RESEARCH BUREAU

Innovation in Transportation

Positive Train Control Survey

Prepared by: New Mexico Department of Transportation Research Bureau 7500B Pan American Freeway NE Albuquerque, NM 87109

In Cooperation with: The US Department of Transportation Federal Highway Administration

Report PTC Survey

NOVEMBER 2012

Positive Train Control Survey

Introduction

In fall of 2011 William Craven and Frank Sharpless submitted a research request for a survey of commuter rail systems to determine how these systems were responding to the Federal Rail Administration mandate for installation of Positive Train Control (PTC) by December 31, 2015. The research request was approved by the C-RAC and FHWA in June 2012 and included in the Research Bureau's FY2013 Work Plan.

Amy Estelle was the Project Manager for Research. She took a list of systems provided by the Rail Bureau and made email and telephone inquiries to determine who at each system could best answer questions regarding PTC. She developed a survey with input from the Rail Bureau. The Research Bureau purchased a subscription to SurveyMonkey software to conduct the survey online.

On October 15, 2012 the survey was sent out to contacts at 15 commuter rail systems. On October 17, 2012 the survey was sent out to an additional recipient. Six out of 16 systems responded for a 37.5% response rate.

Attached are the email list, a record of contacts made with commuter rail systems, a summary and individual survey results.

Email List for PTC Initial survey out to these addresses (10/15/12):

Ibedoya@nctd.org
tprovost@rideuta.com
brian@acerail.com
Stephen.szegedy@ct.gov
Lora.Baulsir@nashville.gov
martin.young@soundtransit.org
RSuarez1@dart.org
john.parsons@nictd.com
barkmanb@sfrta.fl.gov
JHovatter1@mta.maryland.gov
CaltrainPTC@samtrans.com
Joe.Zerzan@railpros.com
mmonstero@septa.org
sxjones@mbta.com
PStangas@njtransit.com

RAndreski@njtransit.com New Jersey TRANSIT's Rail Chief of Staff (survey sent on 10/17/12)

RECORD OF CONTACTS WITH COMMUTER RAIL SYSTEMS

Green highlighted text indicates that the Research Bureau is reasonably sure that this is the best person at the respective commuter rail system to answer technical questions.

	System	Survey Goes to 07_10_12	Location	Email	Phone
	Coaster North County Transit District	Luis Bedoya (bedoya cinctd org Project Manager PTC 810 Mission Avenue/ Oceanside, CA 92054 O: 760.967.2805 C: 817.401.3159 7_10_12 confirmed	San Diego, CA	Deborah Castillo 760-967-2817 dcastillo@nctd.org emailed 6/11/12 Contacted Philip Chiu, Document Control Coordinator, or emailing pchiu@nctd.org. (7_10_12)	
С	FrontRunner Utah Transit Authority	Todd Provost tprovost@rideuta.com	Salt Lake City, UT	tprovost@rideuta.com confirmed he will participate	801-230-6420
С	Altamount Commuter Express (ACE) San Joaquin Regional rail Commission	Contacted on main webpage email 6-5-12 Brian Schmidt Director of Operations, Planning & Programming San Joaquin Regional Rail Commission Brian Schmidt	Stockton, CA	San Joaquin Regional Rail Commission Altamont Commuter Express (ACE) Headquarters 949 East Channel Street Stockton, CA 95202 1-800-411-RAIL (7245) (209) 944-6220 emailed to capital projects 6/11/12 brian@acerail.com	Phone: 209 944-6241 Cell: 209 649-6403
	Shore Line East Connecticut Dept of Transportation	Eugene Colonese Eugene.colonese@ct.gov he recommends Steve Szegedy Bureau of Public Transportation Department of Transportation State of Connecticut 2800 Berlin Turnpike Newington, Connecticut 06111 Itephen szegedy@ct.govsmalio.Stephen szege	New Haven, CT New London, CT	6/11/ left message at this no. 7_10_12 reached pub trans and got info for E. Colonese email sent 7-10-12	

		dy@ct.gpv> 860-594-2897 7/18/12			
	Music City Star, Regional Transportation Authority (RTA)	James McAteer (pnlg) or Dawn Distler (ops) Charles Mitchell, Director of Operations charles.mitchell@nashville.gov responded on 7/10/12 Mrs. Lora Baulsir, General Manager RTA, at Bauls r@nashvilla.gov	Nashville, TN	james.mcateer@nashville.gov emailed dawn.distler@nashville.gov on 6/13/12 contacted Charles Mitchell 7- 10-12	(615) 880-3289
С	Sounder Commuter Rail Sound Transit	Contacted andrea avni, librarian, for best contact, 6-5-12 Ann Marie Mitchell Commuter Rail Coordinator annmarie.mitchell@soundtransit.org 206.398.5310 Martin Young Commuter Rail Operations Manager	Seattle, Tacoma, and Everett, WA	martin.young@soundtrans it.org	206.398.5115
С	Trinity Railway Express (TRE) Dallas Area Rapid Transit (DART) and the Fort Worth Transportation Authority (the T)	Raymond Suarez TRE Chief Administrative Officer RSuarez1@dart.org	Dallas & Fort Worth, TX	RSuarez1@dart.org	
	Virginia Railway Express (VRE)	Contacted general email and requested message be forwarded to SM. 6-5-12 Email sent 7-10-12 7/18/12 email sent to Steven.Titunik@VDOT.Virginia.gov at public information office 8/16 emailed VDOT Librarian 8/24 emailed gotrains and asked for contact info	Washington DC	Director of Engineering and Construction - Sirel Mouchantaf, P.E 7-10-12 contacted Director of Rail Operations - Chris Henry via gotrains email address.	

		for Sirel Mouchantaf, P.E.			
	South Shore Line, Northern Indiana Commuter Transportation District (NICTD)	Email sent 7/10/12 to Larry Buckel Public Transit Program Manager Indiana Department of Transportation 100 N. Senate Ave., Room N-955 Indianapolis, IN 46204 317-232-5292 Ibuckel@indot.in.gov he recommends John Parsons at NICTD (219) 926-5744 ext 204	Chicago, IL Northern Indiana. Chesterton, ID	Gerald.Hanas, general manager @nictd.com	
	TRI-Rail South Florida Regional Tranportation Authority	Brad Barkman burkmanb@sfrta.fi.go 954-942-7245 Emailed 7-10-12 confirmed	Miami, FL	SFRTA / Tri-Rail Joe Giulietti 800 NW 33rd St.100 Pompano Beach, FL 33064 954-788-7936 Ph 954-788-7878 Fx giuliettij@sfrta.fl.gov www.tri-rail.com	
С	MARC	John Hovatter JHovatter1@mta.maryland.gov	Harford County, Maryland; Baltimore City; Washington D.C.; Brunswick, Maryland; Frederick, Maryland and Martinsburg, West Virginia	Department of Transportation, Maryland Transit Administration <jhovatter1@mta.maryland.go v=""></jhovatter1@mta.maryland.go>	Dan Reagle, Environmental Planner Maryland Transit Administration 6 St. Paul Street Baltimore, MD 21202 dreagle1@mta.mary land.gov 410-767-3771—sent 6/6/12 John Hovatter <jhovatter1@mta. maryland.gov=""></jhovatter1@mta.>
	Caltrain	7-10-12 contacted general through 'caltrainptc@samtrans.com'	San Francisco, San Jose, CA	Media Contact: Seamus Murphy, 650.508.6388	

		7/18/12 emailed Bill.Bronte@dot.ca.gov in rail section of CalTrans for contact w/ Caltrain Jay Walser- Chief Rail Systems Officer, North County Transit District 760-966-6559 phone on 7/10/12 10/1/12 CaltrainPTC The mailed Bill.Bronte@dot.ca.gov in rail section of Caltrain District 760-966-6559 phone on 7/10/12 10/1/12 CaltrainPTC The mailed Bill.Bronte@dot.ca.gov in rail section of Caltrain District 760-966-6559 phone on 7/10/12 10/1/12 CaltrainPTC The mailed Bill.Bronte@dot.ca.gov in rail section of Caltrain District 760-966-6559 phone on 7/10/12 10/1/12 CaltrainPTC The mailed Bill.Bronte@dot.ca.gov in rail section of Caltrain District 760-966-6559 phone on 7/10/12 10/1/12 CaltrainPTC The mailed Bill.Bronte@dot.ca.gov in rail section of Caltrain District 760-966-6559 phone on 7/10/12 10/1/12 CaltrainPTC The mailed Bill.Bronte@dot.ca.gov in rail section of Caltrain District 760-966-6559 phone on 7/10/12 10/1/12 CaltrainPTC The mailed Bill.Bronte@dot.ca.gov in rail section of Caltrain District 760-966-6559 phone on 7/10/12 10/1/12 CaltrainPTC The mailed Bill.Bronte@dot.ca.gov in rail section of Caltrain District 760-966-6559 phone on 7/10/12 10/1/12 CaltrainPTC The mailed Bill.Bronte@dot.ca.gov in rail section of Caltrain District 760-966-6559 phone on 7/10/12 10/1/12 CaltrainPTC The mailed Bill.Bronte@dot.ca.gov in rail section of Caltrain District 760-966-6559 phone on 7/10/12 10/1/12 CaltrainPTC The mailed Bill.Bronte@dot.ca.gov in rail section of Caltrain District 760-966-6559 phone on 7/10/12 10/1/12 CaltrainPTC The mailed Bill.Bronte@dot.ca.gov in rail section of Caltrain District 760-966-6559 phone on 7/10/12 10/1/12 CaltrainPTC The mailed Bill.Bronte@dot.ca.gov in rail section of Caltrain District 760-966-6559 phone on 7/10/12 10/1/12 CaltrainPTC 10/1/12 Caltrain District 760-966-6559 phone on 7/10/12 10/1/12 Caltrain District 760-966-6559		The Peninsula Corridor Joint Powers Board owns and manages Caltrain. The JPB is a partnership among the San Mateo County Transit District, the Santa Clara Valley Transportation Authority and the City and County of San Francisco through the San Francisco Municipal Transportation Agency. SamTrans is the managing partner. Sent email to caltrainptc.com	
С	Metrolink	Joe Zerzan Graduros cor Southern California Regional Rail Authority (SCRRA) Joe Zerzan at Railpros	Los Angeles	Bruce Hartwell, Chief Information Officer Darrell Maxey, Director PTC, C7S Systems Contractor: Parsons Michelle Chovan Office Engineer/Document Control Metrolink PTC 10801 6th Street, Suite 115 Rancho Cucamonga, CA 91730 909.579.3881 - Office 626.993.8345 - Cell michelle.chovan@railpros.com www.railpros.com She emailed 6/11/12 to contact Joe.Zerzan@railpros.com	Administrative Office Physical Address: Metrolink One Gateway Plaza, 12th Floor Los Angeles, CA 90012 Phone: (213) 452- 0200 Fax: (213) 452-0429 Contacted RailPros by email asking for rep. of SCRRA. 6-7- 12
	Regional Rail, Silverliner (SEPTA)	Sent email to jdockendor at penn dot public transportation urban transportation chief	Philadelphia, PA	SEPTA Assistant General Manager and Chief Engineer Jeffrey Knueppel	Contractor: \$100 million,

Southeastern Pa. Public Transit	Also sent inquiry through online SEPTA inquiry page. Mr. Luther Diggs is Assistant General		SEPTA Customer Service at	Ansaldo STS USA
Authority	Manager for Operations 7/16 received email that request was		(215) 580-7800.	\$1.7 million
	forwarded from online contact us in customer serv.		Contacted ccassidy@pa.gov	contract for related
	8/16 contacted Penn DOT executive staff info		6/13/12	right-of-way work to
	email from website. Sent email to Mr. Robert Sharp			Douglassville, Pa
	Bureau of Public Transportation		Richard Maloney Director of Public Affairs	based
	P. O. Box 3151 Harrisburg, PA 17105-3151		(215) 580-7403 Telephone Email Richard Maloney	Independence
	rosharp@pa.gov		sent 6/7/12	Constructors Corp.
	717-783-9461 asking for SEPTA contact: verified 8/17/12 Mike Monastero by phone			SEPTA's capital
	mmonstero@septatorg			budget already is
				financially stressed
				having borrowed
MBTA Massachusetts	7/20 sent email through contact link on MassDOT home page. Looking for Richard A.	Boston, MA	Director of System Safety	Massachusetts Bay Commuter Railroad
Bay Transportation	Davey.	203(011), 1417 (MBTA General Manager	Company, LLC, to
Authority	8/16 contacted info email for MBTA Advisory		Richard Davey	support the MBTA
	Board. 8/24 contacted Robert.Johnson@mbcr.net who			with preliminary engineering effort
	is listed as Chief of Engineering Operations for			for the
	the Massachusetts Bay Railroad Company,			implementation of
	operator of the MBTA commuter rail system.			the system-wide
	He responded that I needed to speak with			Positive Train
	Steve Mudge from the MBTA at			Control system
	Smudge@mbcr.com			required by the Rai
	Sent email to Mudge on 8/24 returned undeliverable. Found out on 9/5 that Mudge			Safety Improvement Act, for an amount
	retired recently. Left voice mail for Ann Cass his			not to exceed
	assistant at 617.222.4328			\$1,570,837.75.

		Steven Jones (interim manager) 617.222.6400 sxjones@mbta.com email sent 9/5/12 from Bill Craventry Stephen Jones, Deputy Director of RailRoad Operations sjones@mbta.com 617-222-6400 10/4 sent email to sjones			RM engineering— Green Line PTC study
	METRA Northeast Illinois Regional Commuter Railroad, better known as Metra	Capital Projects (312) 542-8378 8/24 left message on this #	Chicago, IL	Capital Capital (312) Project 542- s 8378 Capital project status updates (Station & parking projects).	George Hardwidge, Dep Dir Operations?
	Metro-North New York Metropolitan Transit Authority (MTA) Long Island Railroad/Metro North Railroad, New York	(212) 532-4900 information	NYC, NY	Request sent 6/8/12 to NYDOT Rail Section for names at Metro North and Long Island Railroads	SYSTRA is a pioneer in the application of Systems Engineering practices to the transit industry.
С	RiverLINE, New Jersey Transit	Paul Stangas PStangas@njtransit.com Received email 10/16 from J Peppers to send survey to RAndresk@ntransit.com New Jersey TRANSIT's Rail Chief of Staff	Trenton, NJ	research.bureau@dot.state.nj. us emailed 6/8/12 rec 6/11/12 PStangas@njtransit.com	Please direct this request to Richard Andreski, Chief of Staff, NJ TRANSIT Rail. RAndreski@njtransit.com; GCannon@njtransit.com Rec from G Cannon: direct to
	Long Island Railroad, Metropolitan Transit		NYC, NY	See METRO North above	SYSTRA is a pioneer in the application of

Authority (MTA)		Systems Engineering
		practices to the
		transit industry.

Federal Rail Administration PTC contacts:

Mr. Thomas McFarlin, FRA Staff Director, Signal and Train Control Division (202) 493-6203

Mr. Robert Scieszinski, PTC Branch Chief (360) 883-5811.

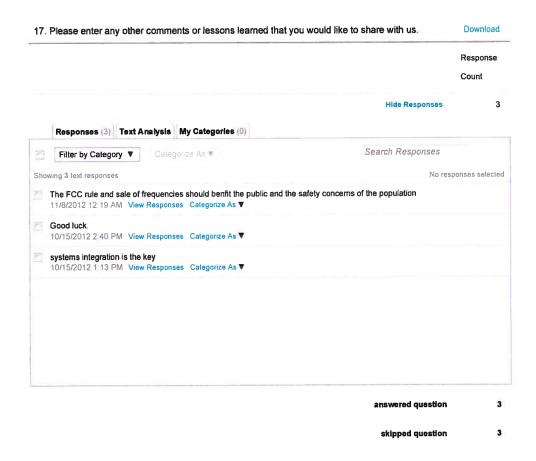
DrEstelle Sign Out Help + Create Survey Home My Surveys **Survey Services** Plans & Pricing **Positive Train Control and Selected Commuter Rail Systems Industry Specific** Design Survey **Collect Responses Analyze Results View Summary** All Responses - Edit Report **Browse Responses** Total Started Survey: 6 Response Summary for "All Responses" Filter Responses Total Finished Survey: 6 (100%) **Crosstab Responses** PAGE: IMPLEMENTATION OF POSITIVE TRAIN CONTROL FOR SELECTED COMMUTER RAIL SYSTEMS **Download Responses** 1. Please complete the following contact information. Download **Share Responses** Response Response Percent Count Your Name: 100.0% 6 **Show Responses** Rail System: 100.0% **Show Responses** Address: 100.0% 6 Show Responses Address 2: Show Responses 16.7% City/Town: 100.0% **Show Responses** State: 100.0% **Show Responses** ZIP: 100.0% **Show Responses** Email Address: 100.0% **Show Responses Phone Number:** 100.0% answered question skipped question 2. What is the maximum number of daily scheduled passenger trains in your commuter rail service? Download Response Count **Show Responses** answered question skipped question

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l. If other operators run on these lines, what is the maximum number of daily s	scheduled passenger	Downlo
rains that these operators provide?		
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5. Which of the following best describes your commuter rail system?	Create Chart	
	Response Percent	Respons
standalone authority or agency	·	
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6. Check all of the following that describe your commuter rail system:	Create Chart	Download
one of the above	16.7%	1
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	answered question	
	skipped question	O
7. Where will you have to install PTC? (Check all that apply)	Create Chart	Download
	Response	Response
	Percent	Count
wayside	66.7%	4
ocomotives	100.0%	•
dispatch or control center	66.7%	4
none of the above	0.0%	C
	Other (please specify) Show Responses	2
	answered question	
	skipped question	0
Have you applied for or received an exception from PTC?	Response	Response
	Percent	Count
not applied	66.7%	
applied, pending	16.7%	
applied, received	16.7%	1
applied, rejected	0.0%	
	Other (please specify) Show Responses	
	answered question	9
	skipped question	0
What is the current cost estimate to design and implement PTC in your		Download
What is the current cost estimate to design and implement PTC in your		Download
What is the current cost estimate to design and implement PTC in your		
9. What is the current cost estimate to design and implement PTC in your		Response
9. What is the current cost estimate to design and implement PTC in your	commuter rail system?	Response

	answered question	
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0. How will you fund PTC (list all sources and amounts)?		Downloa
		Respons
		Count
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Will the planned funding methods impact your agency's ability to fund other ritical rail safety needs or projects?	Create Chart	Downloa
	Response	Response
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es	60.0%	
0	20.0%	
ot applicable	20.0%	
	answered question	
	skipped question	
Will the planned funding method impact your agency's ability to fund critical ighway projects?	Create Chart	Downloa
Will the planned funding method impact your agency's ability to fund critical ighway projects?	Create Chart Response	
Will the planned funding method impact your agency's ability to fund critical ighway projects?		Downloa
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al	nswered question	
	skipped question	
14. List any PTC contractors you have used.		Downloa
		Respons Count
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at	nswered question	
	skipped question	
13, 2015 deadline for installing PTC?	Create Chart	Downloa
31, 2015 deadline for installing PTC?	Response Percent	Respons Count
31, 2015 deadline for installing PTC?	Response	Respons
781, 2015 deadline for installing PTC?	Response Percent	Respons
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781, 2015 deadline for installing PTC? Foreign State PTC PTC	Response Percent 60.0% 20.0% 20.0% 0.0%	Respons
rery omewhat ot at all ot applicable ar 6. List the major obstacles you face in meeting the PTC deadline and any solutions	Response Percent 60.0% 20.0% 20.0% 0.0% aswered question skipped question	Respons
76. List the major obstacles you face in meeting the PTC deadline and any solutions	Response Percent 60.0% 20.0% 20.0% 0.0% aswered question skipped question	Respons
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16. List the major obstacles you face in meeting the PTC deadline and any solutions ound.	Response Percent 60.0% 20.0% 20.0% 0.0% nswered question skipped question s you have	Response Count Downloa Response Count



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Daplaying 1 of 8 respondents osstab Responses pownload Responses Response Type: Normal Response Response Starte: Pownload Response Response Starte: Response Response 1. Please complete the following contact information. Your Name: Jobe Zarzan Response Starte: Response Resp	ew Summary	All Responses	
Responses According Responses Name: Name: Name: Name: Name: Name: Name: Notices PTC Survey Consult PTC Survey PP Address: PP Address: PP Address: PP Address: Nordey, October 15, 2012 12 03 53 PM Mondey, October 16, 2012 12 13 27 PM 1, Please complete the following contact information. Your Name: - Joe Zerzan Real System: - SCRRA (Metchink Los Angeles) Address: - 10801 Starts St set 115 Cly/Town - Rancho Cuemonge State: - CA ZIP - 91730 Email Address: - Joe zerzan@relpros com Phone Number: - 925-989-1959 2. What is the maximum number of daily scheduled passenger trains in your commuter rail 152 3. Do other passenger train operators (e.g. Amtrak) run on these same lines? yes 4. If other operators run on these lines, what is the maximum number of daily scheduled parains that these operators provide? 36 5. Which of the following best describes your commuter rail system? standarone authority or agency 6. Check all of the following that describe your commuter rail system: own part or all of the real line on which we operate daparich the rail line on which we operate daparich the rail line on which we operate 7. Where will you have to install PTC? (Check all that apply) wayside locomolives dispatch or control center	rowse Responses		
Responses Response Circular PTC Survey (Circular PTC Survey) (Circular PTC Survey) Response	Iter Responses	Displaying 1 of 6 respondents	
Collector: Commal Responses Name Responses Name Responses Name Responses Email:			
Email: po zerzan@raipros.com empty Custom Value: pa Address: empty 207 8 1 12 Response Started: Response Modified: Response Modified: Monday, October 15, 2012 12 03 53 PM Response Modified: Monday, October 15, 2012 12 03 53 PM Response Modified: Monday, October 15, 2012 12 13 27 PM 1. Please complete the following contact information. Your Name - Joe Zerzan Ral System - SCRRA (Mercinix Los Angeles) Address - 10801 Sixth St sle 115 Cly/Town - Rancho Cucamonga State: - CA ZIP - 91730 Email Address - Joe zerzan@raipros.com Phone Number - 925-889-1959 2. What is the maximum number of daily scheduled passenger trains in your commuter rail 102 3. Do other passenger train operators (e.g. Amtrak) run on these same lines? yes 4. If other operators run on these lines, what is the maximum number of daily scheduled patrains that these operators provide? 38 5. Which of the following best describes your commuter rail system? standalone authority or agency 6. Check all of the following that describe your commuter rail system: own part or all of the rail line on which we operate dispatch the rail line on which we operate dispatch the rail line on which we operate dispatch for control certifer.			
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Custom Value: empty 207 8 1 12 Response Started: Monday, October 15, 2012 12 03 53 PM 1. Please complete the following contact information. Your Name - Jee Zarzan Rail System - SCRRA (Metroink Los Angeles) Address - 10801 Sixth St ste 115 Clip/Town - Rancho Cusemongs State - CA ZiP - 91730 Email Address - joe zerzan@relipros com Phone Number - 925-986-1959 2. What is the maximum number of daily scheduled passenger trains in your commuter rail 162 3. Do other passenger train operators (e.g. Amtrak) run on these same linea? yes 4. If other operators run on these lines, what is the maximum number of daily scheduled passenger trains that these operators provide? 8. Which of the following best describes your commuter rail system? standaione authority or agency 6. Check all of the following that describe your commuter rail system: own part or all of the rail line on which we operate dispatch the rail line on which we operate dispatch the rail line on which we operate 17. Where will you have to install PTC? (Check all that apply) weyside locomolives dispatch or control certer	hare Responses		
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1. Please complete the following contact information. Your Name - Joe Zerzan Rail System - SCRRA (Metroink Los Angeles) Address - 10801 Sixth St ste 115 City/Town - Rancho Cucamonga State: - CA ZIP - 91730 Email Address - joe zerzan@railpros.com Phone Number - 925-889-1959 2. What is the maximum number of daily scheduled passenger trains in your commuter rail 102 3. Do other passenger train operators (e.g. Amtrak) run on these same lines? yes 4. If other operators run on these lines, what is the maximum number of daily scheduled parains that these operators provide? 38 5. Which of the following best describes your commuter rail system? standelone authority or agency 6. Check all of the following that describe your commuter rail system: own part or all of the rail line on which we operate dispatch the rail line on which we operate 7. Where will you have to install PTC? (Check all that apply) wayside locomolives dispatch or control center		empty	207.8.1.12
Your Name - Joe Zerzan Rail System - SCRRA (Metroink Los Angeles) Address - 10801 Sixth St lat 115 City/Town - Rancho Cucamonge State - CA ZIP - 91730 Email Address - joe zerzan@railpros.com Phone Number - 925-989-1959 2. What is the maximum number of daily scheduled passenger trains in your commuter rail 162 3. Do other passenger train operators (e.g. Amtrak) run on these same lines? yes 4. If other operators run on these lines, what is the maximum number of daily scheduled parains that these operators provide? 38 5. Which of the following best describes your commuter rail system? standaione authority or agency 6. Check all of the following that describe your commuter rail system: own part or all of the rail line on which we operate dispatch the rail line on which we operate dispatch the rail line on which we operate dispatch or control center			
Your Name - Joe Zerzen Rail System: - SCRRA (Metroink Los Angeles) Address: - 10801 Sixth St ste 1 15 City/Town - Rancho Cucamongs State: - CA ZIP - 91730 Email Address: - joe zerzen@railpros.com Phone Number - 925-989-1959 2. What is the maximum number of daily scheduled passenger trains in your commuter rail 162 3. Do other passenger train operators (e.g. Amtrak) run on these same lines? yes 4. If other operators run on these lines, what is the maximum number of daily scheduled partians that these operators provide? 38 5. Which of the following best describes your commuter rail system? standsione authority or agency 6. Check all of the following that describe your commuter rail system: own part or all of the rail line on which we operate dispatch the rail line on which we operate 7. Where will you have to install PTC? (Check all that apply) wayside locomotives dispatch or control center			
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5. Which of the following best describes your commuter rail system? standalone authority or agency 6. Check all of the following that describe your commuter rail system: own part or all of the rail line on which we operate dispatch the rail line on which we operate 7. Where will you have to install PTC? (Check all that apply) wayside locomotives dispatch or control center		,	
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6. Check all of the following that describe your commuter rail system: own part or all of the rail line on which we operate dispatch the rail line on which we operate 7. Where will you have to install PTC? (Check all that apply) wayside locomotives dispatch or control center		38	
6. Check all of the following that describe your commuter rail system: own part or all of the rail line on which we operate dispatch the rail line on which we operate 7. Where will you have to install PTC? (Check all that apply) wayside locomotives dispatch or control center			
6. Check all of the following that describe your commuter rail system: own part or all of the rail line on which we operate dispatch the rail line on which we operate 7. Where will you have to install PTC? (Check all that apply) wayside locomotives dispatch or control center		5. Which of the following best descri	bes your commuter rail system?
own part or all of the rail line on which we operate dispatch the rail line on which we operate 7. Where will you have to install PTC? (Check all that apply) wayside locomotives dispatch or control center		standalone authority or agency	
7. Where will you have to install PTC? (Check all that apply) wayside locomotives dispatch or control center		6. Check all of the following that des	cribe your commuter rail system:
7. Where will you have to install PTC? (Check all that apply) wayside locomotives dispatch or control center			
wayside locomotives dispatch or control center			ale
locomotives dispatch or control center		own part or all of the rail line on which we open	ate
locomotives dispatch or control center		own part or all of the rail line on which we oper dispatch the rail line on which we operate	
		own part or all of the rail line on which we open dispatch the rail line on which we operate 7. Where will you have to install PTC	
8. Have you applied for or received an exception from PTC?		own part or all of the rail line on which we open dispatch the rail line on which we operate 7. Where will you have to install PTC wayside	
8. Have you applied for or received an exception from PTC?		own part or all of the rail line on which we operate dispatch the rail line on which we operate 7. Where will you have to install PTC wayside locomotives	
		own part or all of the rail line on which we operate dispatch the rail line on which we operate 7. Where will you have to install PTC wayside locomotives	
not applied		own part or all of the rail line on which we operate dispatch the rail line on which we operate 7. Where will you have to install PTC wayside locomotives dispatch or control center	? (Check all that apply)

9. What is the current cost estimate to design and implement PTC in your commuter rail	system?
\$210,000,000	
10. How will you fund PTC (list all sources and amounts)?	
Over 20 grants	
11. Will the planned funding methods impact your agency's ability to fund other critical needs or projects?	rail sa fet y
yes	
12. Will the planned funding method impact your agency's ability to fund critical highwa	y projects?
not applicable	
13. Describe your agency's progress in implementing PTC (planning, design, constructic certification, full implementation). Under construction. Target date September 2013	on, testing,
14. List any PTC contractors you have used.	
Parsons, Mass Electric	
15. How confident are you that your commuter rail system will meet the December 31, 2 for installing PTC?	015 deadline
very	
16. List the major obstacles you face in meeting the PTC deadline and any solutions you found.	u have
emerging technology and proceeding with construction.	
17. Please enter any other comments or lessons learned that you would like to share wi	th us.
systems integration is the key	

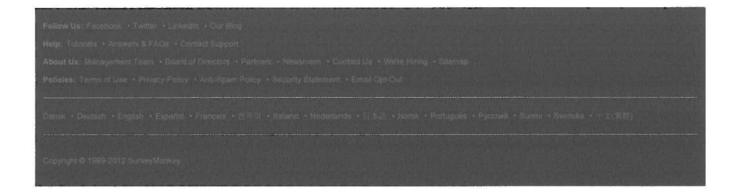
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			Design Survey	Collect Responses	Analyze R
ew Summary	All Responses 🕶				
rowse Responses					
ilter Responses	Displaying 2 of 6 respondents				
rosstab Responses	,				
ownload Responses	Response Type:	Collector:			
	Normal Response	Official PTC Survey (Email Invitation)			
hare Responses	Email:	Name:			
	pstangas@njtransit com Custom Value:	empty IP Address:			
	empty Standards	198,177,1,25			
	Response Started: Monday, October 15, 2012 12:24:55 PM	Response Modified Monday, October 15		1	
	4. Places severalete the fallowing several				
	1. Please complete the following conf	act information.			
	Rail System: - NJ Transit				
	Address: - Capital Planning & Programs				
	Address 2: - 1 Penn Plaza				
	City/Town: - Newark				
	State - NJ				
	ZIP: - 07105				
	Email Address: - cnlrpxs@njtransit com				
	Phone Number: - 973.491.8530				
	3. Do other passenger train operators	(e.g. Amtrak) run on ti	hese same line:	s?	
	yes				
	4. If other operators run on these line	s, what is the maximur	n number of da	ilv scheduled passi	enger
	trains that these operators provide?	-,			
	No Response				
	5. Which of the following best describ	es your commuter rail	system?		
	standalone authority or agency				
	6. Check all of the following that desc	ribe your commuter ra	il system:		
	6. Check all of the following that desco		il system:		
			il system:		
	own part or all of the rail line on which we opera	te	il system:		
	own part or all of the rail line on which we operad dispatch the rail line on which we operate	te	il system:		
	own part or all of the rail line on which we operadispatch the rail line on which we operate 7. Where will you have to install PTC?	te	il system:		
	own part or all of the rail line on which we operad dispatch the rail line on which we operate 7. Where will you have to install PTC? wayside	te	il system:		
	own part or all of the rail line on which we operate dispatch the rail line on which we operate 7. Where will you have to install PTC? wayside locomotives dispatch or control center	te (Check all that apply)			
	own part or all of the rail line on which we operate dispatch the rail line on which we operate 7. Where will you have to install PTC? wayside locomotives	te (Check all that apply)			

3225 M
10. How will you fund PTC (list all sources and amounts)?
State Funds
11. Will the planned funding methods impact your agency's ability to fund other critical rail safety needs or projects?
No Response
12. Will the planned funding method impact your agency's ability to fund critical highway project
res
14. List any PTC contractors you have used.
Parsons, Alstom, WABTEC
Parsons, Alstom, WABTEC 15. How confident are you that your commuter rail system will meet the December 31, 2015 deadl
Parsons, Alstom, WABTEC 15. How confident are you that your commuter rail system will meet the December 31, 2015 deadle for installing PTC?
Parsons, Alstom. WABTEC 15. How confident are you that your commuter rail system will meet the December 31, 2015 deadle for installing PTC? not at all 16. List the major obstacles you face in meeting the PTC deadline and any solutions you have
Parsons, Alstom, WABTEC 15. How confident are you that your commuter rail system will meet the December 31, 2015 deadle for installing PTC? not at all 16. List the major obstacles you face in meeting the PTC deadline and any solutions you have found.



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iew Summary	All Responses 💌				
Browse Responses					
Filter Responses	Displaying 3 of 6 respondents				
Crosstab Responses					
Download Responses	Response Type:	Collector:			
	Normal Response	Official PTC Survey (Email Invitation)			
Share Responses	Email: jhovatter1@mta.maryland.gov	Name: empty			
	Custom Value:	IP Address:			
	empty	170.93.140.42 Response Modified			
	Response Started: Monday, October 15, 2012 1:30:27 PM	Monday October 15			
	1. Please complete the following con	tact information.			
	Your Name: - john hovatter				
	Rail System: - marc				
	Address: - 1515 washington blvd				
	City/Town: - baltimore				
	State: - MD				
	ZIP: - 21230				
	Email Address - jhovatter1@mta maryland gov	<i>'</i>			
	Phone Number: - 4104547265				
	2. What is the maximum number of d	aily scheduled passen	ger trains in you	ur commuter rail se	rvice?
	3. Do other passenger train operators	39			rvice?
	94	39			rvice?
	3. Do other passenger train operators	s (e.g. Amtrak) run on t	hese same line	s?	
	3. Do other passenger train operators yes 4. If other operators run on these line	s (e.g. Amtrak) run on t	hese same line	s?	
	3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide?	s (e.g. Amtrak) run on t	hese same line	s?	
	3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide?	s (e.g. Amtrak) run on t	hese same line m number of da	s?	
	3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide?	s (e.g. Amtrak) run on t	hese same line m number of da	s?	
	3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide? lots 5. Which of the following best descri	s (e.g. Amtrak) run on t	hese same line m number of da	s?	
	3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide? lots 5. Which of the following best descripant of a state department of transportation	s (e.g. Amtrak) run on the ses, what is the maximum bes your commuter raince the ses your commuter raince the your commuter raince t	hese same line m number of da	s?	
	3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide? lots 5. Which of the following best descripart of a state department of transportation 6. Check all of the following that descripant of the following that description	s (e.g. Amtrak) run on the ses, what is the maximum bes your commuter raince the ses your commuter raince the your commuter raince t	hese same line m number of da	s?	
	3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide? lots 5. Which of the following best descripart of a state department of transportation 6. Check all of the following that descon part or all of the rail line on which we operators	s (e.g. Amtrak) run on the ses, what is the maximum bes your commuter rainceribe your commuter rainceribe your commuter rainceribe.	hese same line m number of da i system?	s?	
	3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide? lots 5. Which of the following best descripart of a state department of transportation 6. Check all of the following that descorn part or all of the rail line on which we operate 202 miles and own 3.2 miles.	s (e.g. Amtrak) run on the ses, what is the maximum bes your commuter rainceribe your commuter rainceribe your commuter rainceribe.	hese same line m number of da i system?	s?	
	3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide? lots 5. Which of the following best descri part of a state department of transportation 6. Check all of the following that descound part or all of the rail line on which we operate 202 miles and own 3.2 miles. 7. Where will you have to install PTC	s (e.g. Amtrak) run on the ses, what is the maximum bes your commuter rainted to the second s	hese same line m number of da i system?	s?	
	3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide? lots 5. Which of the following best descri part of a state department of transportation 6. Check all of the following that descound part or all of the rail line on which we operate 202 miles and own 3.2 miles. 7. Where will you have to install PTC locomotives	s (e.g. Amtrak) run on the ses, what is the maximum bes your commuter rained beson and the server are server.	hese same line m number of da i system?	s?	
	3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide? lots 5. Which of the following best descri part of a state department of transportation 6. Check all of the following that descound part or all of the rail line on which we operate we operate 202 miles and own 3.2 miles. 7. Where will you have to install PTC locomotives Cab cars also. We will have to build our own be	s (e.g. Amtrak) run on the ses, what is the maximum bes your commuter rained beson and the server are server.	hese same line m number of da i system?	s?	

9. What is the current cost estimate to design and implement PTC in your commuter rail	system?
5 12 to 15 m.	
10. How will you fund PTC (list all sources and amounts)?	
State funding.	
11. Will the planned funding methods impact your agency's ability to fund other critical reeds or projects?	ail safety
yes	
12. Will the planned funding method impact your agency's ability to fund critical highway	y projects?
not applicable	
14. List any PTC contractors you have used.	
Wabtec.	
15. How confident are you that your commuter rail system will meet the December 31, 20 for installing PTC?)15 deadline
very	
16. List the major obstacles you face in meeting the PTC deadline and any solutions you found.	ı have
Our major obstacle, is whether Amtrak and CSX will be ready with wayside.	
17. Please enter any other comments or lessons learned that you would like to share wit	th us.
Good luck	

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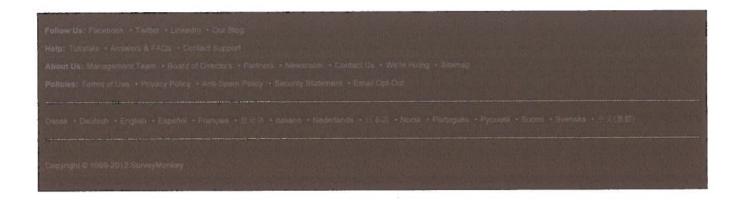
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try Specific					
w Summary	All Responses 💌				
wse Responses					
er Responses	Displaying 4 of 6 respondents				
sstab Responses					
	Response Type:	Collector:			
wnload Responses	Normal Response	Official PTC Survey (Email Invitation)			
are Responses	Email:	Name:			
	brian@acerail.com Custom Value:	empty IP Address:			
	empty	206.211.211.235			
	Response Started:	Response Modified Tuesday, October 16		.a	
	Tuesday, October 16, 2012 12:43:10 PM	radaday, odober re	, 2012 12 10 00 1	•	
	Please complete the following contact	act information.			
	Your Name: - Brian Schmidt				
	Rail System: - Altamont Commuter Express				
	Address: - 949 E. Channel Street				
	City/Town: - Stockton				
	State: - CA				
	ZIP: - 95202				
	Email Address: - brian@acerail.com				
	2. What is the maximum number of da				ervice?
	2. What is the maximum number of da 8 3. Do other passenger train operators				ervice?
	2. What is the maximum number of da				ervice?
	2. What is the maximum number of da 8 3. Do other passenger train operators	(e.g. Amtrak) run on t	hese same line	s?	
	2. What is the maximum number of da 8 3. Do other passenger train operators 10 4. If other operators run on these lines	(e.g. Amtrak) run on t	hese same line	s?	
	2. What is the maximum number of da 8 3. Do other passenger train operators 10 4. If other operators run on these lines trains that these operators provide? No Response	(e.g. Amtrak) run on t	hese same line m number of da	s?	
	2. What is the maximum number of da 8 3. Do other passenger train operators 10 4. If other operators run on these lines trains that these operators provide?	(e.g. Amtrak) run on t	hese same line m number of da	s?	
	2. What is the maximum number of da 8 3. Do other passenger train operators 10 4. If other operators run on these lines trains that these operators provide? No Response 5. Which of the following best describ	(e.g. Amtrak) run on (hese same line m number of da	s?	
	2. What is the maximum number of da 8 3. Do other passenger train operators 1. If other operators run on these linestrains that these operators provide? No Response 5. Which of the following best describstandalone authority or agency	(e.g. Amtrak) run on (hese same line m number of da	s?	
	2. What is the maximum number of da 8 3. Do other passenger train operators 10 4. If other operators run on these linestrains that these operators provide? No Response 5. Which of the following best describ standalone authority or agency 6. Check all of the following that describes	(e.g. Amtrak) run on (hese same line m number of da	s?	
	2. What is the maximum number of da 8 3. Do other passenger train operators 10 4. If other operators run on these lines trains that these operators provide? No Response 5. Which of the following best describ standalone authority or agency 6. Check all of the following that describe one of the above	(e.g. Amtrak) run on to the second se	hese same line m number of da l system?	s?	
	2. What is the maximum number of da 8 3. Do other passenger train operators 10 4. If other operators run on these lines trains that these operators provide? No Response 5. Which of the following best describ standalone authority or agency 6. Check all of the following that describe one of the above 7. Where will you have to install PTC?	(e.g. Amtrak) run on to the state of the sta	hese same line m number of da l system?	s?	
	2. What is the maximum number of da 8 3. Do other passenger train operators 10 4. If other operators run on these lines trains that these operators provide? No Response 5. Which of the following best describ standalone authority or agency 6. Check all of the following that describe one of the above	(e.g. Amtrak) run on to the state of the sta	hese same line m number of da l system?	s?	
	2. What is the maximum number of da 8 3. Do other passenger train operators 10 4. If other operators run on these lines trains that these operators provide? No Response 5. Which of the following best describ standalone authority or agency 6. Check all of the following that describe one of the above 7. Where will you have to install PTC?	(e.g. Amtrak) run on (hese same line m number of da il system?	s?	
	2. What is the maximum number of da 8 3. Do other passenger train operators 10 4. If other operators run on these lines trains that these operators provide? No Response 5. Which of the following best describ standalone authority or agency 6. Check all of the following that describe none of the above 7. Where will you have to install PTC? locomotives Cab cars	(e.g. Amtrak) run on (hese same line m number of da il system?	s?	

9. What is the current cost estimate to design and implement PTC in your commuter rail system?

	nit
10. How will you fund PTC (list a	ill sources and amounts)?
State of California safety and security fun	ding and local sales tax funds.
11. Will the planned funding met needs or projects?	thods impact your agency's ability to fund other critical rail safety
no	
12. Will the planned funding met	thod impact your agency's ability to fund critical highway projects?
not applicable	
certification, full implementation We are waiting for information from the U	PRR on the system to be implemented. We are currently working with other rail
operator that use bombardier rail cars are	d MPI locomotives to determine locations for hte PTC equipment.
14. List any PTC contractors you	
14. List any PTC contractors you	ս have used.
14. List any PTC contractors you No Response 15. How confident are you that y	u have used.
14. List any PTC contractors you No Response 15. How confident are you that y for installing PTC? No Response	ս have used.
14. List any PTC contractors you No Response 15. How confident are you that y for installing PTC? No Response 16. List the major obstacles you	u have used. your commuter rail system will meet the December 31, 2015 deadline
14. List any PTC contractors you No Response 15. How confident are you that y for installing PTC? No Response 16. List the major obstacles you found. interoperatibility	u have used. your commuter rail system will meet the December 31, 2015 deadline



stry Specific			Design Survey	Collect Responses	Analyze Res
ew Summary	All Responses 💌				
rowse Responses					
Iter Responses	Displaying 5 of 6 respondents				
rosstab Responses					
· ·	Response Type:	Collector:			
ownload Responses	Normal Response	Official PTC Survey (Email Invitation)			
nare Responses	Email:	Name:			
	caltrainptc@samtrans.com Custom Value:	empty IP Address:			
	empty	209.78.42.254			
	Response Started: Tuesday, October 30, 2012 4:56:53 PM	Response Modified Tuesday, October 30			
	1. Please complete the following cont	act information.			
	Your Name: - Jack Buckingham				
	Rail System: - Caltrain				
	Address: - 799 7th Street				
	City/Town - San Francisco				
	State: - CA				
	ZIP: - 94107				
	Email Address: - buckinghamj@samtrans.com				
	m/				
	2. What is the maximum number of days				ervice?
	2. What is the maximum number of days3. Do other passenger train operators				ervice?
	2. What is the maximum number of days				orvice?
	2. What is the maximum number of days3. Do other passenger train operators	: (e.g. Amtrak) run on t	hese same line	s?	
	2. What is the maximum number of degrees 3. Do other passenger train operators yes 4. If other operators run on these line	: (e.g. Amtrak) run on t	hese same line	s?	
	2. What is the maximum number of days 3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide?	s (e.g. Amtrak) run on t	hese same line m number of da	s?	
	2. What is the maximum number of days 3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide? approximately 20	s (e.g. Amtrak) run on t s, what is the maximum	hese same line m number of da	s?	
	2. What is the maximum number of descriptions 3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide? approximately 20 5. Which of the following best descriptions	s (e.g. Amtrak) run on t s, what is the maximum ses your commuter rai	hese same line m number of da l system?	s?	
	2. What is the maximum number of december of december 1 3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide? approximately 20 5. Which of the following best described to the second of a regional transit agency or authorized.	s (e.g. Amtrak) run on to s, what is the maximum pes your commuter rai	hese same line m number of da l system?	s?	
	2. What is the maximum number of days 3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide? approximately 20 5. Which of the following best described component of a regional transit agency or authority. 6. Check all of the following that described are seen to the second component of a regional transit agency or authority.	s (e.g. Amtrak) run on to s, what is the maximum pes your commuter rai	hese same line m number of da l system?	s?	
	2. What is the maximum number of days 3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide? approximately 20 5. Which of the following best described component of a regional transit agency or authors. 6. Check all of the following that described own part or all of the rail line on which we operate.	s (e.g. Amtrak) run on to s, what is the maximum does your commuter rain prity	hese same line m number of da I system?	s?	
	2. What is the maximum number of despite the state of the rail line on which we operate dispatch the rail line on which we operate dispatch the rail line on which we operate dispatch the rail line on which we operate	s (e.g. Amtrak) run on to s, what is the maximum does your commuter rain prity	hese same line m number of da I system?	s?	
	2. What is the maximum number of december of december 1 3. Do other passenger train operators yes 4. If other operators run on these line trains that these operators provide? approximately 20 5. Which of the following best described component of a regional transit agency or authors. 6. Check all of the following that described own part or all of the rail line on which we operate 1. Where will you have to install PTC.	s (e.g. Amtrak) run on to s, what is the maximum does your commuter rain prity	hese same line m number of da I system?	s?	
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	onse
10. Ho	w will you fund PTC (list all sources and amounts)?
No Resp	onse
	I the planned funding methods impact your agency's ability to fund other critical rail safet or projects?
not applic	able
12. Wil	I the planned funding method impact your agency's ability to fund critical highway project
not appli	able
design pl	MARK.
14. Lis	t any PTC contractors you have used.
Parson T	
Parson T solution	t any PTC contractors you have used. Transportation Group (PTG) is the prime contractor who also is the systems integrator providing a turnkey
Parson T solution	t any PTC contractors you have used. Transportation Group (PTG) is the prime contractor who also is the systems integrator providing a turnkey GE Global Signals, WABTEC and ARINC are just 3 of PTG' subcontractors. We confident are you that your commuter rail system will meet the December 31, 2015 dead
Parson T solution. 15. Ho for ins	t any PTC contractors you have used. Transportation Group (PTG) is the prime contractor who also is the systems integrator providing a turnkey GE Global Signals, WABTEC and ARINC are just 3 of PTG' subcontractors. We confident are you that your commuter rail system will meet the December 31, 2015 dead talling PTC?
Parson T solution 15. Ho for ins very	t any PTC contractors you have used. Transportation Group (PTG) is the prime contractor who also is the systems integrator providing a turnkey GE Global Signals, WABTEC and ARINC are just 3 of PTG' subcontractors. We confident are you that your commuter rail system will meet the December 31, 2015 dead talling PTC?
Parson T solution. 15. Ho for ins very 16. Lis found. Software	t any PTC contractors you have used. Transportation Group (PTG) is the prime contractor who also is the systems integrator providing a turnkey GE Global Signals, WABTEC and ARINC are just 3 of PTG' subcontractors. We confident are you that your commuter rail system will meet the December 31, 2015 dead talling PTC?



ew Summary	All Responses 💌				
owse Responses					
ter Responses	Displaying 6 of 6 respondents				
osstab Responses					
wnload Responses	Response Type: Normal Response	Collector: Official PTC Survey (Email Invitation)			
are Responses	Email:	Name:			
	stephen.szegedy@ct.gov Custom Value:	empty IP Address:			
	empty	159 247 3 210			
	Response Started: Thursday, November 8, 2012 11:40:36 AM	Response Modified Thursday, November		PM	
	1. Places complete the following contact	st information			
	1. Please complete the following contact	st information.			
	Your Name: - Stephen Szegedy	DOT			
	Rail System: - Metro-North RR New Haven Line, C Address: - 2800 Berlin Tumpike	COUNDO!			
	City/Town: - Newington				
	State: - CT				
	ZIP: - 06111				
	Email Address: - stephen.szegedy@ct.gov				
	Phone Number 860-594-2897				
	2. What is the maximum number of daily 289, Metro North RR / 26, Shore line East Trains				rvice?
	289, Metro North RR / 26, Shore line East Trains 3. Do other passenger train operators (c				rvice?
	289, Metro North RR / 26, Shore line East Trains				rvice?
	289, Metro North RR / 26, Shore line East Trains 3. Do other passenger train operators (c	e.g. Amtrak) run on ti	nese same line:	s?	
	3. Do other passenger train operators (constant) 4. If other operators run on these lines,	e.g. Amtrak) run on ti	nese same line:	s?	
	 289, Metro North RR / 26, Shore line East Trains 3. Do other passenger train operators (expression) 4. If other operators run on these lines, trains that these operators provide? 	e.g. Amtrak) run on t	nese same line: n number of da	s?	
	 289, Metro North RR / 26, Shore line East Trains 3. Do other passenger train operators (express) 4. If other operators run on these lines, trains that these operators provide? 51 Amtrak 	e.g. Amtrak) run on t	nese same line: n number of da	s?	
	289, Metro North RR / 26, Shore line East Trains 3. Do other passenger train operators (compassenger train operators (compassenger train operators (compassenger trains that these operators provide? 51 Amtrak 5. Which of the following best describes	e.g. Amtrak) run on t what is the maximur	nese same line: n number of da system?	s?	
	3. Do other passenger train operators (constraints) 4. If other operators run on these lines, trains that these operators provide? 51 Amtrak 5. Which of the following best describes part of a state department of transportation	e.g. Amtrak) run on t what is the maximur	nese same line: n number of da system?	s?	
	3. Do other passenger train operators (constraints) 4. If other operators run on these lines, trains that these operators provide? 51 Amtrak 5. Which of the following best described part of a state department of transportation 6. Check all of the following that described	e.g. Amtrak) run on ti what is the maximur s your commuter rail	nese same line: n number of da system?	s?	
	3. Do other passenger train operators (constraints) 4. If other operators run on these lines, trains that these operators provide? 51 Amtrak 5. Which of the following best describes part of a state department of transportation 6. Check all of the following that describes own part or all of the rail line on which we operate	e.g. Amtrak) run on ti what is the maximur s your commuter rail	nese same line: n number of da system?	s?	
	3. Do other passenger train operators (constant) 4. If other operators run on these lines, trains that these operators provide? 51 Amtrak 5. Which of the following best described part of a state department of transportation 6. Check all of the following that described own part or all of the rail line on which we operate 7. Where will you have to install PTC? (constant)	e.g. Amtrak) run on ti what is the maximur s your commuter rail	nese same line: n number of da system?	s?	
	3. Do other passenger train operators (constraints) 4. If other operators run on these lines, trains that these operators provide? 51 Amtrak 5. Which of the following best described part of a state department of transportation 6. Check all of the following that described own part or all of the rail line on which we operate 7. Where will you have to install PTC? (constraints)	e.g. Amtrak) run on ti what is the maximur s your commuter rail	nese same line: n number of da system?	s?	
	3. Do other passenger train operators (constraints) 4. If other operators run on these lines, trains that these operators provide? 51 Amtrak 5. Which of the following best described part of a state department of transportation 6. Check all of the following that described own part or all of the rail line on which we operate 7. Where will you have to install PTC? (constraints) 7. Where will you have to install PTC? (constraints)	e.g. Amtrak) run on the what is the maximur so your commuter rail to be your commuter rail the check all that apply)	nese same line: n number of da system?	s?	
	3. Do other passenger train operators (compassenger train operators) 4. If other operators run on these lines, trains that these operators provide? 51 Amtrak 5. Which of the following best described part of a state department of transportation 6. Check all of the following that described own part or all of the rail line on which we operate 7. Where will you have to install PTC? (compassed to comotives)	e.g. Amtrak) run on the what is the maximur so your commuter rail to be your commuter rail the check all that apply)	nese same line: n number of da system?	s?	

\$360,000,000 00	
40. Henrydd yn fard DTC (list all causes and arcounts)	
10. How will you fund PTC (list all sources and amounts)? Federal Grants State Bonds	
rederal Grants State Bonds	
11. Will the planned funding methods impact your agency's ability to fund other critical rail safeneeds or projects?	ety
yes	
12. Will the planned funding method impact your agency's ability to fund critical highway proje	cts?
yes	
Describe your agency's progress in implementing PTC (planning, design, construction, test certification, full implementation). Design Phase, testing in the 1st quarter of 2013 to determin material needs 14. List any PTC contractors you have used.	
n Design Phase, testing in operational track section, to confirm design, next spring.	
15. How confident are you that your commuter rail system will meet the December 31, 2015 dea for installing PTC?	dline
somewhat	
16. List the major obstacles you face in meeting the PTC deadline and any solutions you have found.	
Frequency acquisition	
17. Please enter any other comments or lessons learned that you would like to share with us.	
The FCC rule and sale of frequencies should benfit the public and the safety concerns of the population	

