

Preliminary Investigation Check List

PP	PI Title	PSC	Customer Rep	PM	Investigator	Priority	Status	Kickoff Meeting	Close-out Meeting	PI Results
PI -District-1	Construction, Maintenance, and Long Term Impacts to Old Growth Conifers Abutting Highways	D-1	Deborah Harmon	Harold Hunt	CTC	Completed	Completed	9/1/11	11/9/11	Satisfied with PI. PI was not posted on DRI's website because of the legal ramification in California on this topic. website
PI-Disrict-4	The Relationship between Corner Curb Radius and Injury Severity at Locations with Pedestrian Crossings	D-4	Beth Thomas	Bob Justice	Tech Transfer Librarians	Completed	Completed	12/12/11	3/22/12	PI submitted as NCHRP candidate FY2013
PI-District-1	Traffic Noise Generated by Rumble Strips	D-1	Dana York	Joel Retanan	CTC	Completed	Completed	1/20/12	4/17/12	Satisfied with PI-research project
PI-District-North Region	Cured In Place Pipes (CIPP) and Thermoplastic Resin(s) Toxicity Impacts to Receiving Waters	North Region	David Melendrez/Sean Penders	Tam Nguyen / Fred Yazdan	CTC	Completed	Completed	3/16/12	12/3/12	Satisfied with PI-next phase - PM (Fred Yazdan) will lead panel forth in new research project for FY 13/14.
PI-District-12	Automated Video Incident Detection System	D-12	Mort Fahrtash	Fred Yazdan	CTC	Completed	Completed	6/21/12	11/14/12	PI Panel said PI was very promising, shows that most states are using the same software. Next phase -PM (Fred Yazdan) will lead Panel in contacting MassDOT, and proposing a new research project (Pilot project in D-7 and D-12) for FY 13/14.
PI-District-12	Study on the use of 3rd-party GPS data for Mobility Performance Report (MPR) and Bottleneck Identification	D-12	Farid Nowshiravan			1	Sent request on 11/20/12 for project panel to schedule kick off meeting.			
PI-0909-DC	Green Infrastructure - Guidelines to Implement Climate Change Adaptation Strategies in Highway Roadside	Design/ Construction	Keith Robinson	Harold Hunt	CTC	Completed	Completed		2/11/10	Satisfied with PI
PI-0951-DC	Tree Safety	Design/ Construction	Keith Robinson	Harold Hunt	CTC	Completed	Completed		4/1/10	Satisfied with PI

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PI-0919-DC	Roadside Management Strategies to Reduce Greenhouse Gases	Design/ Construction	Keith Robinson	Doug Brown	CTC		Completed	Completed	5/18/10	7/6/10	Satisfied with PI
PI-5911-DC	Consultant vs. Staff Cost Comparison (1)	Design/ Construction	Said Ismail	Kamal Sah	CTC		Completed	Completed	5/1/11	7/16/12	Satisfied with PI
PI-6111-DC	Consultant vs. Staff Cost Comparison (2)	Design/ Construction	Said Ismail	Kamal Sah	CTC		Completed	Completed	8/1/11	10/1/11	Satisfied with PI
PI-0111-DC	Effectiveness of Traffic Calming Techniques	Design/ Construction	Doug Brown	Harold Hunt	CTC		Completed	Completed	3/28/11	11/16/11	Satisfied with PI-possible research project
PI-0212-DC	Partnering Benchmark Study	Design/ Construction	Mark Leja	Roya Hassas	CTC		Completed	Completed	1/3/12	4/11/12	Satisfied with PI possible research project
PI-0312-DC	Enhanced Constructability Review (1)	Design/ Construction	Terry Abbott/ Tim Craggs/ Mark Leja/ Mark Turner	Kamal Sah	CTC		Completed	Completed	12/29/11	3/12/12	Satisfied with PI possible research project
PI-1112-DC	Enhanced Constructability Review (2)	Design/ Construction	Homar Noroozi, Juan Araya, Jesus Mora ,Mark Turner, Chuck Suszko, Jim Cotey	Kamal Sah	CTC		In-progress	In-progress			
PI-0212-DC	Effects of Digital Outdoor Advertising Displays on Driver Safety	Design/ Construction	Doug Brown	Roya Hassas	CTC		Completed	Completed	6/6/12	11/14/12	PI Panel agreed to change the word "safety" to "driver behavior" in many cases throughout the PI report. Customer will send email with scope for possible research project through DRI or NCHRP.
PI-0102-DC	Low Profile Barrier Alternatives	Design/ Construction	Doug Brown	Kamal Sah		2		In-queue			
PI-0935-DC	Performance Measures for Roadside Worker Safety Features	Design/ Construction	Doug Brown			3		In-queue			
PI-0103-DC	Water Conservation Strategies to Improve Worker Safety	Design/ Construction	Doug Brown			4		In-queue			
PI-0104-DC	Performance Measures for Roadside Vegetation	Design/ Construction	Doug Brown			5		In-queue			
PI-0928-DC	Green Buildings	Design/ Construction	Don Hanson	Doug Brown	Student	3		In-queue	6/1/10		

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PI-0803-DRISI	Real-Time Data to Improve En Route Decision Making and Reduce Transportation Demand (NCHRP Candidate)	DRISI	Sheila Chowdury/ Thomas Schriber	Hassan Aboukhadijeh	CTC	Pilot	Completed	--	7/1/09	NCHRP Success
PI-0211-DRISI	State DOTs and how they implement research results	DRISI	Rebecca Boyer	Rebecca Boyer	CTC	Completed	Completed	2/11/11	4/1/11	Satisfied with PI results used for March 2011 Peer Exchange
PI-0901-DRISI	Intellectual Property: National and International Perspectives	DRISI	Larry Orcutt		CTC	Completed	Completed		6/1/10	Satisfied with PI
PI-0812-DRISI	Application of Cross-Asset Optimization in Transportation Asset Management: A Survey of State Practice and Related Research.	DRISI	Steve Guenther	K Scott Williams	CTC	Completed	Completed	1/13/12	8/23/12	PI results were used to develop white paper for Executive Board.
PI-0902-DRISI	Intellectual Property: California	DRISI				No longer needed	No longer needed			
PI-1112-DRISI	Impacts of Increasing Vehicle-Occupancy Requirements on HOV/HOT Lanes	DRISI	Joseph Rouse	Fred Yazdan	CTC	In-progress	Telecon w CTC schedule for 1/8/13			
PI-11712-DRIS	Geospatial Highway Inventory and Traffic Safety Application	DRISI	Mark Samuelson	Mandy Chu		1	In-queue			
PI-1210-EV	Environmentally Friendly Elimination of Moss Pavement	Environmental	Deborah Harmon	Harold Hunt	CTC	Completed	Completed	2/8/11	4/25/11	Satisfied with PI-possible research project
PI-1015-EV	Cultural Resources Public Outreach	Environmental	Glenn Gmoser	Harold Hunt	CTC	Completed	Completed	10/28/10	2/18/11	Satisfied with PI-results used for an archaeology conference
PI-0711-EV	Use of Cool Pavements to Reduce Energy Use and Mitigate Greenhouse Gas Emissions	Environmental	Glenn Gmoser	Harold Hunt	Tech Transfer Librarians	Completed	Completed	6/8/11	11/15/11	Satisfied with PI results used at an environmental conference
PI-0701-EV	Comparative Life Cycle Costs of Culverts That Provide Unimpeded Fish and Wildlife Movement	Environmental	Amy Pettler/ Richard Hill	Harold Hunt	CTC	Completed	Completed	9/13/12	3/20/12	Satisfied with PI-possible research project

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PI-0812-EV	Promoting the Ability of Sensitive Reptiles and Amphibians to Cross Highway Corridors	Environmental	Margaret Gabil	Harold Hunt	CTC		Completed	Completed	8/24/12	12/4/12	Panel wants to pursue a follow-on PI, on California species' life history and habitat requirements. With Kendra Levine, at UC Berkeley Library.
PI-0923-EV	Statewide Cultural Property Information System	Environmental	Glenn Gmoser			2	In-queue				
PI-0932-EV	Best Practices for Native American Consultation and Coordination.	Environmental	Glenn Gmoser			3	In-queue				
PI-0939-EV	Geoarchaeological Sensitivity Modeling	Environmental	Glenn Gmoser			4	In-queue				
PI-0943-EV	Cost Effective and Innovative Mitigation Practices	Environmental	Glenn Gmoser			5	In-queue				
PI-0946-EV	Practical Applications of Remote Sensing	Environmental	Glenn Gmoser			6	In-queue				
PI-0949-EV	Research Contexts for Archaeology and History	Environmental	Glenn Gmoser			7	In-queue				
PI-1014-EV	Joshua Trees (Yucca Brevifolia) and Highway Safety	Environmental	Paul Caron			No longer needed	No longer needed	6/8/10			
PI-0947-GS	'Local' with 'Global' NDT Methods to Assess Capacity of PT Box-Girder Structures	Geotech/ Structural	Charles Sikorsky			No longer needed	No longer needed				
PI-0913-GS	Evaluate Premixed Polyester Concrete as Wearing Surface on Orthotropic Steel Decks	Geotech/ Structural	Mike Keever/ Paul Chung			No longer needed	No longer needed				
PI-0933-GS	Improved LRFD & LRFR Specifications for Permit & Fatigue Truck Loads	Geotech/ Structural	Sue Hida	Sue Hida	CTC	Completed	Completed	11/2/09	1/10/10	DRI Research Project	
PI-0940-GS	Geophysical Methods for Geotechnical Site Characterization	Geotech/ Structural	Mark Willian	Bill Owen	Bill Owen	Completed	Completed		3/29/10	Satisfied with PI	
PI-1011-GS	Steel Girder End Panel Shear Resistance	Geotech/ Structural	Lian Duan	Charles Sikorsky	Charles Sikorsky	Completed	Completed				

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PI-0944-GS	Calibration of the CEB Equations for Shrinkage Prediction to Improve Bridge Designs	Geotech/ Structural	Mike Keever	Peter S. Lee		4	In-queue			
PI-0924-GS	Extending Service Life and Performance of Bridge Decks	Geotech/ Structural	Mike Keever/ Mike Johnson	Steve Sahs		5	In-queue			
PI-112911-MA	Effective Management of DOT Equipment	Maintenance	Larry Orcutt	Tori Kanzler	CTC	Completed	Completed			Satisfied with PI
PI-112911-MA	GPS on Equipment	Maintenance	Larry Orcutt	Tori Kanzler	CTC	Completed	Completed			Satisfied with PI
PI-01111-MA	Life cycle cost principles for reducing maintenance costs and worker exposure	Maintenance	Mike Evans	K Scott Williams	CTC	Completed	Completed		3/7/12	PI results were used to meet with Executive staff.
PI-07110-MA	Laws to deter the recycling of stolen metals	Maintenance	Steve Takigawa	Pete Zanevski	CTC	Completed	Completed			Satisfied with PI-potential research project
PI-07111-MA	Highway Safety Education and Outreach	Maintenance	Larry Orcutt	Randy Woolley	CTC	Completed	Completed	6/28/11		
PI-07112-MA	Highway Safety Policies and Legal Issues	Maintenance	Larry Orcutt	Randy Woolley	CTC	Completed	Completed	6/28/11		
PI-07113-MA	Highway Safety Technologies	Maintenance	Larry Orcutt	Randy Woolley	CTC	Completed	Completed	6/28/11		
PI-0908-MA	Quick Clearance for Major Traffic Incidents	Maintenance	Nader Eshghipour	Mandy Chu	CTC	Completed	Completed	9/21/09	3/8/10	DRI Research Project
PI-0812-MA	Does crack sealing have negative effects on the coefficient of friction for single track vehicles such as	Maintenance	Peter Vacura/ Joe Peterson/ Chuck Suzko/ Craig Copeland	Joe Holland	TBD	In-progress	PSC has placed this PI on hold.	6/12/12		
PI-0712-MA	Flood Warning Alert System	Maintenance	Herby Lissade	Bob Meline	CTC	In-progress	In-progress	10/5/12	CTC delivered final draft report on 12/07/12	
PI-1112-MA	Fleet Equipment Asset Management-Performance Measures	Maintenance	Larry Orcutt	Bob Meline	CTC	In-progress	In-progress	12/6/12	CTC plans to deliver the final PI report 12/28/12.	
PI-0914-MA	Automated Steering and control of paint striping machine	Maintenance	Gonzalo Gomez	Randy Woolley		1	In-queue			

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PI-0936-MO	Assessing Park and Ride Impacts	Modal	Scott Sauer	Bob Justice	CTC	Completed	Completed	3/24/10	6/17/10	TCRP Project
PI-0903-MO	Disaster Recovery Planning	Modal	Colette Armao	Dan Lovegren	CTC	Completed	Completed	6/18/09	3/2/10	DRI Research Project
PI-0915-MO	Transit Oriented Development (TOD) Evaluations	Modal	Jila Priebe	Bob Justice	Student	No longer needed	No longer needed			
PI-0920-MO	Transit Data and Planning Integration	Modal	Scott Sauer	Bob Justice	CTC	Completed	Completed	4/3/12	7/10/12	Satisfied with PI results used in DMT
PI-0929-MO	Passenger Locomotive Air Quality	Modal	Ken Galt	Dan Lovegren		No longer needed	No longer needed			
PI-0910-PA	HMA Taper Specification/Details	Pavement	Chris Cummings	Joe Holland	CTC	Completed	Completed	12/2/09	3/16/10	TPF project
PI-0312-PA	Recycled Concrete	Pavement	Dan Speer/ Bill Farnbach	Joe Holland	CTC	Completed	Completed	3/13/12	10/1/12	Satisfied with PI possible research project
PI-0921-PA	20 Year Flexible Pavement Rehabilitation	Pavement	Bill Farnbach			1	In-queue			
PI-0930-PA	Interlayer for Cracking Reduction	Pavement	Bill Farnbach			2	In-queue			
PI-0937-PA	Automatic Asphalt Concrete Quantities Estimation	Pavement	Terrie Bressette			3	In-queue			
PI-0942-PA	Longer Lasting PCC Replacement Slabs	Pavement	Kirsten Stahl			4	In-queue			
PI-0953-PPSI	Comparison of California to other State's DOT's on Project Initiation Documents and Reimbursement Schemes	Planning/Policy/System Information	Nathan Smith/ Marlon Flournoy	Paul Moore	CTC	Completed	Completed	8/10/10	1/11/11	Satisfied with PI
PI-1101-PPSI	Developing Air Quality Mitigation Measures for Projects' Operational Emissions	Planning/Policy/System Information	David Ipps	Patrick Tyner	CTC	Completed	Completed	1/31/11	6/15/11	Satisfied with PI-will request research project
PI-0916-PPSI	California Best Practices for Rural and Tribal Smart Growth (1)	Planning/Policy/System Information	Marilee Mortenson/ Terry Parker	Bob Justice	CTC	Completed	Completed	4/13/10	8/11/10	Satisfied with PI
PI-1003-PPSI	Inactive and Abandoned Rail Corridor Preservation Study	Planning/Policy/System Information	Todd LaCasse	Matt Hanson	CTC	Completed	Completed	3/21/11	7/25/11	Satisfied with PI

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PI-1112-PPSI	How Other Transportation Agencies Address Public Health Issues	Planning/Policy/System Information	Garth Hopkins	Bob Justice	CTC		Completed	Completed	6/17/11	11/16/11	PI submitted as background material for NCHRP research project
PI-1108-PPSI	Smart Mobility Performance Measurement Deployment (1)	Planning/Policy/System Information	Chris Ratekin	Bob Justice	CTC		Completed	Completed	2/10/12	6/1/12	Satisfied with PI-
PI-0712-PPSI	Smart Mobility Performance Measurement Deployment (2)	Planning/Policy/System Information	Chris Ratekin	Bob Justice	Tech Transfer		In-progress	In-progress	7/1/12		
PI-1111-PPSI	Best Practices for Environmental Consideration in Systems Planning Documents	Planning/Policy/System Information	Aileen Loe	Bob Justice	Tech Transfer		In-progress	In-progress	6/12/12		
PI-1110-PPSI	Return on Investment for Smart Growth Land Uses	Planning/Policy/System Information	Dan Kopulsky D8				1	In-queue			
PI-1109-PPSI	The influence of Transit on Highway Operations	Planning/Policy/System Information	Frederick Schermer/Erik Alm				2	In-queue			
PI-1110-PPSI	Return on Investment for Smart Growth Land Uses	Planning/Policy/System Information	Dan Kopulsky D8				3	In-queue			
PI-1112-PPSI	Electrification of Highways for Goods Movement	Planning/Policy/System Information	Mike Brady/David Ipps/Rodney Tavitias				4	In-queue			
PI-1113-PPSI	Modal and Long Range Plan Integration	Planning/Policy/System Information	Laurie Waters and CIB Team				5	In-queue			
PI-1115-PPSI	Tribal Participation in Transportation Planning and Programming	Planning/Policy/System Information	Kimberly Johnston-Dodds				6	In-queue			
PI-1116-PPSI	Community Engagement Practices	Planning/Policy/System Information	Joshua Pulverman				7	In-queue			
PI-0952-PPSI	Best Practices from State DOT's on Transportation Planning Workload Analysis	Planning/Policy/System Information	Nathan Smith/ Mitch Baker				8	In-queue			

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PI-0955-PPSI	Goods Movement Infrastructure and affected communities map	Planning/ Policy/ System Information	Mike Brady/ Coco Briseno/ Bob Cervantes/ Nathan Smith/ Marilee Mortenson			9	In-queue			
PI-0925-PPSI	Reducing Uncertainty in Modeling High-Speed Emissions in California (2)	Planning/ Policy/ System Information	David Ipps			10	In-queue			
PI-0945-PPSI	Illegal Truck Parking and Roadside Safety in California (5)	Planning/ Policy/ System Information	Jeffrey Spencer			No longer needed	No longer needed			
PI-0954-PPSI	Goods Movement Data Library	Planning/Policy/ System Information	Mike Brady/ Vahid Nowshiravan/ Pam Korte	Marcus Evans		No longer needed	No longer needed			
PI-0934-PPSI	Transportation System Performance Measures (3)	Planning/Policy/ System Information	Coco Briseno	Bob Justice		No longer needed	No longer needed			
PIP-08-02	Designing Highway Facilities to Encourage Walking, Biking and Transit ("Complete Streets")	Planning/ Policy/ System Information	Nancy Chinlund		CTC	Pilot	Completed		3/1/09	DRI Research Project
PI-0950-PPSI	California Rural-Urban Interactive Study	Planning/ Policy/ System Information	Terry Parker		Student (Kathleen)	In-queue	In-queue	4/30/10		
PI-1012-PPSI	Seamless Bike Survey	Planning/ Policy/ System Information			Student (JoJo)	In-queue	In-queue	4/30/10		
PI-0917-RW	Aerial Pavement Surveys from Combined Low-Level LiDAR and Digital Photogrammetry System.	Right of Way/ Land Surveys	James Appleton	Randy Woolley	CTC	Completed	Completed	10/28/09		Satisfied with PI
PI-0911-RW	Digital Archive Backup and Operational Recovery System for the Caltrans Aerial Photography Library	Right of Way/ Land Surveys	James Appleton	Randy Woolley	CTC	Completed	Completed	10/27/09	5/28/10	Satisfied with PI

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PI-1013-RW	Aerial Pavement Surveys Literature Search	Right of Way/ Land Surveys	James Appleton	Randy Woolley	CTC	No longer needed	No longer needed	5/17/10		
PI-0927-RW	Statewide Real Time Global Positioning System (GPS) Network Implementation	Right of Way/ Land Surveys				No longer needed	No longer needed			
PI-0918-RW	Locate, Construct, Test, and Validate a California Site for a USGS Digital Aerial Imagery Calibration Range.	Right of Way/ Land Surveys	Kevin Akin			No longer needed	No longer needed			
PI-0907-RU	Improved Chain Control Operations	Rural	Ian Turnbull/ Tim Fitzpatrick	Sean Campbell	CTC	Completed	Completed	11/18/09	4/6/10	DRI Research Project
PI-1001-RU	Improving Highway Advisory Radio Transmission and Predictability	Rural	Ian Turnbull	Sean Campbell	CTC	Completed	Completed	3/14/11	5/18/11	Satisfied with PI
PI-0906-SHSP	Improve Driver Decisions and Performance in High Speed, Multilane, Complex Conditions	SHSP CA-5 Transp Safety & Mobility	Wes Lum	Joel Retanan	CTC	Completed	Completed	8/31/09	2/23/10	Satisfied with PI - possible 11/12 project
PI-0905-SHSP	Identify Pedestrian Safety Improvement Programs and Establish a Data Think Tank	SHSP CA-8 Transp Safety & Mobility	Richard Haggstrom	Joel Retanan	CTC	Completed	Completed	7/30/09	2/17/10	DRI Research Project
PI-0904-TS&M	Equal Severity Curve Update	Transp Safety & Mobility	Alex Kennedy/ Thomas Schriber	Joel Retanan	CTC	Completed	Completed		7/1/09	Satisfied with PI - possible future project
PI-0938-TS&M	Left Turn Flashing Yellow Arrow	Transp Safety & Mobility	Ted Lombardi	Jerry Kwong	CTC	Completed	Completed	11/19/10	2/23/11	Satisfied with PI-possible 11/12 project
PI-1011-TS&M	Bicycle Sign comprehension ("Bikes In Lane" Warning Sign)	Transp Safety & Mobility	Dario Senior	Jerry Kwong	CTC	Completed	Completed	3/11/11	11/15/11	Satisfied with PI-possible research project
PI-0922-TS&M	Low Speed Temporary Sand Filled Crash Cushions	Transp Safety & Mobility	Randy Hiatt	Vue Her	DRI	Completed	Completed	10/5/10	12/1/10	
PI-0926-TS&M	Queue Storage and Acceleration Lane Length Design at Metered Onramps	Transp Safety & Mobility	Zhongren Wang/ Lester Lee	Jose D Perez	CTC	Completed	Completed	1/10/12	3/15/12	Satisfied with PI-research project
PI-1005-TS&M	Method for Identifying and Mitigating Highway Locations with High Risks under Wet Weather Conditions	Transp Safety & Mobility	TBD	Haniel Chung		No longer needed	No longer needed			

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PI-1006-TS&M	Implementation of Centrally Controlled Adaptive Ramp Metering System	Transp Safety & Mobility	Zhongren Wang	Fred Yazdan		No longer needed	No longer needed			
PI-1007-TS&M	Enhanced Travel Times using historical and real-time data	Transp Safety & Mobility	Diana Gomez	Fred Yazdan		No longer needed	No longer needed			
PI-1008-TS&M	Lane-by-lane Active Traffic Management	Transp Safety & Mobility	Diana Gomez			No longer needed	No longer needed			
PI-0212-TS&M	Traveler Information using Social Network Systems	Transp Safety & Mobility	Alan Bensen/ Mike Jenkinson			No longer needed	No longer needed			
PI-1009-TS&M	Galvanizing Metal Rail Elements	Transp Safety & Mobility	Randy Hiatt	Vu Her	CTC	Completed	Completed	6/4/12	11/7/12	CTC report identify related reseach NCHRP Project 20-17 panel thinks the report should answer the question about the lifecycle of the two kinds of guard rail.
PI-0931-TS&M	Nighttime Visibility and Headlight Glare	Transp Safety & Mobility	Jerry Champa			1	In-queue			
PI-0212-TS&M	Shadow Striping	Transp Safety & Mobility	Haissam Yahya			2	In-queue			
PI-0212-TS&M	Field Operation Test on Dynamic 24-hours Traffic Responsive Ramp Metering	Transp Safety & Mobility	Zhongren Wang/ Lester Lee			3	In-queue			
PI-0212-TS&M	Dynamic Corridor Ramp Meter Management	Transp Safety & Mobility	Zhongren Wang			4	In-queue			
PI-0212-TS&M	Radar Detector for Ramp Metering Demonstration	Transp Safety & Mobility	Zhongren Wang/ Lester Lee			5	In-queue			
PI-1010-TS&M	Dynamic Speed Sign Effectiveness	Transp Safety & Mobility	Roberta McLaughlin			6	In-queue			
PI-0801-TS&M	Crash Reduction Factor Update	Transp Safety & Mobility	Thomas Schriber		CTC	Pilot	Completed		1/31/09	Satisfied with PI