

DOTX 219 Geometry Car
United States Department of Transportation
AUTOMATED TRACK INSPECTION PROGRAM

TRACK GEOMETRY INSPECTION REPORT

Fort Worth, TX to Waxahachie, TX
Railroad: UNION PACIFIC RAILROAD (UP)
Survey Number: 1227
Mile Post 246 to Mile Post 13



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



Testing Cert. 2411.01

Approved By:

Survey Director:

MARTIN BROCK

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 246 to Milepost 13
Fort Worth, TX to Waxahachie, TX

Page 1 of 3
Run Date: 04/10/2012
Run ID: 2012041001

MP	FT	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
246	144	Down Milepost	DMP	0	5	T	0	0	7	32.745296	-97.329900
246	1	Class Change	1.00	0	5	T	0	0	7	32.745296	-97.329900
246	1	Posted Speed	10.00	0	5	T	0	0	7	32.745296	-97.329900
246	1	Track Change	0.00	0	5	T	0	0	7	32.745296	-97.329900
246	1	State Line	SL	0	5	T	0	0	7	32.745296	-97.329900
246	2	Railroad	RR	0	5	T	0	0	7	32.745296	-97.329897
246	3	Subdivision	SUBDIV	0	5	T	0	0	7	32.745296	-97.329893
246	2033	Track Change	0.00	0	11	B	0	0	1	32.745138	-97.323310
246	2213	Class Change	3.00	0	13	B	0	0	1	32.745164	-97.322733
246	2213	Posted Speed	30.00	0	13	B	0	0	1	32.745164	-97.322733
246	2613	Warp 62	2.26	53	13	T	1	3	1	32.745025	-97.321450
246	3990	Posted Speed	40.00	0	8	T	0	0	1	32.744133	-97.317105
246	4349	Class Change	2.00	0	7	C	0	0	1	32.747970	-97.321162
246	4349	Posted Speed	20.00	0	7	C	0	0	1	32.747970	-97.321162
246	4349	Track Change	0.00	0	7	C	0	0	2	32.747970	-97.321162
246	4350	Subdivision	SUBDIV	0	7	C	0	0	2	32.747969	-97.321159
246	5515	Class Change	1.00	0	6	C	0	0	2	32.744755	-97.321354
246	5515	Posted Speed	10.00	0	6	C	0	0	2	32.744755	-97.321354
246	5757	Track Change	0.00	0	4	C	0	0	1	32.744065	-97.321435
246	6683	Class Change	3.00	0	9	T	0	0	1	32.741562	-97.321620
246	6683	Posted Speed	30.00	0	9	T	0	0	1	32.741562	-97.321620
250	10320	Down Milepost	250.00	0	14	T	0	0	1	32.731592	-97.322180
250	7351	Subdivision	SUBDIV	0	28	E	0	0	1	32.711923	-97.326655
250	7777	Track Change	0.00	0	29	E	0	0	5	32.710762	-97.326727
50	8583	Down Milepost	50.00	0	30	C	0	0	5	32.708644	-97.325989
49	5372	Down Milepost	49.00	0	16	C	0	0	5	32.699943	-97.312627
49	5015	R Cant NEG*	-2.30	15	26	C	0	3	5	32.690051	-97.304313
48	5209	Down Milepost	48.00	0	26	E	0	0	5	32.689621	-97.303943
48	2633	Posted Speed	40.00	0	26	T	0	0	5	32.686866	-97.296190
47	5293	Down Milepost	47.00	0	20	T	0	0	5	32.684429	-97.288061
46	5453	Down Milepost	46.00	0	17	T	0	0	5	32.678172	-97.272060
45	5125	Down Milepost	45.00	0	22	T	0	0	5	32.671464	-97.257465
44	5299	Down Milepost	44.00	0	24	E	0	0	5	32.662774	-97.244670
44	2447	Posted Speed	35.00	0	30	B	0	0	5	32.656392	-97.242749
44	3197	R Prof 62	-2.41	4	26	C	2	3	5	32.654788	-97.241252
44	4210	Posted Speed	40.00	0	23	T	0	0	5	32.653461	-97.238374
43	5279	Down Milepost	43.00	0	21	B	0	0	5	32.652268	-97.235214
42	5301	Down Milepost	42.00	0	23	E	0	0	5	32.642411	-97.223638
41	5288	Down Milepost	41.00	0	33	T	0	0	5	32.634216	-97.211472
40	5308	Down Milepost	40.00	0	21	T	0	0	5	32.623130	-97.200821
39	5289	Down Milepost	39.00	0	26	T	0	0	5	32.613087	-97.188482
39	2652	Class Change	4.00	0	27	T	0	0	5	32.606703	-97.185715
39	2652	Posted Speed	49.00	0	27	T	0	0	5	32.606703	-97.185715
38	5296	Down Milepost	38.00	0	29	T	0	0	5	32.599489	-97.186510

Exception List Section

Run Date: 04/10/2012

Milepost 246 to Milepost 13

Run ID: 2012041001

Fort Worth, TX to Waxahachie, TX

MP	FT	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
38	4617	Lmt Speed 3	48.00	75	27	C	0	4	5	32.587030	-97.184674
37	5290	Down Milepost	37.00	0	26	E	0	0	5	32.585545	-97.183386
36	5286	Down Milepost	36.00	0	23	B	0	0	5	32.575152	-97.171452
35	5285	Down Milepost	35.00	0	20	T	0	0	5	32.570401	-97.155453
35	2932	Class Change	2.00	0	19	T	0	0	5	32.568181	-97.146344
35	2932	Posted Speed	25.00	0	19	T	0	0	5	32.568181	-97.146344
35	4435	Class Change	4.00	0	18	T	0	0	5	32.567442	-97.141572
35	4435	Posted Speed	49.00	0	18	T	0	0	5	32.567442	-97.141572
34	5280	Down Milepost	34.00	0	21	T	0	0	5	32.567167	-97.138856
33	5288	Down Milepost	33.00	0	23	T	0	0	5	32.562978	-97.122495
33	221	R Runoff*	1.69	31	23	T	3	4	5	32.562812	-97.121812
33	2584	Posted Speed	60.00	0	11	T	0	0	5	32.561031	-97.114473
32	4847	Down Milepost	32.00	0	20	T	0	0	5	32.559322	-97.107415
31	5740	Down Milepost	31.00	0	26	T	0	0	5	32.554985	-97.089557
30	5235	Down Milepost	30.00	0	26	T	0	0	5	32.551032	-97.073265
29	5715	Down Milepost	29.00	0	33	B	0	0	5	32.546446	-97.055586
29	2564	Class Change	2.00	0	23	B	0	0	5	32.545480	-97.047412
29	2564	Posted Speed	25.00	0	23	B	0	0	5	32.545480	-97.047412
29	3038	Class Change	4.00	0	22	C	0	0	5	32.545373	-97.045884
29	3038	Posted Speed	60.00	0	22	C	0	0	5	32.545373	-97.045884
28	4908	Down Milepost	28.00	0	28	C	0	0	5	32.543968	-97.040084
28	2492	Class Change	3.00	0	31	T	0	0	5	32.540271	-97.033312
28	2492	Posted Speed	40.00	0	31	T	0	0	5	32.540271	-97.033312
28	5273	Class Change	4.00	0	28	T	0	0	5	32.536033	-97.025831
28	5273	Posted Speed	60.00	0	28	T	0	0	5	32.536033	-97.025831
27	5294	Down Milepost	27.00	0	28	T	0	0	5	32.536000	-97.025772
27	1583	Class Change	3.00	0	27	T	0	0	5	32.533594	-97.021514
27	1583	Posted Speed	30.00	0	27	T	0	0	5	32.533594	-97.021514
27	4263	Posted Speed	40.00	0	29	T	0	0	5	32.527627	-97.017194
27	4718	Warp 62	2.17	62	28	B	2	3	5	32.526634	-97.016303
26	5319	Down Milepost	26.00	0	29	C	0	0	5	32.525159	-97.015436
25	5272	Down Milepost	25.00	0	36	T	0	0	5	32.511858	-97.008965
24	5110	Down Milepost	24.00	0	29	T	0	0	5	32.498946	-97.002680
23	5519	Down Milepost	23.00	0	24	T	0	0	5	32.487853	-96.991377
23	1894	Class Change	2.00	0	25	T	0	0	5	32.485186	-96.986119
23	1894	Posted Speed	25.00	0	25	T	0	0	5	32.485186	-96.986119
23	2637	Class Change	3.00	0	22	T	0	0	5	32.484146	-96.984053
23	2637	Posted Speed	40.00	0	22	T	0	0	5	32.484146	-96.984053
23	9317	Class Change	2.00	0	20	T	0	0	5	32.472349	-96.968457
23	9317	Posted Speed	25.00	0	20	T	0	0	5	32.472349	-96.968457
21	10469	Down Milepost	21.00	0	19	E	0	0	5	32.470028	-96.966100
21	113	Class Change	3.00	0	19	C	0	0	5	32.469936	-96.965759
21	113	Posted Speed	35.00	0	19	C	0	0	5	32.469936	-96.965759
21	1369	Class Change	2.00	0	20	B	0	0	5	32.469430	-96.961737

Exception Report
Exception List Section
Milepost 246 to Milepost 13
Fort Worth, TX to Waxahachie, TX

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Run Date: 04/10/2012
Run ID: 2012041001

MP	FT	Parameter	Value	Length	Speed	TSC	LC	PC	Track	Latitude	Longitude
21	1369	Posted Speed	25.00	0	20	B	0	0	5	32.469430	-96.961737
21	2055	Class Change	3.00	0	19	C	0	0	5	32.468798	-96.959677
21	2055	Posted Speed	35.00	0	19	C	0	0	5	32.468798	-96.959677
21	2689	Class Change	4.00	0	26	T	0	0	5	32.467440	-96.958410
21	2689	Posted Speed	45.00	0	26	T	0	0	5	32.467440	-96.958410
20	5313	Down Milepost	20.00	0	28	T	0	0	5	32.461522	-96.953595
19	5286	Down Milepost	19.00	0	29	T	0	0	5	32.454548	-96.939099
18	3960	Down Milepost	18.00	0	27	T	0	0	5	32.446905	-96.930386
17	6588	Down Milepost	17.00	0	28	T	0	0	5	32.435281	-96.914926
17	789	Class Change	3.00	0	31	T	0	0	5	32.433502	-96.913477
17	789	Posted Speed	40.00	0	31	T	0	0	5	32.433502	-96.913477
17	2632	Class Change	4.00	0	38	C	0	0	5	32.430046	-96.909229
17	2632	Posted Speed	45.00	0	38	C	0	0	5	32.430046	-96.909229
17	3940	Class Change	3.00	0	38	T	0	0	5	32.428315	-96.905523
17	3940	Posted Speed	40.00	0	38	T	0	0	5	32.428315	-96.905523
17	5186	Gage Wide	57.91	4	38	C	1	3	5	32.426172	-96.902475
15	10556	Down Milepost	15.00	0	33	T	0	0	5	32.415049	-96.891397
15	3960	Class Change	2.00	0	24	T	0	0	5	32.410182	-96.881455
15	3960	Posted Speed	25.00	0	24	T	0	0	5	32.410182	-96.881455
15	4407	Class Change	3.00	0	25	B	0	0	5	32.410361	-96.880026
15	4407	Posted Speed	40.00	0	25	B	0	0	5	32.410361	-96.880026
14	5327	Down Milepost	14.00	0	26	C	0	0	5	32.410176	-96.877088
13	5260	Down Milepost	13.00	0	11	T	0	0	5	32.401876	-96.863231

Notes:

* Federal Track Safety Standard Advisory
Cant Exceptions are in degrees. The following fields are irrelevant for Cant Exceptions: LC, PC
Rail Impact Values are in Gs; the threshold is 20g peak to peak

Exception Report
Curve Analysis Section
Milepost 246 to Milepost 13

Fort Worth, TX to Waxahachie, TX

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

Track	Starting		Ending		Average		Speed		Limiting Point			Total		Limiting Speed at									
	MP	FT	MP	FT	Len	Spd	Curve	Elev	Post	Lmt	MP	FT	Curve	Elev	FT	Grp	3.0	4.0	5.0	6.0	7.0	8.0	9.0
																	Deg/Mi	Inches	Deg/Mi	Inches			
7	246	890	246	1054	165	4	0/46	-0.3	10	70	246	999	0/46	-0.3	0	0	70	82	93	102	111	119	127
7	246	1054	246	1287	234	5	-5/26	0.08	10	27	246	1174	-5/30	0.11	0	0	27	31	35	39	42	45	48
7	246	1287	246	1582	238	5	4/01	0.35	10	32	246	1444	4/07	0.02	0	0	32	37	41	45	49	52	55
7	246	1582	246	1748	167	9	-4/08	-0.42	10	34	246	1704	-4/09	-0.44	0	0	34	39	43	47	50	53	57
7	246	1748	246	1920	173	10	4/03	0.24	10	32	246	1813	4/08	0.14	0	0	32	37	42	46	49	53	56
1	246	1920	246	2137	218	11	-4/26	-0.08	10	30	246	2038	-4/29	0.08	0	0	30	35	39	43	46	50	53
1	246	2137	246	2604	468	13	4/58	1.64	10	35	246	2387	5/01	1.36	0	0	35	39	42	45	48	51	54
1	246	2914	246	3077	164	14	-0/16	-0.24	30	125	246	2982	-0/17	-0.2	0	0	125	146	162	177	191	204	216
1	246	3077	246	3149	73	15	0/21	-0.71	30	89	246	3099	0/24	-0.76	0	0	89	107	123	136	149	160	171
2	246	4144	246	4958	493	7	1/03	0.53	40	65	246	4653	1/05	0.32	0	0	65	75	83	90	97	104	110
2	246	4958	246	5075	118	6	0/18	-0.35	20	109	246	5029	0/19	-0.33	0	0	109	127	144	159	172	184	196
2	246	5382	246	5635	254	6	2/48	-0	20	38	246	5519	2/50	-0.08	0	0	38	44	49	54	59	63	67
1	246	5635	246	5927	100	4	-1/58	0.73	10	40	246	5778	-1/58	0.73	0	0	40	48	55	61	67	72	77
1	246	6973	246	7088	116	7	-0/17	-1.04	30	128	246	7026	-0/19	-0.62	0	0	128	145	160	174	187	199	210
1	246	8093	246	8313	221	16	-0/16	-0.05	30	124	246	8229	-0/16	-0.08	0	0	124	146	163	179	193	206	219
1	246	8370	246	8516	147	15	-0/16	0.29	30	116	246	8461	-0/17	0.24	0	0	116	138	155	171	185	198	211
1	246	8743	246	9057	315	16	0/23	0.65	30	114	246	8988	0/25	0.72	0	0	114	128	141	153	163	174	184
1	250	1323	250	1783	461	15	0/32	0.52	30	94	250	1649	0/34	0.54	0	0	94	106	117	128	137	146	154
1	250	2604	250	3002	399	19	3/31	0.85	30	39	250	2782	3/33	0.82	0	0	39	44	48	52	56	59	62
1	250	5663	250	6070	346	5	3/25	0.49	30	38	250	5840	3/30	0.55	0	0	38	43	47	51	55	59	62
1	250	6184	250	6427	244	18	-0/56	-0.09	30	64	250	6319	-1/02	-0.1	0	0	64	75	83	91	98	105	111
1	250	6549	250	6833	285	23	-4/29	-0.26	30	31	250	6693	-4/34	-0.26	0	0	31	36	40	44	47	50	53
1	250	6833	250	6994	162	25	-2/37	-0.21	30	39	250	6869	-2/44	-0.06	0	0	39	46	51	56	60	64	68
1	250	6994	250	7194	201	27	2/46	-0.04	30	39	250	7104	2/46	-0.04	0	0	39	45	50	55	60	64	68
1	250	7194	250	7393	200	28	-2/50	-0.28	30	38	250	7288	-2/51	0.01	0	0	38	44	50	54	59	63	67
1	250	7393	250	7431	39	28	-1/23	-1.43	30	67	250	7430	-1/23	-1.43	0	0	67	74	81	87	93	98	103
5	250	7431	250	8002	572	29	-6/18	-1.97	30	33	250	7666	-6/19	-1.93	0	0	33	36	39	42	44	47	49
5	250	8002	50	1747	2329	34	-1/22	-0.98	30	57	50	913	-1/32	-0.58	0	0	57	65	72	78	84	89	94
5	50	1747	50	2244	498	31	-1/31	-1.61	30	63	50	1861	-1/35	-1.45	0	0	63	70	76	82	87	92	97
5	50	2623	49	206	2956	31	-0/55	-0.6	30	62	50	3219	-1/12	-0.31	0	0	62	71	79	86	93	99	105
5	49	316	49	1375	1060	19	4/23	0.94	30	35	49	947	4/24	0.84	0	0	35	39	43	47	50	53	56
5	49	2347	49	2687	341	21	3/46	2.46	30	45	49	2624	3/46	2.4	0	0	45	49	53	56	59	62	65
5	49	2687	49	2735	49	20	3/43	2.1	30	44	49	2734	3/43	2.1	0	0	44	48	52	55	59	62	65
5	49	2735	49	4154	1420	20	4/00	2.07	30	39	49	2901	4/07	1.55	0	0	39	43	47	51	54	57	60
5	49	4229	49	4754	526	26	-7/11	-3.11	30	34	49	4731	-7/11	-3.09	0	0	34	37	40	42	44	46	49
5	49	4754	49	4926	173	26	-7/12	-3.48	30	35	49	4765	-7/16	-3.27	0	0	35	37	40	42	44	47	49
5	49	4926	48	502	786	26	-7/26	-2.59	30	32	49	5016	-7/34	-2.63	0	0	32	35	37	40	42	44	46
5	48	1075	48	1894	820	25	-4/22	-2.79	30	42	48	1478	-4/26	-2.65	0	0	42	46	49	52	55	58	61
5	48	1894	48	2432	539	25	4/02	2.67	30	43	48	2130	4/11	2.5	0	0	43	47	50	53	56	59	62
5	47	1738	47	2878	1141	18	0/56	1.73	40	82	47	2659	0/51	1	0	0	82	91	100	108	115	123	129
5	45	3203	44	60	2157	29	2/59	2.43	40	49	45	3575	3/08	2.36	0	0	49	53	57	61	65	68	71
5	44	1112	44	2015	904	31	-3/46	-4.81	40	50	44	1458	-4/09	-4.47	0	0	50	54	57	60	62	65	68
5	44	2379	44	3186	808	29	-2/58	-1.73	40	46	44	2665	-2/53	-1.41	0	0	46	51	56	60	64	68	71
5	44	3186	44	3909	724	26	-2/59	-1.92	35	48	44	3504	-3/04	-2.01	0	0	48	52	57	61	64	68	71
5	44	5239	43	1572	1613	26	4/00	2.12	40	40	43	505	4/13	1.89	0	0	40	44	48	51	54	57	60
5	43	1636	43	2739	1104	27	-3/49	-3.05	40	46	43	2041	-3/52	-2.99	0	0	46	50	54	57	60	63	66

Exception Report
Curve Analysis Section
Milepost 246 to Milepost 13

Fort Worth, TX to Waxahachie, TX

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

Track	Starting		Ending		Average		Speed		Limiting Point			Total		Limiting Speed at									
	MP	FT	MP	FT	Len	Spd	Curve	Elev	Post	Lmt	MP	FT	Curve	Elev	FT	Grp	3.0	4.0	5.0	6.0	7.0	8.0	9.0
																	Deg/Mi	Inches	Deg/Mi	Inches			
5	43	4015	42	18	1305	23	-4/07	-4.16	40	48	43	4826	-4/15	-4.1	0	0	48	52	55	58	61	63	66
5	42	1455	42	3134	1680	30	3/58	4.17	40	49	42	1841	3/57	3.88	0	0	49	53	56	59	62	65	68
5	41	2037	41	3209	1173	25	-3/01	-4.71	40	59	41	2680	-3/07	-4.63	0	0	59	62	66	69	73	76	79
5	40	590	40	1263	674	28	1/05	1.13	40	68	40	951	1/13	0.99	0	0	68	76	83	90	96	102	108
5	39	605	39	2055	1451	26	3/58	3.51	40	46	39	1826	4/00	3.13	0	0	46	50	53	57	60	63	65
5	38	805	38	1777	973	26	-2/04	-1.75	49	55	38	1127	-2/11	-1.73	0	0	55	61	66	71	75	79	83
5	38	3872	37	104	1523	26	-3/05	-2.89	49	48	38	4617	-3/14	-2.32	75	1	48	52	56	60	64	67	70
5	37	5208	36	1295	1374	26	-2/57	-3.59	49	54	36	585	-3/02	-3.42	0	0	54	59	63	66	70	73	76
5	35	3197	35	3412	216	20	-1/02	-1.04	25	64	35	3315	-0/59	0.07	0	0	64	75	84	92	99	106	113
5	35	3412	35	3907	496	20	-2/30	-2.64	25	56	35	3664	-2/30	-2.64	0	0	56	61	66	70	74	77	81
5	34	189	34	1117	929	22	1/59	2.33	49	60	34	452	2/01	2.2	0	0	60	66	71	76	80	84	89
5	34	2603	34	3237	635	24	-0/57	-1.36	49	79	34	3142	-0/58	-1.28	0	0	79	88	96	104	110	117	123
5	30	3294	30	3894	601	31	0/32	0.89	60	89	30	3526	0/44	1.13	0	0	89	99	108	117	125	132	139
5	30	5688	29	1856	1884	33	-0/59	-1.6	60	78	29	184	-1/02	-1.5	0	0	78	87	94	101	108	114	120
5	29	2521	29	3753	1233	23	1/05	1.24	60	70	29	2848	1/15	1.36	0	0	70	78	85	91	97	103	108
5	29	3792	28	715	1832	29	1/14	3.22	60	80	28	21	1/18	2.92	0	0	80	87	93	98	104	109	114
5	27	1909	27	3106	1198	27	6/29	2.24	30	33	27	2640	6/31	2.05	0	0	33	36	39	42	44	46	49
5	27	3106	27	4032	927	30	-5/04	-3.11	30	40	27	3664	-5/06	-2.97	0	0	40	44	47	50	52	55	57
5	27	4398	26	500	1422	30	2/57	2.65	40	50	26	124	3/00	2.38	0	0	50	55	59	63	66	70	73
5	26	500	26	1327	828	33	-3/21	-2.96	40	49	26	1022	-3/22	-2.87	0	0	49	54	57	61	64	67	71
5	25	2499	25	3439	941	35	2/05	1.47	40	53	25	3092	2/12	1.42	0	0	53	59	64	69	73	78	82
5	25	3439	25	3522	84	34	-0/25	-0.89	40	115	25	3521	-0/25	-0.89	0	0	115	130	143	154	165	176	185
5	25	3522	25	4234	713	33	-2/18	-1.51	40	52	25	3963	-2/16	-1.38	0	0	52	58	63	68	72	76	80
5	24	657	24	1469	813	30	-1/06	-1.34	40	61	24	1286	-1/31	-0.97	0	0	61	68	75	81	86	92	97
5	24	1469	24	1661	193	30	-0/15	-0.16	40	127	24	1476	-0/16	-0.15	0	0	127	148	165	180	194	207	220
5	24	2897	24	3886	990	27	-3/37	-4.06	40	50	24	3229	-3/41	-3.56	0	0	50	54	57	60	64	66	69
5	23	6370	23	7658	1289	25	4/23	2.99	40	43	23	7226	4/24	2.94	0	0	43	47	50	53	56	59	62
5	23	9503	21	2	969	20	-6/01	-3.81	25	38	23	10036	-6/08	-3.48	0	0	38	41	44	46	49	51	53
5	21	2	21	390	389	19	-5/12	-3.03	25	40	21	61	-5/20	-3	0	0	40	43	46	49	51	54	56
5	21	1263	21	2530	1268	20	6/02	2.84	35	36	21	1820	6/11	2.75	0	0	36	39	42	44	47	49	52
5	20	157	20	1084	928	27	-2/58	-3.73	45	54	20	615	-2/55	-3.08	0	0	54	58	62	66	70	73	76
5	20	1084	20	1968	885	26	-2/57	-4.19	45	55	20	1625	-3/10	-3.92	0	0	55	59	63	66	70	73	76
5	20	2416	20	3810	1395	27	2/01	2.22	45	57	20	2923	2/06	1.82	0	0	57	62	68	72	77	81	85
5	19	1275	19	2875	1601	28	2/03	2.74	45	61	19	2519	2/07	2.52	0	0	61	66	71	75	80	84	88
5	18	1123	18	1672	550	26	-3/50	-3.01	45	47	18	1565	-3/52	-3	0	0	47	50	54	57	60	63	66
5	18	1672	18	2674	1003	26	-2/58	-3.69	45	55	18	2016	-3/02	-3.62	0	0	55	59	63	67	70	74	77
5	18	4261	18	6149	1889	26	1/58	2.19	45	57	18	5720	1/58	1.61	0	0	57	63	69	74	79	83	87
5	17	876	17	1268	393	32	-0/59	-1.15	40	75	17	1044	-0/48	-0.19	0	0	75	86	96	105	113	120	128
5	17	1268	17	2415	1148	37	-1/59	-3.18	40	62	17	1435	-1/40	-1.54	0	0	62	69	75	80	85	90	95
5	17	2415	17	2630	216	38	-0/58	-1.68	40	76	17	2421	-1/08	-1.71	0	0	76	84	92	98	104	110	116
5	17	2630	17	2683	54	38	-0/16	-0.47	40	131	17	2631	-0/17	-0.5	0	0	131	151	167	182	195	208	220
5	17	4150	17	5554	1405	38	4/07	3.4	40	46	17	4968	4/10	3.24	0	0	46	49	53	56	59	62	64
5	17	5554	17	6541	988	39	-4/02	-2.53	40	43	17	5898	-4/02	-2.34	0	0	43	47	50	54	57	60	63
5	17	9238	17	10321	1084	33	2/05	2.46	40	57	17	9586	1/59	1.67	0	0	57	63	69	74	78	83	87
5	15	820	15	3634	2815	25	-3/02	-3.43	40	52	15	2398	-3/07	-3.06	0	0	52	56	60	64	67	71	74
5	15	4248	14	694	1774	27	3/02	2.3	25	48	14	103	3/09	2.18	0	0	48	52	57	60	64	67	71

Exception Report
 Curve Analysis Section
 Milepost 246 to Milepost 13

Page 3 of 3
 Run Date: 04/10/2012
 Run ID: 2012041001

Fort Worth, TX to Waxahachie, TX

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

Track		Starting		Ending		Average				Limiting Point				Total		Limiting Speed at							
MP	FT	MP	FT	Len	Spd	Deg/Mi	Inches	Post	Lmt	MP	FT	Deg/Mi	Inches	FT	Grp	3.0	4.0	5.0	6.0	7.0	8.0	9.0	
5	14 2296	14 2830	535	24	0/53	1.68	40 83	14 2430	1/01	1.97	0 0	83	91	99	106	112	118	124					

Exception Report
 Exception Summary Section
 Milepost 246 to Milepost 13
 Fort Worth, TX to Waxahachie, TX

Page 1 of 1
 Run Date: 04/10/2012
 Run ID: 2012041001

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			
246	2213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	53	1	-	-	-	-	1	3	1
44	5299	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	-	-	-	-	-	-	-	-	-	-	-	2	3	5
37	5290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	4	5
33	5288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	31	-	-	-	-	-	-	-	-	3	4	5
27	1583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	62	-	-	-	-	-	2	3	5
17	3940	1	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	5
		1	4	1	-	-	-	-	-	-	-	-	-	-	-	1	4	-	1	31	-	2	115	1	-	-	-	1			

Total Miles: 40.70
Exceptions per 100 Miles: 14.74
CY09 National Average Exceptions per 100 Miles: 21.1

Track Quality Index

Milepost 246 to Milepost 13

Fort Worth, TX - Waxahachie, TX

