Operating Improvement Initiative

(GPS)

CONRA

Continued focus on maximizing efficiencies requires tools that make line supervision mobile and more productive



- Management's focus on maximizing productivity and efficiency has resulted in significant reductions making future reductions more difficult to attain. (Law of diminishing returns)
- The expected expiration of New York Dock protective benefits created a need for a method to prevent artificial increases in required overtime.
- Maximizing the efforts of a streamlined Field Management team requires new tools that provide a supervisor with historical and realtime T&E performance information.
- Tools that allow a field supervisor to be mobile (take the office with you) were needed to maximize efforts and identify were tactical focus was needed.

GPS technology provides a potential solution to further enhance efficiency





Transportation Company

Very reasonable one time and recurring unit cost makes the application of basic GPS technology possible



The decision was made to move forward with a Pilot program to validate the potential uses of GPS technology.

Two GPS units were purchased and installed.



GPS Unit Cost - \$500

Recurring Unit Cost - \$480/Year

Desktop Audits were manually performed to analyze crew productivity utilizing GPS, Payroll and Car Reporting information

CONRAIL

				D	esk To	ορ Αι	udit Rep	ort			
CX 4409					WPP	A 21 /	FP 26				
Date	On Duty Time	Locomotive Start Moving	Paul Yard Out	Cars Out	Paul Yard In	Cars In	Locomotive Stop Moving	Off Duty	Crew Crew Overtime	Day	Customer Info
7/13/2004	2PM	234 PM	221 PM	0	615 PM	0	611 PM	643 PM	0	Tue	Worked Neveon Worked Oxi Worked Ferro Cars handle: 65
7/14/2004	2PM	323 PM	206 PM	0	949 PM	0	944 PM	1208 AM	2:08	Wed	Worked Neveon Worked Oxi Worked Ferro Cars handle: 49
7/15/2004	2PM	256 PM	250 PM	0	7:00 PM	0	646 PM	702 PM	0	Thu	Worked Neveon Worked Oxi Worked Ferro Cars handle: 34
7/16/2004	2PM	345 PM	324 Pm	0	1033 Pm	0	1032 PM	1225 AM	2:25	Fri	Worked Neveon Worked Oxi Worked Ferro Cars handle: 52
7/19/2004	2PM	405 PM	209 PM	0	1055 PM	0	1102 PM	155 Am	3:55	Mon	Worked Neveon Worked Oxi Worked Ferro Cars handle: 63
7/20/2004	2PM	352 PM	250 PM	0	1059 PM	0	1055 PM	1240 AM	3:40	Tue	Worked Neveon Worked Oxi Worked Ferro Cars handle: 76

Results of the Desktop Audit identified many uses of combining GPS information with other data and the decision was made to move forward with a formal initiative



- The manually performed desk top audits validated the benefits of utilizing GPS technology.
- The decision was made to develop a management reporting tool to analyze crew productivity and locomotive shutdown compliance.
- The new management reporting tool provides daily/tactical reports as well as weekly, monthly and year to date management reports.

Tactical

Daily Crew Reports Daily Fuel Conservation Report

<u>Management</u>

Summary Crew Report Summary Fuel Conservation Rpt. The new GPS data blended with information available in the Conrail data warehouse provides a powerful tactical and Strategic management information system



Tactical crew information can be accessed through the Conrail data warehouse.

CONRAIL



The Crew report provides line supervision with information to evaluate workload, efficiency, and customer service.



		C	ONRAI	L CREV	V REPOR	Г		
		C	rew [.] FC	05 for	06/29/20	05		
Crew:		C	10.0.10	101	00/22/20	05		
T CASST	DV	Condu	ctor		<i>с</i>	יי+נים מ	Time	• 10•00 AM
T PERT		Engin	oor			off Duty	Time	• 10.00 PM
0.1 11(1(1		Dirgin	CCI		с п	rotal Ti		• 12.00
						IOCAI III		· 12.00
Locomot	ives:							
NS 522	5 First	Movement	: 11:03	3 AM	Origin	Idle Tir	me	:01:03
NS 528	0 Last	Movement	• 09.44	1 PM	Destina	tion Id	le Time	•00•16
110 520	U Dabe	Time	• 10•41	1 1 1 1	Origin	Deat Id	le Time	• 01 • 1 9
	IOLAI		. 10.41	-		dest Id.		.01.19
	ТТ.		. 07:23	>	TOLAL M	liles ira	avered	:04./
		Stopped	.: 03:18	5	Average	e speed		:8.8 MPH
		(100 D -						
Locomot	ive Speed	(MPH) Dis	tributi	lon in	Minutes	1 00 00		
0 :	251 39.2%	1-4.9:	85 13	.3% 5	- 9.9: 14	1 22.0%	10-14.9: 6	57 10.5%
15-19.9:	61 9.5%	20-24.9:	35 5	.5% 25	-29.9: 1	0.08	30+ : (0.0%
Min				Min				
Moved M	liles Speed	Locomotiv	ve Stops	Stop	Locatio	n		
15	1.1 4.4	11:18 AM -	11:53 A	M 35	1444 RIVE	r rd cam	DEN NJ	
40	2.0 3.0	12:33 PM -	12:47 F	M 14	I 676 N	CAMDEN NJ		
52	7.3 8.4	01:39 PM -	01:48 F	M 9	NEW JERSE	LY TPKE S	BARRINGTON	NJ
20	1.3 3.9	02:08 PM -	02:23 F	M 15	40 ATLANI	IC AVE L	AWNSIDE NJ	
4	0.5 7.5	02:27 PM -	02:38 F	M 11	ATLANTIC	AVE NE M	AGNOLIA NJ	
37	7.2 11.7	03:15 PM -	04:03 F	M 48	PINE VALI	LEY COUNTR	Y CLUB CLEM	ENTON NJ
45	3.3 4.4	04:48 PM -	04:54 F	М б	260 ATLAN	ITIC AVE	BERLIN NJ	
13	4.1 18.9	05:07 PM -	05:13 F	М б	RAILROAD	AVE HAMM	ONTON NJ	
26	0.5 1.2	05:39 PM -	05:50 F	M 11	98 BERLIN	I BLUE ANC	HOR RD HAM	MONTON NJ
57	6.4 6.7	06:47 PM -	06:54 F	M 7	799 BAIRE	MORE AVE	HAMMONTON	NJ
7	0.4 3.4	07:01 PM -	07:15 F	M 14	CEDARBROC	ok rd ham	MONTON NJ	
30	3.3 6.6	07:45 PM -	08:07 F	M 22	CEDARBROC	OK RD HAM	MONTON NJ	
AEI Rea	ds:	D	ate/Tir	ne	Cars	Engi	nes	
PAV	ONTA SOUTH	06	29 0101	РМ	11	2		
D71	ONTA COULD	0.0	20 0000) DM	10	2		
PAV	DITA SOUTH	0.6	29 0930		ΤЭ	2		
Work Pe	rformed:							
Customer	Reported Tim	e Placed	Pulled	Total	In Gate	Out Gate	Total Time	Min/Car
SJPBECKET	06/29 1000 A	M 1	0	1	00:00	00:00	00:00	0.0
WEYERHAEU	06/29 0215 P	M 5	5	10	01:37 PM	02:25 PM	00:48	4.8
JOHMANINT	06/29 0450 P	M 5	2	./	00:00	00:00	00:00	0.0
DORFTTOWR	00/29 0000 P	M 10	1	2	00:00	00:00	00:00	0.0
	Crew: J.CASSI J.PERRI Locomot NS 522 NS 528 Locomot 0 : 15-19.9: Min Moved M 15 40 52 20 4 37 45 13 26 57 7 30 AEI Rea PAV PAV Work Pe Customer SJPBECKET WEYERHAEU JOHMANINT DUBELLUMB	Crew: J.CASSIDY J.PERRI Locomotives: NS 5225 First NS 5280 Last Total Tim Locomotive Speed 0 : 251 39.2% 15-19.9: 61 9.5% Min Moved Miles Speed 15 1.1 4.4 40 2.0 3.0 52 7.3 8.4 20 1.3 3.9 4 0.5 7.5 37 7.2 11.7 45 3.3 4.4 13 4.1 18.9 26 0.5 1.2 57 6.4 6.7 7 0.4 3.4 13 4.1 18.9 26 0.5 1.2 57 6.4 6.7 7 0.4 3.4 30 3.3 6.6 AEI Reads: PAVONIA SOUTH PAVONIA SOUTH PAVONIA SOUTH PAVONIA SOUTH PAVONIA SOUTH PAVONIA SOUTH PAVONIA SOUTH PAVONIA SOUTH PAVONIA SOUTH DUBELLUMB 06/29 0550 P	Crew: J.CASSIDY J.PERRI Comotives: NS 5225 First Movement Total Time Time Moving Stopped Locomotive Speed (MPH) Dis 0 : 251 39.2% 1-4.9: 15-19.9: 61 9.5% 20-24.9: Min Moved Miles Speed Locomotiv 15 1.1 4.4 11:18 AM - 40 2.0 3.0 12:33 PM - 52 7.3 8.4 01:39 PM - 20 1.3 3.9 02:08 PM - 4 0.5 7.5 02:27 PM - 37 7.2 11.7 03:15 PM - 45 3.3 4.4 04:48 PM - 13 4.1 18.9 05:07 PM - 26 0.5 1.2 05:39 PM - 57 6.4 6.7 06:47 PM - 7 0.4 3.4 07:01 PM - 30 3.3 6.6 07:45 PM - AEI Reads: PAVONIA SOUTH 06 PAVONIA SOUTH 5 DUBELLUMB 06/29 0215 PM 5 DUBELLUMB 06/29 0550 PM 1	CONRAIL Crew: FOU J. CASSIDY J. PERRI Cocomotives: NS 5225 Signature Signature Cocomotives: NS 5280 Last Movement: 09:44 Total Time : 10:41 Time Moving: 07:23 Stopped: 03:18 Locomotive Speed (MPH) Distributi 0 : 251 39.2% 1- 4.9: 85 13 15-19.9: 61 9.5% 20-24.9: 35 5 Min Moved Miles Speed Locomotive Stops 15 1.1 4.4 11:18 AM - 11:53 A 40 2.0 3.0 12:33 PM - 12:47 P 52 7.3 8.4 01:39 PM - 01:48 P 20 1.3 3.9 02:08 PM - 02:23 P 4 0.5 7.5 02:27 PM - 02:38 P 37 7.2 11.7 03:15 PM - 04:38 P 37 7.2 11.7 03:15 PM - 04:38 P 45 3.3 4.4 04:48 PM - 04:54 P 13 4.1 18.9 05:07 PM - 05:13 P 45 3.3 4.4 04:48 PM - 04:54 P 13 4.1 18.9 05:07 PM - 05:13 P 26 0.5 1.2 05:39 PM - 05:50 P 57 6.4 6.7 06:47 PM - 06:54 P 7 0.4 3.4 07:01 PM - 07:15 P 30 3.3 6.6 07:45 PM - 08:07 P AEI Reads: Date/Tim PAVONIA SOUTH 0629 0101 PAVONIA SOUTH 0629 0930 Work Performed: Customer Reported Time Placed Pulled SJPBECKET 06/29 0215 PM 5 5 JOHMANINT 06/29 0450 PM 5 2 DUBELLUMB 06/29 0550 PM 1 1	CONRAIL CREW Crew: FC05 for Crew: J.CASSIDY J.PERRI Conductor Engineer Locomotives: NS 5225 First Movement: 11:03 AM NS 5280 Last Movement: 09:44 PM Total Time : 10:41 Time Moving: 07:23 Stopped: 03:18 Locomotive Speed (MPH) Distribution in 0 : 251 39.2% 1-4.9: 85 13.3% 5: 15-19.9: 61 Min Min Moved Miles Speed Locomotive Stops Stop 15 15 15 11 At 1:18 AM - 11:53 AM 35 40 Min Min Moved Miles Speed Locomotive Stops Stop 15 11 12:3 PM - 01:48 PM 9 20 13 0:20 13 20 1.3 3 0:21 0:21 0:21 1:2 Date/Time PAVONIA SOUTH 0629 0101 PM PAVONIA SOUTH 0629 0101 PM PAVONI	CONRAIL CREW REPOR Crew: FC05 for 06/29/20 Crew: J.CASSIDY Conductor C J.PERRI Engineer C Locomotives: S 5225 First Movement: 11:03 AM Origin NS 5225 First Movement: 09:44 PM Destina Total Time 10:41 Origin/ Time Moving: 07:23 NS 5280 Last Movement: 03:44 PM Destina Total Time 10:41 Origin/ Time Moving: 07:23 Locomotive Speed (MPH) Distribution in Minutes 0 : 251 39.2% 1- 4.9: 85 13.3% 5- 9.9: 14 15-19.9: 61 9.5% 20-24.9: 35 5.5% 25-29.9: 1 Min Min Min Min Min Moved Miles Speed Locomotive Stops Stop Location 15 4.4 11:18 AM - 11:53 AM 35 1444 RIVF 40 2.0 3.0 12:33 PM - 01:48 PM 9 NeW JERSE 20 1.3 3.9 02:08 PM - 02:23 PM 15 40 ATLAMI 4 0.5 7.5 02:27 PM -	CONRAIL CREW REPORT Crew: FC05 for 06/29/2005 Crew: J.CASSIDY Conductor On Duty J.PERRI Engineer Off Duty Total Time NS 5225 First Movement: 11:03 AM Origin Idle Tim NS 5225 First Movement: 09:44 PM Destination Idle Tim NS 5225 First Movement: 09:44 PM Destination Idle Tim NS 5225 First Movement: 09:44 PM Destination Idle Tim NS 5225 First Movement: 09:44 PM Destination Idle Tim NS 5225 First Movement: 09:44 PM Destination Idle Tim NS 5225 Total Miles Tr Stopped: 03:18 Average Speed Locomotive Speed (MPH) Distribution in Minutes 0 : 251 39.2% 1- 4.9: 85 13.3% 5- 9.9: 141 22.0% Min Min Min Min Min Min Min	CONRAIL CREW REPORT Crew: FC05 for 06/29/2005 Crew: J.CASSIDY Conductor On Duty Time Off Duty Time Total Time on Duty J.CASSIDY Conductor On Duty Time Total Time on Duty Locomotives: NS 5225 First Movement: 11:03 AM Origin Idle Time Total Time on Duty NS 5225 First Movement: 09:44 PM Destination Idle Time Total Time : 10:41 Origin/Dest Idle Time Total Miles Traveled Stopped: 03:18 Average Speed (MPH) Distribution in Minutes 0 : 251 39.2% 1-4.9: 85 13.3% 5-9.9: 141 22.0% 10-14.9: 0 15-19.9: 61 9.5% 20-24.9: 35 5.5% 25-29.9: 1 0.0% 30+ : 0 Min Min Min Min Moveed Miles Speed Locomotive Stops Stop Location 15 1.1 4.4 11:18 AM - 11:53 AM 35 1444 RIVER RD CAMDEN NJ 22 7.3 8.4 01:39 PM - 01:48 PM 9 New JERSEY TREE S BARRINGTON 20 1.3 3.9 02:08 PM - 10:43 PM 15 40 ATLANTIC AVE LAWNSIDE NJ 4 0.5 7.5 02:27 PM - 02:33 PM 15 40 ATLANTIC AVE LAWNSIDE NJ 4 4 0.5 7.5 02:27 PM - 02:33 PM 15 40 ATLANTIC AVE LAWNSIDE NJ 4 4 0.5 7.5 02:27 PM - 02:33 PM 15 40 ATLANTIC AVE LAWNSIDE NJ 3 3.3 4.4 04:48 PM - 04:53 PM 48 PHE VALLEY COUNTRY CLUB CLEM 45 3.3 4.4 04:48 PM - 04:54 PM 6 260 ATLANTIC AVE BERLIN NJ 3 7 7.2 11.7 03:15 PM - 05:30 PM 11 98 BERLIN ELUE ANCHOR RD HAM 057 6.4 6.6 7 06:47 PM - 06:513 PM 6 RAILROAD AVE HAMONTON NJ 26 0.5 1.2 05:39 PM - 05:30 PM 11 98 BERLIN ELUE ANCHOR RD HAM 057 6.4 6.6 7 06:47 PM - 06:513 PM 7 12 CEDARBROOK RD HAMONTON NJ 30 3.3 6.

Graphical displays/maps identify train movement delays, customer locations and stops greater than 5 minutes.





GPS data is also used to identify locomotive inactivity, shutdown opportunity, and fuel conservation



			Ľ	Daily Fuel	06/29/0	vation Re 5	eport			
Region	Init	Number	Total Opportunity	Shutdown Time	Fuel Saved	Money Saved	Opportunity Lost	Fuel Burned	Money Lost	Incidents
Detroit	NS	1429	24.00	24.00	108.00	\$179.28	0.00	0.00	\$0.00	1
	NS	1445	24.00	24.00	108.00	\$179.28	0.00	0.00	\$0.00	
	NS	5242	16.52	15.46	70.95	\$117.78	1.06	4.95	\$8.22	5
	CSX	1563	13.57	13.57	62.78	\$104.21	0.00	0.00	\$0.00	3
	NS	1448	15.54	11.34	52.05	\$86.40	4.20	19.50	\$32.37	3
	NS	1407	11.33	11.33	51.98	\$86.28	0.00	0.00	\$0.00	2
	NS	1454	15.28	3.37	16.28	\$27.02	11.51	53.33	\$88.52	3
Count/Totals	S	7	120.24	103.07	470.04	\$780.25	16.77	77.78	\$129.11	20
Averages			17.18	14.72	67.15	\$111.46	2.40	11.11	\$18.44	2.86
North										
Jersey	NS	1427	23.58	23.58	107.85	\$179.03	0.00	0.00	\$0.00	2
	NS	2103	20.19	20.19	91.43	\$151.77	0.00	0.00	\$0.00	2
	CSX	8815	12.19	3.31	15.83	\$26.27	8.48	39.60	\$65.74	6
	CSX	2746	16.11	1.38	7.35	\$12.20	14.33	65.48	\$108.69	3
	CSX	4419	19.08	0.00	0.00	\$0.00	19.08	86.10	\$142.93	2
	NS	5313	15.54	0.00	0.00	\$0.00	15.54	71.55	\$118.77	2
	NS	5314	18.54	0.00	0.00	\$0.00	18.54	85.05	\$141.18	2
Count/Totals Averages	S	7	125.23 17.89	48.46 6.92	222.46 31.78	\$369.27 \$52.75	75.97 10.85	347.78 49.68	\$577.31 \$82.47	23.00 3.29
South										
Jersey	CSX	4428	24.00	24.00	108.00	\$179.28	0.00	0.00	\$0.00	1
	NS	5223	23.39	23.39	106.43	\$176.67	0.00	0.00	\$0.00	2
	NS	5312	18.34	17.00	76.50	\$126.99	1.34	7.05	\$11.70	3
	CSX	4412	11.19	10.18	46.35	\$76.94	1.01	4.58	\$7.59	3
	NS	5280	3.46	0.00	0.00	\$0.00	3.46	16.95	\$28.14	2
	NS	5284	9.47	0.00	0.00	\$0.00	9.47	44.03	\$73.08	Ę
Count/Totals Averages	S	6	89.85 14.98	74.57 12.43	337.28 56.21	\$559.88 \$93.31	15.28 2.55	72.61 12.10	\$120.51 \$20.09	16 2.6
Count/Total	-	20	22E 22	226 40	1 0 20 79	¢4 700 40	400.00	400.47	****	-

The Summary Crew Report can be generated by Yard, District or System



Consolidated Rail Corporation Summary - Crew Report PAVONIA July 1, 2005 - July 11, 2005

				Avg On	Avg	Total			Avg Loco	Avg Loco		Avg		Avg #	
NS Crew	CR Crew	Starts	GPS Starts	Duty Time	Loco Time	Idle Time	Orig Idle Time	Dest Idle Time	Moving Time	Stop Time	# of Stops	Miles Traveled	Avg Speed	Cust. Served	Avg # Cars
FC05	WPCA51	6	6	11:29	9:07	2:22	1:34	0:48	6:43	2:24	9.2	60.3	. 9.0	6.3	75.5
FC06	WPCA20	6	5	12:01	10:09	1:52	1:32	0:20	6:11	3:58	12.0	55.4	9.0	2.6	23.4
FC14	YPCA05	6	6	10:35	8:34	2:01	1:17	0:44	5:54	2:40	7.5	35.5	6.0	3.8	38.5
FC20	YPCA20	7	7	7:14	4:10	3:04	1:44	1:21	2:16	1:54	4.3	9.0	4.0	0.7	19.0
FC25	YPCA25	1	1	6:03	4:59	1:04	0:10	0:54	2:30	2:29	5.0	8.2	3.3	0.0	0.0
FC26	WPCA01	6	1	5:20	2:23	2:57	0:07	2:50	1:09	1:14	2.0	8.5	7.4	0.0	0.0
FC27	YPCA27	6	4	7:38	5:51	1:47	1:12	0:35	3:50	2:01	6.8	8.6	2.3	0.0	0.0
FC40	YPCA60	5	4	8:46	6:34	2:12	1:12	0:00	3:43	2:51	6.0	10.8	2.9	5.0	20.5
FC42	WPCA11	9	9	6:55	4:19	2:36	1:59	0:37	2:41	1:38	5.7	24.7	9.2	1.9	79.8
FC44	YPCA41	6	3	9:27	6:29	2:58	1:49	1:10	3:50	2:39	11.0	11.5	3.0	0.0	0.0
FC45	WPCA29	4	3	11:36	9:24	2:12	1:19	0:52	5:44	3:40	8.3	44.3	7.7	5.0	27.0
FC48	YPCA48	4	4	10:11	4:20	5:51	2:28	3:23	2:22	1:58	3.8	10.6	4.5	0.0	0.0
FC49	YPCA69	5	5	9:53	7:34	2:19	1:13	1:05	5:23	2:11	6.4	19.1	3.5	4.6	27.6
Average		5.46	4.46	9:00	6:27	2:33	1:21	1:07	4:01	2:25	6.77	23.58	5.52	2.30	23.95

June 2005

NS	CR		GPS	Avg On Duty	Avg Loco	Total Idle	Orig Idle	Dest Idle	Avg Loco Moving	Avg Loco Stop	# of	Avg Miles	Avg	Avg # Cust.	Avg #
Crew	Crew	Starts	Starts	Time	Time	Time	Time	Time	Time	Time	Stops	Traveled	Speed	Served	Cars
FC05	WPCA51	22	22	12:02	9:40	2:22	1:28	0:55	6:30	3:10	10.2	58.9	9.1	5.6	42.2
FC06	WPCA20	22	19	10:47	8:42	2:05	1:12	0:54	5:29	3:13	10.8	34.4	6.3	2.1	28.1
FC14	YPCA05	22	22	11:26	8:34	2:52	1:16	1:37	6:13	2:21	7.3	31.8	5.1	3.5	40.0
FC20	YPCA20	21	21	8:53	5:49	3:04	1:52	1:11	2:51	2:58	6.6	12.8	4.5	0.6	21.1
FC25	YPCA25	4	2	9:55	6:31	3:24	1:01	2:24	3:37	2:54	5.5	18.3	5.0	0.0	0.0
FC26	WPCA01	22	8	9:22	4:18	5:04	2:22	2:42	1:47	2:31	4.5	14.0	7.8	0.0	0.0
FC27	YPCA27	21	10	8:37	5:30	3:07	1:18	1:49	2:57	2:33	6.3	10.1	3.4	0.0	0.0
FC40	YPCA60	21	19	7:30	5:34	1:56	0:59	0:57	2:47	2:47	7.1	14.5	5.2	4.7	20.7
FC42	WPCA11	26	8	7:30	4:36	2:54	2:03	0:51	2:45	1:51	6.3	25.7	9.4	2.1	77.6
FC44	YPCA41	19	9	10:34	7:29	3:05	1:13	1:52	4:55	2:34	7.0	10.2	2.1	0.0	0.0
FC45	WPCA29	20	19	10:38	8:09	2:29	1:21	1:08	5:09	3:00	6.2	42.3	8.2	5.1	25.4
FC48	YPCA48	20	18	8:39	6:43	1:56	1:05	0:51	3:30	3:13	8.8	12.7	3.6	0.0	0.0
FC49	YPCA69	21	20	11:03	8:52	2:11	1:21	0:50	5:35	3:17	9.3	21.8	3.9	4.3	37.2
Average		20.08	15.15	9:45	6:57	2:48	1:25	1:23	4:09	2:47	7.38	23.65	5.66	2.15	22.48

Real-time location information can be accessed by locomotive and presented in text format or a visual map display.



HOME S	TATUS	MAPS REPORT	S MESSAGES SITES	SET UP
Reports	1.	Select report type:	Last Known Position 🛛 💌	
Report Generation Create Schedule View Schedules	2.	Select group / vehicle(s): Vehicle L-CSX-1123-M6170 L-CSX-1127-M0906 L-CSX-1128-M0670	Last Known Position Stop Speeding Event Position Engine Idle Start Time Vehicle Activity Summary Sites Visited (Site)	Select All Deselect All
Customer Name: Conrail	3.	L-CSX-1537-M6264	Sites Visited (Vehicle) Sites Visited (Vehicle) Vehicle Congregation Audit Event	Torresdale Ave
	Position ort		5 E Sedgley Ave	Suckius St
Repo			staven St E Glenwood	od Ave
Vehicle Date Time	Addre	955	stouen St E Glenwor Emerald St 78, 44, 6	Event Location
Vehicle Date Time -CSX-1128-M0670 7/13/2005 09:38:40 AM	Addre 1968 E Butler St, Phila	2 55 delphia, PA, 19137	Stouen St E Glenwor Emerald St Reith Amber St St	Event Location

The event report can be generated on demand and will identify stops, starts and location.



HOME STA	TUS	MAPS	REPORTS	ME	SSAGES	SITES	SET UP
eports	1.	Select report type	2	Event		*	
eport Generation							
reate Schedule	2.	Quick time range:	Today	*			
lew Schedules		Start Date* / Time:			End Date*	/ Time:	
		13 Jul 2005 12:00:	:00 AM		13 Jul 200:	5 11:59:59 PM	
		· * dd MMM yyyy hh	i:mm:ss tt.				
	3.	Select group / veh	icle(s):	Loco	s - System	~	
		Vehicle					Select All
		L-CSX-1123-M	6170			~	Deselect All
		L-CSX-1127-M	0906				
		🗹 L-CSX-1128-M	0670				
		1 CSY 1537 M	COCA			C 100299	

7/13/2005 - Vehicle L-CSX-1128-M0670

Time	Event	Distance	Address
and a second		miles	
02:02:03 AM 🛛 😳 Vehi	cle Stopped	0.0	RAMP, PHILADELPHIA, PA, 19124
02:11:45 AM 🔁 Vehi	cle Started Moving	0.2	RAMP, PHILADELPHIA, PA, 19124
06:48:40 AM 🛛 😳 Vehi	cle Stopped	4.2	1955 E BUTLER ST, PHILADELPHIA, PA, 19124
07:20:56 AM 🔁 Vehi	cle Started Moving	4.2	1964 E BUTLER ST, PHILADELPHIA, PA, 19124
Access and an			

END OF REPORT

Questions and Answers

