

DCA-08-MR-009
Metrolink – UP Collision
Chatsworth, CA
September 12, 2008

ATTACHMENT 11

Intermediate Westbound Signal 4451
Pre-accident Inspection and Test Records

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



SUBDIVISION: Ventura LOCATION: Signals 4451-54
 RELAY NAME: B1 RELAY TYPE: B1
 MANUFACTURER: GRS PIECE NO.: A62-682
 SERIAL NO.: 34842N047 COIL RESISTANCE: 4.2

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

MINIMUM RELEASE		MAX. DIRECT PICK-UP		WORKING		MAX. CHANGE OVER	
NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE
.052A		.104A		.104A			

YEAR 2002 INITIAL CHARGE: Pass
 RESULT OF TEST: Pass

NEUTRAL CONTACTS	POLAR CONTACTS	
	NORMAL	REVERSE
MINIMUM RELEASE	.042A	
MAXIMUM DIRECT PICK-UP	.116A	
WORKING		

NAME (print): J.D. Sacramento
 SIGNATURE: J.D. Sacramento DATE: 7/8/02
 REVIEWED BY (print):
 SIGNATURE: DATE:

YEAR 2002 INITIAL CHARGE:
 RESULT OF TEST:

NEUTRAL CONTACTS	POLAR CONTACTS	
	NORMAL	REVERSE
MINIMUM RELEASE		
MAXIMUM DIRECT PICK-UP		
WORKING		

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

YEAR 2002 INITIAL CHARGE:
 RESULT OF TEST:

NEUTRAL CONTACTS	POLAR CONTACTS	
	NORMAL	REVERSE
MINIMUM RELEASE		
MAXIMUM DIRECT PICK-UP		
WORKING		

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

SOUTHERN CALIFORNIA 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
- POLAR RELAY - Rule 236.106 and 234.263
- NON-POLAR RELAY - Rule 236.108 and 234.263



SUBDIVISION Ventura LOCATION Signals 4451-54
 RELAY NAME IATR RELAY TYPE B1
 MANUFACTURER GRS PIECE NO. A6Z-68Z
 SERIAL NO. 28385 N080 COIL RESISTANCE 452

RECORDING MARK:

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

RATED					
MINIMUM RELEASE	MAX. DIRECT PICK-UP		WORKING	MAX. CHANGE OVER	
	NORMAL	REVERSE	NORMAL	REVERSE	REVERSE
.052A	.107A				

YEAR 2002

INITIAL CHARGE		POLAR CONTACTS		CHANGE-OVER		Comments:		RESULT OF TEST:	
MINIMUM RELEASE	MAXIMUM DIRECT PICK-UP	NORMAL	REVERSE	NORMAL	REVERSE	NORMAL	REVERSE	NAME (print)	DATE
		.052A						J. D. Secombe	7/8/02
		.107A						J. D. Secombe	7/8/02

YEAR

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

YEAR

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

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



LOCATION: Signals 4451-54
 SUBDIVISION: Ventura

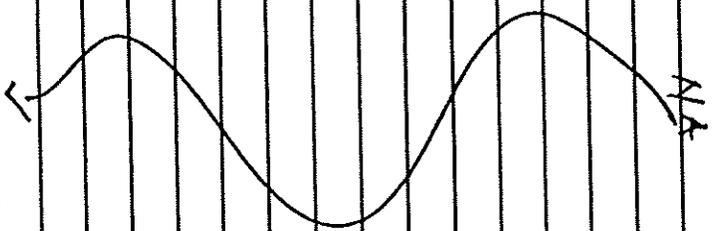
- RECORDING MARK:
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 A = Adjustment made & test complete. Equipment in satisfactory condition.
 R = Repairs or replacement needed.
 S = Repairs or replacement made. Equipment in satisfactory condition.

MONTH: June
 YEAR: 2002

TESTED BY:
 NAME (Print): Toson Sacramento
 SIGNATURE: Toson D. Sacramento

* = Explain on back of form.

DATE OF TEST	CABLE	WIRE I.D.	TEST RESULTS	RESISTANCE	CIRCUITS NOT MEETING SPECIFICATIONS	REMARKS	CONDITION
6-29-02	7c#6						
	#1	3ADGE	Pass	∞			
	#2	3AHGE	Pass	∞			
	#3	3ARGE	Pass	∞			
	#4	3AGEN	Pass	∞			
	#5	Spore	Pass	∞			
	#6	3AGEN	Pass	∞			
	#7	Spore	Pass	∞			
6-29-02	7c#6						
	#1	4ADGE	Pass	∞			
	#2	4AHGE	Pass	∞			
	#3	4ARGE	Pass	∞			
	#4	4AGEN	Pass	∞			
	#5	Spore	Pass	∞			
	#6	4AGEN	Pass	∞			
	#7	Spore	Pass	∞			



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



LOCATION: Signals 4451-54
 SUBDIVISION: San Jose

- 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.

MONTH: June
 YEAR: 2002

TESTED BY: Jason Sorenson
 NAME (Print): Jason Sorenson
 SIGNATURE: [Signature]

* = Explain on back of form.

DATE OF TEST	CABLE	WIRE I.D.	TEST RESULTS	RESISTANCE	CIRCUITS NOT MEETING SPECIFICATIONS	REMARKS	CONDITION
6-29-02	7c#6						
	#1	1ADGE	Pass	∞		NA	
	#2	1AHGE	Pass	∞			
	#3	1ARGE	Pass	∞			
	#4	Space	Pass	∞			
	#5	1AGEN	Pass	∞			
	#6	1AGEN	Pass	∞			
	#	Space	Pass	∞			
6-29-02	7c#6						
	#1	ZADGE	Pass	∞			
	#2	1AHGE	Pass	∞			
	#3	1ARGE	Pass	∞			
	#4	Space	Pass	∞			
	#5	ZAGEN	Pass	∞			
	#6	ZAGEN	Pass	∞			
	#7	Space	Pass	∞			

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



LOCATION: Signals 4451-54
 SUBDIVISION: San Jose

- * R = Test complete. Equipment in satisfactory condition.
- * S = Adjustment made & test complete. Equipment in satisfactory condition.
- * R = Repairs or replacement needed.
- * S = Repairs or replacement made. Equipment in satisfactory condition.

MONTH: June
 YEAR: 2002

TESTED BY: Tyson Sorenson
 NAME (Print): Tyson Sorenson
 SIGNATURE: Tyson Sorenson

Explain on back of form.

DATE OF TEST	CABLE	WIRE I.D.	TEST RESULTS	RESISTANCE	CIRCUITS NOT MEETING SPECIFICATIONS	REMARKS	CONDITION
6-29-02	7c#6						
	#1	1ADGE	Pass	∞		N/A	
	#2	1AHGE	Pass	∞			
	#3	1ARGE	Pass	∞			
	#4	Spacc	Pass	∞			
	#5	1AGEN	Pass	∞			
	#6	1AGEN	Pass	∞			
	#	Spacc	Pass	∞			
6-29-02	7c#6						
	#1	ZADGE	Pass	∞			
	#2	1AHGE	Pass	∞			
	#3	1ARGE	Pass	∞			
	#4	Spacc	Pass	∞			
	#5	ZAGEN	Pass	∞			
	#6	ZAGEN	Pass	∞			
	#7	Spacc	Pass	∞			