

# ROCK PRODUCTS COMMITTEE

## WORK PLAN STATUS

August 1, 2013

**"Plan the Work**

**Work the Plan"**

### Contents

Status Meeting Calendar

Asphalt Task Group Projects

Concrete Task Group Projects

Pavement Foundations Task Group Projects

Pavement Preservation Task Group Projects

**"Caltrans, Industry and FHWA Working Together"**

# DEPARTMENT OF TRANSPORTATION

# 2013

## ROCK PRODUCTS COMMITTEE MEETINGS CALENDAR

### Calendar Legend

Quarterly Rock Products Committee (RPC) Meeting

Monthly RPC Co-Chairs 3+1 Meetings

Asphalt Task Group 3+2 Meetings

Concrete Task Group 3+2 Meetings

Pavement Foundations Task Group 3+2 Meetings

Pavement Preservation Task Group 3+2 Meetings

State Holidays

Last Day to Input Information for Monthly Status Documents Update

Monthly Status Documents Preparation and Posting

### JAN 2014

**JAN**

S	M	T	W	T	F	S
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**FEB**

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**APR**

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**MAY**

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**JUN**

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**AUG**

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**SEPT**

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**OCT**

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**NOV**

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**DEC**

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## Pavement Program Project Management Monthly Report

**Project** Section 39 Smoothness      **Task Group** Asphalt      **Subtask Group** Smoothness  
**Target Completion Date** 12/31/2013      **Number** 8      **Status** Active      **Progress** 96 %      **Rock Products Committee** YES

**Purpose** Develop revised specifications for pavement smoothness using the inertial profiler.

**Overall Progress** Smoothness Specification posted on 2/22/13. Completed district construction staff training on new specs and Proval software.

**Activities Planned** Define equipment and operator certification procedures, finish testing calibration site, Webinar with industry to review specs and provide calibration site information, Training for district design

Project Lead	Peter Vacura	Office	Asphalt Pavement		Phone	274-6194	E-FIS Project		E-FIS Subtask Number	
Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status				
# 1 Develop Inertial Profiler NSSP	Asphalt	7/1/2010	12/1/2011	100	100	NSSP developed and proposed on 5 projects. No industry comments thus far. Will schedule a meeting for Nov.				
# 2 Test Method, Equipment, & Calibration	Mets	1/31/2011	7/1/2013	95	105	Working with UCPRC on finalizing certification program. Calibration site will be ready in July 2013. Webinar for industry planned for Mid to Late June 2013				
# 3 Evaluate NSSP & Acceptance Criteria	Asphalt	7/5/2011	10/1/2012	100	100					
# 4 Develop SSP & Acceptance Criteria	Asphalt	4/16/2012	1/18/2013	100	100	Specification completed.				
# 5 Construction Procedure Directive	Constr	12/3/2012	6/3/2013	95	130	Draft Construction CPD prepared and being reviewed...Comments due back by 5/28/13				
# 6 Roll-out Spec. & Software Training	Asphalt	2/1/2013	5/14/2013	100	100	District training completed				
# 7 Select & Monitor Projects to Pilot NSSP	Asphalt	2/15/2011	6/1/2013	80	105	Long life projects (02-3E7504, 02-3E8104, 04-4A0104) and 02-3E7604, 03-0F5904, 03-3797U4, 04-1A6824, 04-4A07U4, 04-0C7404, 06-0E0704, 06-0L6404, 07-286904, and 10-0M8004				
# 8 Training	Asphalt	9/1/2013	12/31/2013	0	0					

**Log** 5/13/11, Updated Status, PJV  
 7/5/12 - Status Update, RSD  
 9/27/12 - Status Update, RSD  
 5/28/13 - Status Update, RSD

**Project Quieter Flexible Pavement**

**Task Group** Asphalt **Subtask Group** Quieter Pavement  
**Target Completion Date** 7/1/2014 **Number** 9 **Status** Active **Progress** 65 % **Rock Products Committee** YES

**Purpose** To reduce tire noise and improve permeability and durability of OGFC mix designs.

**Overall Progress** Laboratory evaluation was performed on 3 OGFC mixes. 5th year report approved.

**Activities Planned** Develop nSSP, Identify field projects, Monitor field projects, Develop SSP

<b>Project Lead</b>	Rupinder Dosanjh	<b>Office</b>	Asphalt Pavement		<b>Phone</b>	274-6078	<b>E-FIS Project</b>	<b>E-FIS Subtask Number</b>
<b>Deliverable or Task</b>	Office	Start Date	End Date	Complete %	Elapsed %	Status		
<b># 1</b> Conduct and report laboratory evaluation of OGFC mixes	UCPRC	7/1/2009	7/29/2011	100	100	UCPRC report approved by Caltrans		
<b># 2</b> Lab HVS evaluation on quieter OGFC mixes	UCPRC	7/1/2011	3/1/2013	80	125	HVS testing is complete. Report of results will be available soon		
<b># 3</b> Develop NSSP for quieter OGFC mixes	Asphalt	10/1/2012	8/1/2013	60	100			
<b># 4</b> Update & adopt specification for OGFC mixes	Asphalt	6/28/2013	7/1/2014	0	10			
<b># 5</b> Complete 5th yr flexible QP research & report	UCPRC	7/1/2011	10/1/2012	100	100			
<b># 6</b> Review 4th yr flexible pavement evaluation & report	Asphalt	10/10/2011	12/31/2011	100	100	Report completed and published		
<b># 7</b> Field evaluation on quieter OGFC mixes	Asphalt	3/3/2014	6/27/2014	0	0			
<b># 8</b> Review 5th yr flexible pavement evaluation & report	Asphalt	8/16/2012	11/30/2012	100	100	Report received on 8/16/12		

- Log**
- 7/11/11 - Status Update, PJV
  - 9/6/11 - Status Update, RSD
  - 10/12/11 - Status Update, RSD
  - 11/17/11 - Status Update, RSD
  - 6/18/12 - Status Update, RSD
  - 9/27/12 - Status Update, RSD
  - 10/10/12 - Status Update, RSD
  - 5/28/13 - Status Update, RSD

**Project Longer Life Flexible Pavements**

**Task Group**

Asphalt

**Subtask Group**

Section 39

**Target Completion Date** 6/30/2014

**Number** 11

**Status** Active

**Progress** 77 %

**Rock Products Committee** YES

**Purpose** Design and build longer life flexible pavements in California to minimize the needs for future structural improvement or rehabilitation.

**Overall Progress** Selected and designed 3 (Red Bluff, Weed, and Solano) and began construction on 2 (Red Bluff and Weed) long life flexible pavement projects. Solano long life project has been awarded. Construction of Solano has

**Activities Planned** Help with specs and HMA JMF development.

**Project Lead** Imad Basheer

**Office** Asphalt

**Phone** 274-6155

**E-FIS Project**

**E-FIS Subtask Number**

**Deliverable or Task**

Office

Start Date

End Date

Complete %

Elapsed %

Status

**# 1** Support District for N. Cal Project

Asphalt

6/30/2010

6/30/2011

100

100

Selected 3 projects (Red Bluff, Weed & Willits)

**# 2** Monitoring I-710 Pavement Performance

UCPRC

6/30/2010

6/30/2014

85

75

UCPRC to conducted IRI & FWD in Fall of 2012. Next step is to update the I-710 Performance report with new data by Jan

**# 3** Develop NSSP for N. Cal Project

Asphalt

2/1/2011

6/30/2011

100

100

Completed NSSP for Red Bluff, Weed, Solano, Willits.

**# 4** Evaluation and Monitoring of Weed and Red Bluff

Asphalt

7/2/2012

6/28/2014

50

55

Projects in construction; Continue working with Construction and District in monitoring the construction phase.

**# 5** 0 0

**# 6** 0 0

**# 7** 0 0

**# 8** 0 0

**Log** 12/9/2010 - Caltrans/Industry meeting on long life meeting. Two projects in D2 were discussed. UCPRC will conduct lab testing.

5/13/11 - Updated Status, PJV

7/12/11 - D4 Sol 80 and D1 Men 101-Willits Bypass; 40 yr pvmt designs completed

12/14/2012 - Red Bluff and Weed Projects already awarded and in construction.

**Project Superpave Specification**

**Task Group** Asphalt **Subtask Group** Specifications  
**Target Completion Date** 6/30/2014 **Number** 14 **Status** Active **Progress** 58 % **Rock Products Committee** YES

**Purpose** Develop specification to transition from Hveem mixes to Superpave mixes.

**Overall Progress** Superpave training completed in all Districts. Pilot 2010 Superpave specification complete. Superpave Sub Task Group meeting held in May 15, 2013.

**Activities Planned** Continue monitoring pilot projects during construction. Next Superpave Sub Task Meeting scheduled in June 18, 2013

<b>Project Lead</b>	Joe Peterson	<b>Office</b>	Roadway Materials	<b>Phone</b>	227-7322	<b>E-FIS Project</b>		<b>E-FIS Subtask Number</b>	
<b>Deliverable or Task</b>	Office	Start Date	End Date	Complete %	Elapsed %	Status			
<b># 1</b> Compile information/data from 1st batch of pilot projects	Road Mat	6/1/2012	8/1/2013	70	100	Compiled information from first two pilot projects.			
<b># 2</b> Review information/data from 1st batch pilot projects and revised specs	Road Mat	1/31/2013	9/1/2013	70	85	Reviewed and analyzed data and provide to Sub Task Group.			
<b># 3</b> Pilot Specification	Road Mat	1/31/2013	11/30/2013	80	60	Pilot specification updated based on initial pilot projects.			
<b># 4</b> Compile information/data from 2nd batch of pilot projects	Road Mat	8/2/2013	12/1/2013	0	0	None			
<b># 5</b> Review information/data from 2nd batch pilot projects and revised specs	Road Mat	7/1/2013	2/1/2014	0	15	No data yet.			
<b># 6</b> Training	Road Mat	10/1/2012	6/30/2014	50	45	First round of training has be completed in all Districts.			
<b># 7</b>				0	0				
<b># 8</b>				0	0				

**Log** 3/28/13 CDS Updated overall progress, planned activities and deliverables.

5/15/13 KYF Superpave meeting at SoCal, update overall progress and improve Superpave specification.

6/12/13 KYF 1st batch of pilot projects: 10-0M8004 and 07-3Y9004  
 2nd batch of pilot projects: 07-3Y3004, 05-0161E4, 08-0P8604, 06-430704, 11-275204, 05-0Q5704, 07-252004, 04-053444, 09-351604, 02-367014, and 08-230144

**Project RAP/RAS**

**Task Group** Asphalt **Subtask Group** Specifications  
**Target Completion Date** 6/30/2014 **Number** 15 **Status** Active **Progress** 44 % **Rock Products Committee** YES

**Purpose** Develop a standard special provisions (SSPs) for allowing higher RAP usage and for allowing RAS usage.

**Overall Progress** Specification for 25% RAP was posted on 2/22/13. Sub Task Group meeting held and three phase approach was developed to complete project.

**Activities Planned** Next Sub Task Group meeting scheduled for May 30, 2013. Group to work on including RAS in 25% RAP by weight specification.

Project Lead	Joe Peterson	Office	Roadway Materials	Phone	227-7303	E-FIS Project		E-FIS Subtask Number	
Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status			
# 1 25 % RAP Specification (no	Road Mat	6/1/2012	1/18/2013	100	100	Specification was posted 2/22/13.			
# 2 Review information/data from projects and revise specs (tier 1)	Road Mat	7/1/2013	12/1/2013	10	20	up to 15%			
# 3 RAP/RAS Specification (planing, discussing, developing)	Road Mat	3/1/2013	12/1/2013	40	55	Sub Task Group meeting held and next meeting is scheduled for May 30, 2013.			
# 4 Compile information/data from pilot projects (tier 2)	Road Mat	12/1/2013	2/28/2014	0	0	Using Tier 2 (15-25%) in some projects.			
# 5 Finalize and Implement RAP/RAS Specification (tier 3)	Asphalt	3/1/2014	6/30/2014	0	0	Tier 3 (25-40%)			
# 6				0	0				
# 7				0	0				
# 8				0	0				

**Log** 09/27/12 Updated overall progress.  
 03/28/13 CDS Updated overall progress, activities planned and deliverables.  
 05/30/13 RAP/RAS STG met and reviewed the Tier 1, 15% RAP/RAS binder replacement with "up to 5% RAS" draft spec. The plan is to have it posted as RSS prior to July 2013 moratorium.  
 Tier 2, 15-25% RAP/RAS binder replacement with "up to 5% RAS" as an nSSP in some pilot projects.  
 Tier 3, 25-40% RAP/RAS binder replacement with "up to 5% RAS" completed by July 2014.  
 06/12/13 to date to pilot projects (10-0V9604 & 08-0P9504) have used the RAS spec.

**Project Intelligent Compaction**

**Target Completion Date** 1/30/2015      **Number** 18      **Status** Active

**Task Group** Asphalt

**Subtask Group** Intelligent Compaction

**Progress** 1 %

**Rock Products Committee** YES

**Purpose** Develop specification for using intelligent compaction as quality control for hot mix asphalt method compaction.

**Overall Progress** IC-Demonstration workshop scheduled for September 6, 2013.

**Activities Planned** First task group meeting scheduled for August 13, 1013.

<b>Project Lead</b>	<b>Office</b>	<b>Construction Engineering</b>		<b>Phone</b>	<b>E-FIS Project</b>	<b>E-FIS Subtask Number</b>
<b>Deliverable or Task</b>	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 NSSP for Pilot Projects	HQ Constr	8/1/2013	10/30/2013	0	0	Task Group meeting scheduled for August 13, 2013.
# 2 IC Demonstration Project	HQ Constr	6/1/2013	9/6/2013	25	60	On schedule for September 6, 2013.
# 3 Pilot Projects (Target 6 projects)	HQ Constr	10/30/2013	7/30/2014	0	0	
# 4 Analyze results from pilot	HQ Constr	4/1/2014	9/30/2014	0	0	
# 5 Finalize SSP	HQ Constr	8/1/2014	12/1/2014	0	0	
# 6 User Guidance for IC to be included in Construction Manual	HQ Constr	9/30/2014	1/30/2015	0	0	
# 7				0	0	
# 8				0	0	
<b>Log</b>						

**Project** **QC/QA Spec for Cast-in-Place Concrete** **Task Group** Concrete **Subtask Group** Concrete Materials/QA  
**Target Completion Date** 6/30/2013 **Number** 5 **Status** Active **Progress** 75 % **Rock Products Committee** YES

**Purpose** Implement QA specifications for materials management of structural concrete.

**Overall Progress** Continued forward movement. D11 Pilot Project Pre-Bid meeting took place on 15 Nov 12. Additional outreach with other pilot projects and Industry to take place. QA Guidelines continues to be refined. ACI Training for all staff to continue into 2013.

**Activities Planned** ACI certifications in Sacramento are planned in July. The DIME beta testing is planned for this month with a couple of private labs. Pilot project specific outreach will be conducted as soon as pilot projects are identified.

<b>Project Lead</b>	<b>Keith Hoffman</b>	<b>Office</b>	<b>Structural Materials</b>		<b>Phone</b>	<b>707-649-5468</b>	<b>E-FIS Project</b>	<b>E-FIS Subtask Number</b>
<b>Deliverable or Task</b>		<b>Office</b>	<b>Start Date</b>	<b>End Date</b>	<b>Complete %</b>	<b>Elapsed %</b>		<b>Status</b>
<b># 1</b> Establish teams and review existing practices (FHWA,		OSC	12/1/2010	5/31/2011	100	100	Teams are established.	
<b># 2</b> Develop outline for QC/QA/IQA/IA program		Materials	3/1/2011	11/1/2011	100	100	QC program is complete. QA program is being finalized.	
<b># 3</b> Draft QC reference specification and selection of pilot projects		Materials	7/1/2011	1/31/2012	100	100	Specification Finalized	
<b># 4</b> Review of draft QC specification and create draft QA specifications		Materials	1/16/2012	3/31/2012	100	100	Specification has been finalized and will be incorporated into Pilot Projects	
<b># 5</b> ACI Training and IA updates		Materials	1/1/2012	4/1/2013	80	125	ACI is complete. IA Manual Updates complete.	
<b># 6</b> Workshops and roll out 10+ pilot projects (structural concrete/non-pavement) and additional 10 pavement projects to be added later on		Materials	4/2/2012	4/1/2013	70	135	D11 Project identified.	
<b># 7</b> Feedback and update other pilot concrete projects		Materials	12/31/2012	4/1/2013	0	230	To be completed as pilot projects take place and lessons learned are captured	
<b># 8</b> Establish full implementation on all projects		Materials	3/1/2013	6/30/2013	0	125	Will be complete once pilot projects take place and the Section 11-4 is included in all new projects	

**Log** 11/29/12

Continued forward movement. D11 Pilot Project Pre-Bid meeting took place on 15 Nov 12. Additional outreach with other pilot projects and Industry to take place. Full listing of all Pilot Projects to be tracked and updated as needed. QA Guidelines continues to be refined. METS is working with OSC currently on this assignment. ACI Training for all staff to continue into 2013.

10/16/12

Forward movement continues. Final Spec Update complete. ACI Training continues - sessions scheduled for Hayward and LA in Oct-Nov 2012. ACI Outreach conducted on 9 Oct 12. Pre-Bid presentation for D11 project set for 15 Nov. Outreach for DMEs scheduled for 7-8 Nov at DME Meeting. QA Guidance to be finalized in coming weeks. DIME database set-up and validation to continue in the coming weeks with OSC and external labs.

9/19/12

Much forward movement. Final Spec Update complete. ACI Training sign-up continues - sessions scheduled for Hayward and LA in Oct-Nov 2012. Movement continues on Industry Agency and Pre-Bid presentations. QA Guidance to be finalized in coming weeks.

8/9/12

Much forward movement on the Specification, and all related activities. QCQA Spec finalized as of 6 Aug. QA Guidance Doc under development; to be finalized in coming days. ACI Training for CT Staff continues; training dates set for fall 2012 and spring 2013. D11 Pilot Project confirmed; outreach taking place ICW project in September 2012. DIME database almost complete; weekly project meetings taking place to finalize the DIME database.

7/17/12

Work continues on this activity. QCQA Spec is tentatively final pending minor comments. Work will continue throughout June-July 2012 to develop the Pilot Projects, ACI Training, and the DIME Database for external tests. Outreach for all parties continues.

DOTs)

7/3/12

The plain language specification is being reviewed. Pilot projects are being identified. Outreach is on-going. ACI certifications are on-going. ACI certificate contract is executed (100% Complete). IA memo is being drafted.

4/24/12

STG has resumed work based on a new consensus reached on the QA Portion of the Spec. Updated draft Specification has been developed and has been distributed through RPC channels. Project team meetings to continue. Outreach/Pilot Projects to take place in near future. QC outline report final. QC portion of Spec also finalized as of 13Jan2012. METS working on ACI training for staff.

2/23/12

The STG has suspended work based the project team's inability to reach consensus on the QA Portion of the spec. Non-Consensus document to be developed to document impasse. Refinement of project team member roles TBD. QC portion of Spec also finalized as of 13Jan2012. METS working on ACI training for staff.

1/23/12

Final QCQA Spec received on 13Jan2012. This QCQA Spec will allow movement forward on Pilot Projects. QA portion to be refined with SP&I in the coming months.

1/13/12

Final QCQA Specification was received.

1/9/12

Project team meetings have been held throughout December to review and comment on the draft specification. The acceptance program portion of the Spec is currently being composed and discussed. A draft was submitted by SP&I on 1/9/12. Portions of the spec still differ from the overall view of other members of the project team (METS, IA, and OSC). These details are being tracked at the team level and continue to be discussed.

11/22/11

Outreach program is continuing. Presentations for CalcIMA took place during the month of Nov 2011. Specification development is also continuing at the project team level.

10/20/11

Several outreach presentations have occurred, to include meetings for CCTIA and for CalcIMA at their convention in Monterey on October 11. Additional presentations to CCTIA, ACI, and CT DMEs are scheduled as well. The project team is also working at the team level to develop the draft specification, as well as the QC and QA Guideline reports. Target is to be complete with each by end of October.

8/16/11

Project team discussed status of work and deliverables and extensive outreach program. A presentation was done on August 25th for CCTIA.

7/28/11

Met with CCTIA distributed questionnaire regarding potential issues with QC/QA spec and accreditation.

7/20/11

Discussed QC/QA program with ACM's. Project list distributed to ACM's. Feedback due 8/3/11.

7/15/11 (IA Meeting)

CT in agreement to recognize ACI program. CT to work with ACI Northern and Southern Chapters to get District and Headquarters staff certified ACI Field and Lab Level 1.

Update from May 24, 2011:

Project Team continues to progress on work as planned. The review document of FHWA procedures and other DOT QCQA specifications, in addition to recommended strategy and alignment of proposed QCQA with FHWA Roadmap, is in final stages of review, including review by FHWA stakeholders. QCQA outline of required QCQA tests and frequencies is in final stages of development. Schema efforts for collecting and reporting ASTM test data/results for pilot projects is under way.

The team has reached agreement from the Department and Industry (with no major concerns) for the following aspects:

1. Require NRMCA certifications for plants and AASHTO Accreditation for Labs.
2. Require aggregate source quality related tests (eg soundness and abrasion) as part of prequalification.
3. Use ASTM methods for pilot programs for all testing.
4. QA Testing for the pilot program may be performed by Translab and other lab hired by Department

Team team is working on refining the following aspects based on Department and Industry review/input:

1. Frequency of QC and QA Testing
2. Lot ID for QA Testing
3. Dispute resolution process

Update from April 18, 2011 Project Team Meeting:

Outline of QC/QA tests was discussed and a draft report of the review on FHWA/DOT practices was circulated and discussed. Project team members are to review the proposed outline and provide feedback at the next team meeting. New project team members (Mike Cook of Granite Rock and Rick Navarro representing the California Council of Testing and Inspection Agencies) attended. ASTM test method equivalent to CT methods were reviewed. Consensus was reached regarding the use of ASTM test methods for proposed QC/QA pilot projects.

On parallel path are discussions with Loren Turner regarding data platform for collection of test results from consultant labs. A separate task specific project team will be developed that will include Mike Cook, Rick Navarro and others to address this task.

Mtgs. Held every two weeks.

Updates from March 17 Meetings:

Rob introduced the purpose of this project is to have QC tests take the forefront and place the state staff into more of a "review" role.

Bruce indicated that cost-benefit analysis might be a good way to show the affects of overall project cost.

The group discussed the differences between CTMs and ASTMs will affect how the material is tested. Bruce and Kirk commented on international material being tested on standards other than ASTMs. Clarifications may be needed on how to prequalify this material.

Updates from Feb 17 Meetings:

This item moved up in the priority. With the limited number entries in the log, overall plan has been broadly divided in to following six tasks. Detailed work plan available with identifying 17 sub projects for FY 10-11 & 11-12

- Project team has begun conducting meetings to complete all of the objectives listed. Currently the team is reviewing Existing Performance Based requirements, to include reviewing FHWA Practices, as well as other DOT practices already in place.
- A Detailed Outline of the QC Program will be the next portion that will be hashed out in the near term, to include the establishment of certifications needed and testing protocol

**Project Statewide Aggregate Source Database**

**Task Group** Concrete **Subtask Group** Concrete Materials/QA  
**Target Completion Date** 6/30/2013 **Number** 9 **Status** Active **Progress** 64 % **Rock Products Committee** YES

**Purpose** Database for Statewide consistency in aggregate source testing. Centralized database.

**Overall Progress** METS personnel continue to develop "Test Cards" for use by CT Labs in conjunction with Dist Mat staff. Test Cards allow for measured values to be input. Team meetings continue with METS/DME personnel on a monthly basis. DME Outreach took place on 7 Nov.

**Activities Planned** Additional feedback will be solicited after the changes are implemented.

Project Lead	Keith Hoffman	Office	Structural Materials		Phone	707-649-5468	E-FIS Project		E-FIS Subtask Number	
Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status				
# 1 Establish teams	Materials	12/1/2010	2/18/2011	100	100	Teams are established				
# 2 Determine applicable tests	Materials	2/18/2011	1/30/2012	100	100	Completed. Applicable tests have been outlined				
# 3 Review test methods/develop schema	Materials	2/18/2011	3/30/2012	100	100	Completed. Schema was developed from test methods.				
# 4 Establish pilot database	Materials	1/13/2012	3/30/2012	100	100	Schema is currently being tabulated; movement continues in conjunction with QCQA activity				
# 5 Receive continuous feedback from all users	Materials	3/30/2012	4/30/2013	60	125	Feedback received by DME meeting as well additional conference calls.				
# 6 Consider additional phases/use of data	Materials	5/1/2013	6/30/2013	0	150	Completed. The users are identified in the meeting with DME.				
# 7				0	0					
# 8				0	0					

**Log** 11/29/12

METS personnel continue to develop "Test Cards" for use by CT Labs in conjunction with Dist Mat staff. Test Cards allow for measured values to be input. Team meetings continue with METS/DME personnel on a monthly basis. DME Outreach took place on 7 Nov.

10/16/12

Movement continues with METS personnel to develop "Test Cards" for use by CT Labs. Test Cards allow for measured values to be input. Team meetings continue; next meeting to take place in on 24 Oct with METS/DME personnel. Database updates continue. DME outreach scheduled in conjunction with the DME Meeting on 7-8 Nov 12.

9/13/12

Movement continues with METS personnel to develop "Test Cards" for use by CT Labs. Test Cards allow for measured values to be input. Team meetings continue; next meeting to take place in on 26 Sept with METS/DME personnel. Database updates continue.

8/9/12

Movement continues with METS personnel to develop "Test Cards" for use by CT Labs. Test Cards allow for measured values to be input. Team meetings continue; next meeting to take place in late-Aug with METS/DME personnel. Constant database updates continue.

7/17/12

Database development continues. Surveys have been distributed to Districts to garner understanding of current business practices; database will incorporate all lessons learned. List of aggregate tests is on hand. Working in conjunction with QCQA Team.

7/3/12

Last month meeting was held with all DMEs to receive additional feedback on the latest version of DIME database. Work is being conducted with IT to procure the tablet devices.

4/24/12

Mtgs taking place at project team level throughout April/May to continue work on CT schema. Surveys distributed to DMEs to capture practices/introduce idea. Team is currently tabulating schema/developing code based on ASTMs and CTMs in spec. New hardware interface is being explored, particular the use of tablets for input of data.

2/23/12

Mtgs taking place at project team level throughout Feb 12 to continue work on CT schema. Surveys distributed to DMEs to capture practices and introduce idea. Team is currently tabulating schema/developing code based on ASTMs and CTMs in spec

1/17/12

Mtg took place at project team level on 1/13/12 to begin work on CT schema. Schema data/results extracted ASTMs. Team is currently tabulating schema/developing code.

1/3/12

A project team meeting is scheduled for 1/13/12 to begin developing schema based on CT's.

12/23/11

This activity continues to operate in conjunction with the QCQA activity. The project team is still refining the format capture protocol for data and for results of applicable test standards. Format refinement will continue in the near term.

11/22/11

Full list of aggregate tests is currently in development. The plan is still in place to run this activity in concurrence with the schema developed for the QCQA activity.

10/20/11

**Project Precast Concrete Pavement**

**Task Group** Concrete **Subtask Group** Precast Concrete  
**Target Completion Date** 12/31/2013 **Number** 11 **Status** Active **Progress** 85 % **Rock Products Committee** YES

**Purpose** Develop comprehensive departmental guidance or standard approach on the use of precast concrete pavement.

**Overall Progress** Design Methodology final report completed. The I-680 lessons learned final draft completed.

**Activities Planned** Next Project Team meeting to discuss scoping document in May 2013.

Project Lead	Mehdi Parvini	Office	Concrete Pavement	Phone	916-227-5848	E-FIS Project	E-FIS Subtask Number
Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status	
# 1 Develop Draft PPCP nSSP	Conc Pvmt	7/1/2010	6/30/2011	100	100	Completed nSSP.	
# 2 PPCP Details	Conc Pvmt	7/1/2010	4/1/2012	100	100	Completed draft standard sheets.	
# 3 Establish Design Criteria	Conc Pvmt	7/1/2010	3/1/2013	100	100	Consultant design methodology report was finalized.	
# 4 Prestressed Precast Pavement Design Guide	Conc Pvmt	1/1/2012	3/1/2013	100	100	SHRP2, R05 report was finalized.	
# 5 Develop generic slab replace specification	Conc Pvmt	12/1/2011	6/30/2012	100	100	Completed nSSP.	
# 6 Develop generic slab replace Details	Conc Pvmt	12/1/2011	6/30/2012	100	100	Completed draft standard sheets.	
# 7 Performance Evaluation Guidelines (for Proprietary Systems)	Conc Pvmt	6/30/2012	3/1/2013	100	100	Design methodology to address performance criteria for different precast systems (the consultant report) was finalized.	
# 8 Update prestressed SSP & plans (after I-710 first construction season, resolving flat panel issue, and after other pilot projects)	Conc Pvmt	1/30/2013	12/31/2013	0	55	Proposed changes by D4 was implemented in PPCP nSSP.	

**Log** 04/29/12-status update-MP  
11/29/12

Review of latest version of Design Methodology currently taking place. Updated SSP and Standard Plans continue to be updated and refined. Latest Scoping Document has been distributed to STG and Project Team. Team meeting for I-710 occurred on 20 Nov 12. Further discussion ongoing related to how I-680 design lessons learned can apply to I-710 and other projects. It is likely that the next project team meeting will take place in Early Jan 2013.

10/16/12

Design methodology meeting took place on 9/11/12. Pilot projects in D7 are RTL'd and projects in D4 are advertised. Review continues on updated Scoping Document & Draft report on design methodology. Lessons learned continue to be compiled. Project team meeting taking place on 17 October 12. Scoping Document and Design Methodology are to be discussed.

9/27/12-status update-MP  
9/19/12

Next Project Team MTG in Oct 2012. Pilot projects in D7 are RTL'd and projects in D4 are advertised. Review continues on updated Scoping Document & Draft report on design methodology. Lessons learned continue to be compiled for all constructed projects.

8/9/12 - status update-MP  
8/9/12

Pilot Projects in District 4 and 7 have RTL'd (last 6/30/2012). Review continues on updated draft report from consultant on design methodology. Design methodology MTG to take place in mid-Sept 2012. Lessons learned continue to be compiled for all projects.

7/2/12 - status update-BF

Change date for developing Design Criteria and Prestress Guide to 12/30/12 since consultant not yet on board. Change end date for project to 7/30/13 since construction on 710 and other pilots not yet begun and time is needed to evaluate these projects.

5/31/12-status update-MP

4/24/12

Specs and Plans for Precast Prestressed (PPCP) and Precast Panel (PCP) discussed at project team meeting on 4/24/12. Further comments received after the meeting. Next project team mtg scheduled for May/Jun. Draft proprietary legal memo circulated to team. Design methodology also to be developed and review at project team level. Will be review and refined throughout May 2012.

4/23/12-status update-MP

2/27/12

Specs and Plans for Precast Prestressed (PPCP) and Precast Panel (PCP) to be finalized at project team level. No comments received. Next project team mtg scheduled for late-March. A task order for the development of Design Guidelines will be finalized in the coming weeks. Proprietary legal memo also to be developed at team level.

2/1/12-status update-MP

12/23/11- Std. details for PPCP were discussed in 12/6/11 meeting. Draft ISR(PCP) spec and plan were discussed on 12/6 meeting. Project team meetings will continue monthly, with the next one to take place in early-Jan 2012. PPCP nSSP was updated based on lessons learned from CC-680 project in 9/7 meeting. Std. details discussed in 11/3/11 meeting and to be updated in 12/6 meeting. Draft ISR(PCP) spec and plan is prepared and to be discussed.

11/22/11

The next project team meeting is currently scheduled for December 6, 2011. Development of the Standard Sheets for the PPCP plans will continue in the meantime.

10/16/11-status update-MP

This activity was discussed at the most recent September 15 Sub-Task Group meeting. The project team remains committed to completing PPCP nSSP and project plans in conjunction with this STG activity. The next project team meeting is currently scheduled for November 3, 2011.

9/9/11-Status update-MP

PPCP nSSP was updated based on lessons learnt from CC-680 project in 9/7 meeting. Another meeting is planned to review std. details.

8/26/11- Draft Std. Draawings were sent out for review on 8/11 to be discussed in 9/8 meeting.

7/29/11

Scoping document was approved by TG on 7/14/11 meeting.

A Final draft of the PPCP nSSP was completed on June 30, 2011.

Development of the new I-710 precast pavement specification has indicated, however, that a couple of changes need to be made to that final draft. Changes will be distributed to the Project team members in the coming weeks.

The next project team meeting is currently scheduled for Mid-August 2011

7/12/11-status update-MP

6/66/11-Final version of scoping document was approved by Precast STG on 6/17/11 and by Concrete TG on 6/22/11.

Final version of Scoping Document was approved by Precast STG on 6/17/11. The PCCP nSSP is set to be completed by end of June.

5/27/11-Final version of scoping document was submitted on June 21, 2011. The document will be sent to Precast STG for review. The attached work plan will be revised based on feedback from Precast STG.

Updates from May 24th Meeting:

- An updated Scoping Document is in the final stages, which includes an updated timeline. Scoping Document will be finalized by June 1.
- First goal, completion of nSSP for PPCP Pavement, will be completed by 6-30-11
- Next team meeting will be June 13, 2011

A draft spec was worked on throughout May 2011. Target completion of PPCP nSSP is 6-30-11. Plan is to use the final I-710 spec, which will RTL in June. A modified scoping document and workplan to be prepared by June 1. Next meeting will be June 13, 2011

Updates from May 2nd Meeting:

A \$300 million project RTL this month. Need to work on that spec. Issues resolved on that spec will be used to complete this project.

Updates from March 17th Meeting:

Keith wanted to clarify if the proposed SSP will dictate which system to use, or allow for proprietary systems.

Keith and Jim mentioned that creating an NSSP might be a better way to get the spec onto paper, and allow for future revisions that may be able to turn this into an SSP. This would allow time for current projects to be evaluated to see what challenges/claims we've encountered, and adjust off of these lessons learned.

Updates from Feb 17th Meeting:

A final detailed work plan has been completed for this Activity, and the project team has begun conducting meetings to complete all of the objectives listed.

Draft Standard Plans and Specs are about 25% complete; A draft Plan was discussed at the Feb 17 meeting

Project team members are incorporating lessons learned on previous Precast Pavement projects, and will incorporate this into the language of the SSP

List of Projects	Status
I-10 (El Monte)	Comp
I-15	Comp
I-5/14	Comp
680	Comp
I-710	Const
I-80	Bid opening 9/26/12
580	Bid opening 9/19/12
I-5 (Grapevine CAPM)	RTL 6/29/12
405 (CAPM)	RTL 6/29/12
I-710 (Phase II)	Design
210 (Maint.)	Const

**Project Recycled Concrete Materials Specification Development**

**Task Group** Concrete **Subtask Group** Concrete Materials/QA  
**Target Completion Date** 6/30/2014 **Number** 22 **Status** Active **Progress** 50 % **Rock Products Committee** YES

**Purpose** This activity aims to evaluate the possibilities of using recycled concrete (both hardened and plastic) for CT projects in minor concrete or LCB.

**Overall Progress** Monthly project team meetings continue. Draft specification completed.

**Activities Planned** Sub Task Group Project team meetings.

Project Lead	Keith Hoffman	Office	Structural Materials	Phone	916-417-8371	E-FIS Project		E-FIS Subtask Number	
Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status			
# 1 Develop Scoping Document and Work Plan	Materials	10/13/2011	3/1/2012	100	100	Scoping Document is in development by Industry			
# 2 Evaluate performance-based specification options, as well as test method that allow for appropriate consideration	Materials	3/1/2012	4/1/2012	100	100	Has been completed in conjunction with Scoping Document development			
# 3 Develop plan for how CT will evaluate ways to foster use of materials as appropriate	Materials	4/2/2012	8/1/2012	100	100	Complete based on Preliminary Investigation and Industry feedback			
# 4 Develop a draft specification if needed based on comments from Preliminary Investigation	Materials	8/1/2012	3/30/2013	50	150	Preliminary Investigation Report received. Standing by for comment from Industry			
# 5 Submit any proposed Spec updates to Industry and to CT for feedback, and refine	Materials	2/28/2013	4/30/2014	0	35	Will be completed based on discussions with Industry at monthly project team meetings.			
# 6 Finalize specification based on comments where appropriate	Materials	4/30/2013	6/30/2014	0	20	Deliverable to be completed based on needs determined at project team level.			
# 7				0	0				
# 8				0	0				

**Log** 11/29/12

Monthly project team meetings to continue. 12 Dec 12 is the next scheduled meeting. Industry to send requested information from Nov meeting, as well as best practices, by 14 Dec. Supplementary report and Draft Specs to be complete in coming weeks.

10/16/12

Preliminary Investigation final report received on 7 Sept 2012. Has been distributed to the STG. Meetings to take place in Oct-Nov 2012 based on Industry's request as necessary. Industry to provide feedback and path forward for Phase II and Gap Analysis based on final Prelim Report.

9/19/12

Preliminary Investigation final report received on 7 Sept 2012. Has been distributed to the STG. Meetings to take place in Oct 2012 based on Industry's request as necessary. Industry to provide feedback and path forward based on final Prelim Report.

8/9/12

Draft Compilation Document received from Research Personnel on 6 Aug. Comments/Feedback to be compiled by 13 Aug. Status briefings to take place with CT and Industry personnel throughout Aug. Project Team MTG to occur in late-Aug 2012.

7/17/12

Scoping document finalized. Work plan is currently in the development phase. Focus is on minor concrete. Pavement TAP Preliminary Investigation (Lit Search) on this topic to take place in the coming months. Tm MTG set for August 2012.

7/3/12

The preliminary investigation is on-going. The report is due end of July. Updated scoping document for research was submitted to the task group for review and approval.

4/24/12

Scoping document finalized. Work plan is currently in the development phase. Focus is on minor concrete. Pavement TAP Preliminary Investigation (Lit Search) on this topic to take place in the coming months. Tm MTG set for early-May.

2/23/12

Scoping document drafted. Will be refined by project team. Work plan is currently in the development phase. Focus is on minor concrete. Pavement TAP to consider Preliminary Investigation (Lit Search) on this topic. Tm MTG set for late-Feb

1/23/12

Pavement TAP to consider Preliminary Investigation (Lit Search) on this topic. Team MTG set for late-Jan

1/17/12

Scoping document drafted. Will be refined by project team.

12/23/11

Scoping Document will be revised by project team and will reflect emphases on minor concrete. Questions regarding the target deadline for the activity, as well as the applicable end uses and an example case study, still need to be addressed. Industry is to also provide details on usage history in Minor Concrete in California. Pavement TAP may be used to explore state of the art practices for recycled concrete material. Focus is on minor concrete.

11/22/11

Scoping Document has been drafted as of this date and will distributed to the Task Group for review and approval in the coming weeks. Team members are currently being identified by Industry and the first project team meeting is scheduled for mid-Dec 2011.

10/20/11

This project was proposed at the October 13, 2011 TG meeting. The project team members are currently being identified by Industry. A project team meeting will take place in the near future to deliver the scoping document and detailed work plan.

**Project Compensation for Ordered Increases in Additives**

**Task Group** Foundation **Subtask Group** Stabilized Bases  
**Target Completion Date** 12/30/2013 **Number** 11 **Status** Active **Progress** 62 % **Rock Products Committee** YES

**Purpose** Develop specifications for compensation of additional costs for ordered increases in stabilizing additive for soil stabilization projects beyond the theoretical amount.

**Overall Progress** Phase-1 is complete. Pay item based on high calcium lime will be used when dolomitic lime is used during construction.

**Activities Planned** Develop language to incorporate additional cost due to increased order of additives (lime) by 12/30/2013.

Project Lead	Office	Ofc of Rigid Pvt and Pvt Foundation	Phone	E-FIS Project	E-FIS Subtask Number	
Deepak Maskey	Industry	Ofc of Rigid Pvt and Pvt Foundation	916 227 5842			
Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Phase-1: Data Collection and Presentation	Industry	7/1/2012	12/15/2012	100	100	On 12/5/2012, industry presented detail information on additional cost occurred due to ordered increase additives.
# 2 Phase-2: Specifications	Industry	12/5/2012	8/30/2013	80	90	Phase-2: A draft specification developed to incorporate specification for additional cost due to ordered increase additives (lime) by 12/30/2013.
# 3 Phase-2: Construction Guide	Industry	12/5/2012	12/30/2013	0	60	Phase-2 : Develop of language to incorporate into guide for additional cost due to ordered increase additives by 12/30/2013.
# 4					0	
# 5					0	
# 6					0	
# 7					0	
# 8					0	

**Log** 8-2-2012: Tentative construction costs for application of 4% and 6% of cement in subgrade stabilization are received on 6/18/2012

9/24/2012: Meeting was conducted on 7/19/2012 and discussed followings:

-Reviewed project work plan pertaining to:

-Scope of work

Issue of occurred additional construction costs including cost of additives due to ordered increase additives (lime/cement) during the construction.

-Deliverables

-Phase-1: Presentation to convince RPC for the occurrence of additional construction cost due to ordered increase additives.

-Phase-2: After approval of Phase-1 presentation, develop updates to existing specifications to incorporate identified additional costs in phase-1.

-Phase-3: Develop updates for pertaining guide to include important field administration issues and procedures.

-Industry Co-Chair Bob Durham will provide Information on Industry members for Soil STG.

-Following existing specifications were reviewed pertaining to the additional cost pay clauses occurring from the ordered increase additives:

-Section 24-2 Lime Stabilization

-Section 24-3 Cement Stabilization

-Section 27-3 Cement Treatment and

-Section 30-2 Full-Depth Reclamation-Foamed Asphalt

-Information on Caltrans projects pertaining to the additive spreading rates and total quantity were presented to inform scale of work and variation of additive spread rates.

-Discussed about how ordered increase of a truck load additive during the construction affects construction process and occur additional construction cost i.e.:

-Application of a truck load of additional additives can take additional 1 hour of construction cost due to additional spreading, watering and mixing time.

-All members agreed on occurrence of additional construction cost due to the ordered increase additives. It is decided to itemize additional cost from real data and perform analysis to determine how ordered increase additives increase construction cost. And how this occurred cost can be addressed i.e. by wt (tons), bid unit item or by other measures.

-Agrees to expedite work by conducting 2 meetings each month.  
 -Next meeting is on October 3, 2012  
 12-17-2012: Phase-1 presented on 12-5-2012. Development of scoping document for phase-2 is on progress.  
 12/20/2012: A draft scoping document for phase 2 is prepared and sent out to Industry for review.  
 12/26/2012: A scoping document for phase-2 is submitted for approval.  
 -First meeting was held on 3/14/2013 and discussed how to incorporate dolomite lime instead of high calcium lime when used in during construction.  
 4/29/2013: STG meeting was held on 4/26/2013 and consensus was to focus on measurement and pay clauses pertaining to the types of lime used and ordered increase in stabilizing additives.  
 7/10/2013: Final draft specification was circulated through industry and Caltrans. Big objection was raised from Industry on pay factor reduction of 0.645 for dolomitic lime. Global consensus from Industry could not be achieved but proposed to use strength (ucs) criteria to derive pay factor for dolomitic lime. On 6/14/2013, HQ-Construction proposed to use normalized CaO for pay factor but Industry could not reach the agreement on a new proposed pay factor. The proposed due date to meet July moratorium for specification publication could not meet due to the last moment disagreement among the Industry partners. However, it was decided to meet after July 15, 2013 when HQ-OE will be relieved from work load after specification moratorium date.  
 7-31-2013: Agreed to use pay item based on high calcium lime even when dolomitic lime is used.

**Project Intelligent Compaction**

Project	Task Group	Foundation	Subtask Group	Specifications
Target Completion Date 1/30/2016	Number 12	Status Active	Progress 0 %	Rock Products Committee YES

**Purpose** Develop specification for using intelligent compaction as quality control for Full Depth Reclamation (FDR) and Cold In-place Recycling (CIR).

**Overall Progress** None

**Activities Planned** First sub task group meeting scheduled for August 13, 2013.

Project Lead	Office	Construction Engineering	Phone	E-FIS Project	E-FIS Subtask Number	
Chuck Suszko	Construction Engineering	(916) 798-6029				
Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 NSSP for Pilot Projects	HQ Constr	8/1/2013	10/30/2013	0	0	
# 2 Pilot Projects CIR and FDR	HQ Constr	11/1/2013	9/1/2015	0	0	
# 3 Analyze Results from Pilot projects	HQ Constr	7/1/2014	10/30/2015	0	0	
# 4 Finalize SSP	HQ Constr	9/1/2015	1/15/2016	0	0	
# 5 User guidance including construction manual update	HQ Constr	9/1/2015	1/30/2016	0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

**Log**

**Project** Cold In-Place Recycling **Task Group** Preservation **Subtask Group** Recycling  
**Target Completion Date** 12/31/2013 **Number** 3 **Status** Active **Progress** 42 % **Rock Products Committee** YES

**Purpose** Evaluate existing pilot projects and develop standardized lab procedures for mix design, project design and construction guidance, and standard specifications for CIR.

**Overall Progress** Specification has been updated to address CT and Industry recent comments. LP-8 has been rewritten to include an engineered mix design process to move CIR from being an "art" to engineered approach.

**Activities Planned** Circulation of updated LP-8 and revised CIR specification for review and comment. Resolution of comments received on LP-8 and specification.

Project Lead	Hamid Moussavi	Office	Asphalt Pavement		Phone	916-274-6176	E-FIS Project	E-FIS Subtask Number
Deliverable or Task		Office	Start Date	End Date	Complete %	Elapsed %	Status	
# 1 Evaluate existing pilot projects (21 projects)		Asphalt	8/26/2011	12/31/2013	75	80	A few projects were visited.	
# 2 Develop standard special provisions		Engr	1/1/2012	12/31/2013	75	80	Revised specification should be ready for circulation 4/5/13.	
# 3 Standardize test methods/ lab procedures		Mets	9/3/2012	12/31/2013	50	70	LP-8 rewritten as aengineered mix design.	
# 4 Develop guidelines/ MTAG		Asphalt	1/2/2013	12/31/2013	0	60	No Progress	
# 5 New Mix Design and JMF Forms		Asphalt	3/1/2013	12/31/2013	0	50	Waiting for LP-8	
# 6 Evaluate existing pilot projects in Southern region, Pavement Recycling Center at Cal Poly, Pomona (6 projects)		Cal Poly Po.	9/1/2011	6/30/2013	100	100	Cal Poly completed the report. Some data missing (not provided).	
# 7					0	0		
# 8					0	0		

**Log** 7/29/2010 Approximately 7 projects have been done and 3 more upcoming.

Total of 22 projects were selected and planned for summer of 2011 construction (some still in construction).

7/8/2011 Sub Task Group met and discussed some spec related issues.

8/26/2011 Cal Poly Pomona Recycling Center will monitor some Southern region projects to improve existing nSSP and project selection.

9/6/2011 The following projects are under evaluation by Cal Poly Pomona:

08-0P3504, SBD-95 PM 33.6/37.3 & 47.6/56.1

08-0P3604, SBD-62 PM 106.0/122.0

09-347304, INYO-136 PM 10.0/12.5 & INYO-168 PM 18.3/20.4

06-415904, KING-41 PM 11.6/20.0

06-459104, KERN 119 PM 0.0/4.3

06-0M4504, KERN 33 PM 68.8/73.7

9/9/2011 Sub Task Group met and discussed issues with the most recent projects and continued discussions on how to improve specs, including; mix design, smoothness, project selection, addition of cement, and cores vs. milling.

12/15/2011 Cal Poly has completed most of the sampling and testing of the above six CIR projects. The next Sub Task Group meeting is scheduled for 1-13-2012.

1/13/2012 Sub Task Group met in Cal Poly Pomona and continued discussions on how to improve the use of CIR technique. Industry will submit their position on a few issues to Caltrans by January 31, 2012. The outstanding issues are:

- Addition of cement, industry to submit their position
- LP-8, Industry's proposal is under review by METS
- Distillation vs. Evaporation test to determine emulsion residue, under review by METS
- Accredited lab & test results turnaround time, industry to submit their position
- Small repairs, industry to submit their position
- Smoothness, industry to submit their position
- addition of water (too much) will be further discussed

6/8/12 Sub Task Group met in Cal Poly Pomona to discuss changes/modifications to the specs

6/12/12 Specs was send to CT & Industry for review

3/27/13 CDS Update overall progress, activities planned and deliverables.

**Project Fog Seal**

**Target Completion Date** 1/17/2014      **Number** 4      **Status** Active      **Task Group** Preservation      **Progress** 49 %      **Subtask Group** Seals & Coats      **Rock Products Committee** YES

**Purpose** Investigating Fog Seal/Rejuvenator materials for skid resistance issues and introducing as a strategy again

**Overall Progress** Chico State has evaluated 6 fog seals placed by "Materials in Place" contracts. Evaluation data is not sufficient and additional projects are necessary for evaluation.

**Activities Planned** Place additional "Materials in Place" this summer and fall and perform additional evaluations.

Project Lead	Douglas Mason	Office	Pavement Management				Phone	916-274-6058	E-FIS Project		E-FIS Subtask Number	
Deliverable or Task		Office	Start Date	End Date	Complete %	Elapsed %	Status					
# 1 Develop project scope and identify deliverables	Asphalt	11/1/2005	5/4/2007	100	100	Completed. 5/4/07						
# 2 Construct and monitor test sections with material testing	Chico	6/1/2007	4/30/2013	94	105	Draft report completed. Gathering data on maintenance projects scheduled for July-October 2012.						
# 3 MTAG Update	Asphalt	9/1/2008	4/1/2010	100	100	Completed MTAG update for State Forces 4/10/10						
# 4 Develop Draft Specifications (SSP)	Asphalt	10/1/2011	1/17/2014	50	80	On hold until additional "Materials in Place" contracts are evaluated.						
# 5 Second round construct and monitor test sections with material testing	Chico	4/1/2013	10/1/2013	0	65							
# 6 MTAG Update	Asphalt	10/1/2013	1/15/2014	0	0							
# 7 Training and Outreach including MTAG	Asphalt	3/1/2013	12/2/2013	0	55							
# 8				0	0							

**Log** 4 sets of test section have been done.  
 The subtask group needs to draft their proposed specification  
 1/13/11, Irouen update targets and Pys  
 2/14/11, Update target dates and task definitions, PJV  
 4/25/11 - Status Update, SR  
 5/6/11-Updated Status and Tasks definitions, held last Fog Seal Meeting 5/5/11, DM  
 6/24/11-Updated Status and next General Meeting of Seal Coat Committee is 7/7/11, DM  
 9/6/11-Cores for testing were delivered to APART on 7/8/11, DM  
 10/12/11-Draft Report on test sections delivered to Caltrans, still waiting for skid test results and some additional pavement tests for report to be complete. Doug will check with districts to see if request for skid test was placed and status. DM  
 10/13/11-Fog Seal meeting held 10/13/11. Proceeding with a generic specification. Subtask group will meet 10/24/11 to review and finalize generic test requirements for each category type. DM  
 Location of Test Sites:  
 Kern 58 PM 123.3 to 125.1 Eastbound #2 Lane -District 9  
 Men 128 PM 25.0 to 28.0 Eastbound Lane- District 1  
 Modoc 395 PM 23.3 to 25.0 Northbound Lane -District 2  
 Inyo 395 PM 118.47 to 120.58 Northbound #2 Lane - District 9  
  
 11/23/11-Subtask group met 10/24/11 to finalize final test requirements for the development of the generic spec. John Fox will type up the first draft for the committee to review and comment on. Doug will send out once converted to plain language format.DM  
  
 5/30/12-John Fox sent in first draft of the fog seal specification. Specification was given to Peter Vacura for review. Vacura's staff and CP2 are doing testing on materials in place fog seals to aid with general specification. DM  
  
 03/27/13 CDS Updated overall progress, activities planned and deliverables. Added second round evaluation to deliverables.

**Project Rubberized Slurry Seal**

Project	Task Group	Preservation	Subtask Group	Specifications
Target Completion Date	8/1/2013	Number	5	Status
		Active	Progress	61 %
			Rock Products Committee	YES

**Purpose** Develop a nSSP for Rubberized Slurry Seal, evaluate performance and determine if strategy is beneficial for use on projects.

**Overall Progress** Surface Seals Sub Task Group meeting held on December 17, 2012. Industry members to submit product specifications to Caltrans.

**Activities Planned** Caltrans to review product specifications and attempt to create first draft of generic specification for rubberized slurry seals.

Project Lead	Office	Start Date	End Date	Complete %	Elapsed %	E-FIS Project	E-FIS Subtask Number
Douglas Mason	Pavement Management					916-274-6058	
Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status	
# 1 Create NSSP	Asphalt	6/1/2009	10/31/2012	100	100	Was completed but revising to include attempt to account for REAS strategy.	
# 2 Construct D-11 Test Section	District	2/15/2011	7/29/2011	100	100	Completed	
# 3 Evaluation of D11 project site	Chico	8/1/2011	8/1/2013	100	100	Plan to visit in Summer/Fall 2012.	
# 4 Construct D6 Test Section	District	7/1/2011	12/1/2011	100	100	Construction completed	
# 5 Evaluation of D6 project site	Chico	12/1/2011	8/1/2013	100	100	Evaluated June 2012. Update report.	
# 6 SSP	Asphalt	1/1/2013	6/28/2013	5	120	Attempting to develop spec with language to account for REAS strategy.	
# 7 MTAG Guidelines	Chico	1/1/2013	6/28/2013	0	120	Waiting for SSP development.	
# 8				0	0		

**Log** 9-1-2010, two REAS project are expected to be done this year, 11-277804 and 07-4Y3204. Need to plan projects for other methods.

5/13/11 - Updated Status, PJV

6/24/11-Updated Status and held focused rubberized slurry seal meeting 6/17/11, next General Meeting of Seal Coat Committee is set for 7/7/11, DM

7/6/11-Test Site Location D11 - EA 11-277804, EFIS 11-00000288

In San Diego County at Rincon, Lake Henshaw and Morettis from Valley Center Road to Route 79.

11-SD-76-PM 32.9/52.3

Test Site Location D6 - EA 06-0J4904, EFIS 06-00000184

IN KERN AND KINGS COUNTIES ABOUT 6 MILES SOUTH OF KETTLEMAN CITY FROM ROUTE 46/5 SEPARATION TO 2.9 MILES NORTH OF WATERLOO AVENUE

06-Ker/Kin-05-73.0/87.0,0.0/10.0 (Project location was modified, test sections will be the first mile and last mile of the project)

9/6/11-Held focused rubberized slurry seal meeting 8/10/11. Will start 1st draft of a performance NSSP using REAS and terminal blend slurry seals. Target date for 1st Draft for committee members was 9/7/11. Next meeting will be mid to late September. DM

9/21/11- Revised workplan. Updated progress of industry has submitted revised NSSP for subcommittee to review. DM

10/13/11-District-11 pilot project completed in September and initial evaluation by CP2C has performed. D6 test site location has been modified to include the entire project lane miles since the construction of the test sections went so well and the District was happy with the results. The draft of the NSSP is being converted to plain language format prior to being sent out to committee members. Next meeting is tentatively scheduled for 10/24/11 if format is complete. DM

11/23/11-Draft copy of plain language format of rubberized slurry seal sent out 11/08/11 to Task group members for review. Next scheduled meeting we will go over comments received and finalize for use.DM

**Project Modified Binder Chip Seal (PM/TR)**

**Task Group** Preservation **Subtask Group** Specifications  
**Target Completion Date** 7/19/2013 **Number** 6 **Status** Active **Progress** 46 % **Rock Products Committee** YES

**Purpose** Improve and expand the polymer modified chip seal spec to include terminal blend rubber

**Overall Progress** Surface Seals Sub Task Group meeting held on December 17, 2012. Comments provided on 2006 NSSP for modified binder sael coats. Draft revised section 92 completed that includes both polymer and tire rubber modified binders.

**Activities Planned** Develop 2010 SSP Modified Binder for Section 37 based on 2006 NSSP and comeents received. Circulate draft 2010 SSP Modified Binder seal coat to Modified Binder Working Group of the Surface Seals Sub Task Group for review and comments.

Project Lead	Office	Start Date	End Date	Complete %	Elapsed %	E-FIS Project	E-FIS Subtask Number
Douglas Mason	Pavement Management					916-274-6058	
Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status	
# 1 Develop 2006 NSSP	Asphalt	12/1/2008	12/1/2010	100	100	2006 NSSP completed and used on pilot projects.	
# 2				30	0		
# 3 Complete SSP	Asphalt	12/3/2012	7/19/2013	40	105	Draft 2010 SSP completed and ready for circulation.	
# 4 Update Guidelines	Chico	12/3/2012	6/28/2013	0	115	No progress.	
# 5				0	0		
# 6				0	0		
# 7				0	0		
# 8				0	0		

**Log** Test section have been completed in district 11.  
 NSSP is currently in use.  
 1/13/11, Irouen, updated Pys  
 2/9/11, Added nSSP deliverable  
 5/6/11, Modified order of deliverables, DM  
 6/25/11, Next General Meeting of Seal Coat Committte is set for 7/7/11, DM  
 9/6/11, General Meeting held 7/7/11. Modified order of deliverables based on committee comments, DM  
 9/21/11, Modified Project Name to Modified Binder Chip Seal. DM  
 10/13/11, Industry has uploaded previous project locations of State, County and Local Agencies projects utilizing the Modified binder chip seal for historic information. Caltrans needs to evaulate performance of site locations. DM  
 11/23/11, Held general meeting 11/14/11, have not held a focused subtask meeting on this. At general meeting, decision was to look into this next year as we finsh off the rubber slurry, sand and fog & rejuvenator specs.DM  
 03/27/13 CDS Updated overall progress, activities planned and deliverables.

**Project Scrub Seal**

**Task Group** Preservation      **Subtask Group** Seals & Coats  
**Target Completion Date** 6/28/2013      **Number** 7      **Status** Active      **Progress** 34 %      **Rock Products Committee** YES

**Purpose** Develop specifications to use scrub seal as a preservation method.

**Overall Progress** Surface Seals Sub Task Group meeting held on December 17, 2012. Scrub Seal Working Group formed to address development of specification. Industry provided product information and comments on what should be included in PMRE material testing requirements.

**Activities Planned** Draft 2010 SSP for Scrub Seal to be completed by Caltrans based on the comments received and circulated to the Scrub Seal Working Group for review and comments.

Project Lead	Douglas Mason	Office	Pavement Management			Phone	916-274-6058	E-FIS Project		E-FIS Subtask Number	
Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status					
# 1 NSSP/Update Workplan	Asphalt	6/1/2010	6/1/2011	100	100	End date to be determined.					
# 2 Evaluation of previous Test Section- Rte 178 in District 9	Chico	6/1/2011	4/1/2013	50	120	Monitoring continuing. Report updated and in review/comment phase.					
# 3 Develop and Finalize SSP	Asphalt	12/3/2012	6/28/2013	10	115	Draft 2010 specification should be completed by mid April 2013.					
# 4				0	0						
# 5 Update MTAG	Chico	1/1/2013	6/28/2013	0	120						
# 6				0	0						
# 7				0	0						
# 8				0	0						

**Log** 5/13/2011 - Updated Status, PJV  
6/27/2011- Updated Status, focused Scrub Seal meeting held 6/22/11 and next General Meeting of Seal Coat Committte is set for 7/7/11, DM  
Location of Scrub Seal Site with Styraflex and PASS:  
SBD 178 PM 4.0 to 10.0  
10/13/11, Updated Status, focused scrub seal meeting held 10/13/11. Draft NSSPs delivered to Caltrans. Need to convert to plain language format and get final emulsion test requirements that should be covered in 10/24/11 meeting. DM  
11/23/11-Conversion of specification to plain language format in process. Joint sub task group meeting with fog seal group held on 10/24/11 to finalize test requirements between industry for generic spec. Doug will send 1st draft bersion to committee members when available.DM  
9/13/12-Received 1st draft specification from Mike Ristic. D2 is reviewing draft specification before send out to committee for review. DM  
03/28/13 CDS Updated overall progress, activities planned and deliverables.

**Project Warm Mix Asphalt Rubber Chip Seal**

**Task Group** Preservation **Subtask Group** Seals & Coats  
**Target Completion Date** 12/1/2014 **Number** 8 **Status** Active **Progress** 21 % **Rock Products Committee** YES

**Purpose** Introduce WMA technology into asphalt rubber chip seal strategies.

**Overall Progress** Asphalt rubber seal coat pilot non-standard special provision (NSSP) created and circulated for comments. Meeting held on March 6, 2013 to finalize pilot seal coat NSSP.

**Activities Planned** Create separate scoping document to cover crumb rubber modified seal coat pilot projects and review scoping document for WMA Asphalt Rubber Chip Seals for scope.

Project Lead	Douglas Mason	Office	Pavement Management			Phone	916-274-6058	E-FIS Project		E-FIS Subtask Number	
Deliverable or Task		Office	Start Date	End Date	Complete %	Elapsed %		Status			
# 1 NSSP		Asphalt	8/3/2010	1/18/2013	95	120	In progrss.				
# 2 Pilot Projects		District	1/2/2013	9/30/2013	10	75	Candidate project in District 2.				
# 3 Evaluation of Project		Chico	5/2/2013	10/1/2014	0	15					
# 4 Evaluation Report		Asphalt	7/1/2013	12/1/2014	0	5					
# 5					0	0					
# 6					0	0					
# 7					0	0					
# 8					0	0					

**Log** 8/3/10-nssp just being developed for possilbe CT demo project in D6, Fresno Rte 5.  
 1/11/11, Irouen, revised Pys and target dates.  
 2/14/11, Rewrite purpose and need, PJV  
 6/25/11-Next General Meeting of Seal Coat Committe is set for 7/7/11, DM  
 10/13/11, Held general meeting 7/7/11, have not held a focused subtask meeting due to construction season and availabilty of industry members. DM  
 11/23/11, Held general meeting 11/14/11, have not held a focused subtask meeting on this. At general meeting, decision was to look into this next year as we finish off the rubber slurry, sand and fog & rejuvenator specs.DM  
 8/8/12-Held meeting with Seal Coat committee to discuss proposed AR chip seal specification. Industry had a few concerns with proposed specification. DM  
 9/26/12-Revised AR chip seal specification sent out to industry, maintenance engineers, and material engineers for comment. Scheduled next seal coat committee meeting to discuss specification to be held Oct. 9 at translab. DM  
 11/1/12 -Held meeting with Seal Coat committee on Oct. 19th to discuss proposed AR chip seal specification and comments received by industry and Caltrans. Industry had a few concerns with terminology used by Caltrans. A technical task group will review some of the proposed technical specifications dealing with viscosity, softening point, sampling, and vial test in mid-November to resolve issues. Internally, Caltrans will review the terminology issue with management and other issues brought up by the comments. DM

**Project Quieter Concrete Pavement**

**Task Group** Preservation **Subtask Group** Concrete Repairs  
**Target Completion Date** 7/19/2013 **Number** 14 **Status** Active **Progress** 94 % **Rock Products Committee** YES

**Purpose** To reduce noise generated by tire-pavement interaction on concrete pavements. Next Generation Concrete Surface (NGCS) grind and groove promises to reduce tire-pavement noise significantly.

**Overall Progress** UCPR submitted draft NGCS report for review. Review comments sent to UCPRC on June 28. UCPRC continues to collect data for the fourth year concrete pavement QPR study.

**Activities Planned** UCPRC to provide status on fourth year QPR data collection by July 31, 2013 and submit revised NGCS draft report by August 15, 2013.

Project Lead	Linus Motumah	Office	Concrete Pavement	Phone	916-227-5851	E-FIS Project		E-FIS Subtask Number	
Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status			
# 1 Nssp for NGCS	Conc Pvmt	7/1/2008	1/1/2010	100	100	Approved subject to revisions on a case-by-case basis as needed.			
# 2 Identify potential projects for NGCS pilot test sections	Conc Pvmt	1/1/2011	6/30/2011	100	100				
# 3 Finalize rigid QP research first and second year report.	UCPRC	7/1/2010	10/31/2011	100	100	Final report published and signed by UCPRC and Caltrans.			
# 4 Complete rigid QP research third year data collection & report.	UCPRC	7/1/2010	12/31/2012	100	100	Third year final report published on 4/2/13.			
# 5 Complete rigid QP research fourth year data collection &	UCPRC	7/1/2011	9/30/2013	75	105	Data collection continuing. UCPRC to submit status update by July 31, 2013.			
# 6 Evaluation of OBSI and texture characteristics of NGCS pilot test sections.	UCPRC	5/1/2011	8/31/2013	99	115	UCPRC to submit revised draft report by August 15, 2013.			
# 7 Develop work plans for field evaluation of NGCS pilot test sections (Sac 5n, Sac 5s, Sac 50, Sac 80, Yol 113, SJ 99 & SD 5)	UCPRC	5/1/2011	7/19/2013	100	100	Development of work plans by UCPRC in collaboration with Pavement Program completed.			
# 8				0	0				

**Log** NEXT GENERATION CONCRETE SURFACE (NGCS) PILOT PROJECTS IN FY 2011/12: ALL COMPLETED

DISTRICT	EA	COUNTY	ROUTE	Project Post Mile Limits	Grind & Groove Limits	Conventional Grind Limits	STATUS
3	0A800	Sac	50	Segment 1: R2.6 to R5.4 Segment 2: R12.2 to R14.2	"WB: PM R12.80 to R14.20"	" EB & WB: PM R2.66 to R5.40 EB: PM R12.20 to R14.20"	Springng 2012. COMPLETED
3	1F450	Sac	5	"Segment 1: 17.2 to 22.8 Segment 2: 24.2 to 24.8"	NB from PM 18.69 to PM 22.42 SB from PM 22.42 to PM	18.69	"Under Construction" C COMPLETED
3	0F590	Sac	5	0 17.2 NB from PM 1.04 to PM 3.14	"NB from PM 0.0 to PM 1.04 NB PM 3.14 to PM 3.5 SB from PM 3.5 to PM 0.0"		"Under Construction"n". G NGCS started on Dec 11, complete by Dec 16, 2011. COMPLETED
3	2F040	Sac	80	12.4 18.0	"EB: PM 12.79 to 17.56 WB: PM 12.91 to 18.00"	N/A	START Feb 2012 COMPLETED mid-May
3	2F050	Yol	113	R0.0 R11.1	"NB: PM R0.20 to R1.50 SB: PM R1.50 to 0.25"	"NB: PM R1.50 to R11.1	SB: PM R1.50 to R11.1 COMPLETED NOV 7.
10	0V870	SJ	99	NB PM 29.0 NB PM 30.8	NB: PM 29.0 to 30.8	N/A	Summer/Fall 2011 Summe 2012. COMPLETED

11 07760 SD 5 R36.35 R37.35 "NB from PM R36.35 to R37.35 SB from PM R37.35 to R36.35"  
 CDG Completed in 2011 - different contract. NGCS pilot project completed June 2012. COMPLETED  
 report.

**SUMMARY**

- 1) NGCS draft report reviewed and comments sent to UCPRC on June 28, 2013.
- 2) UCPRC to submit revised NGCS draft report by August 15, 2013.
- 3) UCPRC conducting Fourth Year QPR study, status update by July 31, 2013.

<b>Project</b>	<b>Concrete Sealer/ Hardener</b>				<b>Task Group</b>	Preservation	<b>Subtask Group</b>	Concrete Repairs	
<b>Target Completion Date</b>	6/30/2015	<b>Number</b>	16	<b>Status</b>	Active	<b>Progress</b>	30 %	<b>Rock Products Committee</b>	YES
<b>Purpose</b>	Reduce traffic related abrasion and chloride related deterioration of concrete pavement exposed to extreme conditions.								
<b>Overall Progress</b>	Developing test plan and nSSP's for hardener and shot blasting test sections. Waiting for revised task order submittal for 1st year data.								
<b>Activities Planned</b>	Develop test plan for test sections; coordinate pilot projects and testing for 2013 construction season. Review 1st year data.								
<b>Project Lead</b>	Robert Hogan	<b>Office</b>	Concrete Pavement			<b>Phone</b>	916-227-5840	<b>E-FIS Project</b>	<b>E-FIS Subtask Number</b>
<b>Deliverable or Task</b>		Office	Start Date	End Date	Complete %	Elapsed %		Status	
<b># 1</b>	Cost analysis and nSSP	Conc Pvmt	7/2/2012	11/30/2012	100	100	Drafted hardener nSSP and PIF.		
<b># 2</b>	Pilot projects	District	7/30/2012	10/1/2013	65	85	Hardener placed on Sept 11-12 WB at Kingvale 03-4M3004; 03-Pla,Nev-80-68.8/69.8, 0.0/R2.5. Shot blasting and retreatment of original 2009 Soda Springs test section on Oct 9-10. Grind/ shot/ treat on 03-Nev-80 Boca-Floriston		
<b># 3</b>	Test plan	Conc Pvmt	7/25/2012	10/4/2013	50	90	CP2 Center draft being developed.		
<b># 4</b>	Materials issues	Materials	1/7/2013	9/1/2014	0	85	Review product info, patents, and standard tests.		
<b># 5</b>	SSP	Conc Pvmt	6/3/2013	6/30/2015	0	15	Version 2 update for materials pre-QPL.		
<b># 6</b>	Guidance	Chico	9/1/2014	12/19/2014	0	5	MTAG and Construction Manual.		
<b># 7</b>	Performance reports	Chico	10/1/2012	2/1/2015	10	35	Initial report by 11/15/13 pending pilot construction.		
<b># 8</b>	Training material	Conc Pvmt	8/1/2014	6/30/2015	0	0	TBD		
<b>Log</b>	8/3/2010- October 2009, a section of PCC pavement on I-80 near Soda Springs was treated with this material Cores taken October 2010. 3/23/11, Irouen, update deliverables and schedules 4/8/11, d glauz, revised progress, purpose and need. 5/15/12 Draft scoping doc sent to work group 5/30/12 Updated database 7/30/12 Updated database to reflect latest scoping doc								