

NTSB Docket Item
DCA-05-MR-009
Metrolink Derailment
Glendale, California
January 26, 2005

Ultrasonic Testing Report

ULTRASONIC TESTING MOVEMENT REPORT

HERZOG SERVICES, INC
PO BOX 368, ST. JOSEPH, MO 64502
Phone: (816) 364 - 3000 Fax: (816) 233 - 7757

TEST CAR: HRZ026
TEST DATE: 11/1/2004
OPERATOR: PJB

CLIENT: METROLINK
 DIVISION: LOS ANGELES
 SUBDIVISION: RIVER
 LINE SEGMENT: 8
 LOCATION: 0.0 TO 484.9

CLIENT: METROLINK
 DIVISION: LOS ANGELES
 SUBDIVISION: VALLEY
 LINE SEGMENT: 6
 LOCATION: 2.1 TO 76.6

9 more

CLIENT: METROLINK
 DIVISION: LOS ANGELES
 SUBDIVISION: LOS ANGELES
 LINE SEGMENT: 1
 LOCATION: 0.0 TO 1.0

MODE	REMARKS	DIR	TRACK	LOC.	SUFFIX	CLICK	TESTED	RUN L.	TRAIN	OTHER	HERZOG	SERVICE	SHIFT
					BEG.	NO.	MILES	DELAY	DELAY	DELAY	DELAY	HOURS	HOURS
START SHIFT	ON CALL						19:30	0.000					0:30
ON CALL	READY						20:00	0.000		0:00		0:00	0:00
CLIENT DELAY	JOB & SAFETY BRIEF						20:00	0.000		0:12		0:12	0:12
TEST	MAIN2	E	2	480.700			20:12	1.380	0:12			0:12	0:12
CLIENT DELAY	TRAIN DELAY			482.080			20:24	0.000		0:12		0:12	0:12
TEST	MAIN 2	E	2	482.080			20:36	2.720	0:30			0:30	0:30
RUNLIGHT	TO MP 484.7			484.800			21:06	0.000	0:06			0:06	0:06
TEST	MAIN 1	W	1	484.700			21:12	4.000	0:36			0:36	0:36
LOC CHANGE	[1126]			480.700			21:48	0.000	0:00			0:00	0:00
TEST	MAIN 1	W	1	2.100			21:48	1.100	0:18			0:18	0:18
RUNLIGHT	TO MP 6.5			3.200			22:06	0.000	0:12			0:12	0:12
TEST	MAIN 1	W	1	6.500			22:18	4.770	0:36			0:36	0:36
RUNLIGHT	TO MP 11.1			11.270			22:54	0.000	0:06			0:06	0:06
TEST	BRIGHTON SDG	W	5	11.100		1	23:00	1.700	0:12			0:12	0:12
LOC CHANGE	[1121]			12.800			23:12	0.000	0:00			0:00	0:00
CLIENT DELAY	TRAIN DELAY						23:12	0.000		0:24		0:24	0:24
TEST	LEAD 1	E	6	0.960		2	23:36	0.540	0:06			0:06	0:06
TEST	LEAD 2	E	6	0.420		3	23:42	0.260	0:06			0:06	0:06
RUNLIGHT	TO NEXT LEAD			0.160			23:48	0.000	0:06			0:06	0:06
TEST	LEAD 2	E	6	0.850		3	23:54	0.430	0:06			0:06	0:06
RUNLIGHT	TO NEXT LEAD			0.420			0:00	0.000	0:18			0:18	0:18
TEST	LEAD 3	E	6	0.851		4	0:18	0.531	0:06			0:06	0:06
RUNLIGHT	TO NEXT LEAD			0.320			0:24	0.000	0:06			0:06	0:06
TEST	LEAD 4	E	6	0.843		5	0:30	0.493	0:12			0:12	0:12
RUNLIGHT	TO NEXT LEAD			0.350			0:42	0.000	0:06			0:06	0:06
TEST	LEAD 5	E	6	0.941		6	0:48	0.591	0:06			0:06	0:06
CLIENT DELAY	FINISH TEST			0.350			0:54	0.000		3:06		3:06	3:06
OFF CALL	REPORTS & MAINT.						4:00	0.000					0:00
END SHIFT	OFF CALL LA						4:00	0.000					
Totals:							18.515	3:06	1:00	0:36	3:18	8:00	8:30

DAY REMARKS :

HERZOG CHIEF OPERATOR _____

RAILROAD TRACK ESCORT _____

ULTRASONIC TESTING MOVEMENT REPORT

HERZOG SERVICES, INC
PO BOX 368, ST. JOSEPH, MO 64502
Phone: (816) 364 - 3000 Fax: (816) 233 - 7757

TEST CAR: HRZ026
TEST DATE: 11/1/2004
OPERATOR: PJB

CLIENT: METROLINK
DIVISION: LOS ANGELES
SUBDIVISION: RIVER
LINE SEGMENT: 8
LOCATION: 0.0 TO 484.9

CLIENT: METROLINK
DIVISION: LOS ANGELES
SUBDIVISION: VALLEY
LINE SEGMENT: 6
LOCATION: 2.1 TO 76.6

CLIENT: METROLINK
DIVISION: LOS ANGELES
SUBDIVISION: LOS ANGELES
LINE SEGMENT: 1
LOCATION: 0.0 TO 1.0

MODE	REMARKS	DIR	TRACK	LOC.	SUFFIX	CLICK	TESTED	RUN L.	TRAIN	OTHER	HERZOG	SERVICE	SHIFT	
					BEG. END	NO.	TIME	MILES	DELAY	DELAY	DELAY	HOURS	HOURS	
START SHIFT	ON CALL						19:30	0.000					0:30	
ON CALL	READY						20:00	0.000		0:00		0:00	0:00	
CLIENT DELAY	JOB & SAFETY BRIEF						20:00	0.000		0:12		0:12	0:12	
TEST	MAIN2	E	2	480.700			20:12	1.380	0:12			0:12	0:12	
CLIENT DELAY	TRAIN DELAY			482.080			20:24	0.000		0:12		0:12	0:12	
TEST	MAIN 2	E	2	482.080			20:36	2.720	0:30			0:30	0:30	
RUNLIGHT	TO MP 484.7			484.800			21:06	0.000		0:06		0:06	0:06	
TEST	MAIN 1	W	1	484.700			21:12	4.000	0:36			0:36	0:36	
LOC CHANGE	[1126]			480.700			21:48	0.000		0:00		0:00	0:00	
TEST	MAIN 1	W	1	2.100			21:48	1.100	0:18			0:18	0:18	
RUNLIGHT	TO MP 6.5			3.200			22:06	0.000		0:12		0:12	0:12	
TEST	MAIN 1	W	1	6.500			22:18	4.770	0:36			0:36	0:36	
RUNLIGHT	TO MP 11.1			11.270			22:54	0.000		0:06		0:06	0:06	
TEST	BRIGHTON SDG	W	5	11.100		1	23:00	1.700	0:12			0:12	0:12	
LOC CHANGE	[1121]			12.800			23:12	0.000		0:00		0:00	0:00	
CLIENT DELAY	TRAIN DELAY						23:12	0.000		0:24		0:24	0:24	
TEST	LEAD 1	E	6	0.960		2	23:36	0.540	0:06			0:06	0:06	
TEST	LEAD 2	E	6	0.420		3	23:42	0.260	0:06			0:06	0:06	
RUNLIGHT	TO NEXT LEAD			0.160			23:48	0.000		0:06		0:06	0:06	
TEST	LEAD 2	E	6	0.850		3	23:54	0.430	0:06			0:06	0:06	
RUNLIGHT	TO NEXT LEAD			0.420			0:00	0.000		0:18		0:18	0:18	
TEST	LEAD 3	E	6	0.851		4	0:18	0.531	0:06			0:06	0:06	
RUNLIGHT	TO NEXT LEAD			0.320			0:24	0.000		0:06		0:06	0:06	
TEST	LEAD 4	E	6	0.843		5	0:30	0.493	0:12			0:12	0:12	
RUNLIGHT	TO NEXT LEAD			0.350			0:42	0.000		0:06		0:06	0:06	
TEST	LEAD 5	E	6	0.941		6	0:48	0.591	0:06			0:06	0:06	
CLIENT DELAY	FINISH TEST			0.350			0:54	0.000		3:06		3:06	3:06	
OFF CALL	REPORTS & MAINT.						4:00	0.000					0:00	
END SHIFT	OFF CALL LA						4:00	0.000						
Totals:								18.515	3:06	1:00	0:36	3:18	8:00	8:30

DAY REMARKS :

HERZOG CHIEF OPERATOR _____

RAILROAD TRACK ESCORT _____

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TEST CAR: HRZ026
 TEST DATE: 11/1/2004
 OPERATOR: PJB

CLIENT: METROLINK
 DIVISION: LOS ANGELES
 SUBDIVISION: RIVER
 LINE SEGMENT: 8
 LOCATION: 0.0 TO 484.9

CLIENT: METROLINK
 DIVISION: LOS ANGELES
 SUBDIVISION: VALLEY
 LINE SEGMENT: 6
 LOCATION: 2.1 TO 76.6

CLIENT: METROLINK
 DIVISION: LOS ANGELES
 SUBDIVISION: LOS ANGELES
 LINE SEGMENT: 1
 LOCATION: 0.0 TO 1.0

MODE	REMARKS	DIR	TRACK	LOC.	SUFFIX BEG. END	CLICK NO.	TESTED TIME	RUN L. MILES	TRAIN HOURS	OTHER DELAY	HERZOG DELAY	SERVICE HOURS	SHIFT HOURS	
START SHIFT	ON CALL						19:30	0.000					0:30	
ON CALL	READY						20:00	0.000		0:00		0:00	0:00	
CLIENT DELAY	JOB & SAFETY BRIEF						20:00	0.000		0:12		0:12	0:12	
TEST	MAIN2	E	2	480.700			20:12	1.380	0:12			0:12	0:12	
CLIENT DELAY	TRAIN DELAY			482.080			20:24	0.000		0:12		0:12	0:12	
TEST	MAIN 2	E	2	482.080			20:36	2.720	0:30			0:30	0:30	
RUNLIGHT	TO MP 484.7			484.800			21:06	0.000		0:06		0:06	0:06	
TEST	MAIN 1	W	1	484.700			21:12	4.000	0:36			0:36	0:36	
LOC CHANGE	[1126]			480.700			21:48	0.000		0:00		0:00	0:00	
TEST	MAIN 1	W	1	2.100			21:48	1.100	0:18			0:18	0:18	
RUNLIGHT	TO MP 6.5			3.200			22:06	0.000		0:12		0:12	0:12	
TEST	MAIN 1	W	1	6.500			22:18	4.770	0:36			0:36	0:36	
RUNLIGHT	TO MP 11.1			11.270			22:54	0.000		0:06		0:06	0:06	
TEST	BRIGHTON SDG	W	5	11.100		1	23:00	1.700	0:12			0:12	0:12	
LOC CHANGE	[1121]			12.800			23:12	0.000		0:00		0:00	0:00	
CLIENT DELAY	TRAIN DELAY						23:12	0.000		0:24		0:24	0:24	
TEST	LEAD 1	E	6	0.960		2	23:36	0.540	0:06			0:06	0:06	
TEST	LEAD 2	E	6	0.420		3	23:42	0.260	0:06			0:06	0:06	
RUNLIGHT	TO NEXT LEAD			0.160			23:48	0.000		0:06		0:06	0:06	
TEST	LEAD 2	E	6	0.850		3	23:54	0.430	0:06			0:06	0:06	
RUNLIGHT	TO NEXT LEAD			0.420			0:00	0.000		0:18		0:18	0:18	
TEST	LEAD 3	E	6	0.851		4	0:18	0.531	0:06			0:06	0:06	
RUNLIGHT	TO NEXT LEAD			0.320			0:24	0.000		0:06		0:06	0:06	
TEST	LEAD 4	E	6	0.843		5	0:30	0.493	0:12			0:12	0:12	
RUNLIGHT	TO NEXT LEAD			0.350			0:42	0.000		0:06		0:06	0:06	
TEST	LEAD 5	E	6	0.941		6	0:48	0.591	0:06			0:06	0:06	
CLIENT DELAY	FINISH TEST			0.350			0:54	0.000		3:06		3:06	3:06	
OFF CALL	REPORTS & MAINT.						4:00	0.000					0:00	
END SHIFT	OFF CALL LA						4:00	0.000					0:00	
Totals:								18.515	3:06	1:00	0:36	3:18	8:00	8:30

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LINE SEGMENT: 8
LOCATION: 0.0 TO 484.9

CLIENT: METROLINK
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LINE SEGMENT: 6
LOCATION: 2.1 TO 76.6

CLIENT: METROLINK
DIVISION: LOS ANGELES
SUBDIVISION: LOS ANGELES
LINE SEGMENT: 1
LOCATION: 0.0 TO 1.0

MODE	REMARKS	DIR	TRACK	LOC.	SUFFIX BEG. END	CLICK NO.	TIME	TESTED MILES	RUN L. HOURS	TRAIN DELAY	OTHER DELAY	HERZOG DELAY	SERVICE HOURS	SHIFT HOURS
START SHIFT	ON CALL						19:30	0.000						0:30
ON CALL	READY						20:00	0.000			0:00		0:00	0:00
CLIENT DELAY	JOB & SAFETY BRIEF						20:00	0.000			0:12		0:12	0:12
TEST	MAIN2	E	2	480.700			20:12	1.380	0:12				0:12	0:12
CLIENT DELAY	TRAIN DELAY			482.080			20:24	0.000		0:12			0:12	0:12
TEST	MAIN 2	E	2	482.080			20:36	2.720	0:30				0:30	0:30
RUNLIGHT	TO MP 484.7			484.800			21:06	0.000		0:06			0:06	0:06
TEST	MAIN 1	W	1	484.700			21:12	4.000	0:36				0:36	0:36
LOC CHANGE	[1126]			480.700			21:48	0.000		0:00			0:00	0:00
TEST	MAIN 1	W	1	2.100			21:48	1.100	0:18				0:18	0:18
RUNLIGHT	TO MP 6.5			3.200			22:06	0.000		0:12			0:12	0:12
RUNLIGHT	MAIN 1	W	1	6.500			22:18	4.770	0:36				0:36	0:36
RUNLIGHT	TO MP 11.1			11.270			22:54	0.000		0:06			0:06	0:06
TEST	BRIGHTON SDG	W	5	11.100		1	23:00	1.700	0:12				0:12	0:12
LOC CHANGE	[1121]			12.800			23:12	0.000		0:00			0:00	0:00
CLIENT DELAY	TRAIN DELAY						23:12	0.000			0:24		0:24	0:24
TEST	LEAD 1	E	6	0.960		2	23:36	0.540	0:06				0:06	0:06
TEST	LEAD 2	E	6	0.420		3	23:42	0.260	0:06				0:06	0:06
RUNLIGHT	TO NEXT LEAD			0.160			23:48	0.000		0:06			0:06	0:06
TEST	LEAD 2	E	6	0.850		3	23:54	0.430	0:06				0:06	0:06
RUNLIGHT	TO NEXT LEAD			0.420			0:00	0.000		0:18			0:18	0:18
TEST	LEAD 3	E	6	0.851		4	0:18	0.531	0:06				0:06	0:06
RUNLIGHT	TO NEXT LEAD			0.320			0:24	0.000		0:06			0:06	0:06
TEST	LEAD 4	E	6	0.843		5	0:30	0.493	0:12				0:12	0:12
RUNLIGHT	TO NEXT LEAD			0.350			0:42	0.000		0:06			0:06	0:06
TEST	LEAD 5	E	6	0.941		6	0:48	0.591	0:06				0:06	0:06
CLIENT DELAY	FINISH TEST			0.350			0:54	0.000			3:06		3:06	3:06
OFF CALL	REPORTS & MAINT.						4:00	0.000						0:00
END SHIFT	OFF CALL LA						4:00	0.000						
Totals:								18.515	3:06	1:00	0:36	3:18	8:00	8:30

DAY REMARKS :

HERZOG CHIEF OPERATOR _____

RAILROAD TRACK ESCORT _____

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CLIENT: METROLINK
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 LINE SEGMENT: 6
 LOCATION: 2.1 TO 76.6

CLIENT: METROLINK
 DIVISION: LOS ANGELES
 SUBDIVISION: LOS ANGELES
 LINE SEGMENT: 1
 LOCATION: 0.0 TO 1.0

MODE	REMARKS	DIR	TRACK	LOC.	SUFFIX BEG. END	CLICK NO.	TIME	TESTED MILES	HOURS	RUN L. DELAY	TRAIN DELAY	OTHER DELAY	HERZOG DELAY	SERVICE HOURS	SHIFT HOURS
START SHIFT	ON CALL						19:30	0.000							0:30
ON CALL	READY						20:00	0.000				0:00		0:00	0:00
CLIENT DELAY	JOB & SAFETY BRIEF						20:00	0.000				0:12		0:12	0:12
TEST	MAIN2	E	2	480.700			20:12	1.380	0:12					0:12	0:12
CLIENT DELAY	TRAIN DELAY			482.080			20:24	0.000			0:12			0:12	0:12
TEST	MAIN 2	E	2	482.080			20:36	2.720	0:30					0:30	0:30
RUNLIGHT	TO MP 484.7			484.800			21:06	0.000		0:06				0:06	0:06
TEST	MAIN 1	W	1	484.700			21:12	4.000	0:36					0:36	0:36
LOC CHANGE	[1126]			480.700			21:48	0.000		0:00				0:00	0:00
TEST	MAIN 1	W	1	2.100			21:48	1.100	0:18					0:18	0:18
RUNLIGHT	TO MP 6.5			3.200			22:06	0.000		0:12				0:12	0:12
TEST	MAIN 1	W	1	6.500			22:18	4.770	0:36					0:36	0:36
RUNLIGHT	TO MP 11.1			11.270			22:54	0.000		0:06				0:06	0:06
TEST	BRIGHTON SDG	W	5	11.100		1	23:00	1.700	0:12					0:12	0:12
LOC CHANGE	[1121]			12.800			23:12	0.000		0:00				0:00	0:00
CLIENT DELAY	TRAIN DELAY						23:12	0.000			0:24			0:24	0:24
TEST	LEAD 1	E	6	0.960		2	23:36	0.540	0:06					0:06	0:06
TEST	LEAD 2	E	6	0.420		3	23:42	0.260	0:06					0:06	0:06
RUNLIGHT	TO NEXT LEAD			0.160			23:48	0.000		0:06				0:06	0:06
TEST	LEAD 2	E	6	0.850		3	23:54	0.430	0:06					0:06	0:06
RUNLIGHT	TO NEXT LEAD			0.420			0:00	0.000		0:18				0:18	0:18
TEST	LEAD 3	E	6	0.851		4	0:18	0.531	0:06					0:06	0:06
RUNLIGHT	TO NEXT LEAD			0.320			0:24	0.000		0:06				0:06	0:06
TEST	LEAD 4	E	6	0.843		5	0:30	0.493	0:12					0:12	0:12
RUNLIGHT	TO NEXT LEAD			0.350			0:42	0.000		0:06				0:06	0:06
TEST	LEAD 5	E	6	0.941		6	0:48	0.591	0:06					0:06	0:06
CLIENT DELAY	FINISH TEST			0.350			0:54	0.000			3:06			3:06	3:06
OFF CALL	REPORTS & MAINT.						4:00	0.000							0:00
END SHIFT	OFF CALL LA						4:00	0.000							
Totals:								18.515	3:06	1:00	0:36	3:18	8:00	8:30	

DAY REMARKS :

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RAILROAD TRACK ESCORT _____