

REPORT NO. UMTA-MA-06-0025-79-6,IV

SLRV ENGINEERING TESTS AT DEPARTMENT OF TRANSPORTATION
TRANSPORTATION TEST CENTER
FINAL TEST REPORT
Volume IV - Data Logs

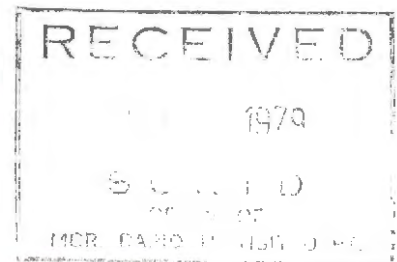
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Philadelphia, PA 19142



JUNE 1979

FINAL REPORT

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VIRGINIA 22161



Prepared for
U.S. DEPARTMENT OF TRANSPORTATION
URBAN MASS TRANSPORTATION ADMINISTRATION
Office of Technology Development and Deployment
Office of Rail and Construction Technology
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16. Abstract In May 1973, Boeing Vertol Company was awarded a contract to build Light Rail Vehicles to a specification sponsored by Department of Transportation's Urban Mass Transportation Administration, and identified a Standard Light Rail Vehicle (SLRV). Engineering testing on the SLRV was conducted by Boeing Vertol Company in accordance with the General Vehicle Test Plan GSP-064 at the Transportation Test Center, Pueblo, Colorado. The tests were conducted in conjunction with the Qualification Testing of three SLRV Production Pilot Cars (SF-0002, SF-0003, and MB-0002). This report presents the results of the series of tests conducted in accordance with GSP-064. Volume I contains a description of the SLRV Test Program and the vehicle, and a summary of the test results; Volume II, Performance and Power Consumption Test Data; Volume III, Ride Quality, Noise, and Radio Frequency Interference Test Data; and Volume IV, a log of all tests collated by test objective and test vehicle.					
17. Key Words General Vehicle Tests Light Rail Vehicle Transportation Test Center			18. Distribution Statement DOCUMENT IS AVAILABLE TO THE PUBLIC THROUGH THE NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, VIRGINIA 22161		
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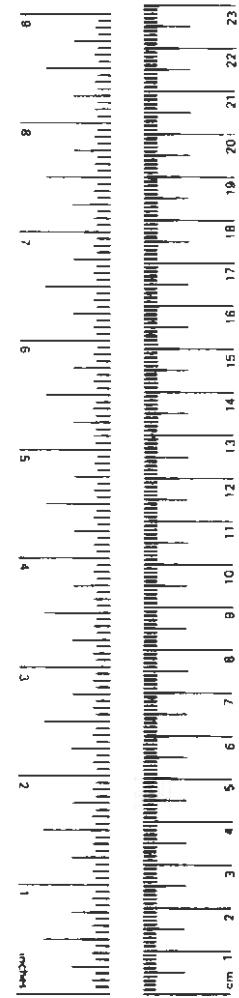
20010

METRIC CONVERSION FACTORS

Approximate Conversions to Metric Measures

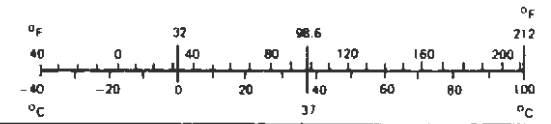
Symbol	When You Know	Multiply by	To Find	Symbol
LENGTH				
in	inches	* 2.5	centimeters	cm
ft	feet	30	centimeters	cm
yd	yards	0.9	meters	m
mi	miles	1.6	kilometers	km
AREA				
in ²	square inches	6.5	square centimeters	cm ²
ft ²	square feet	0.09	square meters	m ²
yd ²	square yards	0.8	square meters	m ²
mi ²	square miles	2.6	square kilometers	km ²
	acres	0.4	hectares	ha
MASS (weight)				
oz	ounces	28	grams	g
lb	pounds	0.45	kilograms	kg
	short tons (2000 lb)	0.9	tonnes	t
VOLUME				
tap	teaspoons	5	milliliters	ml
Tbsp	tablespoons	15	milliliters	ml
fl oz	fluid ounces	30	milliliters	ml
c	cups	0.24	liters	l
pt	pints	0.47	liters	l
qt	quarts	0.95	liters	l
gal	gallons	3.8	liters	l
ft ³	cubic feet	0.03	cubic meters	m ³
yd ³	cubic yards	0.76	cubic meters	m ³
TEMPERATURE (exact)				
°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C

* 1 in = 2.54 cm (exactly). For other exact conversions and more detailed tables, see NBS Misc. Pub. 786, Units of Weights and Measures, Price \$2.25, SD Catalog No. C13 10-288.



Approximate Conversions from Metric Measures

Symbol	When You Know	Multiply by	To Find	Symbol
LENGTH				
mm	millimeters	0.04	inches	in
cm	centimeters	0.4	inches	in
m	meters	3.3	feet	ft
m	meters	1.1	yards	yd
km	kilometers	0.6	miles	mi
AREA				
cm ²	square centimeters	0.16	square inches	in ²
m ²	square meters	1.2	square yards	yd ²
km ²	square kilometers	0.4	square miles	mi ²
ha	hectares (10,000 m ²)	2.5	acres	
MASS (weight)				
g	grams	0.035	ounces	oz
kg	kilograms	2.2	pounds	lb
t	tonnes (1000 kg)	1.1	short tons	
VOLUME				
ml	milliliters	0.03	fluid ounces	fl oz
l	liters	2.1	pints	pt
l	liters	1.06	quarts	qt
l	liters	0.26	gallons	gal
m ³	cubic meters	35	cubic feet	ft ³
m ³	cubic meters	1.3	cubic yards	yd ³
TEMPERATURE (exact)				
°C	Celsius temperature	9/5 (then add 32)	Fahrenheit	°F



CONTENTS

Section		Page
A	Total Test Log on Car SF0002	A-1
B	Total Test Log on Car SF0003	B-1
C	Total Test Log on Car MB0002	C-1
	Appendix I – Data Log – Collated by GVTP Test Number	I-1
	Appendix II – Data Log – Collated by Magnetic Tape Number	II-1

A. TOTAL TEST LOG ON CAR SF0002

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 1 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
10/8/75	1	2 ACCEL 3 F.S. BRAKE 4 FRICTION 5 EMERGENCY	100% ↓ ↓ ↓	0-50 50-0 30-0 30	AWO ↓ ↓ ↓	SF0002 ↓ ↓ ↓	N N N S		
10/14/75	2	1 CAB SIG 2 ACCEL 2 T.V. DEMO 3 ACCEL 4 ↓ 5 ↓	100% ↓ ↓ ↓ ↓	0-50 ↓ ↓ ↓ ↓	AWO ↓ ↓ ↓ ↓	SF0002 ↓ ↓ ↓ ↓	S N S N	660 v.	
10/15/75	3	1 CAB SIG. 2 ANTENNA 3 ↓ 4 ↓ 5 ↓ 6 ↓ 7 ↓ 8 ↓ 9 ↓ 10 ↓ 11 ↓ 12 SPEED 13 CALIB 14 ↓ 15 ↓ 16 ↓ 17 ↓ 18 ↓ 19 ↓ 20 ACCEL	100% 30% 25% 50% 50% 100% 25% 25% 50% 100% ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ 100%	0-20 ↓ ↓ ↓ 0-20 0-10 0-20 ↓ 0-20 20 30 30 30 40 40 50 50 0-50	AWO ↓	SF0002 ↓	N N N N N N N N N N N N S N S S S S S S N		
10/16/75	4	1 CONST. SPEED 2 ↓ 3 SPEED SENSOR 4 CONST. SPEED 5 ↓ 6 ACCEL 7 - 8 ACCEL 9 ↓	100% ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	45 45 0-30 45 45 0-36 - 0-36 0-50	AWO ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	SF0002 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	N S N N S S S S N		

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 2 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
10/14/75	4								
	10	ACCEL	100 %		AWO	SF0002	Z		
	11	F.S. BRAKE	↓		↓	↓	S		
	12	F.S. BRAKE	↓		↓	↓	S		
	13	FRICION	↓		↓	↓	Z		
10/20/75	5								
	1	ACCEL	100%	0-30	AWO	SF0002	Z		TAPE A-1, B-1
	2	↓		0-30	↓	↓	S		
	3	↓	50%	0-30	↓	↓	S		
	4	F.S. BRAKE	100%	20	↓	↓	S		
	5	↓	50%	20	↓	↓	S		
	6	↓	100%	30	↓	↓	S		
	7	↓	50%	30	↓	↓	S		
	8	↓	100%	50	↓	↓	S		
	9	↓	50%	50	↓	↓	S		
	10	↓	100%	50	↓	↓	Z		
	11	FRICION	100%	20	↓	↓	S		
	12	↓	50%	20	↓	↓	S		
	13	↓	100%	30	↓	↓	S		
	14	↓	50%	30	↓	↓	S		
	15	F.S. BRAKE	100%	40	↓	↓	S		
	16	FRICION	100%	40	↓	↓	S		
	17	↓	50%	40	↓	↓	S		
	18	↓	100%	50	↓	↓	S		
	19	↓	50%	50	↓	↓	S		
	20	↓	100%	50	↓	↓	Z		
21	EMERGENCY	100%	30	↓	↓	S			
10/21/75	6								
	1	EMERGENCY	100%	30	AWO	SF0002	S		TAPE A-1, B-1
	2	↓		30	↓	↓	S		
	3	↓		30	↓	↓	S		
	4	↓		30	↓	↓	S		
	5	↓		30	↓	↓	S		
	6	↓		50	↓	↓	S		
	7	↓		30	↓	↓	Z		
	8	↓		30	↓	↓	Z		
	9	DYNAMIC	100%	20	↓	↓	S		
	10	↓	50	20	↓	↓	S		
	11	↓	100	30	↓	↓	S		
	12	↓	50	30	↓	↓	S		
13	↓	100	40	↓	↓	S			

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 3 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:						
10/21/75	6	14	DYNAMIC	50%	40	AWO	SF0002		Tape A-1, B-1						
		15	↓	100%	50										
		16	↓	100%	50										
		17	↓	50%	50										
		18	SPEED CALIB	100%	20										
		19	↓		20										
		20	↓		30										
		21	↓		30										
		22	↓		40										
		23	↓		40										
		24	↓		45										
		25	↓		50										
		26	TRACK BRAKE		10										
		27	↓		20										
		28	↓		30										
		29	↓		40										
		30	↓		50										
		31	↓		50										
		10/22/75	7	1	ACCEL					100%	0-50	AWO	SF0002	570	
				2	↓						0-50				
				3	↓						0-50				
				4	↓						0-50				
				5	↓						0-50				
				6	↓						0-50				
				7	DYNAMIC					100%	30				
				8	↓						30				
				9	↓						30				
		10/24/75	8	1	ACCEL					100%	0-50	AWO	SF0002		
				2	ACCEL						0-50				
				3	DRIFT						30-0				
				4	↓						30-20				
5	↓				30-20										
6	BLENDED FRICTION				30										
7	↓				30										
8	↓				30										
9	↓				30										
10	↓				30										
11	↓				30										
12	↓				30										

SLRY ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 4 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
10/29/75	9	1 ACCEL	100	0-50	AWO	SF0002	Z		} No. CEC
	2	↓		0-50					
	3			0-50					
	4			0-50					
	5	↓							
	6	ACCEL	↓	0-35					
	6	BLENDED	50	35-0					
	7	↓	50	35-0					
	8	ACCEL	100	0-35					
	8	BLENDED	100	35-0					
	9	ACCEL	100	0-35					
	9	BLENDED	100	35-0					
	10	ACCEL	100	0-35					
	10	BLENDED	50	35-0					
	11	ACCEL	100	0-35					
11	BLENDED	100	35-0						
12	ACCEL	100	0-35						
12	EMERGENCY	100	35-0						
13	EMERGENCY	100	35-0						
14	STEADY STATE ACCEL	↓	50						
15	EMERGENCY	↓							
	10	SKIPPED							
11/3/75	11	1 F.S. BRAKE	50%	35	AW 2	SF0002	Z		
	2	↓	100%	35					
	3		50%	35					
	4	↓	100%	35					
	5	ACCEL	100	50					
	6	DECEL	↓	50					
	7	EMERGENCY	↓	35					
	8	↓		35					
	9			35					
	10	↓		35					
	11			35					
	12	F.S. BRAKE	25%	35					
	13	↓	75%	35					
	14		25%	35					
	15	↓	75%	35					
	16	ACCEL	100%	0-50					
	17	ACCEL	100%	0-50					

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 5 OF 36

DATE	TEST NO. REC NO	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
11/3/75	11	ACCEL	100%	0-50	AW2	SF0002	N		PANOGRAPH BOUNCE
	18			0-50			S		
	19			0-50			N		
	20			0-50			S		
	21			0-50			N		
	22	F.S. BRAKE		30			S		
	23			30			N		
24			30			S			
25			30.5			N			
11/24/75	12	CAB ACCEL	SIGNAL 100%	INTERFERENCE 0-20	AW2	SF0002			100 AMPS 200 AMPS 100 AMPS 200 AMPS 100 AMPS 200 AMPS
	1								
	2								
	3								
	4								
	5								
	6								
	7				0-50			N	
	8							S	
	9							N	
	10							S	
	11							N	
	12	ACCEL			0-50			S	
	13	FRICION BRAKE			47			S	
14				37			S		
15				48			S		
16				46			N		
17				45			N		
18				29			S		
19	TRACK BRAKE			30			N		
20				30			S		
21				31			S		
22				30			N		
23				30			N		
24				30			N		
11/26/75	13	ACCEL	100%	0-50	AW2	SF0002	N		
	1						S		
	2						N		
	3						S		
	4						N		
	5						S		
	6						N		
7						S			

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 6 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
11/26/75	13 8 9 10 11	FRICTION BRAKE ↓	100% ↓	30 30 50 48	AW2 ↓	SF0002 ↓	S N S N		
12/2/75	14 1 2 3 4	ACCEL ↓	100% ↓	0-50 " "	AW2 ↓	SF0002 ↓	S		T.E. PAUSES
12/3/75	15 1T 2T 3T 4 5T 6 7 8 9 10T 11 12 13 14 15 16 17	SPEED CALIB ↓ ACCEL ↓	100% ↓	30 30 30 30 40 40 50 48 48 30 0-50 0-50	AW2 ↓	SF0002 ↓	N S N S N S N S N S N S N S N		Tape A-1, B-1 RESET WHEEL WEAR POT OVERSPEED T.E. PAUSES DIAGNOSTIC GARRETT PAN. BOUNCE PAN BOUNCE INST. RECONNECTED
12/8/75	16 1	CAB SIG	100%		AW2	SF0002	N		
12/9/75	17 1 30	CAB SIGNAL ↓	100% ↓		AW2 ↓	SF0002 ↓			
12/11/75	18 1 2 3 4 5 6 7	SPEED CALIB ↓	100% ↓	30 30 40 40 50 50(48) 48	AW2 ↓	SF0002 ↓	N S N S N N S		OVERSPEED

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE & CAB SIGNAL

SHEET 7 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
12/11/75	18 8 9 10 11 12 13	SPEED CALIB ACCEL ↓	100% ↓ ↓ ↓ ↓ ↓	20 20 0-50 0-50 0-50	AW2 ↓ ↓ ↓ ↓	SF0002 ↓ ↓ ↓ ↓	N N N N N S		
12/12/75	19 1 2 3 4 5 6 7 8	2 CAR TRAIN ↓	100% ↓ ↓ ↓ ↓ ↓ ↓	35 50 50 50 50	AW2/AW0 ↓ ↓ ↓ ↓ ↓	SF0002 & SF0003 ↓ ↓ ↓ ↓ ↓	S N S N S N S N		JERKING PROP DISBLE T.V. CREW ON SF0003 T.V. CREW ON SF0002
12/12/75	20	CAB SIGNAL	100% 50%		AW2	SF0002			
12/15/75	21 1 THRU 16	CAB SIGNAL			AW2				TEST 4-1
12/18/75	22 1 2 3 4 5 6 7 8 9	SPEED ON ACCEL ↓	100% ↓ ↓ ↓ ↓ ↓ ↓	20 40 0-50 ↓ ↓ ↓	AW2 ↓ ↓ ↓ ↓ ↓	SF0002 ↓ ↓ ↓ ↓ ↓	N S N S N S N S N		ARMATURE CURRENT 720 AMPS T.E. PAUSES ADJ. OF HALL SENSOR PANO. BOUNCE & HALL SENSOR ADJ.
12/19/75	23 1 2 3 4 5 6 7 8 9 10	ACCEL ↓	100% ↓ ↓ ↓ ↓ ↓ ↓	0-50 ↓ ↓ ↓ ↓ ↓	AW2 ↓ ↓ ↓ ↓ ↓	SF0002 ↓ ↓ ↓ ↓ ↓	S N S N S N S N S N		TAPE A-2, B-2 T.E. PAUSES NO PAUSE TWO PAUSES NO PAUSE TWO PAUSES NO PAUSE ↓

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 5 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
12/19/75	23	11 T ACCEL	25%	0-40	AW2	SF0002	S		TAPE A-2, B-2 SF0003 ECU CARDS A9, 10, 11, 12 & A13 INSTL. SF0002 REPLACED.
		12 ↓	25%				N		
		13 ACCEL	100%	0-50			N		
		14 F.S. BRAKE		20 NO GOOD					
		15 T ↓		20			S		
		16 FRICTION		30			S		
		17 T F.S. BRAKE		20			N		
		18 ↓		20			N		
		19	50%	20			N		
		20	100%	30			S		
		21	100%	30			S		
		22	50%	30			S		
		23	100%	40			N		
		24	50%	40			N		
		25	100%	50			S		
		26	100%	50			N		
		27	50%	50			S		
		28	100%	20			S		
		29	50%	20			N		
		30 FRICTION	50%	20			N		
		31	100%	30			N		
		32	50%	30			S		
		33	100%	40			S		
		34	50%	40			N		
		35	100%	50			S		
		36 ↓	100%	50			N		
		37 T	50%	50			S		
		38 SPEED	100%	40			N		
		39 CALIB	100%	30			S		
12/22/75	24	1 T ACCEL	100%	0-50	AW2	SF0002	S	THREE T.E. PAUSES PRMO BOUNCE TAPE A-2, B-2	
		2 ↓		0-50			N		
		3 TRACK BRK		10			S		
		4 ↓		20			S		
		5		30			S		
		6		40			N		
		7		50			S		
		8 ↓		20			S		
		9 DYNAMIC	100%	20			N		
		10 ↓	50%	20			N		
		11	100%	30			N		
		12 ↓	50%	30			S		

SLRY ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 9 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
12/22/75	24	13 T DYNAMIC	100%	40	AW2	SF0002	S		
	14	↓	50%	40					
	15	↓	100%	50					
	16	↓	100%	50					
	17	↓	50%	50					
	18	EMERGENCY	100%	50					
	19	↓		50					
	20	↓		40					
	21	↓		30					
	22	↓		20					
	23	↓		10					
	24	↓		30					
	25	↓		40					
	26	SPEED		50					
	27	CALIB		50					
	28	↓		40					
	29	↓		40					
	30	↓		30					
	31	↓		30					
	32	↓		20					
33	↓		20						
34	↓		10						
35	↓		10						
36	↓		10						
12/23/75	25	1 T ACCEL	100%	0-50	AW2	SF0002	S		TAPE A-2, B-2
	2	↓							NOM. V 550 VOLTS
	3	↓							550 VOLTS
	4	↓							MIN. V 490 VOLTS
	5	↓							485 VOLTS
	6	↓							485 VOLTS
	7	↓							MAX. V 685 VOLTS
	8	↓							700 VOLTS
	9	↓							700 VOLTS
	10	↓							700 VOLTS
	11	↓							700 VOLTS
1/5/76	26	4 DRIFT TEST	100%	50-37	AW2	SF0002	S		TAPE A-3 B-3
	5	↓		50-38					
	6	↓		37-22					
	7	↓		38-25					
	8	↓		22-0					
9	↓		25-0						

TYPE OF TEST: PERFORMANCE

SHEET 10 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:	
1/5/76	26	10	100%		AW2	SF0002	N			
		11								ACCEL FROM COAST
		12								DECEL FROM COAST
		13								DECEL FROM DRIVE
		14								EMERGENCY
		15								ACCEL FROM COAST
		16								DECEL FROM COAST
		17								DECEL FROM DRIVE
		18								EMERGENCY
		19								SPEED CAL
1/7/76	27		100%		AW3	SF0002			"A" CAR VERTICAL OSCILLATION OF 3-4 G'S DUE TO AW3 WEIGHT.	
		1								EMERGENCY
		2								
		3								
1/9/76	28	1	100%	30	AW3	SF0002	N			
		2								50
		3								50
1/12/76	29	1			AW2	SF0002				
		THRU 18								TEST 4-2
		19								TEST 4-1
		THRU 23								
		24								TEST 4-2A
THRU 42										
1/12/76	30	1			AW2	SF0002				
		THRU 9								TEST 4-3
		10								TEST 4-3A
		THRU 28								
		29,30								TEST 4-1
		31,32								TEST 4-3A
		33								TEST 4-3B
THRU 42										
43	TEST 3-1									
THRU 46										

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: CAB SIGNAL & PERFORMANCE

SHEET 11 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
1/14/76	31 1 THRU 23 24 THRU 26	CAB SIGNAL TEST 4-4 TEST 4-4A			AW 2 ↓	SF0002 ↓			
1/15/76	32 THRU 19	CAB SIGNAL ACCEL			AW2 ↓	SF0002 ↓			
1/16/76	33 1 THRU 17	CAB SIGNAL			AW2 ↓	SF0002 SF0003			
1/19/76	34 1 THRU 36	CAB SIGNAL			AW2 ↓	SF0002 ↓			
1/21/76	35 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	ACCEL ↓ EMERGENCY ↓ N.G. EMERGENCY ↓ N.G. EMERGENCY ↓	100 % ↓	0-50 ↓ 50-0 33 20 11 30 30 21 10 40 29 - 39 28 - 28 28 29 26 28 29	AW3 ↓	SF0002 ↓	S N S N S S S S S N N N N N S S S S N N N N		TAPE A-3, B-3 ↓ DEADMAN RELEASE ↓ PULL HANDLE ↓

SLRY ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 12 OF 16

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX on INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
1/21/76	35	25 TRACK BRAKE	100%	50	AW3	SF0002	N		TAPE A-3, B-3
		26		28					
		27		10					
		28		20					
		29		48					
		30		30					
		31		10					
		32		38					
		33		21					
		34		30					
		35		38					
		36		20					
		37		29					
		38		29					
		39		48					
		40		29					
		41		20					
		42		48					
		43		29					
		44		20					
		45		38					
		46		38					
		47		48					
		48		48					
		49		29					
50	29								
1/22/76	36	No Data	100%		AW3	SF0002			
1/23/76	37	1 ACCEL	100%	0-50	AW0	SF0002	S		TAPE A-3, B-3
		2							
		3							
		4							
		5							
		6							
		7		50%					
		8		50%					
		9		100%					
		10		30					
		11		30					
		12		20					
		13		30					
		14		40					

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 13 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:	
1/23/76	37	15	F.S. BRAKE	100%	40	AWO	SF0002		TAPE A-3 B-3	
		16	↓	100%	50					↓
		17	↓	100%	50					↓
		18	↓	50%	30					↓
		19	↓		20					↓
		20	↓		30					↓
		21	↓		20					↓
		22	↓		50					↓
		23	↓		50					↓
		24	FRICION	100%	20					↓
		25	↓		20					↓
		26	↓		30					↓
1/24/75	38	1	FRICION BRAKE	100%	50	AWO	SF0002		TAPE A-4, B-4	
		2	↓	100%	50					↓
		3	↓	50%	20					↓
		4	↓		20					↓
		5	↓		30					↓
		6	↓		30					↓
		7	↓		30					↓
		8	↓		40					↓
		9	↓		40					↓
		10	↓		30					↓
		11	↓		50					↓
		12	↓		50					↓
13	SPEED CALIB	100%	50	↓						
14	↓		50	↓						
15	↓		40	↓						
16	↓		40	↓						
17	↓		30	↓						
18	↓		30	↓						
19	DYNAMIC BRAKE		20	↓						
20	↓		30	↓						
21	↓		20	↓						
22	↓		30	↓						
23	↓		40	↓						
24	↓		40	↓						
25	↓		50	↓						
26	↓		50	↓						

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 14 OF 36

DATE	TEST NO. REC NO. NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
1/27/70	39	1 T DYNAMIC	50%	20	AWO	SF0002	N		TAPE A-4, B-4
		2		30			N		
		3		20			S		
		4		30			S		
		5		40			H		
		6		40			S		
		7		50			N		
		8		50			S		
		9	TRACK BRAKE	100%	20		S		
		10		20			N		
		11		30			N		
		12		10			S		
		13		10			S		
		14		30			S		
		15		30			S		
		16		40			S		
		17		40			N		
		18		50			S		
		19		50			N		
		20		50			N		
		21	EMERGENCY	50			S		
		22		50			N		
		23		50			N		
		24		40			N		
		25		30			N		
		26		40			S		
		27		20			S		
		28		30			S		
		29		20			N		
		30		10			N		
		31		10			N		
		32		10			S		
		33 T		10			S		
		34	PANOGRAPH HOMES	10			S		
		35		10			N		
		36		20			S		
		37		20			N		
		38		30			S		
		39		30			N		
		40		40			S		
		41		40			N		
		42		40			S		
		43		40			N		

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 15 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX on INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
1/28/76	40	2 CAR TRAN	100%		AWO	SF0002 SF0003			NO DATA SEVERE JERKING CAR TO CAR ON ACCEL.
1/29/76	41	ACCEL	100%		AWO	SF0002			GARRETT MODIFICATIONS TO ECU NO DATA EXPLORATORY ONLY.
1/30/76	42	1 ACCEL 2 ↓ 3 ↓ 4 ↓ 5 MIN ACCEL 6 DYNAMIC BRAKE 7 ↓ 8 ACCEL/DECEL 9 CONST SPEED 10 ↓ 11 ↓ 12 ↓ 13 ↓ 14 MIN ACCEL 15 ACCEL/DECEL 16 CONST SPEED	100%	0-30-0 ↓ 0-30-0 ↓ 30 ↓ 0-20-0 ↓ 15 30 ↓ 10 30 ↓ 0-30 ↓ 0-20 25/10/5	AWO	SF0002	S S S S X S S S N N N N X S S S		GARRETT MODIFICATIONS FOR 3.0 ACCEL. RATE
2/2/76	43	1 MAX ACCEL 2 ↓ 3 ↓ 4 ↓ 5 ↓ 6 ↓ 7 ↓ 8 ↓ 9 ↓ 10 ↓ 11 ↓	100%	0-50 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	AWO	SF0002 SF000243 SF000243	N N-S N N S S S Q N S S N	515 480 480 435 525 560 580 580 580	OPPOSITE DIRECTIONS COUPLED PROP DISABLE JERKING 2 QSD'S WEST GEN. ON SLIGHT JERKING TE. PAUSES AT HIGH SPEED
2/3/76	44	1 ACCEL 2 ↓ 3 ↓ 4 ↓ 5 F.S. BRAKE	100%	0-50 0-50 0-44 0-50 50-0	AWO	SF0002 SF0003	N S S N S	570	WEST GEN. + D02001 PROP DISABLE

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE + NOISE

SHEET 16 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/4/76	45	1 ACCEL	100%	0-50	AWO	SF0002	N	NON DOT OR SETTING 590	TAPE A-4, B-4 DOT 001 ONLY
		2							
		3							
		4							
		5							
		6							
		7							
		8							
		9							
		10							
		11							
		12							
		13 CONTROL RESPONSE							
		14							
		15T							
		16T							
		17							
		18							
		19T							
		20T							
		21 SPEED CALIB							
		22							
		23							
		24							
2/5/76	46	DUTY CYCLE PRACTICE							
2/9/76	47	1 NOISE TEST	100%	40	AWO	SF0002	N		
		2							
		3							
		4							
2/10/76	48	1 WAYSIDE NOISE	100%	40	AWO	SF0002	S		
		2							
		3							
		4							
		5							
		6							
		7							
		8							

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: NOISE

SHEET 17 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/11/76	49	1 NOISE	100%	40	AWO	5FG002			
		2 100' 50'		40					
		3		40					
		4		40					
		5		40					
		6		40					
		7		40					
		8		40					
		9		40					
		10 MOVIES		40					
		11		40					
		12		30					
		13		30					
		14		20					
		15		20					
		16		20					
		17		20					
		18 AIR COMP OFF		20					
		19		20					
		20		10					
		21		10					
		22		0					
		23 AIR COMP ON		40					
		24		40					
		25 AIR COMP OFF		40					
		26 200' 400'		40					
		27		40					
		28		40					
		29 57A 380		40					
		30 15' 25'		40					
		31		40					
		32		40					
		33		40					
		34		40					
		35 HIGH SPEED MOVIES		40					
		36		40					
		37		30					
		38		30					
		39		20					
		40		20					
		41		10					
		42		10					

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: NOISE

SHEET 19 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/12/76	50	NOISE	100%		AWO	SF0002		580	INTERIOR NOISE TESTING ONLY DUE TO HIGH WINDS.
2/13/76	51	1 NOISE UNDER CAR EQUIPMENT	100%		AWO	SF0002		580	WEST SIDE OF TRACK EAST SIDE OF TRACK ALL SYSTEMS ON
		2 ↓							
		3 INTERIOR		15, 25, 35					
		4 ↓		15, 25, 35					
		5		50					
		6 ↓		50					
		7 ACCEL. - F.S. BRAKE		0-50-0					
		8 ACCEL.		0-20-0					
		9 WALK-THRU		40					
		10 ↓		40					
		11		40					
		12 ↓		40					
		13		40					
2/17/76	52	1 WAYSIDE NOISE	100%	40	AW3	SF0002	N	580	
		2 ↓		40					
		3 ↓		40					
		4 ↓		50					
		5 ↓		40					
		6 ↓		40					
		7 ↓		40					
		8 ↓		30					
		9 ↓		20					
		10 ↓		10					
		11 ↓		10					
		12 ↓		20					
		13 INTERIOR NOISE		15, 25, 35					
		14 ↓		15, 25, 35					
		15 ↓		50					
		16 ↓		50					
		17 ↓		15, 25, 35					
		18 ↓		15, 25, 35					
		19 ↓		50					
		20 ↓		50					
		21 ACCEL. - F.S. BRAKE		0-50-0					
		22 ↓		0-50-0					
		23 ↓		50%					

SEAT LOCATIONS
↓

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: RIDE QUALITY

SHEET 19 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX on INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:	
2/23/76	53	1	100%	0	AW3	SF0002	-		TAPE A-7, B-7 CONCRETE TIE WELDED RAIL	
		2		RIDE QUALITY						10
		3								20
		4								30
		5								40
		6								10
		7								20
		8								30
		9								40
		10								50
		11								80
		12		ACCEL						0-50
		13		F.S. BRAKE						0-50
		14								50-0
		15								50-0
2/25/76	54	1	100%	35	AW3	SF0002	N		TAPE A-7, B-7 CONCRETE TIE WELDED RAIL	
		2		RIDE QUALITY						40
		3								45
		4								50
		5		ACC. 5' IN 3" CAR						35
		6								40
		7								45
		8								45
		9								50
		10		ACC. STA 290						35
		11								40
		12								45
		13								50
		14								45
		15								50
		16		TRUCK ACCEL						35
		17								40
		18								45
		19								50
		20		ACC. 4' OF 100R & IN 3" DIRT						35
		21								40
		22								45
		23								50
		24		ACC. 6' FROM 100R & IN 3" DIRT						35
		25								40
		26								45
									JOINTED & WELDED	

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: RIDE QUALITY

SHEET 20 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:					
2/25/76	54	27	100%	50	AW3	SF0002	N		TAPE A-7, B-7 JOINTED / WELDED RAIL					
		28		50										
		29		35										
		30		40										
		31		45										
		32		50										
		33		10										
		34		20										
		35		30										
		36		10										
		37		20										
		38		30										
		39		40										
		40		40										
		41		50										
42	50													
43	ACCEL.	0-50	↓	↓	↓	N	↓							
44	ACCEL.	0-50												
45	F.S. BRAKE	50-0												
46	F.S. BRAKE	50-0												
2/26/76	55	1						100%	10	AW1	SF0002	N		TAPE A-7, B-7 WELDED RAIL CONCRETE TIES
		2							20					
		3							30					
		4							35					
		5							10					
		6							20					
		7							30					
		8							35					
		9							40					
		10							40					
		11							45					
		12	50											
		13	40											
		14	45											
		15	50											
16	INTER CAR	35	↓	↓	↓	N	↓							
17	BOOD. REC.	40												
18	↓	45												
19	↓	50												
20	ACC. FWD CAR	35												
	50													
	35													

TYPE OF TEST: RIDE QUALITY

SHEET 21 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/26/76	55	21 ACC FWD 8" CAR	100%	40	AW1	SF0002	S		WELDED RAIL CONCRETE TIES
		22 ↓		45			S		
		23 ↓		50			S		
		24 ACC STA 230		35			N		
		25 8" CAR		40			S		
		26 ↓		45			S		
		27 ↓		50			N		
		28 ↓		35			S		
		29 ACC MOVED		40			S		
		30 TO STA 230		45			S		
		31 ↓		50			S		
		32 ACC MOVED		35			N		
		33 TO STA 242		40			S		
		34 UNIT		45			S		
		35 ↓		50			N		
		36 ACC MOVED		35			S		
		37 STA 350		40			S		
		38 TORSIONAL		45			S		
		39 ↓		50			N		
		40 TRUCK PICK-		35			S		
		41 UPS		40			S		
		42 ↓		45			S		
		43 ↓		50			N		
		44 BASIC		10			S		
		45 CONFIG.		20			S		
		46 ↓		30			S		
		47 JOINTED		35			S		
		48 RAIL-WOOD		40			N		
		49 TIES		45			S		
		50 ↓		50			N		
		51 ↓		10			N		
		52 ↓		20			N		
		53 ↓		30			N		
		54 ↓		35			N		
		55 ↓		40			S		
		56 ↓		45			S		
		57 ↓		50			S		
		58 ACCEL.		0-50			N		
		59 F.S. BRAKE		50-0			N		
		60 ACCEL.		0-50			N		
		61 F.S. BRAKE		50-0			N		
		62 BAGS DEF		10			S		
		63 ↓		20			S		

↓
JOINTED RAIL
WOOD TIES

↓
WELDED RAIL
CONCRETE TIES

↓
"A" TRUCK BAGS DEFL.
"B" TRUCK BAGS DEFL.

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: RIDE QUALITY

SHEET 22 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/24/70	55								
	64	"A" #3 BAGS DEFLATED	100%	30	AW1	SF0002	S		TAPE A-7, B-7
	65	↓		40	↓	↓	S		
	66	↓		10	↓	↓	N		JOINTED RAIL WOOD TIE
	67	↓		20	↓	↓	N		
	68	↓		30	↓	↓	N		
	69	↓		40	↓	↓	N		
	70	↓		50	↓	↓	N		
	71	ALL BAGS		10	↓	↓	S		
	72	↓		20	↓	↓	S		
	73	↓		30	↓	↓	S		
	74	↓		40	↓	↓	N		
	75	↓		50	↓	↓	N		
	76	↓		40	↓	↓	S		
	77	↓		50	↓	↓	S		
	78	"A" BAGS INFLATED		10	↓	↓	N		
	79	↓		20	↓	↓	N		
	80	↓		30	↓	↓	N		
	81	↓		40	↓	↓	N		
	82	↓		10	↓	↓	S		
	83	↓		20	↓	↓	S		
	84	↓		30	↓	↓	S		
	85	↓		40	↓	↓	S		
	86	↓		50	↓	↓	N		
	87	↓		50	↓	↓	S		
	88	CENTER DEFLATED		10	↓	↓	N		"A" #3 BAGS INFLATED
	89	↓		20	↓	↓	N		
	90	↓		30	↓	↓	T		
	91	↓		10	↓	↓	S		
	92	↓		20	↓	↓	S		
	93	↓		30	↓	↓	S		
	94	↓		40	↓	↓	S		
	95	↓		40	↓	↓	N		
	96	↓		50	↓	↓	N		
	97	↓		50	↓	↓	S		
	98	"B" BAGS DEFLATED		10	↓	↓	N		"A" # CENTER TRUCK INFLATED.
	99	↓		20	↓	↓	N		
	100	↓		30	↓	↓	N		
	101	↓		40	↓	↓	N		
	102	↓		10	↓	↓	S		
	103	↓		20	↓	↓	S		
	104	↓		30	↓	↓	S		
	105	↓		40	↓	↓	S		
	106	↓		50	↓	↓	N		
	107	↓		50	↓	↓	S		

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: RIDE QUALITY

SHEET 23 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/27/76	56	RIDE QUALITY	100%	10	AW2	SF0002	N		TAPE A-7, B-7 WELDED RAIL/ CONCRETE TIE
	2			20			N		
	3			30			N		
	4			35			N		
	5			40			N		
	6			10			U		
	7			20			U		
	8			30			U		
	9			35			U		
	10			40			U		
	11			50			N		
	12			50			N		
	13	ACCEL.		0-50			N		
	14	F.S. BRAKE		50-0			N		
	15	ACCEL		0-50			U		
	16	F.S. BRAKE		50-0			U		
	17			10			U		
	18			20			U		
	19			30			U		
	20			35			U		
	21			10			I		
	22			20			I		
	23			30			I		
	24			35			I		
	25			40			U		
	26			45			U		
	27			50			U		
	28			40			I		
	29			45			I		
	30	BLANK		50			U		
	31	ACCEL		0-50			U		
	32	F.S. BRAKE		50-0			U		
	33	ACCEL		0-50			I		
	34	F.S. BRAKE		50-0			I		
	35	STA 350		35			N		
	36			40			N		
	37			45			N		
	38			50			U		
	39	STA 290		35			N		
	40			40			N		
	41			45			N		
	42			50			N		
	43	STA 230		35			U		
									JOINTED RAIL/ WOOD TIES
									CONCRETE TIE/ WELDED RAIL

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: RIDE QUALITY PERFORMANCE + NOISE

SHEET 24 OF 36

DATE	TEST NO. REC NO. NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/27/76	56	44+ STA 230 'B' UNIT	100%	40	AW2	SF0002	S		TAPE A-7, B-7
	45	↓	↓	45			S		
	46	↓	↓	50			S		
	47	STA 242 'A' UNIT	↓	35			Z		
	48	↓	↓	40			Z		
	49	↓	↓	45			Z		
	50	↓	↓	50			Z		
	51	↓	↓	35			S		
	52	STA 350 FOR TORQUE	↓	40			S		
	53	↓	↓	45			S		
	54	↓	↓	50			S		
	55	↓	↓	35			Z		
	56	↓	↓	40			Z		
	57	↓	↓	45			Z		
58	↓	↓	50	Z					
3/1/76	57	1 PERFORMANCE ACCEL	100%	0-50	AWO	SF0002	Z		
	2	↓	↓	↓			S		
	3	↓	↓	↓			S		
	4	↓	↓	↓			Z		
3/1/76	58	1 ACCEL	100%	0-50	AWO	SF0002 M80002	S		
	2	↓	↓	↓			Z		
	3	↓	↓	↓			S		
	4	↓	↓	↓			Z		
	5	F.S. BRAKE	↓	50-0			S		
	6	↓	↓	50-0			Z		
3/2/76	59	1 WAYSIDE NOISE ACCEL	100%	0-50	AWO	SF0002 M80002	Z		
	2	↓	↓	↓			S		
	3	↓	↓	↓			S		
	4	↓	↓	↓			Z		
	5	↓	↓	↓			S		
	6	↓	↓	↓			Z		
	7	F.S. BRAKE	↓	↓			S		
	8	FRICTION	↓	↓			Z		
	9	F.S. BRAKE	50%	↓			S		
	10	↓	100%	↓			Z		
	11	↓	↓	↓			S		
	12	↓	↓	↓			S		
	13	↓	↓	↓			Z		

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE + NOISE

SHEET 25 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:	
3/2/76	59	14	F.S. BRAKE	100%	30	AWO	SFO002 MB0002			
		15			50					
		16			50					
		17	ACCEL	50%	0-45					
		18			0-45					
3/3/76	60	WAYSIDE NOISE	100%	50	AWO	SFO002 MB0002			50' WAYSIDE - EAST SIDE OF TRACK 50' WAYSIDE - EAST SIDE OF TRACK	
		1								40
		2								40
		3								30
		4								20
		5								10
		6								10
		7								50
		8								40
		9								30
		10								20
		11								10
		12								30
		13								40
		14								50
		15								20
3/8/76	61	SLIP/SLIDE	100%	30-10	AWO	SFO002			NO SLIP/WATER ONLY " " " " " " " " DRY TRACK NO SLIP/WATER ONLY NO SLIP/1PT/55gal " " " " SLIP/ 2PT/45 GAL SLIP SLIP SLIP SLIP SLIP SLIP SLIP SLIP NO SLIP NO SLIP	
		1	F.S. BRAKE	30-0						
		2		30-0						
		3		30-0						
		4		50-0						
		5		30-10						
		6		30-10						
		7		30-10						
		8		40-0						
		9	ACCEL	0-30						
		10	F.S. BRAKE	40-0						
		11		40-0						
		12		50-0						
		13		40-0						
		14		20-0						
		15	ACCEL BASE	0-30						
16		0-30								

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 26 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/9/76	62	PANTOGRAPH TEST							
3/10/76	63	SLIP/SLIDE SPEED CALIB	100%	30	AWO	SF0002	N		TAPE A-5, B-5
	2		↓	30	↓	↓	S		
	3		↓	50	↓	↓	N		
	4		↓	50	↓	↓	S		
	5	FRICION ONLY	↓	30	↓	↓	S		NO SLIP
	6		↓	30	↓	↓	S		SLIDES
	7		↓	30	↓	↓	S		
	8		↓	30	↓	↓	S		
	9		↓	40	↓	↓	S		
	10		↓	40	↓	↓	S		
	11		↓	50	↓	↓	S		
	12		↓	50	↓	↓	S		
	13		↓	50	↓	↓	S		
	14		↓	50	↓	↓	S		1 RAIL WET
	15		↓	50	↓	↓	S		
	16		↓	50	↓	↓	S		SLIDES
	17		↓	50	↓	↓	S		REFILL WATER ONLY
	18		↓	50	↓	↓	S		SLIDES
	19		↓	40	↓	↓	S		
	20		↓	40	↓	↓	S		
	21		↓	20	↓	↓	S		
	22	NO GOOD	↓		↓	↓	S		
	23		↓	20	↓	↓	S		
3/11/76	64	SLIP/SLIDE FRICION ONLY	100%	20	AWO	SF0002	S		TAPE A-5, B-5
	2		↓	20	↓	↓	S		NO SLIP
	3		↓	20	↓	↓	S		" "
	4		↓	40	↓	↓	S		" "
	5		↓	20	↓	↓	S		SLIDES
	6		↓	20	↓	↓	S		
	7		↓	20	↓	↓	S		
	8		↓	20	↓	↓	S		
	9		↓	20	↓	↓	S		
	10		↓	20	↓	↓	S		
	11		↓	20	↓	↓	S		
	12		↓	20	↓	↓	S		
	13		↓	20	↓	↓	S		
	14	F.S. BRAKE	↓	50	↓	↓	S		
	15		↓	50	↓	↓	S		
			↓		↓	↓	S		2 PPS/50 GAL
			↓		↓	↓	S		SLIDES

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 21 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:		
3/11/76	64	SLIP/SLIDE							TAPE A-5, B-5		
	16	F.S. BRAKE	100%	30	AWO	SF0002	S				
	17	↓	↓	30	↓	↓	S				
	18	↓	↓	30	↓	↓	S				
	19	↓	↓	30	↓	↓	S				
	20	↓	↓	30	↓	↓	S				
	21	↓	↓	20	↓	↓	S				
	22	↓	↓	20	↓	↓	S				
	23	↓	↓	20	↓	↓	S				
	24	↓	↓	20	↓	↓	S				
	25	↓	↓	20	↓	↓	S				
	26	↓	↓	15	↓	↓	S				
	27	↓	↓	15	↓	↓	S				
	28	↓	↓	15	↓	↓	S				
	29	↓	25%	15	↓	↓	S				
	30	ACCEL	↓	0-30	↓	↓	S			NO SLIPS	
	31	↓	↓	0-30	↓	↓	S			↓	
	32	↓	↓	0-30	↓	↓	S			↓	
	33	↓	↓	0-30	↓	↓	S			↓	
	34	F.S. BRAKE	↓	50	↓	↓	S			↓	
	35	↓	↓	50	↓	↓	S			↓	
	36	↓	↓	50	↓	↓	S			↓	
	37	↓	↓	40	↓	↓	S			↓	
38	↓	↓	40	↓	↓	S		↓			
3/15/76	65	SLIP/SLIDE							TAPE A-5, B-5		
	1	F.S. BRAKE	100%	40	AWO	SF0002	S			ALL TRUCKS NOT SLIDING 2 NOZZLES 'A' TRUCK	
	2	↓	↓	40	↓	↓	S				
	3	↓	↓	40	↓	↓	S				
	4	↓	↓	40	↓	↓	S				
	5	↓	↓	40	↓	↓	S				
	6	↓	↓	40	↓	↓	S				
	7	FRICION ONLY	↓	40	↓	↓	S				
	8	F.S. BRAKE	↓	40	↓	↓	Z				
	9	↓	↓	40	↓	↓	S				
	10	↓	↓	40	↓	↓	Z				
	11	↓	↓	40	↓	↓	S				
	12	↓	↓	40	↓	↓	S				
	13	↓	↓	40	↓	↓	S				
	14	↓	↓	40	↓	↓	S				
	15	ACCEL	↓	0-30	↓	↓	S				8 PTD. LOC. 55 GAL
	16	↓	↓	0-30	↓	↓	S				NO SPIN
17	↓	↓	0-30	↓	↓	S		↓			

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 28 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/15/75	65 18 19 20 21	SLIP/SLIDE	100%	0-30	AWO	SF0002	S S S S		NO SPIN STRAIGHT LOC SPIN TO BASE SPEED
		ACCEL		0-30					
		↓		0-30					
		↓		0-45					
3/16/76	66 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	TRAIN LINE PERFORMANCE DYNAMIC ONLY	100%	30	AWO	SF0002 SF0003	S S		TAPE A-5, B-5
		↓		40					
		↓	50						
		↓	50						
		50%	50						
		FRICION ONLY	100%	30					
		↓	30						
		↓	40						
		↓	50						
		↓	47						
		50%	50						
		EMERGENCY	100%	50					
		↓	50						
		↓	40						
		↓	30						
		↓	30						
		3/17/76	67 1 2 3 4 5 6 7 8 9	FRICION + TRACK		100%	50		
↓	40								
↓	48								
↓	50								
↓	40								
↓	30								
↓	20								
↓	30								
TRACK ONLY	↓			30					
3/18/76	68 1 2 3 4 5 6 7 8 9	F.S. BRAKE	100%	50	AW3	SF0002 SF0003	S Z S S S S S		TAPE A-b, B-b
		↓	100%	49					
		↓	75%	50					
		↓	50%	50					
		↓	25%	50					
		↓	100%	40					
		↓	↓	30					
		DYNAMIC	↓	50					
		↓	↓	50					

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 29 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/18/76	68								TAPE A-6, B-6
	10	DYNAMIC	75%	50	AWS	SF0002	S		
	11	↓	50%	50	↓	SF0003	S		
	12	↓	25%	50	↓		S		
	13	EMERGENCY	100%	50	↓		S		
	14	↓		50	↓		S		
	15	↓		30	↓		S		
	16	↓		30	↓		S		
	17	TRACK BRK		30	↓		S		
	18	↓		30	↓		S		
	19	↓		30	↓		S		
	20	ACCEL		0-50	↓		S		
	21	↓		0-50	↓		S		
	22	↓		0-50	↓		S		
	23	↓		0-50	↓		S		
	24	FRICTION	100%	50	↓		S		
	25	↓	100%	50	↓		S		
	26	↓	75%	50	↓		S		
	27	↓	50%	50	↓		S		
	28	↓	25%	50	↓		S		
	29	↓	00%	50	↓		S		
	30	↓	100%	50	↓		S		
	31	↓	100%	50	↓		S		
	32	↓	75%	50	↓		S		
	33	↓	50%	50	↓		S		
	34	↓	50%	50	↓		S		
	35	↓	25%	50	↓		S		
3/19/76	69								TAPE A-6, B-6
	1	FS BRAKE	100%	20	AWS	SF0002	S		
	2	↓	75%	20	↓		S		
	3	↓	50%	20	↓		S		
	4	↓	25%	20	↓		S		
	5	↓	100%	30	↓		S		
	6	↓	75%	30	↓		S		
	7	↓	75%	30	↓		S		
	8	↓	50%	30	↓		S		
	9	↓	25%	30	↓		S		
	10	↓	100%	40	↓		S		
	11	↓	75%	40	↓		S		
	12	↓	50%	40	↓		S		
	13	↓	25%	40	↓		S		
	14	↓	100%	50	↓		S		
	15	↓	75%	50	↓		S		

TYPE OF TEST: PERFORMANCE

SHEET 30 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/19/76	69	16 F.S. BRAKE	75%	50	AW3	SF0002	S		TAPE A-b, B-b
		17 ↓	50%	50					
		18 ↓	25%	50					
		19 FRICTION ONLY	100%	20					
		20 ↓	75%	20					
		21 ↓	50%	20					
		22 ↓	25%	20					
		23 ↓	100%	30					
		24 ↓	75%	30					
		25 ↓	50%	30					
		26 ↓	25%	30					
		27 ↓	100%	40					
		28 ↓	75%	40					
		29 ↓	50%	40					
		30 ↓	25%	40					
		31 ↓	100%	50					
		32 ↓	75%	50					
		33 ↓	50%	50					
		34 ↓	25%	50					
		35 DYNAMIC	100%	50					
		36 ↓	75%	50					
		37 ↓	50%	50					
		38 ↓	25%	50					
		39 ↓	100%	40					
		40 ↓	75%	40					
		41 ↓	75%	40					
		42 ↓	50%	40					
43 ↓	25%	40							
44 ↓	100%	30							
45 ↓	75%	30							
46 ↓	25%	30							
3/20/76	70 1 THRU 43	EMERGENCY BRAKE INVESTIGATION TR #017			AW3	SF0002	CAR IN TMB		
3/22/76	71	1 No Good			AW3	SF0002	N		TAPE A-b, B-b 31-LEVEL CONNECTED
		2 F.S. BRAKE	100%	50					
		3 ↓		50					
		4 ↓		20					
		5 ↓		50					

SLRV ENGINEERING TEST RUN LOG

SP0002

TYPE OF TEST: PERFORMANCE

SHEET 31 OF 36

DATE	TEST NO. REC NO. NO.	TYPE OF TEST	"P" SIG	MAX on INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/22/76	71	F.S. BRAKE	100%	30 50 40 20 50 20 30 40 20 50 50 50 30 20 40 50 50 30 20 40 50 50 0-50 0-50	AW3	SP0002	S S S S S S S S S S N S S S S S S S S S S N N N S	TAPE A-6, B-6 REDUCED VOLTAGE TO 500V MAX VOLTAGE 710V	
3/23/76	72	DYNAMIC BRAKE	100% 75% 50%	50 30 30 40 30 20 20 50 20 40 30 50 20 40 30	AW3	SP0002	S S S S S S S S S S S S S S S	TAPE A-8, B-8	

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 32 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/23/76	72	DYNAMIC ONLY ↓ HG DYNAMIC ONLY ↓	25% ↓ ↓ 100%	50	AW3	SF0002	S S S S S Z Z Z		TAPE A-B, B-B
	16			20					
	17			40					
	18			30					
	19			30					
	20			20					
	21			50					
	22			20					
	23			40					
24	30								
25									
3/23/76	73	AUTO SPEED CONT ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		50, 35, 10			Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z		
	1			50					
	2			35					
	3			10					
	4								
	5								
	6								
	7								
	8								
	9								
	10								
	11								
	12								
	13								
	14								
	15								
16									
3/24/76	74	FS. BRAKE ↓ ACCEL ↓ SPRING BRK TOW TEST ↓ ↓ ↓	100% 100% 50% 50%	50	AW3	SF0002	Z Z Z S Z Z Z		TAPE A-B, B-B
	1			30					
	2			0-50					
	3			0-50					
	4			-					
	5			-					
	6			-					
	7			-					
8	-								
3/25/76	75	SPRING BRAKE TOW TEST ↓ ↓ ↓ ↓ ↓ ↓			AW3	SF0002	TMB ↓ ↓ ↓ ↓ ↓		NEW CENTER TRUCK ACTUATORS
	1								
	2								
	3								
	4								
	5								
	6								
7									

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 33 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/25/76	76	1 EMERGENCY 2 CONTROL RESPONSE 3 4 5 6	100%		AW3	SF0002			TAPE A-8, 3-8 OPTION 1 OPTION 2
3/24/76	77	1 EMERGENCY 2 3 4 5 6 7 8 9 CONTROL RESPONSE 10 11 12 13 POWER ISOLATION GAP 14 15 16 17 18	100%	0 50 30 20 10 40 30 0 30 26	AW3	SF0002 SF0003	S S S S S S S S		TAPE A-8, B-8 OPTION 1 OPTION 1 OPTION 2 OPTION 2 ACCEL DECEL STEADY DECEL
3/29/76	78	1 DUTY CYCLE	100%		AW2	SF0002			TAPE A-9, 3-8 ABORTED DEAD PROPULSION
3/30/76	79	1 EMERGENCY 2 BLENDED BRAKE	100%		AW3	SF0002	S		TAPE A-9, 3-9
3/31/76	80	1 ACCEL 2 FS BRAKE 3 4 5 6 CONTINUOUS SPEED 7	100%	0-50 30 40 35 30 50 54	AW3	SF0002	N S N S		TAPE A-9, B-9

SLRV ENGINEERING TEST RUN LOG

SF 0002 & SF0003

TYPE OF TEST: PERFORMANCE

SHEET 36 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
	87	CAB SIGNAL	100% ↓						
5/14/76	88	TRUCK SHOCK TEST			AW2 ↓	SF0002 ↓			
5/24/76	89	DRIFT-TEST	100% ↓	50 46 41 30 16 50 41	AW2 ↓	SF0002 ↓			

B. TOTAL TEST LOG ON CAR SF0003

SLRV ENGINEERING TEST RUN LOG

SF0003

TYPE OF TEST: PERFORMANCE

SHEET 1 OF 3

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:	
14/75	5	1 ACCEL	100%	0-50	AWO	SF0003	S			
		2		0-50						
		3		0-50						
		4		↓						0-50
		5		SPEED CALIB						50
		6		↓						50
		7		↓						40
		8		↓						40
		9		↓						30
		10		↓						30
		11		↓						30
		12		F.S. BRAKE						30
		13		↓						30
		14		↓						40
		15		↓						40
		16		FRICION ONLY						40
		17		F.S. BRAKE						40
		18		F.S. BRAKE						40
		19		FRICION ONLY						40
		20		↓						40
		21		↓						40
		22		↓						40
		23		DYN. ONLY						40
		24		↓						40
		25		EMERGENCY						40
		26		↓						30
		27		↓						40
		28		↓						30
		29		ACCEL						0-50
		30		↓						0-50
		31		↓						0-50
11/7/75	6	1 ACCEL	100%	0-50	AWO	SF0003	Z			
		2		↓						
		3		↓						
		4		↓						
		5		↓						
		6		↓						0-50
		7		F.S. BRAKE						↓
		8		↓						↓
		9		↓						↓
		10		↓						↓

SLRV ENGINEERING TEST RUN LOG

SF0003

TYPE OF TEST: PERFORMANCE

SHEET 2 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX on INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:									
11/7/75	6	11	↓	38.5	AWO	SF0003	↓											
		12		31														
		13		F.S. BRAKE						40								
		14		FRICITION						31								
		15		↓						40								
		16		↓						30.5								
		17		EMERGENCY						40								
		18		↓						31								
		19		↓						30								
		20		↓						47								
		21		↓						30								
		22		↓						30								
		23		DYNAMIC						48.5								
		24		↓						48								
		25		ACCEL						-								
		26		↓						-								
		27		↓						-								
		28		↓						0-50								
		29		↓						0-50								
		11/13/75		7						1	↓	35	AWO	SF0003	↓			
										2		F.S. BRAKE						35
										3		↓						35
										4		↓						35
										5		↓						35
										6		50%						35
										7		FRICITION						35
										8		↓						35
										9		TRACK BRK						35
										10		↓						35
11	F.S. BRAKE		35															
12	FRICITION		35															
13	↓		35															
14	↓		35															
15	CONST. SPEED		50															
16	↓		50															
17	EMERGENCY		35															
18	↓		35															
19	↓		35															
20	↓		35															
21	TRACK BRK		35															
22	EMERGENCY		35															

ACCELEROMETER MOVED

SLRV ENGINEERING TEST RUN LOG

SF0003

TYPE OF TEST: PERFORMANCE

SHEET 3 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
11/13/75	7	23 EMERGENCY	100%	50	AWO	SF0003	N		CENTER AIR BAGS DOWN
		24 ↓	↓	10	↓	↓	N		
		25 ↓	↓	10	↓	↓	N		
		26 TRACK	↓	35	↓	↓	N		
		27 FS BLEND TRACK	↓	35/15	↓	↓	N		
		28 EMERGENCY	↓	50	↓	↓	N		
		29 ↓	↓	35	↓	↓	N		
11/21/75	8	1 ACCEL	100%	0-50	AWO	SF0003	N		
		2 ↓	↓	0-50	↓	↓	S		
		3 EMERGENCY	↓	35	↓	↓	N		
		4 ↓	↓	35	↓	↓	N		
		5 ↓	↓	35	↓	↓	S		
		6 ↓	↓	35	↓	↓	S		
		7 ACCEL	↓	0-50	↓	↓	N		
		8 FRICTION	↓	35	↓	↓	N		
		9 ↓	↓	35	↓	↓	S		
		10 ↓	↓	35	↓	↓	S		
		11 ↓	↓	35	↓	↓	S		
		12 ACCEL	↓	0-50	↓	↓	N		
		13 ↓	↓	0-50	↓	↓	S		
		14 EMERGENCY	↓	35	↓	↓	N		
	15 ↓	↓	35	↓	↓	N			
	16 ↓	↓	35	↓	↓	N			
	17 ↓	↓	36.5	↓	↓	S			
	18 ↓	↓	35.5	↓	↓	S			
	19 ↓	↓	35	↓	↓	S			
	20 FS TRACK	↓	35/20	↓	↓	S			
	21 ↓	↓	35/20	↓	↓	N			
12/2/75	9	1 SPEED CALIB	100%	40	AWO	SF0003	N		
		2 ↓	↓	40	↓	↓	S		
		3 FRICTION	↓	30	↓	↓	N		
		4 ↓	↓	30	↓	↓	N		
		5 ↓	↓	30	↓	↓	N		
		6 EMERGENCY	↓	30	↓	↓	N		
		7 ↓	↓	30	↓	↓	S		
		8 ↓	↓	20	↓	↓	S		
		9 ACCEL	↓	0-50	↓	↓	S		
		10 ↓	↓	0-50	↓	↓	N		
		11 ↓	↓	0-50	↓	↓	S		
		12 ↓	↓	0-50	↓	↓	N		

SLRV ENGINEERING TEST RUN LOG

SF0003

TYPE OF TEST: PERFORMANCE, NOISE & RFI

SHEET 4 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
12/2/75	9 13 14 15 16	EMERGENCY ↓ ACCEL ↓	100% ↓	30 30 0-50 0-50	AWO ↓	SF0003 ↓	N S S N		
12/4/75	10 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	SPEED CALIB ↓ ACCEL ↓ F.S. BRAKE ↓ DYNAMIC BRK ↓ FRICTION BRK	100% ↓	30 40 49 20 0-50 0-50 0-50 0-50 30 30 50 50 30 30 50 50 30	AWO ↓	SF0003 ↓	N N S N S N S N S N S N S N S N		
1/8/76	11	CAB SIGNAL ↓	100% ↓		AW2 ↓	SF0003 ↓			
2/13/76	12	INTERIOR NOISE SURVEY ↓	100% ↓		AWO ↓	SF0003 ↓			
4/12/76	13	RADIO FREQUENCY INTERFER. ↓	100% ↓		AW2 ↓	SF0003 ↓			
4/13/76	14	RADIO FREQUENCY INTERFER. ↓	100% ↓		AW2 ↓	SF0003 ↓			
4/21/76	15	RADIO FREQUENCY INTERFER. ↓	100% ↓		AW2 ↓	SF0003 ↓			
4/22/76	16	RADIO FREQUENCY INTERFER. ↓	100% ↓		AW2 ↓	SF0003 ↓			

SLRV ENGINEERING TEST RUN LOG

SF0003

TYPE OF TEST: PERFORMANCE + RFI

SHEET 5 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
4/27/76	17	CAB SIGNAL	100% ↓		AW2 ↓	SF0003			
4/28/76	18	CAB SIGNAL	100% ↓		AW2 ↓	M80002 SF0002 SF0003			
4/29/76	19	CAB SIGNAL	100% ↓		AW2 ↓	M80002 SF0002 SF0003			
4/30/76	20	CAB SIGNAL	100% ↓		AW2 ↓	M80002 SF0002 SF0003			
5/3/76	21	CAB SIGNAL	100% ↓		AW2 ↓	M80002 SF0002 SF0003			
5/4/76	22	CAB SIGNAL	100% ↓		AW2 ↓	M80002 SF0002 SF0003			
5/4/76	23	RADIO FREQUENCY INTERFER	100% ↓		AW2 ↓	SF0003			
6/4/76	24	1 PERFORMANCE ACCEL 2 ACCEL 3 F.S. BRAKE 4 FRICTION 5T ACCEL 6T " "	100% ↓	50 50 35 35 35 50	AW2 ↓	SF0003	S N N S S N		TAPE A-16, B-16
6/8/76	25	1 DRIFT TEST 2 3 4 5 6 7 8 9 F.S. BRAKE 10 BCP CHECK	100% ↓	50 50 40 40 27 27 5 5 35 35	AW2 ↓	SF0003	S N S N S N S N S S		TAPE A-16, B-16

SF0003

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: PERFORMANCE & POWER CONSUMPTION

SHEET 6 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
6/9/76	26	DUTY CYCLE SPEED CALIB	100%		AW2	SF0003	N S S S S S		BRAKE PRESS. N.G.
				50					
				50					
				40					
				40					
				25					
				25					
6/10/76	27	FRICTION BRAKE	100%	35	AW2	SF0003	N S S S		
				35					
				35					
				35					
6/11/76	28	FRICTION BRAKE	100%	35	AW2	SF0003	N N		
				35					
6/14/76	29	DRIFT TEST	100%	50	AW2	SF0003 MB0002	N S N S N S S		TAPE A-14, B-14 NB WIND SPRING UP 1/2 WAY THRU TEST.
				50					
				42					
				42					
				30					
				30					
				14					
		14							
6/15/76	30	POWER CONSUMPTION DUTY CYCLE BLENDED BA DRIFT TEST ACCELERATION PERF.	100%	26	AW2	SF0003 MB0002	N S S S S S S S S S S S S S		TAPE A-14, B-14 TAPE A-15, B-15
				26					
				50					
				50					
				50					
				50					
				26					
				26					
				26					
				50					
				50					
				50					
				42					
				30					
				32					
16									
15									
0-50	100%								
	100%								
	75%								
	50%								
	25%								

SLRV ENGINEERING TEST RUN LOG

SF 0003

TYPE OF TEST: PERFORMANCE

SHEET 7 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:	
6/16/76	31	EMERGENCY BRAKE	100%	50	AW2	SF0003 MB0002	S Z S S S S S S S S S S		TAPE A-15, B-15 TR #036 MEASUREMENT OF ARMATURE CURRENT IN 2-CAR TRAIN OP'N. No Good	
		2		50						
		3		40						
		4		20						
		5		30						
		6		0-50						
		7		50-0						
		8		0-30						
		9		30-0						
		10		0-50						
		11		50-0						
		12		0-30						
6/17/76	32	ACCEL	100%	0-50	AW3	SF0003 MB0002	Z S Z Z Z Z Z Z Z Z Z Z		TAPE A-15, B-15	
		2		↓						
		3		50%						
		4		↓						
		5		75%						
		6		40						
		7		40						
		8		30						
		9		20						
		10		40						
		11		30						
		12		20						
	13	ARM CURRENT	-	-	AW0		Z S Z S			
		14	DECEL (FR)	100%						50
		15	Tow Mode							
		16	"							
6/18/76	33	FRICION BRAKE	100%	50	AW0	SF0003 MB0002	Z S Z S Z S Z S Z S		TAPE A-15 B-15	
		2		40						
		3		30						
		4		20						
		5		50						
		6		20						
		7		20						
		8		50						
		9		30						
		10		ARM CURRENT						-

SLRV ENGINEERING TEST RUN LOG

SF 0003

TYPE OF TEST: PERFORMANCE & POWER CONSUMPTION SHEET 8 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
6/18/76	33 11 12 13	SPEED ↓	100	50 52 51	AW0	SF003 M8002	N/S ↓ S		TAPE A-15, B-15
6/21/76	34 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	CONTROL RESPONSE ↓ JERK LIMIT ↓ EMERGENCY BRAKE ↓	E ↓	30 40 50 20 30 10 50 20 10 40	AW2	SF003	N ↓ S N ↓ S N		TAPE A-15, B-15
6/22/76	35	DUTY CYCLE			AW2	SF003			TAPE A-17, B-17 Low Accel Rate
6/23/76	36 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	ACCEL ↓ DYN. BRAKE ACCEL ↓ SLIP/SLIDE PSB+TRUCK ↓ ACCEL ↓ POWER CONSUMPTION DUTY CYCLE BLENDING BRAKE ↓ ACCEL	100% 100%	30 38 30 40 20 10 20 10 50 40 40 50 50	AW2	SF003	N S S N N N N S S N	480 660	ADJUSTED FULL POWER VOLTAGE TAPE A-18, B-18

SLRV ENGINEERING TEST RUN LOG

SF 0003

TYPE OF TEST: PERFORMANCE & POWER CONSUMPTION

SHEET 9 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:	
6/24/76	37	1		50	AW2	SF0003		680	TAPE A-18, B-18 672V ~ MAX Accel. Blended Brakes TAPE A-19 B-19 FRICTION ONLY Brakes	
		2								
		3	POWER CONSUMPTION							
		4	DUTY CYCLE					750		
		5	DUTY CYCLE					575		
		6	DECEL FRICTION ONLY		50			↓		
6/25/76	38	1	100%	50	AW2	SF0003	N	575	TAPE A-20, B-20 TAPE A-21 B-21	
		2		30			S			
		3	POWER CONSUMPTION DUTY CYCLE BLENDED							
		4	DUTY CYCLE FRICTION ONLY							

C. TOTAL TEST LOG ON CAR MB0002

SLRV ENGINEERING TEST RUN LOG

MB 0002

TYPE OF TEST: Performance, Noise & RFI

SHEET 1 OF 5

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
1-9-76	1 1 2 3 4 5 6 7 8 9 10	ACCEL ↓ F.S. BRAKE ↓ EMERGENCY "	100%	0-50 ↓ 50 50 30 30 30 30	AW0	MB0002	N S N S N S N S N S		
2-8-76	2 1 2 3	INTERIOR NOISE ↓	-	0 ↓	AW3	MB0002	-		
2-19-76	3 1 2 3 4 5 6 7 8	NOISE SURVEY U/C EQUIP WAS-50 " " INTERIOR " " WATERS (WAT) " " (ENG) " " (") " "	-	0	AW3	MB0002	-		COULDS TO SPARE
4/7/76	4 1 21 22 48	RFI CHECKOUT ↓ INTERIOR SURVEY		/ / / 30	AW0	MB0002			
4/8/76	5 1 21 22 66	RFI CHECKOUT ↓ INTERIOR SURVEY ↓		30	AW0	MB0002			
4/8/76	6	RFI NO TESTS			AW0	MB0002			POWER SUPPLY SHORTED

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: RFI

SHEET 2 OF 5

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
4/14/76	7 1 2 3 109	<u>R.F.I</u> EXTERIOR & INTERIOR SURVEYS		≤ 35	AWO	MR0002			
4/15/76	8 1 2 3 102	<u>R.F.I</u> EXTERIOR & INTERIOR SURVEYS		≤ 35	AWO	MR0002			EXTERIOR N. ROAD INTERIOR E. FIELD
4/16/76	9 1 2 3 45	<u>R.F.I</u> WAYSIDE SURVEY AT SOFT.	100%	≤ 50	AWO	MR0002	S		WAYSIDE MEASUREMENT AT STN 290 - SOFT. FROM TRACK ♀. (EAST)
4/19/76	10 1 67 68-151	<u>R.F.I</u> WAYSIDE SURVEY AT 50 FT. AT 100 FT	100%	≤ 50	AWO	MR0002	S		

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: RFI

SHEET 3 OF 5

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:	
4/20/76	11	RFI	100%	≤ 50	A/W0 / A/W2	M80002 / SF0002	S		2 CAR TRAIN. STN 290, 100 FT FROM TRACK 2 ON EAST SIDE	
		1 2 3 --- 92 93	WAYSIDE SWAYBY AT 100 FT --- 4/3 AT 100 FT	↓	↓	↓	↓	↓		↓
4/23/76	12	RFI			A/W0 / A/W2	M80002 / SF0002			TEST ABORTED.	
5/5/76	13	RFI	~	50	A/W0	M80002	S		2 CAR TRAIN	
		1	WAYSIDE 100 FT	↓	↓	↓	↓	↓		
		22 23	WAYSIDE 50 FT	↓	↓	↓	↓	↓		
		58 59	WAYSIDE 100 FT	~	50	A/W0 / A/W2	M80002 / SF0002	S		
		69 70	WAYSIDE 50 FT	↓	↓	↓	↓	↓		
		80 81	WAYSIDE 50 & 100 FT	~	0	A/W2	SF0002	S		
		110		↓	↓	↓	↓	↓		
				↓	↓	↓	↓	↓		
				↓	↓	↓	↓	↓		
				↓	↓	↓	↓	↓		

SLRV ENGINEERING TEST RUN LOG

MB 0002

TYPE OF TEST: NOISE & POWER CONSUMPTION

SHEET 4 OF 5

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
5/18/76	14	NOISE TEST WAYSIDE AMBIENT CONST VEL	—	0 50 50 40 40 30 30 20 20 10 10	AWO	MB0002			A/C ON
	1						S		
	2						Z		
	3						S		
	4						S		
	5						S		
	6						S		
	7						S		
	8						S		
	9						S		
	10						S		
	11						Z		
	12	AMBIENT CONST VEL		50			S		A/C OFF
	13			50			S		
	14			40			Z		
	15			40			S		
	16			40			S		
	17			30			Z		
	18			30			S		
	19			30			Z		
	20			20			S		
	21			20			Z		
	22			10			S		
	23			10			Z		
	24			0			S		
	25	AMBIENT		0			1		
5/19/76	15	POWER CONSUMPTION OF PNEU. SYSTEMS	—	0	AWO	MB0002	—	v 67.5v	
6/10/76	16	WAYSIDE NOISE AMBIENT CONST SPEED	—	0 50 50 40 40 30 30 20 20 10 10	AWO	MB0002	—		A/C OFF
	1						S		
	2						S		
	3						Z		
	4						S		
	5						S		
	6						S		
	7						S		
	8						S		
	9						S		
	10						S		
	11						S		
	12						S		

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: NOISE

SHEET 5 OF 5

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX ON INITL SPEED	CAR WEIGHT	CAR NO.	DIR- ECT.	LINE VOLTS	NOTES:
6/10/76 (cont)	16 (cont) 13 14 15 16 17 18 19 20 21 22 23 24	Const Speed		50 50 40 40 30 30 20 20 10 10 0 10	AWO	M8002	2 2 2 2 2 2 2 2 2 2 1 2		P/c on

APPENDIX I – DATA LOG

Collated by GVTP Test Number

Referencing – SLRV Test Number/Record Number
– Magnetic Tape Number

DATA LOG

TEST SET NO.	TEST NAME	WEIGHT	TEST NO.	RECORD NO.	TAPE NOS.	NOTES
P-2001	Acceleration Performance	AWO	58	1-4	-	2 Car
			37	4-8	A-5, B-3	
		AW2	59	1-4, 17, 18	-	2 Car
			23	6-12	A-2, B-2	
			31 (SF3)	6-9	A-15, B-15	2 Car
			25	1-10	A-2, B-2	(Volts min, max, normal)
		AW3	30 (SF3)	11-15	A-14, B-14	2 Car
			35	2	A-3, B-3	
			74	3, 4	A-8, B-8	
			68	22, 23	A-6, B-6	2 Car
			32 (SF3)	1-4	A-15, B-15	2 Car
		P3001	Deceleration Blended Brks	AWO	5	3-10
37	11-23				A-3, B-3	
AW2	23			17-27	A-2, B-2	
	82			3-18	A-9, B-9	2 Car
AW3	86			4-7	A-11, B-11	2 Car
	69			1-18	A-6, B-6	
	74			1, 2	A-8, B-8	
	32 (SF3)			5-12	A-15, B-15	2 Car
	81			1-6	A-9, B-9	2 Car
	5			11-14, 16-20	A-1, B-1	
P-3002	Deceleration Friction Brks	AWO	37	24-29	A-3, B-3	
			38	1-12	A-4, B-4	
			66	6-11	A-5, B-5	2 Car

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DATA LOG (CONTINUED)

TEST SET NO.	TEST NAME	WEIGHT	TEST NO.	RECORD NO.	TAPE NOS.	NOTES
P-3002	Deceleration Friction Brks	AW0	33 (SF3)	1-9	A-15, B-15	2 Car
		AW2	23	30-37	A-2, B-2	
			82	23-25	A-9, B-9	2 Car
			86	9-11	A-11, B-11	2 Car
		AW3	35	39-46	A-3, B-3	
			77	1-8	A-8, B-8	2 Car
P-3003	Deceleration Dynamic Brks	AW0	6	9-17	A-1, B-1	
			38	19-26	A-4, B-4	
			39	1-8	A-4, B-4	
			66	1-5	A-5, B-5	2 Car
		AW2	24	9-17	A-2, B-2	
			82	29-31	A-9, B-9	2 Car
		AW3	69	35-46	A-6, B-6	
	6	2-8		No mag tape		
P-3004	Deceleration Emergency Brk	AW0	39	21-33	A-4, B-4	
			66	12-17	A-5, B-5	2 Car
		AW2	24	18-25	A-2, B-2	
			82	27, 28	A-9, B-9	2 Car
			34 (SF3)	11-20	A-15, B-15	
			31 (SF3)	1-5	A-15, B-15	2 Car
		AW3	35	5-24	A-3, B-3	
			77	2-7	A-8, B-8	2 Car
	81	7-15	A-9, B-9	2 Car (modified)		

DATA LOG (CONTINUED)

TEST SET NO.	TEST NAME	WEIGHT	TEST NO.	RECORD NO.	TAPE NOS.	NOTES
P-4001	Drift Test	AW0	—			
		AW2	26	4-9	A-3, B-3	
			86	17-23	A-11, B-11	2 Car
			25 (SF3)	1-8	A-16, B-16	
			30 (SF3)	2-9	A-14, B-14	2 Car
P-2011	Spin/Slide Acceleration	AW0	64	30-33	A-5, B-5	No Slips
			65	15-21	A-5, B-5	
P-3011	Spin/Slide Blended, Decl	AW0	64	14-29,34-37	A-5, B-5	
	Spin/Slide Friction Decl	AW0	64	4-13	A-5, B-5	
			63	5-23	A-5, B-5	
	Spin/Slide Emergency Decl	—	—	—	—	
PC-5011	Power Consumption (Blended Brks)	AW2	84	2	A-10, B-10	575V (nom)
			36 (SF3)	16	A-17, B-17	480V (nom)
			37 (SF3)	4	A-18, B-18	750V (nom)
			38 (SF3)	3	A-20, B-20	575V (nom)
			30 (SF3)	1	A-14, B-14	2 Car
	Power Consumption (Friction Brks)	AW2	37 (SF3)	5	A-19, B-19	
			38 (SF3)	4	A-21, B-21	
R-1101	Ride Roughness	AW1	55	5-12	A-7, B-7	Welded rail, concrete tie
		AW2	56	1-12	A-7, B-7	
		AW3	53	2-10	A-7, B-7	

DATA LOG (CONTINUED)

TEST SET NO.	TEST NAME	WEIGHT	TEST NO.	RECORD NO.	TAPE NOS.	NOTES
R-1101	Ride Roughness	AW2	56	17-30	A-7, B-7	Jointed rail/ wood ties
CN-0001-TT	Equip Noise W/S	AW0	49	43		
			51	1, 2		
CN-1001-TT	Car Speed W/S	AW3	52	1-12		
		AW0	60	1-16		2 car train with MB 0002
PN-1001-TT	Car Speed (Int)	AW0	50	2-4		
		AW3	52	13-20		
PN-1301-TT	Interior Survey	AW0	51	9-13		
		AW3	52	13-20		
		AW0	SF 0003 12	All		
PN-2001-TT	Accl Effect (Int)	AW0	51	7, 8		
		AW3	52	21-23		
PN-3001-TT	Decl Effect (Int)	AW0	51	7, 8		
		AW3	52	21-23		
PSI-6001-TT	Rad Freq Int	AW0	(MB 0002) 4-10, 13	--		Single car
		AW0/AW2	(MB 0002) 11-13	--		2 car train with SF 0002
		AW2	(SF 0003) 13-16, 23	--		Single car

APPENDIX II – DATA LOG

Collated by Magnetic Tape Number

- Referencing – SLRV Test Number/Record
- GVTP Test Number
- IHRIG Time Identification*

* Certain runs have no identification made for IHRIG time of calibration information. For these runs calibration data precedes the test run but is not collated with an IHRIG time.

MAG TAPE DATA LOG
(FROM CAR SF 0002)

TAPE NO.	TEST SET	TEST NO.	RECORD NO.	TIME SPAN (IHRIG)	NOTES	CALIBRATION (IHRIG START)
1-A,B	P-3001	5	3-10	12/52/18 - 14/36/50	Decl, blended brks, AWO	1-37-28
	P-3002	5	11-20	14/59/15 - 15/46/20	Decl, friction brks, AWO	1-37-28
	P-3003	6	9-17	11/13/45 - 13/53/55	Decl, dynamic brks, AWO	11-6-0
	P-3004	5	21	16/0/15 - 16/0/25	Decl, emergency brks, AWO	1-37-28
2-A,B	P-2001	23	6-12	10/42/45 - 11/6/50	Accl, performance, AW2	
		25	1-10	9/38/58 - 10/52/54	Accl, performance, AW2	8-29-55
	P-3001	23	18-27	14/6/26 - 15/5/35	Decl, blended Brks, AW2	
	P-3002	23	30-37	15/26/15 - 15/37/50	Decl, friction brks, AW2	
	P-3003	24	9-17	10/17/28 - 11/5/45	Decl, dynamic brks, AW2	
	P-3004	24	18-25	11/14/55 - 13/47/30	Decl, emergency brks, AW2	
3-A,B	P-2001	37	4-8	13/20/35 - 13/36/43	Accl, performance, AW0	11-49-45
		35	2	9/49/41 - 9/50/23	Accl, performance, AW3	7-58-30
	P-3001	37	11-23	14/10/41 - 15/25/35	Decl, blended brks, AW0	11-49-45
	P-3002	37	24-29	15/32/35 - 15/53/12	Decl, friction brks, AW0	11-49-45
		35	39-46	15/14/13 - 15/45/20	Decl, friction brks, AW3	7-58-30
	P-3004	35	5-24	10/6/53 - 11/34/30	Decl, emergency brks, AW3	7-58-30
	P-4001	26	4-9	11/23/0 - 11/58/10	Drift test, AW2	
	4-A,B	P-3002	38	1-12	10/22/00 - 10/45/26 13/39/09 - 14/05/19	Decl, friction brks, AW0
P-3003			38	19-26	14/42/09 - 15/22/13	Decl, dynamic brks, AW0
		39	1-8	9/53/16 - 10/26/44	Decl, dynamic brks, AW0	8-00-50

MAG TAPE DATA LOG (CONTINUED)
(FROM CAR SF 0002)

TAPE NO.	TEST SET	TEST NO.	RECORD NO.	TIME SPAN (IHRIG)	NOTES	CALIBRATION (IHRIG START)
4-A,B	P-3004	39	21-33	13/48/43 - 14/46/18	Decl, emergency brks, AW0	8-00-50
5-A,B	P-3002	66	6-11	13/48/41 - 14/48/38	Decl, friction brks, AW0, 2 car	7-59-35
	P-3003	66	1-5	11/26/00 - 11/55/34	Decl, dynamic brks, AW0, 2 car	7-59-35
	P-3004	66	12-17	15/01/50 - 15/32/41	Decl, emergency brks, AW0, 2 car	7-59-35
	P-2011	64	30-33	14/51/5 - 15/16/20	Spin/slide accel, AW0	7-16-45
		65	15-21	15/32/48 - 16/33/30	Spin/slide accel, AW0	7-43-30
	P-3011	64	14-29	11/29/45 - 14/46/15	Spin/slide decl blend, AW0	7-16-43
		64	34-37	15/21/5 - 15/23/45	Spin/slide decl blend, AW0	7-16-45
		64	4-13	9/50/25 - 11/22/48	Spin/slide decl friction, AW0	7-16-45
		63	5-23	11/4/38 - 15/48/40	Spin/slide decl friction, AW0	10-13-50
6-A,B	P-2001	68	22, 23	14/41/40 - 14/54/15	Accl, 2 car, AW3	8-2-10
	P-3001	69	1-18	9/6/12 - 10/1/49	Decl, blended brks, AW3	7-57-50
	P-3003	69	35-46	13/31/28 - 14/17/0	Decl, dynamic brks, AW3	7-57-50
7-A,B	R-1101	55	5-12	8/37/13 - 8/42/10	R/Q welded rail concrete tie, AW1	
		56	1-12		R/Q welded rail concrete tie, AW2	
		53	2-10	9/23/9 - 9/41/40	R/Q welded rail concrete tie, AW3	
8-A,B	P-2001	74	3, 4	11/17/47 - 11/26/15	Accl performance, AW3	9-22-6
	P-3001	74	1, 2	11/7/50 - 11/11/10	Decl blended brks, AW3	9-22-6

MAG TAPE DATA LOG (CONTINUED)
(FROM CAR SF 0002)

TAPE NO.	TEST SET	TEST NO.	RECORD NO.	TIME SPAN (IHRIG)	NOTES	CALIBRATION (IHRIG START)
8-A,B	P-3004	77	2-8	10/15/15 - 10/36/55	Decl emerg brk, AW3, 2 car	9-57-42
9-A,B	P-3001	82	3-18	9/1/25 - 10/53/40	Decl blended brks, AW2, 2 car	8-3-00
		81	1-6	No time on record	Decl blended brks, AW3, 2 car	10-10-43
	P-3002	82	23-25	11/25/30 - 14/6/5	Decl friction brks, AW2	8-3-00
	P-3003	82	29-31	14/41/25 - 14/59/48	Decl dynamic brks, AW2, 2 car	8-3-00
	P-3004	82	27, 28	14/22/5 - 14/30/45	Decl emergency brks, AW2, 2 car	8-3-00
		81	8-15	14/54/5 - 15/32/35	Decl mod emergency brks, AW3, 2 car	10-10-43
10-A,B	P-5011	84	2	8/23/50 - 9/22/45	Power consumption blend brk, AW2	11-30-47
11-A,B	P-3001	86	4-7 14-16	7/41/22 - 7/58/16 8/30/43 - 8/26/28	Decl blended brk, AW2, 2 car	
	P-3002	86	9-11	8/6/30 - 8/18/7	Decl friction brk, AW2, 2 car	
	P-4001	86	17-23	9/1/40 - 9/55/25	Drift test, AW2, 2 car	
14-A,B	PC-5011	30	1	9/5/30 - 10/00/09	Power consumption, AW2, 2 car	
	P-4001	30	2-9	10/31/55 - 11/15/20	Draft test, AW2, 2 car	
15-A,B	P-2001	30	11-15	11/29/55 - 11/46/55	Accl, performance, AW2, 2 car	
		31	6-9	9/26/10 - 10/23/25	Accl, performance, AW2, 2 car	
		32	1-4	7/27/0 - 7/46/10	Accl, performance, AW3, 2 car	
	P-3001	32	5-12	7/57/0 - 8/14/45	Decl, blended, AW3, 2 car	
		33	1-9	7/9/40 - 7/36/57	Decl, friction AW0, 2 car	
	P-3004	31	1-5	7/25/5 - 8/10/35	Decl, emergency, AW2, 2 car	
		34	11-20	15/6/38 - 15/27/25	Decl, emergency, AW2	

MAG TAPE DATA LOG (CONTINUED)
(FROM CAR SF 0002)

TAPE NO.	TEST SET	TEST NO.	RECORD NO.	TIME SPAN (IHRIG)	NOTES	CALIBRATION (IHRIG START)
16-A,B	P-4001	25	1-8	14/52/5 - 15/20/45	Drift test, AW2	13-40-0
17-A,B	PC-5011	36	16	14/9/50 - 16/6/05	Power Consumption, AW2, (480V) (Blended)	8-32-00
18-A,B	PC-5011	37	4	14/24/40 - 16/25/10	Power Consumption AW2, (750V) (Blended)	8-05-20
19-A,B	PC-5011	37	5	16/44/50 - 17/50/10	Power Consumption AW2, (575V) (Friction)	8-05-20 (on tape 18)
20-A,B	PC-5011	38	3	9/45/45 - 10/51/45	Power Consumption, AW2 (575V) (Blended)	
21-A,B	PC-5011	38	4	13/59/20 - 14/53/45	Power Consumption, AW2 (575V) (Friction)	

11-4