ROCK PRODUCTS COMMITTEE

WORK PLAN STATUS

June 27, 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”

STATE OF CALIFORNIA
PAVEMENT PROGRAM STATUS CALENDAR

DEPARTMENT OF TRANSPORTATION

2013

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

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

MAR

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	28	27	28	29	30
31						

APR

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

MAY

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	
		28				

JUN

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						

JUL

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			

AUG

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

SEPT

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					

OCT

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

NOV

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

DEC

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				

JAN 2014

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	

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

Updated 01/04/13

Pavement Program Project Management Monthly Report

Project **HMA Materials Test Methods** **Task Group** Asphalt **Subtask Group** Specifications

Target Completion Date 4/26/2013 **Number** 3 **Status** Active **Progress** **99 %** **Rock Products Committee** YES

Purpose Revise test methods for HMA as specifications have been revised.

Overall Progress CPD is being processed to allow for projects with 2006 Specifications to use revised CT 304 that will change OBC to be based on total weight of the mix versus the existing OBC based on the weight of the aggregate.

Activities Planned Finalized CPD and revised HMA mix design, JMF and production start-up forms.

Project Lead Nahid Hosseinzadeh **Office** Roadway Materials **Phone** 227-7322 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 CT 103, 104, 105, 125, 201, 202, 204, 211, 212, 214, 216, 217, 226, 234, 235, 304, 308,	Mets	5/8/2008	12/1/2010	100	100	Posted to CT web
# 2 206, 207, 208, 209, 227	Mets	5/8/2008	11/1/2011	100	100	Posted
# 3 CTM 366, 367, 379, 382 changes to cover CTM 304 change to "Total wt. of mix."	Mets	7/1/2011	9/30/2012	100	100	To be formatted and posted to CT web. Need CPD and associated forms and specs.
# 4 CT 371	Mets	5/8/2008	8/31/2011	100	100	No further chagnes (Hamburg) will be replacing it and will not be ready for implementation until next year.
# 5 CT 205	Mets	5/8/2008	9/1/2011	100	100	RPC Co-chairs heard dispute, ruled in Dept. favor.
# 6 CT 202	Materials	5/8/2008	7/30/2010	100	100	Posted July 2010
# 7 CPD	HQ Constr	11/1/2011	4/26/2013	85	110	CPD has been circulated for review comments
# 8				0	0	

Log Three ETGs have been working on revising HMA and aggregate materials related test methods since May 8, 2008. Many meetings were held jointly with industry and CT representatives.
A work plan was developed for revising CT 368. The lab work is expected to be conducted by UCPRC.
Tech work on Test Methods nearly completed as of 12/2010
5/13/11 - Status Update, PV
6-27-11 - Status Update, NH
8-31-11 - Status Update, NH
9-21-11 - Status update, NH/PV modified tasks 1, 2, and 3 to reflect CTMs posted, formatted, and those connected to CTM 304, respectively.

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 Smooothness 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	100	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	105	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	100	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

Project Lead Rupinder Dosanjh **Office** Asphalt Pavement **Phone** 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 on quieter OGFC mixes	UCPRC	7/1/2011	3/1/2013	80	115	HVS testing is complete. Report of results will be available soon
# 3	Develop NSSP for quieter OGFC mixes	Asphalt	10/1/2012	8/1/2013	60	85	
# 4	Update & adopt specification for OGFC mixes	Asphalt	6/28/2013	7/1/2014	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	3/3/2014	6/27/2014	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 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 6/30/2013 **Number** 11 **Status** Active **Progress** **75 %** **Rock Products Committee** YES

Purpose Design and build longer life flexible pavements in California to miminize 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.

Activities Planned Continue monitoring projects during construction phase.

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	6/30/2013	75	100	UCPRC to conducted IRI & FWD in Fall of 2012. Next step is to update the I-710 Peformance 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	6/28/2013	50	95	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** **60 %** **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

Project Lead Joe Peterson **Office** Roadway Materials **Phone** 227-7322 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Compile information/data from 1st batch of pilot projects	Road Mat	6/1/2012	8/1/2013	70	90	Compiled information from first two pilot projects.
# 2	Review information/data from 1st batch pilot projects and revised specs	Road Mat	1/31/2013	9/1/2013	70	60	Reviewed and analyzed data and provide to Sub Task Group.
# 3	Pilot Specification	Road Mat	1/31/2013	11/30/2013	80	45	Pilot specification updated based on initial pilot projects.
# 4	Compile infrormation/data from 2nd batch of pilot projects	Road Mat	8/2/2013	12/1/2013	0	0	None
# 5	Review information/data from 2nd batch pilot projects and revised specs	Road Mat	7/1/2013	2/1/2014	0	0	No data yet.
# 6	Training	Road Mat	10/1/2012	6/30/2014	50	40	First round of training has be completed in all Districts.
# 7					0	0	
# 8					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** **45 %** **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	0	up to 15%
# 3 RAP/RAS Specification (planing, discussing, developing)	Road Mat	3/1/2013	12/1/2013	40	40	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 morotorium.
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 **WMA Specification Updates** **Task Group** Asphalt **Subtask Group** Warm Mix Asphalt

Target Completion Date 4/19/2013 **Number** 17 **Status** Active **Progress** **100 %** **Rock Products Committee** YES

Purpose Minor revisions to WMA specification leading to improved specification.

Overall Progress WMA improved specification sent to OE for April publication.

Activities Planned Posted revised WMA specification.

Project Lead Joe Peterson **Office** OMRT **Phone** 227-7303 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Improved WMA specification	Asphalt	1/10/2013	4/19/2013	100	100	Spec sent to OE for April publication.
# 2				0	0	
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log

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.

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 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	4/1/2013	80	120	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	4/1/2013	70	125	D11 Project identified.
# 7	Feedback and update other pilot concrete projects	Materials	12/31/2012	4/1/2013	0	195	To be completed as pilot projects take place and lessons learned are captured
# 8	Establish full implementation on all projects	Materials	3/1/2013	6/30/2013	0	95	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.

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 questionaire 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 aggreement 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 Accredidation 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 **Precast QC Provisions/Precast Technical Revisions** **Task Group** Concrete **Subtask Group** Precast Concrete

Target Completion Date 6/30/2013 **Number** 6 **Status** Active **Progress** 50 % **Rock Products Committee** YES

Purpose Update spec to add additional levels (e.g. minor non-structural) of QC/QA for precast and separate precast from section 90

Overall Progress Precast Spec reviews continuing. The next CT-Industry Project Team meeting set for 6 Dec 12. Sections 11 and 90 continue to be refined and will be discussed on that date. Section 11 update pending final review. Sections 49 and 51 to also receive comment.

Activities Planned The next three meetings are scheduled to go over all specifications sections containing precast concrete.

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	Review Existing Programs	Materials	12/1/2010	3/1/2011	100	100	Existing practices were reviewed
# 2	Compose draft program	Materials	3/1/2011	6/1/2012	100	100	OSMPP, tier priority list etc. is being revised to come up with the first step of implementation plan. Spec outline has been created.
# 3	Gather and compile feedback on all Sections	Materials	6/1/2012	3/31/2013	60	130	Currently being completed at the project team level. Review and updating of Precast specifications continues
# 4	Finalize draft specification with Tiers of PC	Materials	11/1/2012	5/1/2013	20	130	Being reviewed and executed as the monthly project team meetings take place. Draft specification close to completion.
# 5	Implement Specifications based on review comments	Materials	3/31/2013	6/30/2013	0	95	To be completed once pilot program is complete and widespread implementation takes place.
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 11/29/12

Precast Spec reviews continuing. The next CT-Industry Project Team meeting set for 6 Dec 12. Sections 11 and 90 continue to be refined and will be discussed on that date. Section 11 update pending final review. Sections 49 and 51 to also receive comment.

10/16/12

Next CT team meeting set to take place on 23 Oct. Precast Spec reviews continuing with CT and Industry members. The next CT-Industry Project Team Mtg set for 1 Nov 12. Sections 11 and 90 to be discussed on that date. Section 11 update pending final review. CT members standing by for Industry comments to final draft of Section 11 and Section 90.

9/19/12

Next Project team meeting set to take place on 2 Oct. Sections 51 and 47 to be the next sections reviewed. Review complete for Sections 11 and 90. Draft 11-2 with PC Tiers is in final stages of development; revisions passed to STG at 13 Sept MTG.

8/9/12

Next Project team meeting set to take place on 14 Aug. Sections 51 and 47 to be the next sections reviewed. Review complete for Sections 11 and 90. Draft 11-2 with PC Tiers is in final stages of development; revisions passed to team on 1 Aug. Activity moving forward according to schedule.

7/17/12

Updated Scoping Document finalized at April STG meeting. Has a multi-fold purpose; consists of QC and Technical Revisions, and the creation of Precast Subsections. Team meetings are scheduled throughout Jul-Aug 2012. Draft Section 11 ready in Aug 2012.

7/3/12

On-going biweekly meetings for project team and subgroup committee meetings to discuss provisions QC Provisions and Precast Technical Revisions to the plain language specifications.

4/24/12

A new Scoping Document has been developed based on previous impasse to more clearly define the activity from a Precast QC perspective. New Scope will clarify Precast Technical Requirements and consolidate Precast Spec. Finalized

at March STG meeting. Project team meetings to continue in the coming weeks.

2/23/12
An impasse has been reached. Impasse centers on the ability to create a new Section for Precast. A new Scoping Document is to be developed tp more clearly define the activity from a Precast QCQA perspective. Goal is to finalize by next STG mtg

1/17/12
An impasse has been reached. SP&I staff recently expressed disagreements regarding the need for this issue. SP&I stated that their current unit framework will not support this activity regardless of TG approval. Scoping document approved by TG 7/14/11.

12/23/11
Various discussions of this activity occurred at the project team level and STG level throughout Dec 2011. SP&I personnel involved in the Precast STG have recently expressed disagreements regarding the need for this issue and an impasse has been reached. SP&I personnel state that their current unit framework will not support this activity.

11/22/11
An outline of the spec has been created and was sent to Specifications personnel on October 12. A meeting will take place at the project team level in mid-Dec to clearly define the tasks and endstate for this activity. Any revisions to the Scoping Document will be routed through the Task Group for approval.

10/20/11
A first draft of the "new Precast Concrete Section" and a first draft of the "Levels of Precast QCQA" spreadsheet was sent to OE on October 12. No review comments received as of this date. An outline of this Section will be created and used for discussion at the upcoming STG meeting.

Project **Statewide Aggregate Source Database** **Task Group** Concrete **Subtask Group** Concrete Materials/QA

Target Completion Date 6/30/2013 **Number** 9 **Status** Active **Progress** 65 % **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	115	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	95	Completed. The users are identifed 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.

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 sysytems (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	45	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:

Project 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. **Rapid Strength Concrete for JPCP (JPCPRSC)** **Task Group** Concrete **Subtask Group** CIP Concrete Pavement

Target Completion Date Updates from March 17th Meeting: 7/19/2013 **Number** 16 **Status** Active **Progress** 99 %
Rock Products Committee YES

Purpose Keith wanted to clarify if the proposed SSP will dictate which system to use, or allow for proprietary systems. Prepare specification for use of rapid strength concrete (RSC) for new construction of jointed plain concrete pavement (JPCP)
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
Overall Progress wat challenges/claims we've encountered, and adjust off of these lessons learned. Specification is in the final stage, concurred by OE and construction need to be sent out for concurrence from legal and FHWA.

Activities Planned Updates from Feb 17th Meeting: Get ready for publication
A final detailed work plan has been completed for this Activity, and the project team has begun conducting meetings to
Project Lead complete all of the objectives listed.Cornelis Hakim **Office** Concrete Pavement **Phone** 227-5854 **E-FIS Project** **E-FIS Subtask Number**
Draft Standard Plans and Specs are about 25% complete; A draft Plan was discussed at the Feb 17 meeting
Deliverable or Task Project team members are incorporating lessons learned on previous Precast Pavement projects, and will incorporate Office Start Date End Date Complete % Elapsed % Status
this into the language of the SSP
 # 1 Conc Pvmt 3/1/2011 5/15/2011 100 100 Draft specs were prepared.

# 2	Review draft spec		Other	5/16/2011	9/15/2011	100	100	Completed		
	List of Projects	Status								
# 3	Circulate draft spec (Subtask group, districts)	----------Conc Pvmt		7/25/2011	12/15/2011	100	100	Completed		
	I-10 (El Monte)	Comp								
	I-15	Comp								
# 4	Address comments	I-5/14	Comp	Conc Pvmt	8/25/2011	10/25/2012	100	100	Comment Received from industry and construction and being incoporated into the spec. HQ-OE 2010 conversion	
# 5	General review (District, Industry, other HQ)	680	Comp	Conc Pvmt	10/25/2012	6/1/2013	100	100	Package for section 40 and 41 were sent out for review. Comments received and addressed. Various meeting with HQ OE and construction were held	
	I-80	Bid opening 9/26/12					I-710	Const		
# 6	STG finalize spec	580	Bid opening 9/19/12	Conc Pvmt	6/1/2013	6/12/2013	100	100	Addressed comments from OE, construction and various industries.	
	I-5 (Grapevine CAPM)	RTL 6/29/12								
# 7	Obtain Mandatory Concurrence	405 (CAPM)	RTL 6/29/12	Conc Pvmt	6/12/2013	6/26/2013	100	100	Specification for section 40-5 was sent out for mandatory concurrence on 6/12/2013	
# 8	Submit and Publish Spec	I-710 (Phase II)	DesignOE	7/1/2013	7/19/2013	0	0			
	210 (Maint.)	Const								

Log 9/9/11- Status update-MP

---------- 5/9/11- Draft spec is developed and is currently under review.

Topics like Open strength were discussed during the meeting - modulus of rupture value of RSC for opening is currently less than that of regular pavement.

11/25/11 Issue came up for maximum cement content restriction for district 10 project. Project bid came high, may cause by low engineer estimate. Challenge by CTS for changing cement content requirement.

The project is still on target for July.

05/02/12 No major work due to concentration to finalized ISR, RUB and DBB (2010) spec.

05/29/12 HQ-OE completed the conversion to 2010

05/30/12 End date for #4 moved to 6/30 because of review time and schedule

08/25/12 Begin review comment from district and industry

10/24/2012 Specifications and plan for section 40 and 41 were sent out for review.

11/9/12 Received comments from HQ construction.

11/20/12 Received comment from HQ OE

Project **Smoothness** **Task Group** Concrete **Subtask Group** CIP Concrete Pavement

Target Completion Date 6/1/2013 **Number** 19 **Status** Active **Progress** **100 %** **Rock Products Committee** YES

Purpose Develop inertial profiler smoothness specifications and calibration test procedures for acceptance on concrete pavement. Develop Caltrans protocols for equipment and operator certification.

Overall Progress Update section 40 & 42 RSS to include smoothness requirements in July posting.

Activities Planned Monitor status of concrete projects constructed in 2012 w/ IP nSSP (see log).

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

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Develop IP SSP	Conc Pvmt	5/2/2011	12/31/2012	100	100	IP Specifcation posted on 2/22/13.
# 2				0	0	
# 3				0	0	
# 4				0	0	
# 5 Ongoing monitoring and evaluation	Conc Pvmt	4/2/2012	6/1/2013	100	100	There are several pilot projects (see end of log for list and status). Most projects will pave in 2013.
# 6					0	
# 7					0	
# 8					0	

Log 04/19/13 Revise SSP posted. AYF
02/22/13 SSP posted. AYF
02/12/13 Obtained Construction mandatory concurrence resubmittal. AYF
01/18/13 Obtained mandatory stakeholder concurrence. AYF
12/04/12 Circulated SSPs for OE and Const review. AYF
11/26/12 Circulated SSPs for District review. AYF
11/20/12 Change SSP submittal to OE date from 10/31/12 to 12/31/12. AYF
08/31/12 Circulated SSP for industry review; did not received comments to date. AYF
09/25/12 Moved construction and design guidances & training to its own project. AYF
08/31/12 Resolved Construction SSP comments. AYF
08/29/12 Deleted Equip & operator certification from Project Deliverables. Asphalt office will prepare the certification procedures. Replaced with Design Training.
08/29/12 Updated end date for Guidance delivers from 10/31/12 to 01/28/12.
08/14/12 Received Construction SSP comments. AYF
07/23/12 Circulated Draft SSP to Const & METS. AYF
07/19/12 Resolved Draft SSP Pavement Chiefs' review comments. AYF
07/05/12 Developed Draft HDM revisions; comments due 07/30. AYF
06/27/12/ changed end date for equipment & operator certification procedures from 06/01/12 to 10/15/13. AYF
06/06/12 reviewed RT Watt Parking lot for potential cert site.
01/30/12 - Internal meeting with Pavements, Construction, and UPPRC on spec and implementation issues. IRI acceptance of 60.

Pilots with inertial profiler nSSP:
*02-sis-5; PM51.2/58.1; 02-3e760, CRCP reconstruction (modified nSSP in CRCP spec with incentive/disincentive clause); Awarded 12/22/2011; approx complete Nov 2014.
*03-sac-80; PM0/10; 03-3797u4; widening/lane replacement/grind existing (nSSP incl by addendum); Awarded 07/29/2011. In construction; approx complete 2015.
*06-ker-99; PM28.4/43.9; 06-0L640; CRCP lane replace/grind existing (nssp incl by addendum); Awarded 01/18/2012; approx complete Aug 2013.
*07-la-60; PM11.6/23.6; 07-28690; JPCP RSC lane replacement (nSSP incl); Awarded 12/22/11; approx complete Apr 2014.
*10-sta-99; PM0/24.8; 10-0m800; JPCP RSC lane replacement/grind existing/CSOL (nSSP incl); Award 02/13/12;
*10-sj-5; PM25.3/28.5, 10-0m780; CRCP lane replace/grind existing (nSSP approved); RTL'd 06/13/12; Advertise 09/04/2012; Bid Open 10/30/12. Award 12-10-12.
*04-sol-80; PM30.6/38.7; 04-4a010; CSOL; Bill sent spec; RTL 12/30/11; Advertise 07/23/12. Bid Open 09/26/12. Award 10-26-12.
*04-ala-580; PM8.4/14.6; 04-2908C4; nSSP approved 05/17/12; RTL'd 05/22/2012; Advertise 07/16/12; Bid Open 09/19/12. Award 11-20-12

Project **Update Construction Manual** **Task Group** Concrete **Subtask Group** Concrete Materials/QA

Target Completion Date 6/30/2013 **Number** 20 **Status** Active **Progress** **75 %** **Rock Products Committee** YES

Purpose Update Construction Manual to conform to changes made to Sections 6, 9, 11, 40, 49, 51, 53, 72, 73, 83, and 90 of the 2010 Standard Specifications.

Overall Progress All Section 4 subsections completed except 4 sections.

Activities Planned Revised Section 4 subsections posted for review and comments at: http://www.dot.ca.gov/hq/construc/constmanual/

Project Lead Chuck Suszko **Office** HQ Construction **Phone** (916) 227-7314 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Revise Sec 6 & 9 of Chapter 3 General Provisions	HQ Constr	12/1/2010	6/30/2013	70	100	Version 1.0 drafts completed and editing before circulation for comments.
# 2 Revise Chapter 4 Construction Details	HQ Constr	12/1/2010	6/30/2013	90	100	All sections complete except 4 sections.
# 3 Revise Chapter 6 sampling and testing	HQ Constr	12/1/2010	6/30/2013	70	100	Version 1.0 drafts completed and editing before circulation for comments.
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 11/29/12

Review of draft subsections taking place. Progress to continue in coming days.

9/19/12

Section 4 subsections 16, 19, 49, 50, 19, 22, 24, 27, 28, 29, 41, 42, 53, 54, & 73 closed for review. Subject matter experts creating workplans and drafts for remaining section 4 subsections. Updates to be relayed to the STG for review concurrently.

12/23/11

Updates to the construction manual continue to be created and posted onto the Caltrans website. Work will be ongoing in the coming weeks.

11/22/11

Subject matter experts are currently creating workplans and drafts for the Section 4 subsections. Construction continues to develop and post updates online.

Priority swapped with performance based QC/QA specs based on discussion in task group meeting. Additionally the substantive work can only begin once the new specification is available.

08/07/12

Updated sections that are posted for review.

09/27/12

Updated progress.

3/27/13 CDS

Updated progress.

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

Target Completion Date 6/30/2013 **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	135	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	4/30/2013	0	195	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	6/30/2013	0	95	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 **CRCP Design Details - Phase 2** **Task Group** Concrete **Subtask Group** CIP Concrete Pavement

Target Completion Date 7/1/2013 **Number** 23 **Status** Active **Progress** **80 %** **Rock Products Committee** YES

Purpose Prepare and improve CRCP standard plans and specifications.

Overall Progress CRCP Spec and Revised Standard Plans (RSPs) are being drafted and finalized for mandatory Stakeholders' concurrence.

Activities Planned Prepare and send specs and RSPs for concurrence.

Project Lead Flor Bautista **Office** Concrete Pavement **Phone** 916-227-5843 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Revise Standard Plans for updates and upadte SP 40-3.	Conc Pvmt	2/1/2012	7/1/2013	70	100	Draft SSP 40-2 review/commets and redline changes are being addressed and being incorporated. Reviewed comments with Construction on 11/28/12.
# 2	Review if exp jt is required at CRCP/approach slab terminal joint as shown in P31 A	Conc Pvmt	2/1/2012	7/1/2013	70	100	Details for terminal joints Type E and Type D were updated in standard plan P31A. This is a part of Standard plans revision and updates in Task 1.
# 3	Develop standard plans drawing details for differing wide flange beam sizes.	Conc Pvmt	2/1/2012	7/1/2013	70	100	Updated standard plan P32B to include details when two WFB sizes will be used in CRCP with different thicknesses. This is a part of Standard plans revision and updates in Task 1.
# 4						0	
# 5						0	
# 6					80	0	
# 7						0	
# 8					60	0	

Log 7/26 It was determined that expansion joint will not be placed at CRCP/approach slab but will maintain its position 35' from that location. Concurrence by tech lead was given. Revised standard plan P31A for clarity.
5/30 Intersection layout drawing was submitted for internal review.
4/16 to May 18- on vacation.
4/12 TxDOT expansion joint current practice was reviewed.

1/23 Update of construction joint, wide flange beam and pavement anchor terminals guidance is under internal review. Review includes design rationale table annd backup calcs.
1/25 Downloaded ConcreteWorks program as a tool to evaluate early age cracking of CRCP. Getting familiarize with the user manual and the same time making some test runs.

4/8 Met with Industry and national experts on 4/8/2011. Internal review the latest draft of the guide underway.
4/12 The following were submitted for internal review and comment.
1. Draft drawing of CRCP layout at intersection.
2. A review and evaluation of expansion joint requirements at bridge approach slabs.
3. Draft drawings showing two options on how to provide longitudinal reinforcements where CRCP opening is necessary for contractors use.
4. Draft drawing was developed for connecting diferent sizes of wide flange beam for use in CRCP with different thicknesses. This issu was discussed in CRCP workshop where Caltrans and Industry experts were present.
5. A review and summary of ConcreteWorks program. A tool that is alternative to HIPERPAVE to predict early age cracking. Program analyzes temperature pricdiction, max temperature, ASR susceptibilty and concret CO2 emission.

Project **Roller Compacted Concrete** **Task Group** Concrete **Subtask Group** CIP Concrete Pavement

Target Completion Date 6/30/2013 **Number** 24 **Status** Active **Progress** **35 %** **Rock Products Committee** YES

Purpose Create specifications, design procedures, and inspection guidelines, update HDM and try on pilot projects.

Overall Progress Draft special provisions are ready for implementing on pilot project. Incorporated into 1 pilot project in District 7.

Activities Planned Continue to look for pilot projects for using RCC NSSP.

Project Lead Doran Glauz **Office** Pavement Engineering **Phone** 916-227-5848 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Pilot Special provisions	Conc Pvmt	9/1/2012	4/30/2013	100	100	Specificationis currently in on project in District 7.
# 2 Design Guidance for HDM	Conc Pvmt	1/1/2013	6/30/2013	0	100	No progress.
# 3 Revise draft nSSPs to SSPs	Conc Pvmt	4/30/2013	6/30/2013	0	95	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 8/8/2012 - Entered need, status as SSPs are ready for impementing and entered the three deliverables. Entered resource demands to match the scoping document. Project with RCC is 07-252634, estimated ad date is September, 2012.

Project **Full Depth Reclamation -- Cement** **Task Group** Foundation **Subtask Group** Full Depth Reclamation

Target Completion Date 7/30/2013 **Number** 8 **Status** Active **Progress** **95 %** **Rock Products Committee** YES

Purpose Develop a package of guidance, specifications, and test methods for Full Depth Reclamation using cement additive (FDR-C).

Overall Progress SSP complete. Construction guide will be completed by 7/30/2013.

Activities Planned Complete construction guide by 7/30/2013.

Project Lead Paul Burdick **Office** Pavements **Phone** 227-5441 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Test Method	Materials	7/1/2012	1/30/2013	100	100	No test method needed.
# 2	Develop draft Design Guidelines	Conc Pvmt	7/1/2012	2/20/2013	100	100	Task complete.
# 3	FTG/Dist Review/Resolve comments for Design Guidelines	Conc Pvmt	2/20/2013	3/16/2013	100	100	Task compelet
# 4	Draft SSP to STG concurrence	Conc Pvmt	7/1/2012	2/20/2013	100	100	Task complete.
# 5	FTG/Dist Review/Resolve SSP comments	Conc Pvmt	2/20/2013	3/16/2013	100	100	Drafts forwarded for Mandatory Stakeholder Concurrence on 3-7-13. Task complete.
# 6	SSP published by OE	HQ Constr	4/1/2013	4/30/2013	100	100	Submitted to OE on 3-28-13 for publication.
# 7	Construction guidance	HQ Constr	11/1/2012	7/30/2013	0	85	No status from Construction yet.
# 8					0	0	

Log 8-23-12: Draft SSP sent to STG. Reviewing industry design methodology publications. STG meeting scheduled for 9-14.--pdb
9-20-12: STG meeting on 9-14. More comments to resolve 10-17. Issue on cement content maximum.--pdb
10-17-12: At STG meeting, major issue regarding method vs. end-result specs. Elevated to FTG.--pdb
2-20-13: Circulated draft SSP and Guidance to FTG and Districts (and Area Reviewers). Due date for comments March 6.--pdb

Project **Full Depth Reclamation -- Emulsion** **Task Group** Foundation **Subtask Group** Full Depth Reclamation

Target Completion Date 8/30/2013 **Number** 9 **Status** Active **Progress** **50 %** **Rock Products Committee** YES

Purpose Develop a package of guidance, specifications, and test methods for Full Depth Reclamation using asphaltic emulsion additive (FDR-E).

Overall Progress Sent updated draft to Sara Azlate on 4-25-13. Requested stg concurrence. Circulated to Districts on 4/29, comments due 5/17 -- no comments received. Requested mandatory stakeholder concurrence 5/10 (Const) and 5/28 (others).

Activities Planned Receive mandatory stakeholder concurrence by 5/24 (Constr) and 6/7 (others).

Project Lead Paul Burdick **Office** Pavements **Phone** 227-5441 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Test Method	Materials	1/1/2013	1/30/2013	100	100	No new California Test Method will be created. Mix design procedures will have to be specified.
# 2	Develop draft Design Guidelines	Conc Pvmt	1/1/2013	7/1/2013	50	90	In progress
# 3	FTG/Dist Review/Resolve comments for Design Guidelines	Conc Pvmt	7/1/2013	8/30/2013	0	0	
# 4	Draft SSP to STG concurrence	Conc Pvmt	1/1/2013	5/1/2013	100	100	Sent draft on 4-25-13. Requested stg concurrence. No comments received.
# 5	FTG/Dist Review/Resolve SSP comments	Conc Pvmt	5/1/2013	7/1/2013	100	100	No comments received.
# 6	SSP published by OE	HQ Constr	7/1/2013	7/30/2013	0	0	
# 7	Construction guidance	HQ Constr	4/1/2013	7/30/2013	0	60	No progress reported.
# 8					0	0	

Log 9-20-12: No work performed yet.-pdb
2-25-13: Received comments on draft from S. Azate.--pdb

Project **Lean Concrete Base Testing** **Task Group** Foundation **Subtask Group** Treated Soils and Bases

Target Completion Date 5/20/2013 **Number** 10 **Status** Active **Progress** 70 % **Rock Products Committee** YES

Purpose Contractors become responsible for mix design for LCB, including evaluation of proposed aggregates through strength testing.

Overall Progress Met with Industry March 14, 2013. Industry voiced objections to the draft LCB spec. They objected to the frequency of QC sampling and testing during production and the parameters to qualify the LCB aggregate.

Activities Planned Caltrans will revise specification on Lean Concrete Base to address industry concerns.

Project Lead Leo Martinez **Office** METS **Phone** **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Research -- Identify Test Procedures 1. Costs for Translab? 2. Expected increase in bids for the item? 3. Independent Labs capable?	Materials	8/1/2012	9/1/2012	100	100	Completed this research.
# 2	Develop spec revisions	Conc Pvmt	12/15/2012	12/19/2012	100	100	First draft completed.
# 3	Review revisions in STG	Materials	12/20/2012	1/23/2013	100	100	Received comments from Industry and task group members.
# 4	Document comments, resolve issues, and update spec	Conc Pvmt	1/23/2013	4/10/2013	20	185	A revised draft is being prepared for discussion with sponsors.
# 5	General review in Districts, FTG	Materials	4/10/2013	4/18/2013	0	800	
# 6	Document comments, resolve issues, and update spec	Conc Pvmt	4/18/2013	4/25/2013	0	800	
# 7	Mandatory Stakeholder review	Conc Pvmt	4/25/2013	5/1/2013	0	815	
# 8	Publish	OE	5/1/2013	5/20/2013	0	225	

Log 12/20/2012: Based on Dec 13, 2012 meeting, next meeting with STG to discuss comments on first draft will be on Jan 23, 2013.
Met with Industry March 14, 2013. Industry voiced objections to the draft LCB spec. They objected to the frequency of QC sampling and testing during production and the parameters to qualify the LCB aggregate.

Project **Compensation for Ordered Increases in Additives** **Task Group** Foundation **Subtask Group** Stabilized Bases

Target Completion Date 6/30/2013 **Number** 11 **Status** Active **Progress** **60 %** **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 compete. Scoping document for Phase-2 is submitted.

Activities Planned Develop language to incorporate additional cost due to increased order of additives (lime) by 6/30/2013.

Project Lead Deepak Maskey **Office** Ofc of Rigid Pvt and Pvt Foundation **Phone** 916 227 5842 **E-FIS Project** **E-FIS Subtask Number**

	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	6/30/2013	80	90	Phase-2: A draft specification developed to incorporate specification for additional cost due to ordered increase additives (lime) by 6/30/2013.
# 3	Phase-2: Construction Guide	Industry	12/5/2012	6/30/2013	0	90	Phase-2 : Develop of language to incorporate into guide for additional cost due to ordered increase additives by 6/30/2013.
# 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: Metting 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 1hour 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 prsented 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.

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

Target Completion Date 6/28/2013 **Number** 3 **Status** Active **Progress** **40 %** **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 rewriten 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	1/31/2013	75	130	
# 2	Develop standard special provisions	Engr	1/1/2012	5/3/2013	75	110	Revised specification should be ready for circulation 4/5/13.
# 3	Standardize test methods/ lab procedures	Mets	9/3/2012	5/3/2013	50	120	LP-8 rewriten as aengineered mix design.
# 4	Develop guidelines/ MTAG	Asphalt	1/2/2013	6/28/2013	0	100	No Progress
# 5	New Mix Design and JMF Forms	Asphalt	3/1/2013	5/3/2013	0	185	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	1/31/2013	0	130	
# 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** **Task Group** Preservation **Subtask Group** Seals & Coats

Target Completion Date 1/17/2014 **Number** 4 **Status** Active **Progress** 50 % **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 perfrom 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	75	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	45	
# 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	40	
# 8					0	0	

Log 4 sets of test section have been done.
The subtask group needs to draft their proposed specification
1/13/11, lrouen 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 Committte 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** **Task Group** Preservation **Subtask Group** Specifications

Target Completion Date 8/1/2013 **Number** 5 **Status** Active **Progress** **60 %** **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 sllurry seals.

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 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	100	Attempting to develop spec with language to account for REAS strategy.
# 7 MTAG Guidelines	Chico	1/1/2013	6/28/2013	0	100	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 Committte 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** **45 %** **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 comeents.

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 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	90	Draft 2010 SSP completed and ready for circulation.
# 4 Update Guidelines	Chico	12/3/2012	6/28/2013	0	100	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, lrouen, 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** 35 % **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	115	Monitoring continuing. Report updated and in review/comment phase.
# 3	Develop and Finalize SSP	Asphalt	12/3/2012	6/28/2013	10	100	Draft 2010 specification should be completed by mid April 2013.
# 4					0	0	
# 5	Update MTAG	Chico	1/1/2013	6/28/2013	0	100	
# 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** **20 %** **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	65	Candidate project in District 2.
# 3 Evaluation of Project	Chico	5/2/2013	10/1/2014	0	10	
# 4 Evaluation Report	Asphalt	7/1/2013	12/1/2014	0	0	
# 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, lrouen, revised Pys and target dates.
2/14/11, Rewrite purpose and need, PJV
6/25/11-Next General Meeting of Seal Coat Committte 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 finsh 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 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

Project **Joint Sealing** **Task Group** Preservation **Subtask Group** Concrete Repairs

Target Completion Date 7/19/2013 **Number** 9 **Status** Active **Progress** **80 %** **Rock Products Committee** YES

Purpose Sealing or resealing transverse concrete pavement joints may not be necessary or cost effective for all climate zones in California.

Overall Progress Standard plan and specifications submitted to Office Engineer for final formatting.

Activities Planned Incorporate comments on final draft specifications and standard plans

Project Lead Linus Motumah **Office** Concrete Pavement **Phone** 916-227-5816 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Caltrans Joint Seal Practice	Conc Pvmt	7/1/2010	3/1/2012	100	100	Report was finalized on 6/1/2012.
# 2	Review and analyze existing manuals and guidance	Conc Pvmt	9/15/2011	5/1/2012	100	100	Existing manuals, guidance, and recent research work were reviewed.
# 3	Develop Policy	Conc Pvmt	11/17/2011	4/24/2012	100	100	The policy is completed.
# 4	Develop standard plan	Conc Pvmt	11/17/2011	8/1/2013	99	95	Submitted to OE for publishing
# 5	Develop standard specifications	Conc Pvmt	11/17/2011	8/1/2013	99	95	Submitted to OE for publishing
# 6	Develop final HDM	Conc Pvmt	4/24/2011	10/31/2012	100	100	HDM Index 622.5 Joint Seals final discussion with Design on 10/26/12. Index 622.5 to be published on Internet 11/1/12
# 7	Update the MTAG	Conc Pvmt	11/1/2012	3/1/2013	0	200	Start date pushed back to November 2012
# 8						0	

Log 3/23/11--Updated deliverables and dates.
4/08/11--Teleconference was held to discuss test section work plan developed by Industry. Industry to expect comments and incorporate them in the work plan.
6/02/11--Teleconference to discuss what will be accomplished in 9-month period, review of the test section evaluation work plan developed by Industry.
6/22/11--Finalize the draft Caltrans joint sealing practice report target circulation 8/1/11
7/20-11--Project work plan sent to Industry for comments.
8/30/11- Final draft Caltrans joint sealing practice report target 2/15/12.
9/19/11--Industry was informed that Caltrans can not commit any testing or monitoring resources beyond the annual APCS.
10/3/11--Industry does not want test sections without detailed analysis. Rough draft of Section 41 update under development.
10/12/11--Draft standard plans under development.
10/13/11--Modified work plan with no test sections developed.
11/8/11--Work on plan and database updated, schedule revised.
11/17/11-Work on Caltrans policy, Standard specification, and HDM.
12/09/11-Caltrans policy, standard specification, Standard plans, and HDM are under internal review.
1/25/2012-Caltrans/Industry joint sealing field review report was sent out for review.
3/1/2012-Caltrans/Industry joint sealing field review report was finalized.
On 4/12/2012 a meeting was held between Caltrans and industry to examine information about new materials for joint sealing. Draft of standard plans, specifications, and HDM are being internally reviewed.
5/14/2012 HDM changes has been drafted, Standard Specification, and plan are 50% complete.
5/30/2012 An additional 2 month is added to the project schedule due to several changes of personnel.
6/25/2012 Submit spec. & plans to Office Engineer for formatting and review by 7/9/2012.
7/9/12: Draft specs submitted to OE for initial review & comments
8/22/12: HDM Index 622.5 Joint Seals submitted to Design for publication
10/2/12: Design circulated Index 622.5 Joint Seals for final review before publication.
10/24/12: Final draft specs and plans distributed for review.
10/26/12: HDM Index 622.5 Joint Seals final discussion with Design.

Project **Concrete Spall Repair** **Task Group** Preservation **Subtask Group** Concrete Repairs

Target Completion Date 6/21/2014 **Number** 10 **Status** Active **Progress** **45 %** **Rock Products Committee** YES

Purpose Develop specific standardized guidelines, specs, plans, and training for constructing partial depth spall repairs with alternative materials.

Overall Progress Submitted standard plan and spec to OE for final formatting.

Activities Planned Coordinate with METS on QPL.

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	10/1/2012	100	100	Draft scoping doc revised per state pavement engineer. Awaiting signed copy.
# 2	Workplan	Conc Pvmt	8/31/2011	10/1/2012	100	100	Draft work plan revised per state pavement engineer. Awaiting signed copy.
# 3	Develop pre-qualified products list for concrete patching	Materials	1/1/2012	6/21/2014	45	60	METS has developed QPL criteria, awaiting signed scoping document.
# 4	Standard plans for spall repair and associated spec changes	Conc Pvmt	3/1/2012	8/1/2013	99	95	Standard plan and specs submitted to OE for final formatting
# 5	Update standard spec for material properties	Conc Pvmt	2/4/2013	8/1/2013	0	80	Incorporate materials updates for pre-qualified products list.
# 6	Update spall repair guidance - MTAG	Conc Pvmt	7/1/2013	11/1/2013	0	0	Revise MTAG for new standard plan, spec, design, and construction practice changes
# 7					0	0	
# 8					0	0	

Log Met with METS 8/13/12 and agreed on schedule and planned activities.
5/8/12 - revised data for new scope and workplan.
2/28/12 - updated status. Workplan being reassessed.
7/11/11 - updated status re-ordering deliverables page, completion dates and weights.
6/22/11 - discussed item at subtask group meeting. Existence of scoping doc is unknown. Update project deliverables.
1/13/11, lrouen, updated targets and pys
2-28-11, verified pys. Lrouen

Project **Full Depth Concrete Repair (Slab Replacement)** **Task Group** Preservation **Subtask Group** Concrete Repairs

Target Completion Date 7/19/2013 **Number** 11 **Status** Active **Progress** **95 %** **Rock Products Committee** YES

Purpose Provide consistency in the specifications and plans used throughout the State.

Overall Progress Specification is in the final stage, concurred by OE and construction need to be sent out for concurrence from legal and FHWA.

Activities Planned Get ready for publication

Project Lead Cornelis Hakim **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	Create interim nSSP	Conc Pvmt	3/1/2011	5/1/2011	100	100	Available for district use.
# 2	Update slab replace guidelines	Conc Pvmt	12/15/2010	10/30/2011	100	100	Guidelines sent back consultant and being incoporated into Web Course. Finished at end October
# 3	Draft new SSP to reflect need changes (ie D-7)	Conc Pvmt	3/1/2011	6/1/2011	100	100	Incorporated D7 proposals.
# 4	Review and Negotiate new SSP	Conc Pvmt	10/25/2012	6/1/2013	100	100	11/9 - 11/28 Comments received from HQ Construction, OE and V Perez. Comments were being addressed, meetings were
# 5	Finalize new SSP	Conc Pvmt	6/1/2013	6/12/2013	100	100	Addressed comments from OE, construction and various industries.
# 6	Obtain Mandatory Concurrence	Conc Pvmt	6/12/2013	6/26/2013	100	100	Specification for section 41-9 was sent out for mandatory concurrence on 6/12/2013
# 7	Submit and Publish Spec	OE	7/1/2013	7/19/2013	0	0	
# 8	Update guidelines to reflect SSP changes	Conc Pvmt	9/1/2011	3/31/2012	100	100	Guidelines updated

Log #1 Reorganization of slab replacement specifications is being accomplished by taking existing SSP language and reorganizing it in 2010 specs for concrete to resolve several issues on slab replacement and rapid strength concrete. 2-28-11, Lrouen. Updated PY estimates.
#2 06/15-28 Review/Revise and update guide lines for ISR to match specification. Review and revise spec as necessary for major item only.
#3 7/20 Received concrete lane replacement guide line from consultant (Linda Pierce).
#4 8/11 Sent tabulated comments from Robert, Doran Bill and Cornelis back to Linda Pierce

#5 8/14 Received draft ISR Course from Linda Pierce.
#6 8/16 Sent comment from CH back to Linda Pierce
#7 9/9 Sent comment from Doran and Bill to Linda Pierce. Issue to address the naming between cementitious and bituminous to concrete and asphalt.

#8 8/5 Sent out to rock product (20# CT and outside) for review nSSP for ISR (individual replacement slab), RUB (Replace Underlying Base) and DBDR (Drill and Bond Dowel Retrofit) due 8/31
#9 9/2 Received comment for ISR and RUB only from Austin Perez.
#10 9/7 Received additional comment from Sharon Hansen. Email and phone call to address "removal section 15, 2006 and 2010" issue. No comment from Craig Henning the requestor of this project.
#11 9/23 Received comment for ISR from CPPC. Slab Replacement comment being reviewed by APTEC, projected final at end October, Received corrected Lane Replacement, being checked. DBDR guide comment sent back to APTEC. PARVIA worked on ISR Guide Webcourse, expected return October 15.

#12 12/1 Begin tabulate coment and response
#13 1/9/12 Receive comment from construction for RUB (Replace Underlying Base).
#14 2/25/2012 Continue tabulate response and comment. Discussed language changes with HQ-OE
#15 5/1/12 Send 2010 RSS for RUB and DBB to HQ-OE.
#16 5/30/12 Check with OE for status of RUB and DBB review, complication of RUB replace item is being discussed.
#17 6/29/12 RSS for ISRRSC (2010) is being reviewde by HQ. All comments, 2010 SSP and 2006 NSSP have been incoporated in to the RSS. Items such as DBB, RUB and joint seal have been separated or taken out.
#18 7/23/12 Updated combined section 41 sent to HQ-OE for complete review.
#19 8/27/12 Comments from HQ construction for ISRRSC, DBB and RUB were received, discussed and addressed.
#20 10/24/12 Sent out specification and standard plans package of section 40 and 41 for final review.

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

Target Completion Date 6/30/2013 **Number** 14 **Status** Active **Progress** **90 %** **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 UCPRC published Third Year Rigid Pavement QPR final report on April 2, 2013. UCPR is in the process of finalizing NGCS report and collect data for the fourth year QPR study.

Activities Planned UCPRC to submit NGCS draft report by May 17, 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	6/30/2013	70	100	Data collection continuing. UCPRC to submit status update by May 31, 2013.
# 6	Evaluation of OBSI and texture characteristics of NGCS pilot test sections.	UCPRC	5/1/2011	3/31/2013	99	110	UCPRC to submit draft report by May 17, 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	10/31/2011	100	100	Development of work plans by UCPRC in collaboration with Pavement Program completed.
# 8						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) Third Year QPR final report published April 2, 2013.
2) UCPRC to submit NGCS draft report by May 17, 2013.
3) UCPRC conducting Fourth Year QPR study, status update by May 31, 2013.

Project **DBR Polyester Backfill** **Task Group** Preservation **Subtask Group** Rigid Pavement

Target Completion Date 4/1/2013 **Number** 15 **Status** Active **Progress** **80 %** **Rock Products Committee** YES

Purpose Shrinkage and low strength problems have been previously encountered with the backfill material used for DBR. There is a need to find a material that performs better and which less susceptible to degradation during the construction process

Overall Progress Standard backfill material specification completed and abandoned. Polyester backfill material specification under final mandatory concurance review. Chico reviewed a standard backfill project on Rte 50.

Activities Planned Planned publication June 2013.

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	Peform Year 1 review of Sac 50 DBR project	Chico	9/1/2011	3/31/2012	100	100	Field review completed January 18. FWD data and impact echo NDT data analysis complete.
# 2	FWDs, cores and test	Materials	7/5/2011	9/25/2012	100	100	Field testing completed Jan 18. Core removal done in 2nd week of July, tested during August.
# 3	initial report	Chico	1/25/2012	4/20/2012	100	100	Impact echo testing report complete. Visual examination report complete. MIRA report complete. Initial field review report complete
# 4	Update nSSP from lessons learned	Conc Pvmt	3/1/2012	9/1/2012	100	100	
# 5	Evaluate if spec should be	Conc Pvmt	1/1/2013	1/31/2013	100	100	Specificationis to be ued as only DBR option by ssp or nssp. Pending mandatory concurances
# 6	Update existing specification, std backfill		7/20/2012	8/15/2012	100	100	std backfil material is not going into sectio 41 as a standard material.
# 7	Adopt updated ssp for standard backfill	Conc Pvmt	10/1/2012	4/1/2013	100	100	effort abandoned after completion
# 8					100	100	

Log 8/27/12 - Coring Retrofit project on US 50 completed July 10-12.
2/12 - Field review and NDT conduducted on Jan 17 and 18. 4 NDTs conducted on 25 joints at DBR w/o overlay and at grind only sites. Visual evaluation at ovelay locations shows the new HMA overlay is in good condition with an area of segregation.
11/23/11 - Additional work of NDT by accoustic pulse testing is approved.
10/14/11 - Plan for evaluation is field evaluation will be performed at year 1, 3, and 5 by visiual and FWD. Other NDT may also be performed.
9/6/11 Talked with RE Mishack, Project has no funds to provide a lane closure. It is scheduled to be ended December 2011. This may prevent any testing before January 2012.
3/24/11, lrouen, update deliverables and target dates
2-28-11, lrouen. No updates
1/12/11, Lrouen, Working with D-3 to identify study area. Workplan in progress
8/3/2010- NSSP currently in use for SAC 50 project.
Only activities 1 and 2 are active for this project and only because they are follow-ups to previous work.

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

Target Completion Date 6/30/2015 **Number** 16 **Status** Active **Progress** 30 % **Rock Products Committee** YES

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

Overall Progress Developing test plan and nSSP's for hardener and shot blasting test sections. Waiting for revised task order submittal for 1st year data.

Activities Planned Develop test plan for test sections; coordinate pilot projects and testing for 2013 construction season. Review 1st year data.

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	10/1/2013	65	75	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 FY
# 3 Test plan	Conc Pvmt	7/25/2012	9/3/2013	50	85	CP2 Center draft being developed.
# 4 Materials issues	Materials	1/7/2013	9/6/2013	0	95	Review product info, patents, and standard tests.
# 5 SSP	Conc Pvmt	6/3/2013	6/30/2014	0	5	Version 2 update for materials pre-QPL.
# 6 Guidance	Chico	7/1/2013	12/19/2014	0	0	MTAG and Construction Manual.
# 7 Performance reports	Chico	10/1/2012	2/1/2015	10	30	Initial report by 11/15/13 pending pilot construction.
# 8 Training material	Conc Pvmt	8/1/2014	6/30/2015	0	0	TBD

Log 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, lrouen, 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