S.T. MORRIS  
 SIGNATURE: *[Signature]*

MONTH: JULY  
 YEAR: 2008

DATE OF TEST	CABLE	WIRE I.D.	TEST RESULTS	RESISTANCE	REMARKS	CONDITION
7/27/2008	10C #9	SP	C	INF		
		SP				
		SP				
		SP				
		SP				
		NFMCYE				
		FMGE				
		FMYE				
		NFMRE				
		FMRE				