ROCK PRODUCTS COMMITTEE

WORK PLAN STATUS

May 4, 2015

"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”

STATE OF CALIFORNIA
PAVEMENT PROGRAM STATUS CALENDAR

DEPARTMENT OF TRANSPORTATION

2015

ROCK PRODUCTS COMMITTEE MEETINGS CALENDAR

JAN

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

FEB

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8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

MAR

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29	30	31				

APR

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26	27	28	29	30		

MAY

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31						

JUN

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28	29	30				

JUL

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26	27	28	29	30	31	

AUG

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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

SEPT

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OCT

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NOV

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29	30					

DEC

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6	7	8	9	10	11	12
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27	28	29	30	31		

JAN 2016

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17	18	19	20	21	22	23
24	25	26	27	28	29	30

Calendar Legend

- Quarterly Rock Products Committee (RPC) Meeting
- Monthly RPC Co-Chairs 3+2 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

Pavement Program Project Management Monthly Report

Project **Quieter Flexible Pavement** **Task Group** Asphalt **Subtask Group** Quieter Pavement

Target Completion Date 12/31/2015 **Number** 9 **Status** Active **Progress 64 %** **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

Project Lead Rupinder Dosanjh **Office** Asphalt Pavement **Phone** (916) 274-6078 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Conduct and report laboratory evaluation of OGFC mixes	UCPRC	7/1/2009	7/29/2011	100	100	UCPRC report approved by Caltrans
# 2	Lab HVS evaluation and report on quieter OGFC mixes	UCPRC	7/1/2011	12/30/2014	95	110	HVS testing is complete. Report in Stage 2
# 3	Develop NSSP for quieter OGFC mixes	Asphalt	9/1/2014	4/30/2015	0	100	No progress to date. Was under temporary suspension to focus on deploying inertial profilers. Will start work on this
# 4	Update & adopt specification for OGFC mixes	Asphalt	10/1/2015	12/31/2015	0	0	
# 5	Complete 5th yr flexible QP research & report	UCPRC	7/1/2011	10/1/2012	100	100	
# 6	Review 4th yr flexible pavement evaluation & report	Asphalt	10/10/2011	12/31/2011	100	100	Report completed and published
# 7	Field evaluation on quieter OGFC mixes	Asphalt	5/1/2015	9/30/2015	0	0	
# 8	Review 5th yr flexible pavement evaluation & report	Asphalt	8/16/2012	11/30/2012	100	100	Report received on 8/16/12

Log 07/11/11 - Status Update - PJV
09/06/11 - Status Update - RSD
10/12/11 - Status Update - RSD
11/17/11 - Status Update - RSD
06/18/12 - Status Update - RSD
09/27/12 - Status Update - RSD
10/10/12 - Status Update - RSD
05/28/13 - Status Update - RSD
10/02/13 - Status Update - RSD
01/16/14 - Status Update - RSD
07/30/14 - Status Update - RSD
11/14/14 - Updated Deliverable 2 target completion date - CDS
12/26/14 - Updated status and target dates - SNB

Project **Intelligent Compaction** **Task Group** Asphalt **Subtask Group** Intelligent Compaction

Target Completion Date 12/31/2015 **Number** 18 **Status** Active **Progress 43 %** **Rock Products Committee** YES

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

Overall Progress Four pilot projects have been completed and bid opening has occurred on fourteen additional pilot projects. Met with roller manufacturers and IC system providers on December 15, 2014 to discuss issues that must be addressed moving forward.

Activities Planned Veda software workshop scheduled for May 28, 2015 for release 3.0 to discuss revisions to Veda software and provide hands on training producing daily compaction quality control reports.

Project Lead Chuck Suszko **Office** Construction Engineering **Phone** (916) 798-6029 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	NSSP for Pilot Projects	HQ Constr	8/1/2013	1/10/2014	100	100	Completed.
# 2	IC Demonstration Project	HQ Constr	6/1/2013	9/6/2013	100	100	IC demonstration completed.
# 3	Pilot Projects (Target 6 projects)	HQ Constr	1/30/2014	4/1/2015	100	100	Three HMA pilot projects are completed.
# 4	Analyze results from pilot	HQ Constr	5/1/2014	6/1/2015	65	90	Four pilot projects are completed and one is under construction.
# 5	2nd Round Pilot Projects (Target 10 projects)	HQ Constr	10/1/2014	6/1/2015	5	85	4 projectshave had bid openings and four additional projects have been selected selected.
# 6	Analyze results from pilot	HQ Constr	3/1/2015	8/30/2015	0	35	Waiting for information.
# 7	Finalize SSP	HQ Constr	1/1/2015	10/30/2015	0	40	No work yet.
# 8	User Guidance for IC to be included in Construction Manual	HQ Constr	4/1/2015	12/31/2015	5	10	Draft IC Construction Guidance is almost complete.

Log 09/27/13 - Updated progress - CDS
10/30/13 - Updated progress - CDS
04/29/14 - Updated overall progress, planned activities and deliverables % complete - CDS
06/27/14 - Updated overall progress, planned activities and deliverables % complete - CDS
11/24/14 - Updated overall progress, planned activities and deliverables % complete - CDS
12/17/14 - Updated overall progress, planned activities and deliverables % complete. Added 2nd round of pilot projects as a deliverable - CDS
01/29/15 - Updated deliverables % complete.
03/3//15 - Updated deliverables % complete.
04/30/15 - Updated orverall progress, planned activities and deliverables % complete

Project **Asphalt Rubber Binder Quality Control** **Task Group** Asphalt **Subtask Group** Asphalt Rubber Binder Quality Control

Target Completion Date 5/31/2015 **Number** 20 **Status** Active **Progress 99 %** **Rock Products Committee** YES

Purpose Identify specification contractor quality control requirements for asphalt rubber binder.

Overall Progress Final meeting held on August 15, 2014. Section 37 and 39 ARQC final draft specification were completed. Section 39 ARQC was posted on October 17, 2014. Section 37 ARQC will be included in 2015 Standard

Activities Planned Industry is collecting data to justify modifying acceptance viscosity range for asphalt rubber binder based on reheating samples.

Project Lead Kee Foo **Office** Asphalt Pavement **Phone** (916) 274-6077 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 RSS Section 39	Asphalt	8/5/2013	9/1/2014	100	100	Sub Task Group Meeting held June 6, 2014 and QC testing and lab heating of ARB were discussed.
# 2 RSS Section 37-2	Asphalt	8/5/2013	9/1/2014	100	100	Sub Task Group Meeting held June 6, 2014 and QC testing and lab heating of ARB were discussed.
# 3 Publish Revised Specification	Asphalt	6/1/2014	5/31/2015	95	90	Section 39 RSS posted on 10/17/14. Waiting for testing results from industry to see if there any need to revise the viscosity range.
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 09/27/13 - Updated progress - CDS
04/29/14 - Updated overall progress, planned activities and deliverables % complete - CDS
06/27/14 - Updated overall progress, planned activities and deliverables % complete - CDS
07/10/14 - Updated overall progress, planned activities and deliverables % complete - KYF
07/27/14 - Updated overall progress, planned activities and deliverables % complete - KYF
09/29/14 - Updated overall progress, planned activities and deliverables % complete- KYF
10/30/14 - Updated overall progress and deliverables % complete - CDS
11/14/14 - Updated deliverables and % complete - CDS
12/26/14 - Updated deliverables and % complete - SNB
01/29/15 - Updated target delivery date for Deliverable 3.

Project **Performance Graded Asphalt Rubber Binder** **Task Group** Asphalt **Subtask Group** PGAR

Target Completion Date 2/1/2016 **Number** 21 **Status** Active **Progress 30 %** **Rock Products Committee** YES

Purpose Develop a Performance Graded specification for asphalt rubber that contains crumb rubber particle size up to 2 mm (10 mesh) with consideration of climate zone and traffic levels and replace the current recipe-specification.

Overall Progress Sub Task Group met on August 15, 2014. Draft final experimental design sent to the group for review. Second round robin test samples were sent out in February 2015.

Activities Planned Collect test results from second round robin tests by April 2015. No Sub Task Group meetings are scheduled.

Project Lead Haiping Zhou **Office** Asphalt Pavement **Phone** (916) 274-6022 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Phase 1: Work Plan Development Phase 1: Initial Round Robin	Industry	8/5/2013	11/30/2014	100	100	Draft work plan developed and discussed at the 4/4/14 sub task group meeting. Need co-chairs to review and sign.
# 2	Experimental Design	Asphalt	1/15/2014	3/30/2015	100	100	Completed.
# 3	Draft PG-AR spec/Pilot projects (report only)	Industry	11/7/2013	6/30/2015	75	90	Draft NSSP reviewed by the Sub Task Group.
# 4	Phase 2: Testing protocols and instructions for conducting 2nd round robin test	Industry	11/7/2013	3/15/2015	100	100	Samples sent out for testing.
# 5	Phase 2: 2nd round robin testing and evaluation of results	Industry	12/1/2014	5/29/2015	10	85	No progress to date.
# 6	PG-AR Workshop	Asphalt	6/1/2015	11/30/2015	0	0	No progress to date.
# 7	PG-AR Specification	Asphalt	6/2/2015	2/1/2016	0	0	No progress to date.
# 8	Certificate of Compliance Program for PGAR Suppliers	Asphalt	6/30/2015	2/1/2016	0	0	No progress to date.

Log 09/04/13 - First subtask group meeting at Granite, Sac. Reviewed scoping and initial test results by Sallie Houston. Industry to draft a work plan for 11/6/13 meeting - HZ
11/06/13 - STG meeting at Granite, Sac. Draft work plan reviewed and to be finalized - HZ
01/15/14 - Draft final work plan is being reviewed - HZ
01/30/14 - Added status notes in #4 - HZ
02/27/14 - STG meeting. Round robin test delayed due to sample preparation and shipment - HZ
04/29/14 - Updated overall progress, planned activities and deliverables % complete - CDS
05/09/14 - STG meeting. Round robin test delayed due to sample preparation and shipment. NSSPs for testing ARB using pilot projects developed. A small group was formed to develop an experimental design for PG-AR - HZ
06/06/14 - STG meeting. Samples for 2nd RR still yet to be shipped out and tested. Draft reheating language developed. Need to identify pilot projects - HZ
06/27/30 - Added deliverables - HZ
07/11/14 - Changed the completion date and percent complete on deliverables #2 and #4 - SNB
07/11/14 - STG meeting. Draft experimental design developed and presented. Draft reheating language developed and to be included in LP-13. Need to identify pilot projects - HZ
08/15/14 - STG meeting. Draft final experimental design sent to group for review. Draft reheating language developed and to be included in a CTM. Need to identify pilot projects - HZ
10/30/14 - Updated activities planned and revised target dates for deliverables #1 and #4 - SNB
12/26/14 - Updated status - SNB
02/25/15 - Updated Activities planned - CS
03/30/15 - Updates deliverables % complete.

Project **Section 39 Hot Mix Asphalt Specification** **Task Group** Asphalt **Subtask Group** Section 39

Target Completion Date 6/30/2015 **Number** 23 **Status** Active **Progress 80 %** **Rock Products Committee** YES

Purpose Address issues arising from the transition from the Hveem method of HMA design to the Superpave method of HMA mix design and converting from CTMs to National Standard test methods such as AASHTO and ASTM.

Overall Progress Resolving issues as they are being brought up by industry.

Activities Planned Address issues arising from the transition from the Hveem method of HMA design to the Superpave method of HMA mix design and converting from CTMs to National Standard test methods such as AASHTO and

Project Lead Kee Foo **Office** Asphalt Pavement **Phone** (916) 274-6194 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Update Section 39 Specification (Phase 1)	Asphalt	8/5/2014	10/30/2014	100	100	Section 39 RSS Posted 10/17/14.
# 2	Update Section 39 Specification (Phase 2)	Asphalt	8/5/2014	6/30/2015	75	80	Sub Task Group meeting to resolve Issues
# 3					0	0	
# 4					0	0	
# 5					0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 10/30/14 - Established project deliverables and updated % complete - CDS
11/24/14 - Updated % complete for deliverables - CDS
12/26/14 - STG continues to meet to resolve issues from the published specifications - SNB

Project **Hot Mix Asphalt Low Volume (HMA-LV)** **Task Group** Asphalt **Subtask Group** Section 39

Target Completion Date 6/30/2015 **Number** 24 **Status** Active **Progress 30 %** **Rock Products Committee** YES

Purpose Address the issue of HMA Type B which was eliminated from the Standard Specifications with the implementation of Superpave.

Overall Progress Customized Section 39 for 3 scenarios expected by Local Agencies using Section 39. Local Agencies/Industry taking the lead with Caltrans providing support.

Activities Planned Sub Task Group next meeting March 5, 2014.

Project Lead Kee Foo **Office** Asphalt Pavement **Phone** (916) 274-6077 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Develop Specification	Asphalt	8/5/2014	6/30/2015	30	80	First Sub Task Group meeting held on for 9-11-14.
# 2				0	0	
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 10/30/14 - Updated % complete - CDS
12/26/14 - Updated status and % complete - SNB
02/03/15 - Updated status and % complete - CDS
02/25/15 - Updated activities planned and % complete - CDS

Project **Asphalt Binder Crumb Rubber Verification** **Task Group** Asphalt **Subtask Group**

Target Completion Date 6/30/2015 **Number** 25 **Status** Active **Progress 80 %** **Rock Products Committee** YES

Purpose Accurate verification of crumb rubber content in asphalt binders will support Caltrans in its accounting and reporting requirements associated with the use of crumb rubber in pavements.

Overall Progress Sub Task Group met on March 9, 2015. Final documents for approved Suppliers program and weights and measures criteria to be included in the MPQP tasks were provided to sub task group Implementation of new requirements will be effective July 1, 2016.

Activities Planned Caltrans to finalize requirement documents and specifications. No Sub Task Group meeting is scheduled but will provide an update at the next PGAR Sub Task Group meeting.

Project Lead Kee Foo **Office** Asphalt Pavement **Phone** (916) 274-6077 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Test method for CRM verification or CRM verification	Asphalt	7/30/2014	12/30/2014	100	100	There are no test methods readily available for determining CRM content of asphalt binders.
# 2	Specifications Revision package to OE	Asphalt	7/30/2014	6/30/2015	60	80	Draft specification prepared.
# 3	Qualified Products List for CRM Suppliers	Asphalt	9/22/2014	6/30/2015	85	80	Proposal prepared and presented.
# 4	MPQP Requirements for CRM Verification	HQ Constr	9/22/2014	4/30/2015	85	100	Fnal draftraft requirements for MPQP completed.
# 5					0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 07/28/14 - Set up database - KYF
10/30/14 - Updated overall progress, planned activities, deliverables and % complete - KYF
12/26/14 - Updated status and % complete - SNB
02/03/15 - Updated planned activities and deliverables % complete.
03/30/15 - Updated planned activities and deliverable % complete.
04/30/15 - Updated deliveables % complete. CDS

Project **Section 39 QC/QA Specifications** **Task Group** Asphalt **Subtask Group** Section 39

Target Completion Date 3/31/2017 **Number** 26 **Status** Active **Progress** 5 % **Rock Products Committee** YES

Purpose Caltrans and Industry want to continue the use QC/QA specifications with the Section 39 specifications.

Overall Progress Sub Task Group meetings held to discuss QC/QA specification quality characteristics.

Activities Planned Develop QC/QA specifications for the new Section 39 (Superpave) specifications.

Project Lead Kee Foo **Office** Asphalt Pavement **Phone** (916) 274-6077 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Create a Sub Task Group	Asphalt	10/15/2014	1/30/2015	100	100	Completed.
# 2	Identify various quality characteristics for QC/QA pay factors	Asphalt	2/2/2015	5/29/2015	0	75	First meeting held.
# 3	Determine QC/QA pay factors for various identified quality characteristics	Asphalt	6/1/2015	10/30/2015	0	0	
# 4	Develop automated calculation sheets for determining QC/QA pay factors	Asphalt	11/2/2015	4/29/2016	0	0	
# 5	Develop QC/QA specifications for Section 39	Asphalt	5/2/2016	10/31/2016	0	0	
# 6	Obtain Approval from FHWA to implement QC/QA specifications	Asphalt	9/1/2016	10/31/2016	0	0	
# 7	Update RSS for Section 39 with QC/QA specifications	OE	11/1/2016	1/31/2017	0	0	
# 8	Develop training program for Caltrans and industry personnel on QC/QA specifications	HQ Constr	2/1/2017	3/31/2017	0	0	

Log 12/26/14 - Developed resources, deliverables and schedule for the project - SNB
02/25/15 - Updated activities planned and deliverables % complete. - CS

Project **QC/QA Spec for Cast-in-Place Concrete** **Task Group** Concrete **Subtask Group** Concrete Materials/QA

Target Completion Date 6/30/2015 **Number** 5 **Status** Active **Progress 95 %** **Rock Products Committee** YES

Purpose Implement QA specifications for materials management of structural concrete.

Overall Progress D4, D8, D6 and D11 pilot projects underway. Interim lessons learned report completed.

Activities Planned Specification to be updated and finalized in February 2015. Specification was routed for approval in November. Will be implemented into all projects after March 2015. QC/QA Guidance Document and DIME training material to be finalized in coming months.

Project Lead John Lammers **Office** DES-Struct. Construction **Phone** (916) 375-8025 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Establish teams and review existing practices (FHWA,	OSC	12/1/2010	5/31/2011	100	100	Teams are established.
# 2	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.
# 3	Draft QC reference specification and selection of pilot projects	Materials	7/1/2011	1/31/2012	100	100	Specification Finalized
# 4	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
# 5	ACI Training and IA updates	Materials	1/1/2012	6/30/2014	100	100	ACI is complete. IA Manual Updates complete.
# 6	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	12/30/2014	100	100	D11 Project identified.
# 7	Feedback and update other pilot concrete projects	Materials	12/31/2012	12/30/2014	100	100	To be completed as pilot projects take place and lessons learned are captured
# 8	Establish full implementation on all projects	Materials	3/1/2013	6/30/2015	0	95	Will be complete once pilot projects take place and the Section 11-4 is included in all new projects

Log 1/07/15

CDS- Updated planned activities and deliverables percent complete.

9/1/13

Additional outreach with other pilot projects and Industry to take place. Coordination to continue for scheduling of ACI trainings and Pre-Bid Outreach meetings for Pilot Projects both in Northern CA and Southern CA. First ACI training likely in Sacramento near early October 2013. Continue conducting pre-bid meetings. Use gathered feedback from beta testing of DIME to update and roll out for larger use. Finalize the plain language spec and create a spec back up report as draft specification is finalized. Finalize QA Guidance report to generate corresponding bulletins for state staff. Amendment to IA manual upcoming, develop long term IA processes. Discuss project lists. Discuss communications with Districts and Contractors (Outreach).

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 DOTs) 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.

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.

Project **Recycled Concrete Materials Specification Development** **Task Group** Concrete **Subtask Group** Concrete Materials/QA

Target Completion Date 5/30/2015 **Number** 22 **Status** Active **Progress 99 %** **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 Specification has been finalized as of Fall 2014.

Activities Planned Specification to be routed as an NSSP in January 2015. Updated MPQP document capturing changes to be finalized by construction in March 2015.

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	100	100	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	11/30/2014	100	100	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	5/30/2015	95	95	Deliverable to be completed based on needs determined at project team level.
# 7					0	0	
# 8					0	0	

Log 01/06/15 -CDS Updated activities planned and deliverables % complete.

9/1/13
Monthly project team meetings to continue. Next scheduled meeting is on September 13, 2013. Industry to send requested information on MPQP manual. The carbon footprint savings report was received by project team on June 21, 2013 and sent to Caltrans environmental planning for review. A field trip is scheduled on September 11, 2013 to observe manufacturing of recycle concrete operations. Draft Specs to be complete in coming weeks.

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 **Flexural Beam Testing Requirements in Section 40** **Task Group** Concrete **Subtask Group** CIP and Materials

Target Completion Date 6/30/2015 **Number** 26 **Status** Active **Progress 84 %** **Rock Products Committee** YES

Purpose Address issues with California Test 523 certification and accreditation.

Overall Progress Sub Task Group meeting held on March 10, 2015 and agreed to use standard cured 28-day flexural strength with third point loading and defer to new scope of work to determine acceptance test strength.

Activities Planned Next Sub Task Group meeting scheduled for April 22, 2015 to review all previously agreed testing process, received comments and work on draft working document.

Project Lead Deepak Maskey **Office** Concrete Pavement **Phone** 916 227-5842 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Summarize current practices and guidelines (including the IA Manual and Construction Manual) within Caltrans and other State DOTs.	Conc Pvmt	7/30/2014	12/20/2014	100	100	A summary report is on progress.
# 2	Summary of investigation of factors influencing performance of CT 523/ASTMs/Other State DOT Test methods.	Conc Pvmt	10/1/2014	1/9/2015	100	100	A summary report is on progress.
# 3	Summary of any available data supporting the development or subsequent research related to CT 523 and similar ASTM test methods.	Conc Pvmt	11/10/2014	2/28/2015	100	100	Gathering information.
# 4	Explanation of details relating to the basis for the standard specification change, specifically Section 40.	Conc Pvmt	12/5/2014	2/28/2015	100	100	Gathering archivesd documents
# 5	Prepare decision document weighing pros and cons of making switch.	Conc Pvmt	12/23/2014	5/31/2015	60	80	Draft document is in progress
# 6	Provide written recommendation if possible. If recommendation on test method cannot be made, recommend a path forward.	Conc Pvmt	3/31/2015	6/30/2015	30	30	Reccomending equivalent national test methods (ASTM or AASHTO)
# 7					0	0	
# 8					0	0	

Log 8/11/2014 - status report update -MP
10/28/2014-Survey questionnaires were finalized and ASTM research documents reviewed.
4/2/2015-Next meeting is on 4/22/2015, work on a draft working document with recommendations.

Project **Update Precast Stress Jack Requirements in Specifications** **Task Group** Concrete **Subtask Group** Precast Concrete

Target Completion Date 6/30/2015 **Number** 27 **Status** Active **Progress 50 %** **Rock Products Committee** YES

Purpose Address issues with equipment and calibration used in Precast Concrete manufacturing plants.

Overall Progress Sub Task Group met to discuss the background information in the scoping document and established team responsibilities. Group visited industry calibration representatives in September 2014 to garner best practices and understand ASTM E74 accreditation.

Activities Planned Sub task group meetings will continue in January 2015 and the draft specification will continue to be refined. Specification to be fully implemented by June 30, 2015.

Project Lead Robert Kim **Office** METS **Phone** **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Specification	Str Mat	8/5/2014	6/30/2015	50	80	Working on draft specification.
# 2				0	0	
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 11/3/14 - CDS Updated overall progress, planned activities and deliverables % complete.
1/6/15 - CDS Updated planned activities and % complete.

Project **Shotcrete Specification Requirements in Section 53** **Task Group** Concrete **Subtask Group** Precast Concrete

Target Completion Date 6/30/2015 **Number** 28 **Status** Active **Progress 50 %** **Rock Products Committee** YES

Purpose Address issues with Section 53 and Section 90 having two different grading requirements for pea gravel and the impact on the quality of shotcrete.

Overall Progress Sub Task Group held meeting on December 18, 2014 and discussed the pea gravel and water specification requirements found in Section 53. The first draft on the specification was discussed, as well as comments received

Activities Planned Sub Task Group meeting will continue in January-February 2015 where specification updates will be discussed. Specification should be fully implemented by June 30, 2015.

Project Lead Edward Zang **Office** **Phone** **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Updated Specification	Str Mat	8/5/2014	6/30/2015	50	80	Preparing draft specification.
# 2				0	0	
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 11/3/14 - CDS Updated Overall progress, activities planned and deliverable % complete.
01/06/15 - CDS- Updated overall progress, activities planned and deliverables % complete.

Project **Quality Assurance of Dowel Bar Placement** **Task Group** Concrete **Subtask Group** CIP Concrete Pavement

Target Completion Date 7/30/2015 **Number** 29 **Status** Active **Progress 54 %** **Rock Products Committee** YES

Purpose Propose improvements to both quality control and acceptance/verification methods for determining bar placement based on current industry and national practices, while ensuring design assumptions and pavement performance.

Overall Progress Shadow testing on 3 construction projects has been performed and the report is complete

Activities Planned Hold first Sub Task Group meeting. Review acceptance requirements for dowel and tie bar placement.

Project Lead Doran Glauz **Office** Concrete Pavement **Phone** 916-227-5436 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Evaluate and document the availability of various means by which dowel bar placement is being determined through a literature search of other state DOTs and national standards.	Conc Pvmt	8/18/2014	11/30/2014	100	100	Literature search is complete.
# 2	Report on placement evaluation alternatives including the pros and cons of each alternative. Recommend method	Conc Pvmt	10/15/2014	11/30/2014	100	100	NCHRP Report 637 performs an adequate report on evaluation alternatives and sound recommendation.
# 3	Develop placement evaluation method for quality control processes and verification processes for Department to ensure bars are properly placed.	Conc Pvmt	11/15/2014	12/30/2014	100	100	
# 4	Ensure quality control processes meet Department guidelines and federal regulations.	HQ Constr	12/15/2014	5/27/2015	0	85	
# 5	Draft specifications with revised quality assurance methods including Contractor quality control testing.	Conc Pvmt	12/15/2014	6/27/2015	50	70	
# 6	Evaluate draft specifications on at least three existing projects. Draft Report.	Conc Pvmt	1/15/2015	5/30/2015	100	100	
# 7	Prepare guidance documents.	HQ Constr	4/15/2015	7/30/2015	0	15	
# 8	Prepare California Test(s)	Materials	4/15/2015	7/30/2015	0	15	

Log 10-15-14:
Literature search is complete.
8-12-14:
Scoping document approved 8/5/2014

Project **Intelligent Compaction** **Task Group** Foundation **Subtask Group** Specifications

Target Completion Date 1/30/2016 **Number** 12 **Status** Active **Progress 34 %** **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 Four pilot projects have completed CIR work. Thirteen addition pilot projects will be constructed in 2015. Met with roller manufacturers and IC system providers on December 15, 2014 to discuss issues that must be addressed moving forward.

Activities Planned Veda software workshop scheduled for May 28, 2015 for release 3.0 to discuss revisions to Veda software and provide hands on training producing daily compaction quality control reports.

Project Lead Chuck Suszko **Office** Construction Engineering **Phone** (916) 798-6029 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	NSSP for Pilot Projects	HQ Constr	8/1/2013	6/1/2014	100	100	Final draft specification has been completed.
# 2	Pilot Projects CIR and FDR	HQ Constr	2/3/2014	9/1/2015	50	80	8 pilot projects have been selected. Four projects have been completed
# 3	Analyze Results from Pilot projects	HQ Constr	7/1/2014	10/30/2015	35	60	Have received data from three projects.
# 4	2nd Round of Pilot Projects	HQ Constr	3/1/2015	1/15/2016	5	20	Thirteen pilot projectshave dad bid openings for 2015
# 5	Finalize SSP	HQ Constr	9/1/2015	1/30/2016	0	0	
# 6	User guidance including construction manual update	HQ Constr	4/1/2015	1/30/2016	5	10	Draft IC Construction Guidance has been created.
# 7					0	0	
# 8					0	0	

Log 10/30/13 CDS Progress Updated
4/29/14 - CDS Updated overall progress, planned activities and deliverables % complete.
6/27/14 - CDS Updated overall progress, planned activities and deliverables % complete.
10/30/14 - CDS Updated overall progress, planned activities and deliverables % complete.
12/17/14 - CDS Updated overall progress, planned activities and deliverables % complete.
03/30/15 - CDS Updated activities planned.

Project **Subbase and Base QA Requirements** **Task Group** Foundation **Subtask Group** Subbase and Base

Target Completion Date 6/30/2015 **Number** 13 **Status** Active **Progress 24 %** **Rock Products Committee** YES

Purpose Update specs that establishes QA requirements for Sec 24-29. Ensure responsibilities for QC sampling and testing performed by the contractor and acceptance testing performed by the Department. Improve consistency between

Overall Progress Received Industry's completed action items and review of 2nd draft comments of sections 25 & 26 on 3/2. Waiting on industry's comments on sections 27 & 28, due ASAP. STG meeting on March 26.

Activities Planned Resolve Caltrans and industry's comments of sections 25 to 28. Next meeting in June.

Project Lead Amy Fong **Office** Concrete Pvmt **Phone** 916-227-5838 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 RSS	Conc Pvmt	6/19/2014	5/30/2015	30	90	Developing draft RSS. Construction to develop first drafts.
# 2 Construction Guidance	HQ Constr	5/1/2015	6/30/2015	0	0	Guidance to be developed after RSS is approved.
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 03/02/15 Received industry's second comment son sections 26 & 28. AF
02/13/15 Circulated draft sections 27 & 28 to industry and CT. AF
12/15/14 CT circulated 2nd draft specs on Dec 15. AF
11/24/14 STG meeting to go over comments of sec 25 & 26. AF
10/21/14 Received sec 25 & 26 industry comments. AF
10/03/14 Amy circulated sec draft 25 & 26 to Rob P. (industry). AF
10/02/14 STG meeting with industry. AF
09/15/14 Ken Darby circulated sec 25 & 26 for internal review. AF
07/15/14 CT only kick off meeting. AF
06/16/14 Scoping Document was approved. AF

Project **Cold In-Place Recycling** **Task Group** Preservation **Subtask Group** Recycling

Target Completion Date 6/30/2015 **Number** 3 **Status** Active **Progress 60 %** **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 Pilot projects continuing using NSSP. Sub Task Group met on November 6, 2014.

Activities Planned Next CIR Sub Task Group meeting to be held in March 2015 to discuss CIR mix design 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	100	100	A few projects were visited.
# 2	Develop standard special provisions	Engr	1/1/2012	3/30/2015	60	105	Revised specification.
# 3	Standardize test methods/ lab procedures	Mets	9/3/2012	3/30/2015	40	105	LP-8 rewritten as engineered mix design.
# 4	Develop guidelines/ MTAG	Asphalt	1/2/2013	6/30/2015	75	95	In Progress
# 5	New Mix Design and JMF Forms	Asphalt	3/1/2013	3/30/2015	20	105	LP-8 circulated for comments.
# 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 07/29/10 - 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).
07/08/11 - Sub Task Group met and discussed some spec related issues.
08/26/11 - Cal Poly Pomona Recycling Center will monitor some Southern region projects to improve existing nSSP and project selection.
09/06/11 - 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
09/09/11 - 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.
12/15/11 - 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.
01/13/12 - 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

06/08/12 - Sub Task Group met in Cal Poly Pomona to discuss changes/modifications to the specs
06/12/12 - Specs was send to CT & Industry for review

03/27/13 - Update overall progress, activities planned and deliverables - CDS.
10/30/13 - Update to overall progress - CDS
06/27/14 - Revised deliverables target completion dates - CDS
07/10/14 - District Mtce Engineers have reviewed the most recent (2-21-14) CIR specs and some have provided comments.
- The Sub Task Group will meet in August of 2014 to discuss specifications & LP-8.
- CP2 Center will evaluate & monitor 06-0Q2501 (KIN-198-R9.5/R14.7) project to assist us in improving specs & guidelines.
10/30/14 - Update to overall progress, planned activities, deliverables target completion and % complete - CDS
12/26/14 - Updated status and % complete - SNB

Project **Fog Seal** **Task Group** Preservation **Subtask Group** Seals & Coats

Target Completion Date 9/30/2015 **Number** 4 **Status** Active **Progress** 69 % **Rock Products Committee** YES

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

Overall Progress Work on new testing equipment for California Test 342 is continuing by METS.

Activities Planned Activities suspended until plans for new testing equipment used for California Test 342 are available for Caltrans, testing firms and contractors.

Project Lead Haiping Zhou **Office** Asphalt Pavement **Phone** (916) 274-6022 **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	12/30/2013	100	100	Draft report completed.
# 3	MTAG Update Fog Seal by State Forces	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	7/31/2015	50	95	On hold until new testing equipment for CT 342 is completed.
# 5	Second round construct and monitor test sections with material testing	Chico	4/1/2013	3/31/2015	95	105	Chico is working on report for 2013 projects.
# 6	Develop New Testing Equipment for California Test 342T	Road Mat	4/1/2014	6/30/2015	50	85	Waiting for pending patent approval
# 7	MTAG Update	Asphalt	1/1/2015	9/30/2015	0	45	On hold
# 8	Training and Outreach including MTAG	Asphalt	3/1/2015	9/30/2015	0	30	No activity yet.

Log 4 sets of test section have been done.
The subtask group needs to draft their proposed specification
01/13/11 - Update targets and PYs
02/14/11 - Update target dates and task definitions - PJV
04/25/11 - Status Update - SR
05/06/11 - Updated Status and Tasks definitions. Held last Fog Seal Meeting 5/5/11 - DM
06/24/11 - Updated Status and next General Meeting of Seal Coat Committee is 7/7/11 - DM
09/06/11 - 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
05/30/12 - 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 - Updated overall progress, activities planned and deliverables. Added second round evaluation to deliverables - CDS
04/29/13 - Updated overall progress, activities planned and deliverables - CDS

07/11/14 - Updated deliverable #6 - SNB
11/24/14 - Updated deliverable #4 and #5 target compeletion dates - CDS
12/26/14 - Updated deliverables and % complete - SNB
04/30/15 - Updated target completion dates for delivables #4, #5 and #6.

Project **Rubberized Slurry Seal** **Task Group** Preservation **Subtask Group** Specifications

Target Completion Date 8/30/2015 **Number** 5 **Status** Active **Progress 50 %** **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 September 12, 2014. Industry presented proposed specification and submitted it to Caltrans.

Activities Planned Currently on hold until technical rewrite of Section 37 is completed.

Project Lead Sri Holikatti **Office** Asphalt Pavement **Phone** (916) 274-6074 **E-FIS Project** **E-FIS Subtask Number**

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 NSSP	Asphalt	1/1/2013	7/31/2015	40	90	Attempting to develop spec with language to account for perfromance
# 7 MTAG Guidelines	Chico	1/1/2013	8/30/2015	0	85	Waiting for SSP development.
# 8				0	0	

Log 09/01/10, two REAS project are expected to be done this year, 11-277804 and 07-4Y3204. Need to plan projects for other methods.
05/13/11 - Updated Status - PJV
06/24/11-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
07/06/11-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)
09/06/11-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
09/21/11- 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
10/30/13 - Updated activities planned - CDS
04/29/14 - Updated overall progress, activities planned and deliverables - CDS
10/14/30 - Updated overall progress and deliverable % complete - CDS
11/24/14 - Updated deliverable #7 target completion date - CDS
12/26/14 - Updates status - SNB
02/25/15 - Updated activities planned to on hold - CDS
04/30/15 - Updated target completion date for deliverable #6. CDS

Project **Modified Binder Chip Seal (PM/TR)** **Task Group** Preservation **Subtask Group** Specifications

Target Completion Date 6/30/2015 **Number** 6 **Status** Active **Progress 86 %** **Rock Products Committee** YES

Purpose Improve the polymer modified / terminal blend rubber chip seal spec to a standard special provision.

Overall Progress Section 92 completed and posted that includes both polymer and tire rubber modified binders. Draft specification has been modified to include revised screening gradations and rolling requirements to address surface roughness issues.

Activities Planned Currently on hold until technical rewrite of Section 37 is completed.

Project Lead Sri Holikatti **Office** Asphalt Pavement **Phone** (916) 274-6074 **E-FIS Project** **E-FIS Subtask Number**

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 Pilot Projects	Asphalt	12/1/2008	12/1/2012	100	100	Completed.
# 3 Complete SSP	Asphalt	12/3/2012	6/30/2015	92	95	SSP ready for final review.
# 4 Update Guidelines	Asphalt	12/3/2012	6/30/2015	35	95	Draft guidelines are being developed.
# 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.
01/13/11 - updated Pys - LR
02/09/11 - Added NSSP deliverable
05/06/11 - Modified order of deliverables - DM
06/25/11 - Next General Meeting of Seal Coat Committee is set for 7/7/11 - DM
09/06/11 - General Meeting held 7/7/11. Modified order of deliverables based on committee comments - DM
09/21/11 - 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 evaluate 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 finish off the rubber slurry, sand and fog & rejuvenator specs - DM
03/27/13 - Updated overall progress, activities planned and deliverables - CDS
10/30/13 - Updated overall progress, activities planned and deliverables - CDS
04/29/14 - Updated overall progress, activities planned and deliverables - CDS
06/27/14 - Updated overall progress, activities planned and deliverables % complete - CDS
01/29/15 - Updated target dates for deliverables 3 & 4 -CDS
02/25/15 - Updated activities planned to on hold - CDS

Project **Warm Mix Asphalt Rubber Chip Seal** **Task Group** Preservation **Subtask Group** Seals & Coats

Target Completion Date 1/1/2016 **Number** 8 **Status** Active **Progress** 47 % **Rock Products Committee** YES

Purpose Introduce WMA technology into hot-applied rubberized asphalt binder chip seals.

Overall Progress Pilot project on SR 36 near Red Bluff, pilot project on SR 44 near Lassen Park and pilot project on SR 95 near Needles are all completed. One-year field evaluation of SR 36 completed. Draft construction reports for SR 44 and SR 95 projects developed.

Activities Planned Continue to study the constructed pilot projects and look for additional pilot projects.

Project Lead Haiping Zhou **Office** Asphalt Pavement **Phone** (916) 274-6022 **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	100	100	Developed.
# 2 Pilot Projects	District	1/2/2013	10/30/2014	100	100	Three pilot projects are completed.
# 3 Evaluation of Projects	Chico	5/2/2013	6/30/2015	10	90	First pilot project on SR 36 for an 8-month field evaluation completed in May 2014.
# 4 Evaluation Report	Asphalt	7/1/2013	1/30/2015	75	110	For the SR 36 project, the construction report and the 8-month field evaluation report received.
# 5 SSP	Asphalt	7/1/2015	1/1/2016	0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 08/03/10 - NSSP just being developed for possible CT demo project in D6, Fresno Rte 5.
01/11/11 - Revised Pys and target dates - LR
02/14/11 - Rewrite purpose and need - PJV
06/25/11 - Next General Meeting of Seal Coat Committee 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 availability 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
08/08/12 - Held meeting with Seal Coat committee to discuss proposed AR chip seal specification. Industry had a few concerns with proposed specification - DM
09/26/12 - 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
11/01/12 - 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 vialet 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
10/30/13 - Updated project progress and deliverables CDS
07/16/14 - Updated project progress and deliverables - HZ
10/30/14 - Updated overall project progress and deliverables % complete - CDS
1/2/22/14 - Updated the Caltrans lead to Haiping Zhou since he has been working with CSU Chico to study the project - SNB
3/18/15 - 1-year field evaluation & report on SR 36 completed. Construction reports for SR 44 and SR 95 developed. HZ

Project **Quieter Concrete Pavement** **Task Group** Preservation **Subtask Group** Concrete Repairs

Target Completion Date 6/30/2015 **Number** 14 **Status** Active **Progress 99 %** **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 Submitted review comments to UCPRC on October 22, 2014.

Activities Planned UCPRC to revise draft report and submit final report.

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	COMPLETED. 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	COMPLETED.
# 3	Finalize rigid QP research first and second year report.	UCPRC	7/1/2010	10/31/2011	100	100	COMPLETED. 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	COMPLETED. Third year final report published on 4/2/13.
# 5	Complete rigid QP research fourth year data collection &	UCPRC	7/1/2011	6/30/2015	98	95	UCPRC has yet to indicate when the final report will be ready.
# 6	Evaluation of OBSI and texture characteristics of NGCS pilot test sections.	UCPRC	5/1/2011	6/30/2014	100	100	COMPLETED. Final report published and signed by UCPRC and Caltrans.
# 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	COMPLETED. 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"	Spring 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 Summer 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
09/29/14: UCPRC delivered Fourth Year QPR study draft report.

10/22/14: Submitted review comments to UCPRC.

Project **Concrete Sealer/ Hardener** **Task Group** Preservation **Subtask Group** Concrete Repairs

Target Completion Date 6/30/2016 **Number** 16 **Status** Active **Progress** 48 % **Rock Products Committee** YES

Purpose Reduce traffic related abrasion and chloride related deterioration of concrete pavement exposed to extreme conditions.

Overall Progress Draft task order/ test plan developed. Some abrasion testing on original test section cores complete.

Activities Planned Coordinating with D3 for 03-4M8404 NEV-80 pilot project. Developing abrasion lab study. Awaiting 3rd year APCS data submittal.

Project Lead Robert Hogan **Office** Concrete Pavement **Phone** (916) 227-5840 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Cost analysis and nSSP	Conc Pvmt	7/2/2012	11/30/2012	100	100	Drafted hardener nSSP and PIF.
# 2 Pilot projects	District	7/30/2012	10/30/2015	80	80	Hardener placed on Sept 11-12/12 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 03-4M8404 Nev-80 Boca-Floriston Summer 2015.
# 3 Test plan	Conc Pvmt	7/25/2012	6/30/2015	98	90	Will pursue testing and evaluation by task order. Awaiting new consultant contract and results of premliminary abrasion
# 4 Materials issues	Materials	1/7/2013	6/30/2015	40	90	Review product info, patents, and standard tests. Incorporate evaluation into task order if necessary.
# 5 SSP	Conc Pvmt	6/3/2013	4/15/2016	40	65	nSSP update for materials and construction issues. Resolve legal issues related to patents.
# 6 Guidance	Chico	1/4/2016	6/30/2016	5	0	Concrete Pavement Guide and Construction Manual.
# 7 Performance reports	Chico	10/1/2012	12/31/2015	15	75	Evaluation delayed due to resource issues. Awaiting new consultant contractand results of premliminary abrasion testing.
# 8 Training material	Conc Pvmt	1/4/2016	6/30/2016	0	0	TBD

Log 08/03/10 - October 2009, a section of PCC pavement on I-80 near Soda Springs was treated with this material Cores taken October 2010.
03/23/11 - Update deliverables and schedules - LR
04/08/11 - d glauz, revised progress, purpose and need.
05/15/12 -Draft scoping doc sent to work group
05/30/12 - Updated database
07/30/12 - Updated database to reflect latest scoping doc
08/01/13 - Received revised year 1 task order submittal.

Project **Concrete Pavement Joint Filler for Wide Joints** **Task Group** Preservation **Subtask Group**

Target Completion Date 12/31/2014 **Number** 17 **Status** Active **Progress 43 %** **Rock Products Committee** YES

Purpose To ensure joint performance in concrete pavement wide joints, or when joints open wide due to temperature and moisture fluctuations and traffic loads, filler material for wide joints is needed to reestablish contact between joint walls of adjacent slabs.

Overall Progress Compiled a summary of test procedures and specs for filler materials used by TxDOT and other state DOTs. Submitted these procedures to METS for decision regarding development of new test methods or adoption of methods used in other states.

Activities Planned METS to review TxDOT and other state DOTs test procedures and specs to determine whether to develop new test methods or adopt existing test methods and specs used in other states.

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 Literature Search	Conc Pvmt	10/1/2013	1/31/2014	100	100	Completed pending write up.
# 2 Properties for Joint Fillers	Conc Pvmt	2/1/2013	6/30/2014	100	100	Compiled a list of joint filler materials properties.
# 3 Joint Filler Performance	Conc Pvmt	10/1/2014	12/31/2014	100	100	Compiled a list of joint filler materials performance standards used in other states. Submitted the list to METS for decision on the way forward
# 4 Draft SSP	Conc Pvmt			10	0	Currently ON HOLD Pending development and adoption of test procedures for potential qualified material list
# 5 Pavement Guidance	Conc Pvmt			0	0	DISCONTINUED for the time being
# 6 Final SSP	Conc Pvmt			0	0	Currently ON HOLD Pending development and adoption of test procedures for potential qualified material list
# 7 Authorized Materials List	Str Mat			0	0	Currently ON HOLD Pending development and adoption of test procedures for potential qualified material list
# 8				0	0	

Log 09/26/13 - Sub-task group meeting
03/27/14 - Sub-task group meeting.
06/25/14 - Sub-task group meeting.
10/09/14 - Sub-task group meeting. Next meeting (conference call) scheduled for 10/28/14
12/10/14 Met with Joe Peterson (METS) to discuss development of California Test methods and specs
01/15/15 Submitted to METS list of joint filler materials performance standards used in other states for decision on whether to develop new test methods or adopt those used in other states.

Project **Concrete Spall Repair (Authorized Materials List)** **Task Group** Preservation **Subtask Group** Concrete Repairs

Target Completion Date 6/30/2016 **Number** 18 **Status** Active **Progress 63 %** **Rock Products Committee** YES

Purpose Develop specific standardized guidelines, specs, plans, and training for constructing partial depth spall repairs with alternative materials, including hot-applied polymer resin, polyurethane, and epoxies.

Overall Progress METS has developed draft criteria and a material list for fast-setting concrete. Met with METS to discuss materials properties and testing issues. Developing fact sheet.

Activities Planned Work with METS to develop criteria for cementitious and polymeric materials.

Project Lead Robert Hogan **Office** Concrete Pavement **Phone** (916) 227-5840 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Scoping document	Conc Pvmt	7/1/2011	10/1/2013	100	100	Complete.
# 2	Develop pre-qualified products list for concrete patching materials. 2 phases: fast-setting will be followed by polymer list. Schedule TBD.	Materials	1/1/2012	5/15/2015	92	95	METS has developed preliminary QPL criteria for fast-setting and polymeric.
# 3	Update standard spec for material properties	Conc Pvmt	9/9/2013	12/18/2015	10	70	Incorporate materials updates for pre-qualified products list. On hold until OE technical moratorium is lifted
# 4	Update spall repair guidance -	Conc Pvmt	7/1/2013	2/29/2016	70	65	Revise Concrete Pavement Guide for materials, design, and spec changes.
# 5	Update spall repair training	Conc Pvmt	2/1/2016	6/30/2016	0	0	Revise or develop training material for materials, design, and spec changes.
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 05/11/10 - This items includes hot applied PM resin. Requested by John Roberts of IGGA. pre-proposal submitted to CP2 innovation database.

Project **2015 Section 37 Technical Update** **Task Group** Preservation **Subtask Group** Specifications

Target Completion Date 6/30/2015 **Number** 20 **Status** Active **Progress** **52 %** **Rock Products Committee** YES

Purpose Update Standard Specifications section 37 to include current terminology, practice and industry standards.

Overall Progress Sub Task Group Meetings held in November and December 2014. Industry has identified 26 issues for Section 37-2 and 46 issues with Section 37-3. Caltrans has also proposed some changes.

Activities Planned Next Sub Task Group meeting scheduled for March 2015 where Caltrans will present draft revised Section 37 which would contain all items brought forward by industry and Caltrans to date.

Project Lead Sri Holikatti **Office** Asphalt Pavement **Phone** (916) 274-6074 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	2010 Section 37 Industry comments resolution	Asphalt	8/5/2014	12/20/2014	100	100	Industry comments have been addressed by working group.
# 2	Revise 2015 Section 37	Asphalt	10/1/2014	6/30/2015	40	70	Caltrans working on first draft.
# 3					0	0	
# 4					0	0	
# 5					0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 10/30/14 - Updated overall progress and deliverables % complete - CDS
12/26/14 - Updated status - SNB
02/25/15 - Updated activities planned - CDS

Project **Cold In-Place Recycling Using Foamed Asphalt** **Task Group** Preservation **Subtask Group** Specifications

Target Completion Date 6/30/2015 **Number** 21 **Status** Active **Progress** **14 %** **Rock Products Committee** YES

Purpose Develop specification for cold in-place recycling using foamed asphalt.

Overall Progress Foamed CIR Sub Task Group met on February 13, 2015. Working together with the Sub Task Group on CIR-AE

Activities Planned CIR Sub Task Group meeting is to be scheduled in March 2015 to work on CIR mix design.

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 Develop NSSP	Asphalt	8/5/2014	6/30/2015	10	75	First meeting held on February 13, 2015.
# 2 Develop Mix Design Test Method to replace LP-8	Materials	8/5/2014	6/30/2015	25	75	Roadway Materials Testing group working on the Mix Design Test method
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 10/30/14 - Updated overall progress and deliverables % complete - CDS
12/26/14 - Updated progress and schedule - SNB
02/25/15 - Updated activities planned and deliverables % complete - CDS