

DCA-08-MR-009

**Head-on Collision of
Metrolink Commuter Train No. 111
and UP Freight Train No. LOF65-12**

Chatsworth, CA

September 12, 2008

**FRA Track Geometry Car Data
dated, March 17, 2008**

18 pages, including cover

DOTX220 Geometry Car
United States Department of Transportation
AUTOMATED TRACK INSPECTION PROGRAM

TRACK GEOMETRY INSPECTION REPORT

Los Angeles, CA to Las Posas, CA
Railroad: SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY (SCRA)
Survey Number: 0831
Mile Post 140 to Mile Post 427



Prepared for:
United States Department of Transportation
Federal Railroad Administration
Office of Safety
Washington, D.C.

Prepared by:
ENSCO, Inc.
5400 Port Royal Rd
Springfield, VA 22151



Certificate 2411.01

Approved By:

Survey Director:

S. WAGES

Signature

Date

Under the U.S. Department of Transportation, Federal Railroad Administration (FRA), Office of Safety Assurance and Compliance, Automated Track Inspection Program and in accordance with 49 CFR 213 Federal Track Safety Standards, this Track Geometry Inspection Report provides a list of exceptions that relate only to the time and date the track was inspected and the required remedial action taken. This compliance report is offered only to the track owner and is not to be reproduced to others in whole or part without the expressed written consent of the FRA and the track owner. FRA requests any reprinting be labeled as a copy of the original.

NOTES

During an Automated Track Inspection Program (ATIP) survey, data is collected by the ATIP cars, which generate a Track Geometry Inspection Report (TGIR). These reports make the analysis of the track easier to read and comprehend than attempting to read exceptions from a video strip chart alone. TGIR are generated electronically for printing in near real-time onboard the ATIP cars or can be reprocessed later upon request to the FRA. Copies are transmitted electronically as a Portable Document Format (PDF) using satellite or Internet communications. Copies are distributed as follows:

1. One copy is given to the railroad
2. Two copies are given to the principal FRA Inspector
3. One copy is sent to the FRA Washington headquarters

TGIR consists of five separate sections. Exceptions are not reported for Profile and Alignment when ATIP car speed is less than five (5) and fifteen (15) mile per hour, respectively. The sample interval for track surveyed is one (1) foot.

A complete description of the information provided in the report is available at <http://atip.fra.dot.gov/TGIR>

Exception Report
Exception List Section
Milepost 140 to Milepost 427
Los Angeles, CA to Las Posas, CA

Page 1 of 9
Run Date: 03/17/2008
Run ID: 2008031701

MP	FT	Parameter	Value	Length	TSC	LC	PC	Track	Latitude	Longitude
0	90	State Line	SL	0	T	0	0	07	34.031732	-118.227529
0	91	Railroad	RR	0	T	0	0	07	34.031735	-118.227530
0	93	Subdivision	SUBDIV	0	T	0	0	07	34.031741	-118.227531
0	108	Class Change	1.00	0	T	0	0	07	34.031778	-118.227540
0	108	Posted Speed	10.00	0	T	0	0	07	34.031778	-118.227540
0	1080	Bridge Start	0.00	0	-	0	0	07	34.034414	-118.228127
0	1766	Switch Pt	0.00	0	-	0	0	07	34.036272	-118.228542
0	1774	Class Change	2.00	0	-	0	0	07	34.036294	-118.228542
0	1774	Posted Speed	20.00	0	-	0	0	07	34.036294	-118.228542
0	1890	Switch Pt	0.00	0	T	0	0	07	34.036615	-118.228568
0	1983	Switch Pt	0.00	0	-	0	0	07	34.036872	-118.228588
0	2010	Road Xing Start	0.00	0	-	0	0	07	34.036947	-118.228592
0	2039	Road Xing End	0.00	0	-	0	0	07	34.037027	-118.228598
0	2161	Switch Pt	0.00	0	-	0	0	07	34.037362	-118.228625
0	2528	Bridge End	0.00	0	T	0	0	07	34.038360	-118.228845
0	3285	Road Xing Start	0.00	0	-	0	0	07	34.040395	-118.229406
0	3636	Bridge End	0.00	0	T	0	0	07	34.041344	-118.229619
0	6032	Bridge End	0.00	0	C	0	0	07	34.047841	-118.231043
0	7215	Road Xing Start	0.00	0	-	0	0	07	34.050972	-118.230018
0	7266	Road Xing End	0.00	0	-	0	0	07	34.051104	-118.229963
0	7945	Bridge End	0.00	0	C	0	0	07	34.052916	-118.229407
0	8845	Bridge End	0.00	0	-	0	0	07	34.054956	-118.227744
0	9605	Signal	0.00	0	-	0	0	07	34.056901	-118.227008
0	9963	Switch Pt	0.00	0	-	0	0	07	34.057887	-118.227071
0	10062	Track Change	4.00	0	T	0	0	04	34.058159	-118.227106
0	10206	Switch Pt	0.00	0	-	0	0	04	34.058553	-118.227161
0	10328	Switch Pt	0.00	0	C	0	0	04	34.058887	-118.227208
0	10599	Switch Pt	0.00	0	-	0	0	04	34.059633	-118.227265
0	10633	Track Change	3.00	0	-	0	0	03	34.059725	-118.227276
0	10864	Switch Pt	0.00	0	C	0	0	03	34.060353	-118.227403
0	11097	Switch Pt	0.00	0	-	0	0	03	34.060989	-118.227503
140	11345	Down Milepost	140.00	0	-	0	0	03	34.061672	-118.227543
140	67	Switch Pt	0.00	0	C	0	0	03	34.061851	-118.227504
140	176	Switch Pt	0.00	0	-	0	0	03	34.062143	-118.227416
140	381	Signal	0.00	0	T	0	0	03	34.062680	-118.227204
140	643	Switch Pt	0.00	0	-	0	0	03	34.063364	-118.226927
140	907	Switch Pt	0.00	0	-	0	0	03	34.064041	-118.226618
140	1123	Class Change	3.00	0	T	0	0	03	34.064610	-118.226392
140	1312	Posted Speed	30.00	0	T	0	0	03	34.065104	-118.226195
140	1606	Switch Pt	0.00	0	T	0	0	03	34.065873	-118.225891
140	1925	Road Xing Start	0.00	0	T	0	0	03	34.066709	-118.225561
140	1964	Road Xing End	0.00	0	T	0	0	03	34.066811	-118.225521
140	2243	Road Xing Start	0.00	0	T	0	0	03	34.067542	-118.225231
140	2338	Road Xing End	0.00	0	-	0	0	03	34.067790	-118.225133

Exception List Section

Run Date: 03/17/2008

Milepost 140 to Milepost 427

Run ID: 2008031701

Los Angeles, CA to Las Posas, CA

MP	FT	Parameter	Value	Length	TSC	LC	PC	Track	Latitude	Longitude
140	2427	Concrete Ties Start	0.00	0	-	0	0	03	34.068023	-118.225041
140	3172	Posted Speed	50.00	0	T	0	0	03	34.070045	-118.225072
140	3777	Bridge Start	0.00	0	C	0	0	03	34.071678	-118.225467
140	4230	Signal	0.00	0	-	0	0	03	34.072910	-118.225641
140	4990	Switch Pt	0.00	0	T	0	0	03	34.074979	-118.226031
2	6634	Up Milepost	2.00	0	-	0	0	03	34.079442	-118.226981
2	525	Bridge Start	0.00	0	T	0	0	03	34.080884	-118.226900
2	704	Switch Pt	0.00	0	T	0	0	03	34.081377	-118.226867
2	896	Switch Pt	0.00	0	-	0	0	03	34.081905	-118.226832
2	1056	Bridge Start	0.00	0	-	0	0	03	34.082338	-118.226803
2	1491	L Align 62	-1.98	7	-	2	3	03	34.083517	-118.226569
2	1499	Switch Pt	0.00	0	C	0	0	03	34.083539	-118.226563
2	1787	Switch Pt	0.00	0	-	0	0	03	34.084296	-118.226295
2	1846	Lmt Speed 3	39.00	233	C		3	03	34.084452	-118.226246
2	1873	Track Change	1.00	0	-	0	0	01	34.084524	-118.226226
2	4407	Lubricator	0.00	0	T	0	0	01	34.091108	-118.228100
2	5049	Lmt Speed 3	48.00	481	C		3	01	34.092513	-118.229384
2	5567	Track Change	3.00	0	-	0	0	03	34.093441	-118.230682
3	5902	Up Milepost	3.00	0	-	0	0	03	34.093812	-118.231473
3	516	Switch Pt	0.00	0	-	0	0	03	34.094400	-118.233022
3	533	Track Change	1.00	0	-	0	0	01	34.094421	-118.233072
3	1262	Bridge Start	0.00	0	C	0	0	01	34.095418	-118.235164
3	1966	Signal	0.00	0	-	0	0	01	34.096807	-118.236772
3	2153	Posted Speed	60.00	0	T	0	0	01	34.097230	-118.237128
3	2491	Switch Pt	0.00	0	T	0	0	01	34.097990	-118.237772
3	2528	Switch Pt	0.00	0	T	0	0	01	34.098073	-118.237843
3	3994	Lmt Speed 3	58.00	962	C		3	01	34.101569	-118.240207
3	5015	Subdivision	SUBDIV	0	-	0	0	01	34.104249	-118.241220
3	5965	Lmt Speed 3	59.00	1058	C		3	01	34.106546	-118.242686
3	7675	Lmt Speed 3	59.00	824	C		3	01	34.110453	-118.245800
3	8077	Bridge Start	0.00	0	-	0	0	01	34.111479	-118.246305
3	8935	Signal	0.00	0	-	0	0	01	34.113446	-118.247849
3	9067	Lmt Speed 3	58.00	1123	C		3	01	34.113709	-118.248152
5	9981	Up Milepost	5.00	0	T	0	0	01	34.115518	-118.250259
5	321	Class Change	4.00	0	T	0	0	01	34.116148	-118.250997
5	321	Posted Speed	79.00	0	T	0	0	01	34.116148	-118.250997
5	2100	Switch Pt	0.00	0	T	0	0	01	34.119669	-118.255094
5	2899	Bridge Start	0.00	0	C	0	0	01	34.121271	-118.256901
5	3011	Bridge End	0.00	0	C	0	0	01	34.121503	-118.257149
5	3643	Road Xing Start	0.00	0	C	0	0	01	34.122850	-118.258473
5	3818	Road Xing Start	0.00	0	C	0	0	01	34.123234	-118.258824
5	4088	Road Xing Start	0.00	0	C	0	0	01	34.123834	-118.259352
5	4278	Road Xing Start	0.00	0	C	0	0	01	34.124263	-118.259714
5	4640	Road Xing Start	0.00	0	C	0	0	01	34.125093	-118.260377

Exception Report
Exception List Section
Milepost 140 to Milepost 427
Los Angeles, CA to Las Posas, CA

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Run Date: 03/17/2008
Run ID: 2008031701

MP	FT	Parameter	Value	Length	TSC	LC	PC	Track	Latitude	Longitude
6	5282	Up Milepost	6.00	0	C	0	0	01	34.126612	-118.261470
6	1405	Signal	0.00	0	T	0	0	01	34.130081	-118.263513
6	1630	Switch Pt	0.00	0	T	0	0	01	34.130650	-118.263803
6	2569	Switch Pt	0.00	0	T	0	0	01	34.133031	-118.265030
6	2633	Road Xing Start	0.00	0	T	0	0	01	34.133192	-118.265113
6	2734	Road Xing End	0.00	0	T	0	0	01	34.133448	-118.265244
7	5245	Up Milepost	7.00	0	T	0	0	01	34.139802	-118.268517
7	740	Bridge Start	0.00	0	T	0	0	01	34.141673	-118.269480
7	848	Bridge End	0.00	0	T	0	0	01	34.141946	-118.269621
7	2664	Road Xing Start	0.00	0	T	0	0	01	34.146542	-118.271985
7	2756	Road Xing End	0.00	0	T	0	0	01	34.146774	-118.272104
7	3640	Hotbox Detect	0.00	0	T	0	0	01	34.149012	-118.273254
7	5134	Signal	0.00	0	-	0	0	01	34.152792	-118.275200
7	5826	Bridge Start	0.00	0	-	0	0	01	34.154514	-118.276178
7	5968	Bridge End	0.00	0	-	0	0	01	34.154859	-118.276399
7	8970	Road Xing Start	0.00	0	-	0	0	01	34.161287	-118.282562
7	9082	Road Xing End	0.00	0	-	0	0	01	34.161490	-118.282841
9	10544	Up Milepost	MP	0	T	0	0	01	34.163870	-118.286743
9	764	Road Xing Start	0.00	0	T	0	0	01	34.165036	-118.288845
9	870	Road Xing End	0.00	0	T	0	0	01	34.165198	-118.289137
9	2356	Bridge Start	0.00	0	T	0	0	01	34.167465	-118.293228
9	4081	Signal	0.00	0	T	0	0	01	34.170109	-118.297972
9	4150	Switch Pt	0.00	0	-	0	0	01	34.170215	-118.298162
9	5255	Switch Pt	0.00	0	T	0	0	01	34.171904	-118.301210
10	5288	Up Milepost	10.00	0	T	0	0	01	34.171955	-118.301304
10	1883	Bridge Start	0.00	0	T	0	0	01	34.174849	-118.306473
10	3763	Bridge Start	0.00	0	C	0	0	01	34.178008	-118.311401
10	3888	Ped Xing	0.00	0	C	0	0	01	34.178234	-118.311713
10	5009	Bridge Start	0.00	0	C	0	0	01	34.180350	-118.314414
11	5277	Up Milepost	11.00	0	C	0	0	01	34.180878	-118.315032
11	271	Signal	0.00	0	T	0	0	01	34.181421	-118.315651
11	322	Switch Pt	0.00	0	T	0	0	01	34.181523	-118.315767
11	1394	Switch Pt	0.00	0	-	0	0	01	34.183672	-118.318196
11	1794	Switch Pt	0.00	0	-	0	0	01	34.184450	-118.319133
11	1821	Track Change	2.00	0	-	0	0	02	34.184503	-118.319196
11	1866	Switch Pt	0.00	0	-	0	0	02	34.184594	-118.319298
11	2377	Subdivision	SUBDIV	0	-	0	0	02	34.185615	-118.320461
11	2432	Lmt Speed 3	77.00	377	C		4	02	34.185721	-118.320588
11	2547	Concrete Ties Start	0.00	0	-	0	0	02	34.185945	-118.320859
11	3162	Bridge Start	0.00	0	-	0	0	02	34.186748	-118.322621
11	3219	Bridge End	0.00	0	-	0	0	02	34.186786	-118.322805
11	3325	Lmt Speed 3	37.00	894	C		4	02	34.186854	-118.323147
462	5129	Down Milepost	462.00	0	T	0	0	02	34.188006	-118.328964
462	1717	Posted Speed	70.00	0	T	0	0	02	34.189102	-118.334492

Exception List Section

Run Date: 03/17/2008

Milepost 140 to Milepost 427

Run ID: 2008031701

Los Angeles, CA to Las Posas, CA

MP	FT	Parameter	Value	Length	TSC	LC	PC	Track	Latitude	Longitude
462	2815	Road Xing Start	0.00	0	T	0	0	02	34.189801	-118.338029
462	2903	Road Xing End	0.00	0	T	0	0	02	34.189857	-118.338313
461	5407	Down Milepost	461.00	0	T	0	0	02	34.191453	-118.346382
461	447	Switch Pt	0.00	0	-	0	0	02	34.191738	-118.347818
461	878	Switch Pt	0.00	0	-	0	0	02	34.192055	-118.349195
461	894	Track Change	1.00	0	-	0	0	01	34.192066	-118.349246
461	981	Switch Pt	0.00	0	T	0	0	01	34.192121	-118.349527
461	1211	Posted Speed	9.00	0	T	0	0	01	34.192268	-118.350268
461	1326	Posted Speed	79.00	0	T	0	0	01	34.192341	-118.350638
461	1884	Road Xing Start	0.00	0	T	0	0	01	34.192697	-118.352436
461	2318	Road Xing Start	0.00	0	T	0	0	01	34.192974	-118.353834
461	4496	Road Xing Start	0.00	0	T	0	0	01	34.194362	-118.360853
461	4578	Road Xing End	0.00	0	T	0	0	01	34.194414	-118.361117
460	5427	Down Milepost	460.00	0	T	0	0	01	34.194957	-118.363856
460	1905	Road Xing Start	0.00	0	T	0	0	01	34.196170	-118.369991
460	2034	Road Xing End	0.00	0	T	0	0	01	34.196253	-118.370407
460	4630	Road Xing Start	0.00	0	T	0	0	01	34.197907	-118.378772
460	4686	Road Xing End	0.00	0	T	0	0	01	34.197942	-118.378953
460	4823	Switch Pt	0.00	0	T	0	0	01	34.198029	-118.379394
459	5100	Down Milepost	459.00	0	T	0	0	01	34.198206	-118.380289
459	1552	Bridge End	0.00	0	T	0	0	01	34.199195	-118.385288
459	2239	Bridge End	0.00	0	T	0	0	01	34.199630	-118.387502
459	2822	Switch Pt	0.00	0	T	0	0	01	34.200003	-118.389380
459	4104	Bridge End	0.00	0	T	0	0	01	34.200819	-118.393511
459	4265	Bridge Start	0.00	0	T	0	0	01	34.200922	-118.394030
459	4860	Signal	0.00	0	T	0	0	01	34.201300	-118.395948
459	4951	Bridge End	0.00	0	T	0	0	01	34.201359	-118.396240
459	5067	Bridge Start	0.00	0	T	0	0	01	34.201433	-118.396614
458	5288	Down Milepost	458.00	0	T	0	0	01	34.201574	-118.397329
458	1938	Bridge End	0.00	0	T	0	0	01	34.202805	-118.403571
458	2497	Bridge Start	0.00	0	T	0	0	01	34.203161	-118.405372
458	3320	Road Xing Start	0.00	0	T	0	0	01	34.203686	-118.408024
458	3680	Road Xing Start	0.00	0	T	0	0	01	34.203915	-118.409184
458	3750	Road Xing End	0.00	0	T	0	0	01	34.203960	-118.409410
458	5030	Road Xing Start	0.00	0	T	0	0	01	34.204775	-118.413535
458	5115	Road Xing End	0.00	0	T	0	0	01	34.204829	-118.413808
457	5289	Down Milepost	457.00	0	T	0	0	01	34.204940	-118.414372
457	534	Switch Pt	0.00	0	T	0	0	01	34.205279	-118.416090
457	3721	Bridge End	0.00	0	T	0	0	01	34.207315	-118.426361
457	3820	Bridge Start	0.00	0	T	0	0	01	34.207378	-118.426680
457	3932	Signal	0.00	0	T	0	0	01	34.207449	-118.427041
457	4479	Switch Pt	0.00	0	-	0	0	01	34.207798	-118.428804
457	4564	Switch Pt	0.00	0	-	0	0	01	34.207851	-118.429078
457	5079	Switch Pt	0.00	0	-	0	0	01	34.208129	-118.430748

Exception List Section

Run Date: 03/17/2008

Milepost 140 to Milepost 427

Run ID: 2008031701

Los Angeles, CA to Las Posas, CA

MP	FT	Parameter	Value	Length	TSC	LC	PC	Track	Latitude	Longitude
457	5107	Track Change	2.00	0	-	0	0	02	34.208147	-118.430838
456	5414	Down Milepost	456.00	0	-	0	0	02	34.208344	-118.431836
456	254	Posted Speed	70.00	0	-	0	0	02	34.208495	-118.432656
456	3683	Switch Pt	0.00	0	T	0	0	02	34.210667	-118.443706
456	5108	Ped Xing	0.00	0	T	0	0	02	34.211592	-118.448294
455	5406	Down Milepost	455.00	0	-	0	0	02	34.211771	-118.449261
455	2720	Bridge End	0.00	0	T	0	0	02	34.213467	-118.458041
455	2774	Bridge Start	0.00	0	T	0	0	02	34.213501	-118.458215
455	3462	Road Xing Start	0.00	0	T	0	0	02	34.213938	-118.460430
455	3515	Road Xing End	0.00	0	T	0	0	02	34.213971	-118.460601
455	4046	Posted Speed	79.00	0	T	0	0	02	34.214311	-118.462309
455	5080	Bridge End	0.00	0	T	0	0	02	34.214971	-118.465641
454	5291	Down Milepost	454.00	0	T	0	0	02	34.215106	-118.466323
454	584	Switch Pt	0.00	0	T	0	0	02	34.215476	-118.468204
454	1195	Switch Pt	0.00	0	T	0	0	02	34.215848	-118.470178
454	4295	Signal	0.00	0	-	0	0	02	34.217836	-118.480173
454	4770	Switch Pt	0.00	0	-	0	0	02	34.218181	-118.481692
453	5059	Down Milepost	453.00	0	T	0	0	02	34.218369	-118.482627
453	214	Track Change	5.00	0	T	0	0	05	34.218505	-118.483313
453	1178	Posted Speed	7.00	0	T	0	0	05	34.219114	-118.486420
453	1419	Posted Speed	70.00	0	T	0	0	05	34.219267	-118.487197
453	3482	Road Xing Start	0.00	0	T	0	0	05	34.220579	-118.493844
453	3631	Road Xing End	0.00	0	T	0	0	05	34.220673	-118.494324
453	4612	Bridge End	0.00	0	T	0	0	05	34.221297	-118.497485
453	4940	Switch Pt	0.00	0	T	0	0	05	34.221504	-118.498542
453	5041	Bridge End	0.00	0	T	0	0	05	34.221569	-118.498868
452	5162	Down Milepost	452.00	0	T	0	0	05	34.221646	-118.499261
452	869	Signal	0.00	0	T	0	0	05	34.222199	-118.502059
452	953	Road Xing Start	0.00	0	T	0	0	05	34.222252	-118.502331
452	1085	Road Xing End	0.00	0	T	0	0	05	34.222336	-118.502756
452	3817	Hotbox Detect	0.00	0	T	0	0	05	34.224073	-118.511561
451	5428	Down Milepost	451.00	0	T	0	0	05	34.225097	-118.516756
451	272	Bridge End	0.00	0	T	0	0	05	34.225268	-118.517633
451	3167	Road Xing Start	0.00	0	T	0	0	05	34.227106	-118.526962
451	3336	Signal	0.00	0	T	0	0	05	34.227215	-118.527504
451	3506	Switch Pt	0.00	0	T	0	0	05	34.227323	-118.528052
450	5146	Down Milepost	450.00	0	T	0	0	05	34.228361	-118.533346
450	73	Switch Pt	0.00	0	T	0	0	05	34.228406	-118.533579
450	693	Bridge End	0.00	0	T	0	0	05	34.228800	-118.535580
450	870	Bridge Start	0.00	0	T	0	0	05	34.228912	-118.536151
450	3267	Switch Pt	0.00	0	T	0	0	05	34.230432	-118.543878
450	3942	Bridge End	0.00	0	T	0	0	05	34.230862	-118.546053
450	4033	Bridge Start	0.00	0	T	0	0	05	34.230919	-118.546346
450	4752	Bridge End	0.00	0	T	0	0	05	34.231375	-118.548663

Exception List Section

Run Date: 03/17/2008

Milepost 140 to Milepost 427

Run ID: 2008031701

Los Angeles, CA to Las Posas, CA

MP	FT	Parameter	Value	Length	TSC	LC	PC	Track	Latitude	Longitude
450	4900	Bridge Start	0.00	0	T	0	0	05	34.231469	-118.549141
449	5533	Down Milepost	449.00	0	T	0	0	05	34.231872	-118.551184
449	624	Road Xing Start	0.00	0	T	0	0	05	34.232267	-118.553193
449	758	Road Xing End	0.00	0	T	0	0	05	34.232352	-118.553625
449	1953	Bridge Start	0.00	0	T	0	0	05	34.233112	-118.557478
449	3347	Road Xing Start	0.00	0	T	0	0	05	34.234001	-118.561968
449	3466	Road Xing End	0.00	0	T	0	0	05	34.234077	-118.562352
448	4389	Down Milepost	448.00	0	T	0	0	05	34.234658	-118.565335
448	1676	Road Xing Start	0.00	0	T	0	0	05	34.235719	-118.570734
448	1806	Road Xing End	0.00	0	T	0	0	05	34.235802	-118.571153
448	2544	Switch Pt	0.00	0	T	0	0	05	34.236270	-118.573534
448	4385	Road Xing Start	0.00	0	T	0	0	05	34.237436	-118.579469
448	4506	Road Xing End	0.00	0	T	0	0	05	34.237513	-118.579859
448	5346	Switch Pt	0.00	0	T	0	0	05	34.238045	-118.582567
447	5723	Down Milepost	447.00	0	T	0	0	05	34.238286	-118.583786
447	1357	Road Xing Start	0.00	0	T	0	0	05	34.239145	-118.588159
447	1580	Switch Pt	0.00	0	-	0	0	05	34.239286	-118.588878
447	1674	Track Change	6.00	0	-	0	0	06	34.239340	-118.589179
447	1862	Class Change	3.00	0	-	0	0	06	34.239436	-118.589792
447	1862	Posted Speed	45.00	0	-	0	0	06	34.239436	-118.589792
447	2735	Concrete Ties Start	0.00	0	C	0	0	06	34.240231	-118.592516
447	3222	Bridge End	0.00	0	C	0	0	06	34.240903	-118.593911
447	3366	Bridge Start	0.00	0	C	0	0	06	34.241128	-118.594304
447	4967	Switch Pt	0.00	0	T	0	0	06	34.244373	-118.597829
446	5428	Down Milepost	446.00	0	C	0	0	06	34.245490	-118.598559
446	1504	Signal	0.00	0	C	0	0	06	34.249519	-118.599558
446	1575	Road Xing Start	0.00	0	C	0	0	06	34.249714	-118.599563
446	1687	Road Xing End	0.00	0	-	0	0	06	34.250023	-118.599566
446	2491	Ped Xing	0.00	0	T	0	0	06	34.252237	-118.599569
446	4209	Road Xing Start	0.00	0	-	0	0	06	34.256966	-118.599566
446	4325	Road Xing End	0.00	0	T	0	0	06	34.257285	-118.599565
445	6381	Down Milepost	445.00	0	T	0	0	06	34.262953	-118.599568
445	484	Road Xing Start	0.00	0	T	0	0	06	34.264283	-118.599571
445	573	Road Xing End	0.00	0	T	0	0	06	34.264528	-118.599572
445	1696	Signal	0.00	0	-	0	0	06	34.267619	-118.599579
445	2114	Switch Pt	0.00	0	-	0	0	06	34.268769	-118.599529
445	2134	Track Change	5.00	0	-	0	0	05	34.268824	-118.599528
445	2651	Posted Speed	40.00	0	-	0	0	05	34.270236	-118.599672
445	2936	Bridge End	0.00	0	-	0	0	05	34.270948	-118.600057
444	4127	Down Milepost	444.00	0	T	0	0	05	34.272141	-118.603500
444	22	Tunnel End	0.00	0	T	0	0	05	34.272140	-118.603571
444	525	Bridge Start	0.00	0	T	0	0	05	34.272073	-118.605236
444	1122	Lubricator	0.00	0	T	0	0	05	34.271993	-118.607211
444	3239	Concrete Ties End	0.00	0	-	0	0	05	34.269244	-118.612492

Exception List Section

Run Date: 03/17/2008

Milepost 140 to Milepost 427

Run ID: 2008031701

Los Angeles, CA to Las Posas, CA

MP	FT	Parameter	Value	Length	TSC	LC	PC	Track	Latitude	Longitude
444	4160	Concrete Ties Start	0.00	0	-	0	0	05	34.266774	-118.613162
444	4853	Tunnel End	0.00	0	C	0	0	05	34.265127	-118.614236
443	5196	Down Milepost	443.00	0	-	0	0	05	34.264635	-118.615203
443	558	Tunnel Start	0.00	0	T	0	0	05	34.264165	-118.616958
443	1409	Lubricator	0.00	0	T	0	0	05	34.263471	-118.619650
443	1951	Signal	0.00	0	-	0	0	05	34.263161	-118.621394
443	2086	Posted Speed	50.00	0	-	0	0	05	34.263183	-118.621841
443	2175	Tunnel End	0.00	0	-	0	0	05	34.263211	-118.622134
442	5349	Down Milepost	442.00	0	T	0	0	05	34.264344	-118.632561
442	4160	Tunnel Start	0.00	0	T	0	0	05	34.265825	-118.646220
442	4337	Concrete Ties Start	0.00	0	-	0	0	05	34.265888	-118.646801
441	5330	Down Milepost	441.00	0	-	0	0	05	34.265432	-118.649986
441	642	Signal	0.00	0	-	0	0	05	34.264267	-118.651559
441	692	Class Change	6.00	0	-	0	0	05	34.264159	-118.651662
441	692	Posted Speed	60.00	0	-	0	0	05	34.264159	-118.651662
441	728	Lmt Speed 3	49.00	1852	C		6	05	34.264082	-118.651736
441	755	Switch Pt	0.00	0	T	0	0	05	34.264023	-118.651791
441	1149	Class Change	3.00	0	-	0	0	05	34.263175	-118.652603
441	2801	Lmt Speed 3	57.00	1869	C		3	05	34.261266	-118.657325
441	3136	Lubricator	0.00	0	T	0	0	05	34.261179	-118.658440
441	3727	Bridge End	0.00	0	T	0	0	05	34.261030	-118.660393
441	5100	Class Change	4.00	0	-	0	0	05	34.261433	-118.664851
441	5100	Posted Speed	70.00	0	-	0	0	05	34.261433	-118.664851
440	5206	Down Milepost	440.00	0	-	0	0	05	34.261558	-118.665172
440	88	Lmt Speed 3	57.00	1539	C		4	05	34.261664	-118.665431
440	1361	Bridge End	0.00	0	T	0	0	05	34.263236	-118.669205
440	1702	Road Xing Start	0.00	0	T	0	0	05	34.263658	-118.670213
440	1800	Road Xing End	0.00	0	T	0	0	05	34.263781	-118.670505
440	3666	Signal	0.00	0	-	0	0	05	34.265491	-118.676279
440	3901	Lmt Speed 3	66.00	1542	C		4	05	34.265520	-118.677054
440	4226	Switch Pt	0.00	0	T	0	0	05	34.265547	-118.678130
439	5276	Down Milepost	439.00	0	T	0	0	05	34.265630	-118.681612
439	606	Bridge End	0.00	0	-	0	0	05	34.265677	-118.683618
439	2018	Bridge End	0.00	0	C	0	0	05	34.266388	-118.688197
439	3142	Bridge End	0.00	0	T	0	0	05	34.267898	-118.691440
439	3854	Road Xing Start	0.00	0	T	0	0	05	34.269036	-118.693363
438	4544	Down Milepost	438.00	0	T	0	0	05	34.270136	-118.695228
438	209	Class Change	3.00	0	T	0	0	05	34.270470	-118.695789
438	209	Posted Speed	60.00	0	T	0	0	05	34.270470	-118.695789
438	1871	Road Xing Start	0.00	0	-	0	0	05	34.271956	-118.700871
438	1878	Lmt Speed 3	57.00	1578	C		3	05	34.271957	-118.700894
438	2125	Road Xing End	0.00	0	T	0	0	05	34.271957	-118.701713
438	2217	Class Change	4.00	0	T	0	0	05	34.271955	-118.702017
438	2217	Posted Speed	79.00	0	T	0	0	05	34.271955	-118.702017

Exception List Section

Run Date: 03/17/2008

Milepost 140 to Milepost 427

Run ID: 2008031701

Los Angeles, CA to Las Posas, CA

MP	FT	Parameter	Value	Length	TSC	LC	PC	Track	Latitude	Longitude
438	4113	Switch Pt	0.00	0	T	0	0	05	34.271961	-118.708304
438	4219	Road Xing Start	0.00	0	T	0	0	05	34.271960	-118.708657
438	4313	Road Xing End	0.00	0	T	0	0	05	34.271959	-118.708967
437	5596	Down Milepost	437.00	0	T	0	0	05	34.271970	-118.713226
437	712	Bridge End	0.00	0	T	0	0	05	34.271962	-118.715581
437	1122	Road Xing Start	0.00	0	T	0	0	05	34.271964	-118.716941
437	1257	Road Xing End	0.00	0	T	0	0	05	34.271964	-118.717389
437	2770	Bridge End	0.00	0	T	0	0	05	34.271962	-118.722406
437	3372	Bridge End	0.00	0	T	0	0	05	34.271964	-118.724405
437	5123	Road Xing Start	0.00	0	T	0	0	05	34.271964	-118.730209
436	5637	Down Milepost	436.00	0	T	0	0	05	34.271965	-118.731918
436	2263	Bridge End	0.00	0	T	0	0	05	34.271963	-118.739422
436	2352	Bridge Start	0.00	0	T	0	0	05	34.271964	-118.739717
436	3394	Signal	0.00	0	T	0	0	05	34.271964	-118.743172
436	3478	Road Xing Start	0.00	0	T	0	0	05	34.271964	-118.743451
436	3580	Road Xing End	0.00	0	T	0	0	05	34.271963	-118.743790
436	3834	CBV Peak to Peak*	0.82	600	T	0	0	01	34.271964	-118.744645
435	4919	Down Milepost	435.00	0	T	0	0	05	34.271967	-118.748230
435	3340	Posted Speed	73.00	0	T	0	0	05	34.271959	-118.759303
435	3874	Road Xing Start	0.00	0	T	0	0	05	34.271958	-118.761074
435	3989	Road Xing End	0.00	0	-	0	0	05	34.271958	-118.761455
435	5100	Bridge End	0.00	0	-	0	0	05	34.272387	-118.765085
434	5491	Down Milepost	434.00	0	T	0	0	05	34.272705	-118.766328
434	2477	Bridge End	0.00	0	T	0	0	05	34.274734	-118.774164
434	3850	Road Xing Start	0.00	0	-	0	0	05	34.275858	-118.778509
434	3981	Road Xing End	0.00	0	-	0	0	05	34.275968	-118.778923
434	4820	Lmt Speed 3	72.00	1019	C		4	05	34.276934	-118.781442
433	5652	Down Milepost	433.00	0	T	0	0	05	34.278086	-118.783832
433	285	Signal	0.00	0	T	0	0	05	34.278479	-118.784646
433	343	Switch Pt	0.00	0	T	0	0	05	34.278559	-118.784812
433	3840	Posted Speed	70.00	0	T	0	0	05	34.280725	-118.795879
432	5079	Down Milepost	432.00	0	C	0	0	05	34.281257	-118.799913
432	1142	Lmt Speed 3	67.00	2160	C		4	05	34.283085	-118.802953
432	1252	Posted Speed	73.00	0	T	0	0	05	34.283301	-118.803208
432	4025	Signal	0.00	0	-	0	0	05	34.286825	-118.811051
432	4075	Lmt Speed 3	70.00	2440	C		4	05	34.286834	-118.811217
432	4518	Switch Pt	0.00	0	T	0	0	05	34.286917	-118.812679
432	4773	Bridge End	0.00	0	T	0	0	05	34.286962	-118.813525
431	5229	Down Milepost	431.00	0	T	0	0	05	34.287050	-118.815038
431	820	Road Xing Start	0.00	0	T	0	0	05	34.287203	-118.817751
430	5438	Down Milepost	430.00	0	-	0	0	05	34.290233	-118.832421
430	768	Posted Speed	53.00	0	T	0	0	05	34.291504	-118.834451
430	931	Concrete Ties Start	0.00	0	-	0	0	05	34.291775	-118.834883
430	2307	Road Xing Start	0.00	0	-	0	0	05	34.292808	-118.839118

Exception Report
Exception List Section
Milepost 140 to Milepost 427
Los Angeles, CA to Las Posas, CA

Page 9 of 9
Run Date: 03/17/2008
Run ID: 2008031701

MP	FT	Parameter	Value	Length	TSC	LC	PC	Track	Latitude	Longitude
430	2370	Road Xing End	0.00	0	-	0	0	05	34.292773	-118.839322
430	2807	Posted Speed	70.00	0	-	0	0	05	34.292393	-118.840696
430	2811	Lmt Speed 3	52.00	1973	C		4	05	34.292389	-118.840708
430	3139	Concrete Ties End	0.00	0	T	0	0	05	34.292059	-118.841721
430	3591	Bridge End	0.00	0	T	0	0	05	34.291603	-118.843116
430	3804	Bridge Start	0.00	0	T	0	0	05	34.291387	-118.843772
429	5262	Down Milepost	429.00	0	T	0	0	05	34.289913	-118.848274
429	1613	Bridge End	0.00	0	T	0	0	05	34.288283	-118.853246
429	1839	Bridge Start	0.00	0	T	0	0	05	34.288054	-118.853945
429	2901	Bridge End	0.00	0	C	0	0	05	34.286997	-118.857228
429	3150	Road Xing Start	0.00	0	C	0	0	05	34.286788	-118.858014
429	4178	Bridge End	0.00	0	T	0	0	05	34.286058	-118.861308
429	4421	Bridge Start	0.00	0	T	0	0	05	34.285887	-118.862087
428	4877	Down Milepost	428.00	0	T	0	0	05	34.285567	-118.863549
428	222	Bridge End	0.00	0	T	0	0	05	34.285411	-118.864261
428	1663	Bridge End	0.00	0	T	0	0	05	34.284898	-118.868982
428	1902	Bridge Start	0.00	0	T	0	0	05	34.284900	-118.869777
428	2925	Signal	0.00	0	T	0	0	05	34.284898	-118.873164
428	2998	Switch Pt	0.00	0	T	0	0	05	34.284898	-118.873406
428	3290	Road Xing Start	0.00	0	T	0	0	05	34.284898	-118.874374
428	3394	Road Xing End	0.00	0	T	0	0	05	34.284898	-118.874719
428	4214	Ped Xing	0.00	0	T	0	0	05	34.284898	-118.877436
428	4411	Ped Xing	0.00	0	T	0	0	05	34.284898	-118.878092
428	5541	Road Xing Start	0.00	0	T	0	0	05	34.284897	-118.881840
427	5648	Down Milepost	427.00	0	T	0	0	05	34.284897	-118.882198
427	2140	End of Survey	0.00	0	-	0	0	05		

Notes:

* Federal Track Safety Standard Advisory
Cant Exceptions are in degrees
The following fields are irrelevant for Cant Exceptions: LC, PC

Exception Report
Curve Analysis Section
Milepost 140 to Milepost 427

Page 1 of 3
Run Date: 03/17/2008
Run ID: 2008031701

Los Angeles, CA to Las Posas, CA

Elevation plus(+) = L Rail High, minus(-) = R Rail High Curvature plus(+) = Curve to Right, minus(-) = Curve to Left

Starting		Ending		Length	Average		Speed		Limiting Point				Total		Limiting Speed at					
MP	FT	MP	FT		Deg/Mi	Inches	Post	Lmt	MP	FT	Deg/Mi	Inches	FT	Grp	4.0	5.0	6.0	7.0	8.0	9.0
0	796	0	948	153	0/45	-0.02	10 74	0	908	0/45	-0.02	0	0	87	97	106	115	123	130	
0	948	0	1099	152	-0/37	-0.06	10 83	0	1049	-0/37	-0.06	0	0	97	108	118	128	136	144	
0	1099	0	1214	116	0/16	0.12	10 125	0	1187	0/16	0.12	0	0	145	162	177	191	204	216	
0	1214	0	1396	183	-0/27	0.07	10 96	0	1306	-0/27	0.07	0	0	114	127	139	150	160	170	
0	1604	0	1860	178	3/29	-0.15	10 34	0	1716	3/29	-0.15	0	0	41	46	50	54	58	61	
0	1932	0	1994	63	0/7	0.35	20 190	0	1980	0/7	0.35	0	0	219	243	264	284	303	321	
0	1994	0	2229	236	-3/26	-0.02	20 35	0	2112	-3/26	-0.02	0	0	41	46	50	54	58	61	
0	2530	0	2899	370	-2/0	-0.59	20 50	0	2751	-2/0	-0.59	0	0	57	63	69	74	78	83	
0	2899	0	3292	394	1/41	0.17	20 51	0	3137	1/41	0.17	0	0	59	66	72	78	83	88	
0	5747	0	6369	623	6/0	0.6	20 29	0	6109	6/4	0.58	0	0	33	36	39	42	45	47	
0	6437	0	6721	285	2/5	0.31	20 47	0	6561	2/5	0.31	0	0	54	60	66	71	75	80	
0	7197	0	7626	430	-2/29	0.41	20 38	0	7360	-2/29	0.41	0	0	50	56	61	65	69	73	
0	7626	0	7734	109	-0/22	0.07	20 91	0	7626	-0/31	-0.04	0	0	105	118	129	139	149	158	
0	7734	0	8291	558	7/12	0.6	20 26	0	7992	7/12	0.6	0	0	30	33	36	39	41	44	
0	8717	0	9105	389	-5/2	0.11	20 28	0	9104	-5/2	0.11	0	0	34	38	42	45	48	51	
0	9105	0	9600	496	-8/14	0.13	20 22	0	9346	-8/14	0.13	0	0	27	30	33	35	38	40	
0	9600	0	9779	180	0/45	0.28	20 78	0	9709	0/45	0.28	0	0	90	100	109	118	126	133	
0	9779	0	10044	266	-2/0	-0.09	20 46	0	9929	-2/0	-0.09	0	0	54	60	66	71	76	80	
0	10204	0	10424	221	1/59	-0.23	20 44	0	10343	1/59	-0.23	0	0	55	61	67	72	77	81	
0	10424	0	10752	329	-3/17	0.06	20 35	0	10640	-3/17	0.06	0	0	42	47	51	55	59	63	
0	10752	0	11053	302	2/0	0.25	20 47	0	10877	2/0	0.25	0	0	55	61	67	72	77	81	
0	11082	140	48	282	8/2	-0.13	20 22	0	11254	8/2	-0.13	0	0	27	30	33	36	38	40	
140	48	140	221	174	5/2	-0.11	20 25	140	48	6/1	-0.24	0	0	32	35	38	41	44	47	
140	459	140	678	220	1/56	0.11	20 47	140	594	1/56	0.11	0	0	55	61	67	72	77	82	
140	678	140	927	250	-2/7	-0.55	20 48	140	804	-2/7	-0.55	0	0	55	61	66	71	76	80	
140	2288	140	3006	719	-6/0	-1.31	30 31	140	2706	-6/4	-1.28	0	0	35	38	41	44	47	49	
140	3276	140	3579	304	-0/40	-0.44	50 84	140	3467	-0/40	-0.44	0	0	97	107	116	125	133	141	
140	3579	140	3999	421	2/31	2.54	50 55	140	3786	2/31	2.54	0	0	61	65	69	73	77	81	
140	4070	140	4449	380	-1/34	-0.4	50 55	140	4261	-1/33	-0.31	0	0	63	70	76	82	88	93	
140	5185	140	5622	438	-1/11	-0.42	50 61	140	5399	-1/11	-0.23	0	0	71	79	86	93	99	105	
140	6000	2	199	834	2/38	2.92	50 56	140	6497	2/40	2.91	0	0	61	65	69	73	76	80	
2	878	2	1379	502	2/38	2.94	50 56	2	1246	2/42	2.98	0	0	61	65	69	73	76	80	
2	1379	2	1428	50	1/38	0.84	50 55	2	1379	1/58	1.28	0	0	62	67	73	77	82	86	
2	1428	2	1614	187	2/8	-0.56	50 40	2	1523	2/8	-0.56	34	1	55	61	66	71	75	80	
2	1614	2	1846	233	-2/35	0.13	50 39	2	1768	-2/35	0.13	41	1	48	53	58	63	67	71	
2	1846	2	2206	361	-2/16	-1.67	50 45	2	1846	-2/28	-0.56	46	1	51	57	61	66	70	74	
2	2206	2	4292	2087	-2/1	-1.96	50 56	2	2518	-2/10	-1.95	0	0	62	67	72	77	81	85	
2	4569	2	5049	481	-2/51	-1.66	50 48	2	4930	-2/51	-1.66	64	1	53	58	62	66	69	73	
2	5049	2	5117	69	-2/9	-2.07	50 55	2	5050	-2/19	-1.96	0	0	61	65	70	74	78	82	
2	5117	2	5445	329	-2/40	-2.09	50 52	2	5342	-2/40	-2.1	0	0	57	62	66	70	73	77	
2	5445	2	5478	34	-1/33	-2.01	50 62	2	5445	-1/49	-2.06	0	0	69	74	79	84	89	93	
2	5478	3	291	634	-2/27	-2.18	50 54	2	5779	-2/30	-2.16	0	0	59	64	68	72	76	80	
3	291	3	589	299	1/33	-0.12	50 51	3	487	1/33	-0.12	0	0	62	69	75	81	87	92	
3	677	3	2048	1372	2/30	2.23	50 51	3	1467	2/37	1.9	0	0	57	61	65	70	73	77	
3	3033	3	3994	962	2/31	3.21	60 58	3	3507	2/34	3.17	316	1	63	67	71	75	79	82	
3	4908	3	5965	1058	-2/27	-3.12	60 59	3	5552	-2/26	-3	303	1	64	68	73	77	80	84	

Exception Report
Curve Analysis Section
Milepost 140 to Milepost 427

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Run Date: 03/17/2008
Run ID: 2008031701

Los Angeles, CA to Las Posas, CA

Elevation plus(+) = L Rail High, minus(-) = R Rail High Curvature plus(+) = Curve to Right, minus(-) = Curve to Left

Starting		Ending		Length	Average		Speed		Limiting Point		Total		Limiting Speed at							
MP	FT	MP	FT		Deg/Mi	Inches	Post	Lmt	MP	FT	Deg/Mi	Inches	FT	Grp	4.0	5.0	6.0	7.0	8.0	9.0
3	6852	3	7675	824	2/22	3.1	60	59	3	7042	2/6	2.3	2	1	65	70	75	80	84	88
3	7945	3	9067	1123	-2/32	-3.26	60	58	3	8343	-2/35	-3.15	618	2	63	67	71	75	78	82
454	7168	6	1282	4195	0/28	1.38	79	100	454	9207	0/34	1.09	0	0	113	124	133	142	151	159
7	5112	7	8936	3825	-0/39	-1.31	79	80	7	5305	-0/43	-0.3	0	0	92	103	112	120	128	136
7	8936	7	10275	1340	-0/35	-1.21	79	79	7	9093	-0/54	-0.96	0	0	89	97	105	112	119	126
9	4097	9	4176	80	-0/20	0.08	79	109	9	4098	-0/19	0.2	0	0	135	150	164	177	188	200
10	1339	10	1649	311	0/18	0.41	79	114	10	1411	0/22	0.38	0	0	130	144	157	169	180	190
10	1910	10	2339	430	0/17	0.58	79	120	10	2115	0/21	0.56	0	0	136	151	164	176	187	198
10	2641	11	263	2900	0/19	2.25	79	114	10	2988	0/34	2.31	0	0	126	135	144	153	161	168
11	1306	11	1584	279	-1/33	-0.05	79	52	11	1486	-1/33	-0.05	60	1	61	68	74	80	86	91
11	1584	11	1867	284	1/31	-0.01	79	52	11	1775	1/31	-0.01	62	1	61	69	75	81	87	92
11	2056	11	2432	377	-0/35	-0.24	79	77	11	2301	-0/43	0	130	1	89	100	109	118	126	134
11	2432	11	3325	894	-6/7	-3.19	79	37	11	2683	-5/44	-2.75	127	1	41	44	47	49	52	54
461	349	461	664	316	1/30	0.01	70	53	461	526	1/30	0.01	69	1	62	69	75	81	87	92
461	664	461	950	287	-1/33	0.29	70	49	461	854	-1/33	0.29	66	1	63	70	76	82	87	93
457	4475	457	4771	297	-1/28	-0.08	79	54	457	4668	-1/28	-0.08	62	1	63	70	77	83	89	94
457	4856	457	5147	292	1/26	-0.21	79	52	457	5028	1/26	-0.21	67	1	64	72	78	84	90	95
457	5354	456	385	446	-0/24	-0.88	79	113	456	201	-0/25	-0.92	0	0	128	140	152	162	172	182
456	568	456	931	364	0/24	1	70	112	456	809	0/28	1.17	0	0	125	137	148	158	167	176
456	3263	456	3573	311	0/25	0.72	70	105	456	3449	0/29	0.79	0	0	118	130	141	151	160	169
456	3802	456	4134	333	-0/25	-0.82	70	109	456	4070	-0/27	-0.95	0	0	124	136	147	157	167	176
456	5133	455	33	307	-0/39	-0.84	70	90	456	5321	-0/39	-0.77	0	0	102	113	122	131	139	147
455	318	455	621	304	0/24	0.93	70	110	455	488	0/27	1.02	0	0	125	137	148	158	167	176
454	785	454	1146	362	-0/22	-0.56	79	111	454	1067	-0/25	-0.71	0	0	127	139	151	162	172	182
454	1475	454	1865	391	0/23	0.58	79	106	454	1734	0/27	0.67	0	0	120	133	144	154	164	173
454	2320	454	2686	367	0/24	0.48	79	103	454	2565	0/28	0.54	0	0	117	130	141	151	161	170
454	3023	454	3358	336	-0/25	-0.64	79	104	454	3288	-0/28	-0.65	0	0	119	131	142	153	162	171
454	4290	454	4547	258	1/14	1	79	67	454	4462	1/14	1	41	1	76	83	90	96	102	107
454	4547	5	61	313	-1/30	-0	79	53	454	4739	-1/30	-0	63	1	62	69	76	82	87	93
447	1445	447	1723	279	-1/31	-0.08	70	53	447	1647	-1/31	-0.08	59	1	62	69	76	82	87	92
447	1723	447	1831	109	0/22	0.12	70	108	447	1830	0/22	0.12	0	0	126	141	154	166	177	188
447	1831	447	2456	626	2/40	1.7	70	49	447	2113	2/43	1.68	178	1	54	59	63	67	71	75
447	2456	447	4035	1580	1/24	1.61	45	65	447	3783	1/31	1.57	0	0	72	78	84	89	95	99
447	4035	447	4276	242	1/7	1.62	45	75	447	4035	1/10	1.66	0	0	83	90	96	102	108	114
447	4276	447	4864	589	2/21	1.76	45	53	447	4673	2/22	1.75	0	0	59	64	68	73	77	80
447	5074	446	313	668	2/34	1.79	45	51	446	74	2/37	1.81	0	0	56	61	65	69	73	77
446	313	446	790	478	1/11	1.43	45	67	446	313	1/24	1.44	0	0	74	81	87	92	98	103
446	790	446	1493	704	1/26	1.55	45	66	446	1157	1/28	1.56	0	0	74	80	86	91	96	101
446	1493	446	1718	226	0/38	0.56	45	78	446	1493	0/49	0.62	0	0	89	98	107	114	122	129
446	3941	446	4108	168	0/22	0.06	45	105	446	4033	0/24	0.11	0	0	121	135	148	159	170	180
446	4108	446	4284	177	-0/33	0.06	45	87	446	4236	-0/33	0.06	0	0	103	115	125	135	145	153
445	1633	445	1885	253	1/21	0.6	45	61	445	1790	1/21	0.6	0	0	70	77	84	90	95	101
445	1885	445	2156	272	-1/37	0.06	45	50	445	2081	-1/37	0.06	0	0	60	67	73	79	84	89
445	2156	445	2203	48	-0/39	0.12	45	63	445	2156	-1/0	0.19	0	0	77	86	94	101	108	114
445	2203	445	4127	1925	-5/57	-4.36	45	41	445	3424	-6/0	-4.3	1125	1	44	47	50	52	54	56
444	1533	444	3288	1756	-5/59	-4.5	40	41	444	2354	-6/1	-4.33	0	0	44	47	50	52	54	56

Exception Report
 Curve Analysis Section
 Milepost 140 to Milepost 427

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 Run Date: 03/17/2008
 Run ID: 2008031701

Los Angeles, CA to Las Posas, CA

Elevation plus(+) = L Rail High, minus(-) = R Rail High Curvature plus(+) = Curve to Right, minus(-) = Curve to Left

Starting		Ending		Length	Average		Speed		Limiting Point				Total		Limiting Speed at					
MP	FT	MP	FT		Deg/Mi	Inches	Post	Lmt	MP	FT	Deg/Mi	Inches	FT	Grp	4.0	5.0	6.0	7.0	8.0	9.0
444	4026	443	239	1410	5/55	4.58	40	41	444	5027	6/1	4.33	0	0	44	47	49	52	54	56
443	1428	443	2208	781	5/28	4.76	40	44	443	1867	5/28	4.76	0	0	48	50	53	55	58	60
442	4207	441	728	1852	-3/57	-3.95	50	49	441	204	-4/0	-3.87	650	1	53	56	59	62	65	68
441	933	441	2801	1869	2/58	4.27	60	57	441	1845	3/0	4.05	886	2	62	66	69	72	76	79
441	3756	440	88	1539	2/57	4.26	60	57	441	4752	3/0	3.98	480	2	62	65	69	72	75	78
440	2360	440	3901	1542	-1/58	-3.39	70	66	440	3538	-1/58	-3.2	864	1	72	77	82	86	90	94
439	593	439	3048	2456	1/28	2.64	70	71	439	1479	1/29	2.43	0	0	79	84	90	95	100	105
438	301	438	1878	1578	-2/58	-4.05	60	57	438	1377	-3/1	-3.92	661	1	61	65	68	72	75	78
435	3964	435	5191	1228	1/56	4.63	73	73	435	4739	2/0	4.55	0	0	78	82	87	91	94	98
434	3802	434	4820	1019	1/56	4.28	73	72	434	4432	1/58	4.3	52	1	78	82	86	91	94	98
433	802	433	2600	1799	-1/58	-5.26	73	74	433	1615	-2/4	-5.13	0	0	79	83	87	91	95	99
433	4062	432	1142	2160	2/28	5.09	70	67	433	5032	2/30	4.9	1216	1	71	75	79	82	86	89
432	1636	432	4075	2440	-1/58	-4.11	73	70	432	3534	-1/58	-3.81	1443	4	75	80	84	88	92	96
431	2315	431	2691	377	1/41	3.93	73	76	431	2622	1/38	3.69	0	0	82	87	92	97	101	105
431	2691	431	3521	831	1/49	4.08	73	73	431	3106	1/50	3.92	0	0	78	83	88	92	96	100
431	4453	430	265	1251	1/55	5.02	73	76	431	5256	1/57	5	0	0	81	85	90	94	97	101
430	839	430	2811	1973	-3/58	-4.97	53	52	430	1865	-4/2	-4.85	239	1	56	59	62	65	67	70
429	2554	429	3378	825	0/58	1.09	70	76	429	3058	0/59	1.06	0	0	85	93	101	108	114	120
428	417	428	1494	1078	1/57	4.34	70	72	428	1043	1/58	4.33	0	0	78	82	86	90	94	98

Exception Report

Exception Summary Section

Milepost 140 to Milepost 427

Los Angeles, CA to Las Posas, CA

MP	FT	Wide Gage			Tight Gage		Alignment			Crosslevel			Rockoff			Profile			Run Off			Warp			Twist-31			Lmt Spd	Trk		
		Tot	Exc	2 Cl	Tot	Exc	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot		Lim	Pst
		EXC	FT	Drop	EXC	FT	EXC	FT	Drop	EXC	FT	Drop	EXC	FT	Drop	EXC	FT	Drop	EXC	FT	Drop	EXC	FT	Drop	EXC	FT	Drop	EXC		Cls	Cls
0	108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	07		
0	1774	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	07		
0	10062	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	04		
0	10633	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	03		
140	11345	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	03		
140	1123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	03		
2	6634	-	-	-	-	-	1	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	3	03		
2	1873	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	3	01	
2	5567	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	03		
3	5902	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	03		
3	533	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	0	3	01		
5	9981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	01		
5	321	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	01		
6	5282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	01		
7	5245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	01		
9	10544	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	01		
10	5288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	01		
11	5277	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	01		
11	1821	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0	4	02		
462	5129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	02		
461	5407	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	02		
461	894	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	01		
460	5427	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	01		
459	5100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	01		
458	5288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	01		
457	5289	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	01		
457	5107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	02		
456	5414	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	02		

Exception Report

Exception Summary Section

Milepost 140 to Milepost 427

Los Angeles, CA to Las Posas, CA

Run Date: 03/17/2008

Run ID: 2008031701

MP	FT	Wide Gage			Tight Gage		Alignment			Crosslevel			Rockoff			Profile			Run Off			Warp			Twist-31			Lmt Spd	Lim	Pst	Trk
		Tot	Exc	2 Cl	Tot	Exc	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Exc			
455	5406	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	02	
454	5291	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	02	
453	5059	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	02	
453	214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05	
452	5162	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05	
451	5428	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05	
450	5146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05	
449	5533	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05	
448	4389	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05	
447	5723	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05	
447	1674	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	06	
447	1862	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	06	
446	5428	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	06	
445	6381	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	06	
445	2134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	05	
444	4127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	05	
443	5196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	05	
442	5349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	6	05	
441	5330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	05	
441	692	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	6	05		
441	1149	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	4	05	
441	5100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05	
440	5206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	4	05	
439	5276	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05	
438	4544	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05	
438	209	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	3	05	
438	2217	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05	
437	5596	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05	

Exception Report
 Exception Summary Section
 Milepost 140 to Milepost 427
 Los Angeles, CA to Las Posas, CA

MP	FT	Wide Gage			Tight Gage		Alignment			Crosslevel			Rockoff			Profile			Run Off			Warp			Twist-31			Lmt Spd	Lim	Pst	Trk					
		Tot	Exc	2 Cl	Tot	Exc	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot	Exc	2 Cl	Tot								
		EXC	FT	Drop	EXC	FT	EXC	FT	Drop	EXC	FT	Drop	EXC	FT	Drop	EXC	FT	Drop	EXC	FT	Drop	EXC	FT	Drop	EXC	FT	Drop	EXC	FT	Drop	EXC	Cls	Cls			
436	5637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05					
435	4919	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05					
434	5491	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	4	05						
433	5652	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	4	05						
432	5079	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	4	05						
431	5229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05						
430	5438	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	4	05						
429	5262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05						
428	4877	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05						
427	5648	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	05						
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Total Miles: 48.70
Exceptions per 100 Miles: 36.96
FY07 National Average Exceptions per 100 Miles: 31.7