ROCK PRODUCTS COMMITTEE

WORK PLAN STATUS

April 4, 2012

"Plan the Work

Work the Plan"

Contents

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Concrete Task Group Projects
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“Caltrans, Industry and FHWA Working Together”

STATE OF CALIFORNIA
PAVEMENT PROGRAM STATUS CALENDAR

DEPARTMENT OF TRANSPORTATION

2012

ROCK PRODUCTS COMMITTEE / PAVEMENT PROGRAM STATUS 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
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29	30	31				

FEB

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APR

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MAY

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JUN

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JUL

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NOV

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DEC

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JAN 2013

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28	29	30	29			

Status Calendar Legend

- Monthly Pavement Management Council (PMC) Status Meeting
- Quarterly PMC Status Meeting with Asst. Division Chiefs
- Last Day for Monthly Status Document Update
- Status Document Preparation and Posting
- State Hoildays
- Quarterly Rock Products Committee (RPC) Meeting
- Pavement Program Steering Committee (PPSC) Meeting

***All status meetings will be held from 9:00 to 11:00 AM.**

10/24/2011

Pavement Program Project Management Monthly Report

Project **Warm Mix Asphalt** **Task** Asphalt **Subtask** Warm Mix Asphalt

Target Completion Date 1/1/2012 **Number** 2 **Status** Active **Progress** **90 %** **Rock Products Committee** YES

Purpose Develop a specification and testing protocol to correctly implement the use of WMA technology in California.

Overall Completed WMA Approval Process. Completed draft Contractor Option Specifications and identifying projects for monitoring and evaluating.

Project Lead Cathrina Barros **Office** Roadway Materials **Phone** 227-7162 **E-FIS Project Number** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Approval Process	Asphalt	6/30/2009	3/18/2011	100	100	Approved 3/18/11
# 2	Contruction Policy Directive, Contractor Option WMA nSSP for On-going projects	Asphalt	9/1/2010	1/1/2012	85	115	Construction developing CPD.
# 3	Caltrans nSSP for CT projects	Asphalt	9/1/2010	1/1/2012	75	115	Completed. Identifying projects. Developing WMA usage guidance for districts
# 4	Training	Asphalt	4/1/2011	7/13/2011	100	100	Completed 7/13/11
# 5					0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 12/3/2010 - draft dispute resolution document developed (WMA in mix design)
10/31/2010 - Developed draft approval process.
1/19/11 - Update status, PJV
4/25/11-Update status, SR
7/11/11 - Status Update, Monitoring Sac -5 project. PJV
8/22/11 = Status Update

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

Target Completion Date 4/2/2012 **Number** 3 **Status** Active **Progress** **97 %** **Rock Products Committee** YES

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

Overall Of 31 CTMs reviewed, 29 posted to CT web. 4 (2 original and 2 supplemental) modified to match up with new CTM 304.

Project Lead Nahid Hosseinzadeh **Office** Roadway Materials **Phone** 227-7322 **E-FIS Project Number** **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, 309, 367, 368	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	99	110	Posted by 9/30/11 Waiting for final approval for posting
# 3	CTM 366, 367, 379, 382 changes to cover CTM 304 change to "Total wt. of mix."	Mets	7/1/2011	4/2/2012	90	90	To be formatted and posted to CT web. Need CPD and associated forms and specs. Posting will be in Fall of 2012 to coincide with deployment of 2010 Std 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					0	0	
# 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** **Task** Asphalt **Subtask** Section 39

Target Completion Date 12/31/2012 **Number** 4 **Status** Active **Progress** **60 %** **Rock Products Committee** YES

Purpose The purpose of the standing committee on Section 39 subtask group is to identify, prioritize, address deficiencies, and improve Section 39 specification on an ongoing basis.

Overall
Resolved 18 of 20 1st priority issues. To be posted on HQOE server 10/21/11
Resolved 6 of 22 2nd priority issues.
Resolved 3 of 4 3rd priority issues.
Added FAQ

Project Lead Kee Foo **Office** Asphalt **Phone** 227-5436 **E-FIS Project Number** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Gather Industry/Caltrans Commets on specifications	Asphalt	3/1/2010	8/31/2010	100	100	Collected and organized
# 2	Resolve 1st Priority Issues (14 + 5 issues) + Type C (Per 8/17/11 meeting)	Asphalt	3/21/2011	9/30/2011	100	100	Resolved 18/20 issues to be posted to HQOE on 10/21/11; 1 issue sent to Dispute Resolution; 1 issue reclassified as Priority 2 for further discussion.
# 3	Revise Specs on 1st Priority Issues	Asphalt	10/1/2011	12/15/2011	100	100	Finalized proposed language changes and sent to OE (9/19/11). Posting on 1/20/12.
# 4	Resolve 2nd priority issues (8 Issues) + 3 issues (reclassified from Priority 1) + 11 new issues	Asphalt	11/1/2011	3/31/2012	0	85	6 issues addressed; Next meeting 1/19/11
# 5	Revise Specs on 2nd Priority Issues	Asphalt	4/1/2012	4/30/2012	0	0	Resolved issues to be posted on 4/20/12
# 6	Resolve 3rd Priority Issues (4 Issues)	Asphalt	5/1/2012	9/30/2012	0	0	3 issues addressed; Next meeting 1/29/12
# 7	Revise Specs on 3rd Priority Issues	Asphalt	10/1/2012	10/31/2012	0	0	Resolved issues to be posted on 10/19/12; Remaining issues to be prioritized for next FY workplan or dropped
# 8	FAQ (Per 8/17/11 meeting)	Asphalt	10/31/2012	12/31/2012	0	0	Co-chairs request input from members

Log
2/14/11 - Revised purpose and need and task definitions, PJV
4/11/11 - A total of 27 Section 39 issues were brought to committee attention. 25 issues were prioritized and 2 were dropped.
4/11/11 - Issues were prioritized (1st - Immediate attention; 2 nd - Important issues; 3rd - Addressed eventually; Not addressed here)
4/11/11 - 1st priority has 14 issues (estimated 2 issues are resolved)
4/11/11 - 2nd priority has 6 issues
4/11/11 - 3rd priority has 5 issues
5/13/11 - Status Update, PJV
5/16/11 - 5 new issues added making a total of 19 1st priority issues
5/16/11 - Esitmated 11 isssues are resolved
5/16/11 - No comments received on Deliverable #8. Set dateline for comment for 5/20/11
8/17/11 - Evaluation of available HMA-Pay test data (Original item 8) completed and removed from the record. Two items (Type C and FAQ) added. HZ
9/1/11 - Deliverable Update: 20 Priority 1 Issues; 8 Priority 2 Issues; 4 Priority 3 Issues; and FAQ. KF
9/21/11 - 2 Priority 1 issues remained unresolved; 1 issue (QA turnaround time) is elevated to Dispute Resolution; 1 issue (VMA) is reclassified as Priority 2 for further discussion. KF
9/29/11 - Finalized proposed changes to Section 39 specs and forwarded to OE. Proposed changes to be posted Oct 21, 2011 by OE.
11/18/11 - Request special publication to post proposed changes to Section 39.

Project **Moisture Sensitivity of HMA** **Task** Asphalt **Subtask** Moisture Sensitivity

Target Completion Date 6/30/2012 **Number** 5 **Status** Active **Progress** **90 %** **Rock Products Committee** YES

Purpose Identify an effective test to evaluate moisture sensitivity of HMA and the treatment alternatives for mositure sensitive HMA

Overall MSHMATG approved the work plan. CT 371 evaluation report, and tech memo recommending Hamburg Wheel Tracking Device and discussed draft implementation plan. Draft 39-050, 39-150 incorporating HWTD were discussed.

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Evaluate CT 371 & Alternate Test Methods	Asphalt	9/1/2007	9/2/2011	100	100	Finali 371 data report approved. Alternate tests found Hamburg results most consistent.
# 2	Recommend a test for determining MS mixes	Asphalt	10/1/2010	9/30/2011	100	100	Recommended using Hamburg Wheel Tracking Device. Tech memo finalized and approved.
# 3	Develop a plan to implement the recommended test	Asphalt	7/1/2011	6/30/2012	60	70	Draft SSPs 39-050 for HMA-A,-B and 39-150 for RHMA-G developed and reviewed.
# 4					0	0	
# 5					0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log Numerous meetings were held on this topic. Recent activities are focused on evaluating alternative tests to examine HMA's resistance to moisture damage.
On hold till Management decide what to do?
7/2/2010 - work plan developed to evaluate CT 371 & alternative tests.
12/2010 - work plan (based on the existing scoping document) was developed. It needs CT/Industry review.
12/2010 - alternative tests are near completion. Next step is to review the test results and develop report.
1/13/2011 - received partial CT 371 data from UCPRC on QC/QA projects
2/17/2011 - Small Group met to discuss test results from the alternative tests effort.
2/28/2011 - MSHMATG meeting reviewed work done so far and suggested worplan be updated to reflect future work.
4/1/2011 - Updated work plan is being reviewed internally. Small group industry co-chair reviewed initial draft work plan and provided comments.
4/11/2011 - Updated work plan sent to "small group" for review. Updated database to reflect work plan items.
5/12/11 - Small group reviewed work plan, CT 371 data, and tech memo outline.
5/13/11 - Status Update, PJV
6/8/11 - MSHMATG discussed revised work plan, CT371 data, tech memo that recommends Hamburg for moisture sensitivity, HZ.
8/24/11 - MSHMATG Small Group finalized the work plan, the CT 371 Data Review Report, and the Tech Memo. Reviewed draft implementation plan. HZ
9/22/11 - MSHMATG approved final work plan, report of CT 371 test data from the 2007 pilot study, and the tech memo on recommending hamburg Wheel tracking device for evaluation of moisture sensitivity of HMA. Dissuccsed the draft implementation plan. Recommended details to be developed in concert with other subtask groups, i.e., gyratory, Superpave, WMA. HZ
11/9/11 - MSHMATG reviewed revised implementation plan and draft SSP 39-050_E_D11-04-11 that includes the use of Hamburg Wheel Tracking Device to address moisture sensitivity of HMA. TG commented on the draft SSP 39-050_E_D11-04-11. HZ
12/13/11 - MSHMATG reviewed revised SSP 39-050 and 39-150 and provided additional comments. HZ
12/23/11 - CT discussed comments from the 12/13 TG meeting. A table describing each comment and consensus/decision reached on each comment was sent to industry co-chairs along with clean copies of the latest draft SSPs 39-050_E_D12-22-11 and 39-150_E_D12-22-11. HZ

Project **RHMA Usage** **Task** Asphalt **Subtask** Specifications

Target Completion Date 6/30/2012 **Number** 6 **Status** Active **Progress** **65 %** **Rock Products Committee** YES

Purpose Evaluate Rubberized HMA (RHMA) performance and improve specifications, mix design requirements, and construction as appropriate.

Overall Work plan approved. CT 368 Part 1 completed; Part 2 is in progress. Draft work plan for using Type I (with specs) developed. MPQP for ARB posted on 10/3/11. District RHMA performance survey results summarized and presented to Subtask Group.

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	CT 368 revision (part 1) - address AR4000 to PG and low multipliers	Asphalt	6/30/2009	6/30/2011	100	100	Completed. CTM posted
# 2	CT 368 revision (part 2) - overhaul test method	UCPRC	6/30/2010	6/30/2012	45	85	UCPRC completed phase 1 - selection of gradation and phase II - selection of OBC. Phase III - varification of ph I and II is complete. Working on report.
# 3	RHMA mix design & performance evaluation	Asphalt	6/30/2010	6/30/2012	60	85	Received survey results from 7 districts. Preparing a summary report which was sent to the RHMATG.
# 4	Use/Evaluation of Type I vs.Type II	Asphalt	7/1/2011	6/30/2012	50	70	Work plan developed with draft Type I specs. On hold to evaluate perfromance data from district survey
# 5	MPQP for asphalt rubber binder	HQ Constr	6/30/2010	9/30/2011	100	100	Posted on 10/3/11. Reviewed final resolutions to industry's comments (10/26/11) at 11/18/11 RHMATG mtg
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 2/9/2010 - RHMATG meeting resolved 3-day turnaround mix design issue and design profile issue. RHMATG agreed to change 3-day to 5 work days and to keep the design profile in Section 39.
7/9/2010 - A new scoping document was developed.
10/27/2010 - RHMATG meeting. The revised scoping document was reviewed and asked for comments. Discussed RHMA performance issues. Industry voiced its disagreement on the 5-day mix design verification and on keeping the design profile in Section 39. Discussed VMA requirements, CRM gradation, conversion of LP-10, -11 to possible CTMs.
12/16/2010 - RHMATG meeting. Revised CT 368 with new multipliers published on CT website. Continued discussion on the 5-day mix verification and design profile. No solution reached.
New CT 368 will likely be revised by UCPRC.
12/2010 - Draft work plan (based on the existing scoping document) was developed and it needs CT/Industry review.
2/9/2011 - Draft work plan sent to industry co-chair for review.
3/29/2011 - RHMATG reviewed MPQP related to RHMA. CT to revise MPQP. Industry to complete notes/resolution table.
4/12/2011 - Solicit feedback within Caltrans (DMEs and DMEs).
4/14/2011 - Co-chairs met to update scope and develop revised work plan.
4/27/2011 - Revised work plan developed and being reviewed.
5/13/11 - Status Update, PJV.
6/7/11 - RHMATG discussed updated work plan, MPQP issues, CT368 work, district survey questions, and AR Type I spec. HZ.
7/26/11 - Caltrans/industry met to continue work on MPQP ARB. HZ
8/22/11 - Met with industry co-chairs to review the MPQP 8/2 revision. industry agreed CT's plan to post the doc on 9/30/11. HZ
9/15/11 - Met with industry to review the MPQP 8/22 revision. Final doc is expected by 9/29 in time for the 9/30 posting. HZ
9/29/11 - Industry provided comments & cost info. CT created a new resolution table for final responses. CT will address comments and finalize the document for posting. HZ
10/4/11 - MPQP for ARB posted on 10/3/11. HZ
10/18/11 - RHMATG approved the minutes from the 6/7 meeting and the work plan. Discussed low binder content concern and ways to address. Further discussion planned for next meeting on binder content, VMA, gradation, etc. HZ
10/26/11 - Industry provided revised comments & cost info per Caltrans suggestions. Caltrans will provide final resolutions before the next RHMATG meeting scheduled for 11/17. HZ
11/10/11 - Caltrans provided responses and final resolutions to industry's comments. HZ
11/17/11 - RHMATG reviewed final resolutions to MPQP for ARB, discussed low binder concern, industry proposed changes to AR apecifications, and draft SSP 39-150_E_D11_14_11. HZ
12/12/11 - Industry requested to postpone the meeting scheduled for Dec. 15, 2011 to after the first of year 2012. HZ
12/30/11 - Industry requested to postpone the meeting scheduled for Jan. 6, 2012. HZ

Project **Section 39 Smoothness (Long Term)** **Task** Asphalt **Subtask** Smoothness

Target Completion Date 3/1/2013 **Number** 8 **Status** Active **Progress** **40 %** **Rock Products Committee** YES

Purpose Develop revised specs for pavement smoothness using the inertial profiler.

Overall Gathering certification and calibration procedures from other States. Incoporated NSSP for evaluation on five projects scheduled for 2012 construction season.

Project Lead Peter Vacura **Office** Asphalt Pavement **Phone** 274-6194 **E-FIS Project Number** **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	6/30/2012	30	80	Reviewing other state agency programs and identifying possible testing location
# 3	Evaluate NSSP & Acceptance Criteria	Asphalt	7/5/2011	10/1/2012	10	55	
# 4	Develop SSP & Acceptance Criteria	Asphalt	7/2/2012	12/3/2012	0	0	
# 5	Construction Policy Bulletin	Constr	10/1/2012	12/30/2012	0	0	
# 6	Roll-out Spec. & Software Training	Asphalt	11/1/2012	3/1/2013	0	0	
# 7	Select Projects to Pilot NSSP	Asphalt	2/15/2011	10/1/2012	100	100	Long life projects (02-3E7504, 02-3E8104), 04-1A6824 and 04-4A07U4 have the inertial profiler nSSP incorporated. 04-0C7404 & 10-0M8004 are in the process of using nSSP.
# 8					0	0	

Log 5/13/11, Updated Status, PJV
Projects in D8, Rte 10, D3, Rte 5, District 4, Rte 680.
02-3E7504, 02-3E8104, 04-4A07U4, 04-1A6824 and 04-4A07U4 have the inertial profiler nSSP incorporated.
04-0C7404 & 10-0M8004 are in the process of using nSSP.

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

Target Completion Date 6/30/2013 **Number** 9 **Status** Active **Progress** **50 %** **Rock Products Committee** YES

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

Overall Laboratory evaluation was performed on 3 OGFC mixes. HVS testing and evaluting is underway at UC Davis.

Project Lead Rupinder Dosanjh **Office** Asphalt Pavement **Phone** 274-6078 **E-FIS Project Number** **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	6/30/2012	55	70	HVS only at this time. Construction for OGFC sections was completed on 10/28/11
# 3	Develop NSSP for quieter OGFC mixes	Asphalt	1/2/2012	2/29/2012	20	110	
# 4	Update & adopt specification for OGFC mixes	Asphalt	4/2/2012	6/30/2013	0	0	
# 5	Complete 5th yr flexible QP research & report	UCPRC	7/1/2011	4/2/2012	85	90	Report being finalized for comment distribution
# 6	Review 4th yr flexible pavement evaluation & report	Asphalt	10/10/2011	12/31/2011	100	100	Review is complete and UCPRC has been notified….UCPRC to have finalize report by end of Jan 2012
# 7	Field evaluation on quieter OGFC mixes	Asphalt	4/2/2012	12/31/2012	0	0	
# 8					0	0	

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

Project **Longer Life Flexible Pavements** **Task** Asphalt **Subtask** Section 39

Target Completion Date 6/30/2013 **Number** 11 **Status** Active **Progress** **55 %** **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 Selected and designed 4 (Red Bluff, Weed, Solano, and Willits) long life flexible pavement projects in northern California.

Project Lead Imad Basheer **Office** Asphalt **Phone** 274-6155 **E-FIS Project Number** **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	55	UCPRC to conducted IRI & FWD in 2011.
# 3 Develop NSSP for N. Cal Project	Asphalt	2/1/2011	6/30/2011	100	100	Completed NSSP for Red Bluff & Weed.
# 4 Evaluation and Monitoring of Weed and Red Bluff	Asphalt	7/2/2012	6/28/2013	0	0	Projects advertise 9/19/11
# 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

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

Target Completion Date 6/28/2013 **Number** 5 **Status** Active **Progress** **50 %** **Rock Products Committee** YES

Purpose Implement QA specifications for materials management of structural concrete.

Overall STG has suspended work based on inability to reach consensus on QA Portion. Refinement of project team member roles TBD. FHWA/DOT practices/QC outline report final. QC portion of Spec also finalized as of 13Jan2012. METS working on ACI training for staff.

Project Lead Rob Reis **Office** Structural Materials **Phone** (916) 227-7287 **E-FIS Project Number** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Establish teams and review existing practices (FHWA, DOTs)	OSC	12/1/2010	5/31/2011	100	100	Teams are established. Draft review of existing FHWA and other State DOT have been circulated.
# 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	Ruth Fernandes is working on draft spec. They requested more time to resolve questions and finalize specs.
# 4	Review of draft QC specification and create draft QA specifications	Materials	1/16/2012	3/31/2012	50	75	
# 5	ACI Training and IA updates	Materials	1/1/2012	4/1/2012	10	80	
# 6	Workshops and roll out 10+ pilot projects (structural concrete/non-pavement) and additional 10 pavement projects to be added later on		4/2/2012	7/1/2012	0	0	
# 7	Feedback and update other pilot concrete projects		7/2/2012	2/28/2013	0	0	
# 8	Establish full implementation on all projects		3/1/2013	6/28/2013	0	0	

Log 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 Structures Specfication/Precast QCQA Provisions** **Task** Concrete **Subtask** Precast Concrete

Target Completion Date 1/1/2013 **Number** 6 **Status** Active **Progress** **55 %** **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 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

Project Lead Keith Hoffman **Office** Structural Materials **Phone** 707-649-5468 **E-FIS Project Number** **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	90	80	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	Materials	6/1/2012	8/1/2012	10	0	
# 4	Finalize draft specification	Materials	8/1/2012	11/1/2012	0	0	
# 5	Implement Specification		11/1/2012	1/1/2013	0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 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.

8/18/11

This issue was discussed in CT only STG meeting and SOE expressed concerns regarding consensus on the issue and their desire to work on it.

7/29/11

Scoping document was approved by TG on 7/14/11 meeting.
Over the past few months, several meetings were held at Sub Task Group level and Project Lead level to receive concurrence as well as input from members of the Sub Task Group.
Currently the project team remains focused on composing a draft program and draft language, reviewing our existing practices, and gauging the affect this change will have on future projects.
Project team meetings will be held as necessary in the coming weeks.

7/5/11

Scoping document was approved by the STG on 6/17/11. Work plan will be revised based on comments from the TG.

5/24/11
This issue has been officially combined with the Precast QC/QA Provisions activity. Industry has given their buy-in, and the group remains committed to carrying out the scheduled workplan

5/5/11
This issue will be combined with Precast Structures Specification. The objective will be to separate Precast provisions from the other concrete material provisions in Section 90.

Updates from March 17 Meetings:
A discussion occurred regarding the IAP and how it relates to Precast. All agreed that will be an important item to be discussed in the QC/QA Activity in the Materials & QA STG.

Updates from Feb 17 Meetings:
• A final detailed work plan has been completed for this Activity, and the project team has begun conducting meetings to complete all of the objectives listed.
• Currently the team is reviewing Existing practices, to include reviewing OSMPP, Tier Priority Lists, and historical performance of each Concrete material item.
• A Detailed Outline of the QC/QA Protocols will be the next portion that will be hashed

Project **Section 90 Provisions for Concrete of 4000 psi or Greater** **Task** Concrete **Subtask** Concrete Materials/QA

Target Completion Date 6/1/2012 **Number** 8 **Status** Active **Progress** **30 %** **Rock Products Committee** YES

Purpose Section 90 caps cement. Industry concerned about caps effect on projects.

Overall Project currently tabled until April 2012 while Industry gathers additional information related to applicable Structural Concrete-related issues. This delay was proposed as a result of the "MC for Pavement" activity resolution.

Project Lead Rob Reis **Office** Structural Materials **Phone** 916 227-7287 **E-FIS Project Number** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Update Scoping Document	Industry	5/1/2011	4/30/2012	90	85	A new project team was formed and the project will be rescoped based on examples received and project team input.
# 2	Review and finalize updated Scoping Document and present it for TG approval	Materials	7/14/2011	4/30/2012	50	85	Industry provided additional input, more examples are requested to accurately define scoping document
# 3	Create project teams and finalize workplan	Industry	9/15/2011	4/30/2012	50	80	
# 4	Discuss potential solutions and recommend any revisions to specs	Materials	10/31/2011	5/31/2012	0	65	
# 5	Update final specs	Materials	5/31/2012	6/1/2012	0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 2/23/12
Project still tabled until April 2012 while Industry gathers additional information related to applicable Structural Concrete-related issues.

1/23/12
Activity still tabled until April 2012. Industry indicated it may be desirable to update the Scoping Document to incorporate goals for clarifying ASR-related concerns and "Green Concrete"-related concerns.

1/17/12
Project currently tabled until April 2012

12/23/11
This activity still tabled for a period of about 6 months, and will continue once applicable structural concrete examples/issues are received.

11/22/11
TG still in agreement that it would be desireable to stand by on this activity for a period of about 6 months and continue movement once applicable structural concrete examples/issues are received.

10/20/11
Based on the completion of the "MC for Pavement" activity in October 2011, the TG agreed that it would be desirable to refine the Scoping Document/work plan off of any structural concrete issues that are presented to the TG over the next 6 months. Deliverables would be postponed until then.

Update from 8/18/11
One proposal discussed at CT only meeting, several comments were received from various people. It was decided to handle section 40 items first separtely and then eventually deal with section 90 issues by holding necessary project team meetings.

Updates from 5/24/2011:
Industry is being asked to help provide examples of mix designs where the cap on cement is creating problems in producing workable and economical moderate strength concrete

5/3/11
Currently producing minor revisions to scoping document. Discussed with Tom Tietz on 5/3/11. Ready Mix survey was completed to get feedback from concrete producers regarding specific mix design issues. Revised scoping document and survey

will
be circulated to Subtask Group members the week of May 9, 2011 so that options can be discussed at CT only Subtask Group 5/19/11 meeting.

Updates from March 17th Meeting:

Tom Tietz produced and proposed an updated scoping document for this activity. He would ultimately like for additional cost-benefit analysis to be done to add greater emphasis for the factors listed in the updated scoping document.

David and Mark next discussed the issues with Equation 2 that they have seen in southern California. They have encountered problems making strength with concrete designed in the 4000-6000 psi range without having large cost and not limiting the workability of the materials. Mark emphasized that the strength is especially difficult to achieve in freeze/thaw areas where 5-6% air content is needed.

Rob suggested that the next step for this activity would be to evaluate the items presented and create a timeline for when each of these points will be evaluated. John would help gather together the cost-benefit analysis and any history of issues that the new Section 90 has presented.

Group agreed that possible resolutions to this issue could be allowing additional cement content for concrete designated for 6000 psi and above, or changing Equation 1 to the "TC" value instead of "MC" value.

Updates from Feb 17th Meeting:

• Industry is taking the lead on this issue, and will provide updates to their CT-counterparts as soon as deliverables are finalized in the upcoming subtask group meeting

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

Target Completion Date 7/1/2012 **Number** 9 **Status** Active **Progress** **35 %** **Rock Products Committee** YES

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

Overall 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

Project Lead Rob Reis **Office** Structural Materials **Phone** 916-227-7287 **E-FIS Project Number** **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	90	95	Completed. Schema was developed from test methods.
# 4	Establish pilot database	Materials	1/13/2012	3/30/2012	15	80	Schema is currently being tabulated; movement continues in conjunction with QCQA activity
# 5	Receive feedback from all users	Materials	3/30/2012	6/30/2012	0	0	
# 6	Consider additional phases/use of data	Materials	6/1/2012	7/1/2012	0	0	
# 7					0	0	
# 8					0	0	

Log 2/23/12
Mtgs taking place at project team level throughout Feb 12 to continue work on CT schema. Surveys distributed to DMEs to capture practices and introduce idea. Team is currently tabulating schema/developing code based on ASTMs and CTMs in spec

1/17/12
Mtg took place at project team level on 1/13/12 to begin work on CT schema. Schema data/results extracted ASTMs. Team is currently tabulating schema/developing code.

1/3/12
A project team meeting is scheduled for 1/13/12 to begin developing schema based on CT's.

12/23/11
This activity continues to operate in conjunction with the QCQA activity. The project team is still refining the format capture protocol for data and for results of applicable test standards. Format refinement will continue in the near term.

11/22/11
Full list of aggregate tests is currently in development. The plan is still in place to run this activity in concurrence with the schema developed for the QCQA activity.

10/20/11
The project team has been established. A list of aggregate tests has also been developed. Pilot programs will be presented to Districts 2,3,5,7,8 and HQ. This activity will also run in currence with the schema developed for the QCQA Activity; team continues to work hand-in-hand with said activity.

Update 7/1/11:
Schema data/results were extracted from applicable test methods. Work continues on tabulating schema and developing code.

Updated for 5/24/2011:
Scoping document has been updated to reflect input/comments from industry. Schema efforts from QCQA issue will be of assistance in completing work efforts on this issue.

Update 5/3/11
Additional follow-up was made with industry. Confirmed that industry would like the Department to maintain an internal database where aggregate source data can be shared among Districts. Discussions were initiated with Loren Turner regarding platforms for collecting data. Survey was drafted to be sent to DMEs to collect the business practices of district labs.

Updates from March 17 Meetings:
Rob emphasized that the purpose of the activity was to create a single database that is able to communicate test results between the district labs.
Keith gave a background description of STATS program and the importance of keeping a single database system between districts.
Bruce and Keith, indicated that having something similar to the PQPL would be beneficial, as opposed to producing and publishing test results.
Keith suggested that we also want to be able to publish items into a format that district labs will be comfortable with and will have easy access to.

Updates from Feb 17 Meetings:
• A final detailed work plan has been completed for this Activity, and the project team has begun conducting meetings to complete all of the objectives listed.
• Currently the team is reviewing the Legal Aspects and also the applicable ASTM and CTM standards that will be used to manage the database
• The team is also developing the Platform that the Database will use, incorporating this new database into pre-existing databases already in use

Project **Precast Concrete Pavement** **Task** Concrete **Subtask** Precast Concrete

Target Completion Date 11/30/2012 **Number** 11 **Status** Active **Progress** **45 %** **Rock Products Committee** YES

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

Overall Specs and Plans for Precast Prestressed (PPCP) and Precast Panel (PCP) discussed at project team meeting on 2/7/12. Further comments received after the meeting. Next project team mtg scheduled for April. Draft proprietary legal memo circulated to team.

Project Lead Mehdi Parvini **Office** Concrete Pavement **Phone** 916-227-5848 **E-FIS Project Number** **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	
# 2	PPCP Details	Conc Pvmt	7/1/2010	4/2/2012	95	95	Final review expected by 1/31/12.
# 3	Establish Design Criteria	Conc Pvmt	7/1/2010	6/3/2012	10	90	Report for I-5/14 and 680 to be completed by district.
# 4	Prestressed Design Guide	Conc Pvmt	1/1/2012	6/30/2012	5	40	Contacts have been made with Transtec (through FHWA), waiting for White Paper. A task order is under development (to be finished by end of Feb) to have the consultant prepare the design guide.
# 5	Develop generic slab replace specification	Conc Pvmt	12/1/2011	6/30/2012	80	50	Team review deadline was 1/31/12. No comments received.
# 6	Develop generic slab replace Details	Conc Pvmt	12/1/2012	8/30/2012	80	0	Team review deadline was 1/31/12. No comments received.
# 7	Performance Evaluation Guidelines (for Proprietary Systems)	Conc Pvmt	3/30/2012	10/30/2012	0	0	
# 8	Update prestressed SSP & plans (after I-710 first construction season)	Conc Pvmt	3/30/2012	11/30/2012	30	0	Proposed changes by D4 was implemented in PPCP nSSP.

Log 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

Project **Coefficient of Thermal Expansion (CoTE)** **Task** Concrete **Subtask** CIP Concrete Pavement

Target Completion Date 6/30/2013 **Number** 13 **Status** Active **Progress** 25 % **Rock Products Committee** YES

Purpose To include CoTE as a design and construction criteria for concrete pavements.

Overall Handle requests for information from the districts. Requests involve identifying labs capable of performing the tests, providing a template to record data and samples of completed tests. Translab concrete section has tested 11-167894 job.

Project Lead Ray Lott **Office** Concrete Pavement **Phone** 916-227-5853 **E-FIS Project Number** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Modify spec to reduce test frequency	Conc Pvmt	1/1/2011	6/9/2011	100	100	completed.
# 2	Gather Data (freq. & action for non-compliance)	Conc Pvmt	1/1/2011	12/30/2012	15	60	Resident Engineers contacted to collect test data. Data being received from several jobs. Match SMARA numbers to test results.
# 3	Evaluate data for variance & acceptance	Conc Pvmt	9/30/2011	6/30/2013	0	30	Date changed to provide time to collect data from next year's construction season.
# 4					0	0	
# 5					0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 3/26/12 - Handle requests for information from the districts. Data received from D11 (11-167894).
2/23/12 - Data received from D4 (04-4470U4) and D12 (12-071624) paving jobs and entered into the CoTE database.
1/23/12 - Data received from D6 (06-460604) paving job and entered into the CoTE database.
1/10/12 - status update-MP
12/15/11 - No new activity in this period. Two test data from D3 is reported. Received another 4 test results from D12 405/22 connector (12-071624).
6/22/11 - The proposed spec change was agreed to in the 6/9/11 meeting.
5/27/11 - The proposed spec change was discussed in 5/12/11 meeting. Caltrans comments were incorporated in the draft. The new draft was sent to Industry for review and discussion on 6/9/11 meeting.
5/13/11 - Meeting between Pavement, Construction, and METS was held on 5/6/11. A new draft proposed language was discussed in 5/12/11 meeting. Another draft has been prepared to be discussed in 6/9/11 meeting.
5/12/11 - New spec language was proposed at the 5/12/11 meeting.
5/9/11 - Rosme, Mehdi, and Austin are in discussion regarding the proposed spec language on test frequencies and the acceptance criteria.
3/30/2011 - Long Term - A list of projects (JPCP and CRCP) that have CoTE in their spec has been compiled. The RE's have been contacted to providing guidance and resolve the potential issues. The CoTE website is designed and ready for data submittal. No data has been submitted (most of the projects are not in construction yet).

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

Target Completion Date 10/15/2012 **Number** 16 **Status** Active **Progress** **50 %** **Rock Products Committee** YES

Purpose Prepare specification for use of rapid strength concrete (RSC) for new construction of jointed plain concrete pavement (JPCP)

Overall 1/9/2012 Received additional comment from construction for JPCPRSC and RUB. 1/30/2012 Begin Tabulate Comment and Repsonse. Current estimated delivery date 3/15/2012

Project Lead Cornelis Hakim **Office** Concrete Pavement **Phone** 227-5854 **E-FIS Project Number** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Prepare draft spec	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
# 3	Circulate draft spec (Subtask group, districts)	Conc Pvmt	7/25/2011	12/15/2011	100	100	Completed
# 4	Address comments	Conc Pvmt	3/9/2011	5/15/2012	20	90	Comment Received from industry and construction and being incoporated into the spec.
# 5	General review (District, Industry, other HQ)	Conc Pvmt	5/15/2012	6/1/2012	0	0	
# 6	STG finalize spec	Conc Pvmt	6/5/2012	8/15/2012	0	0	
# 7	Obtain Mandatory Concurrence	Conc Pvmt	8/9/2012	9/20/2012	0	0	
# 8	Submit and Publish Spec	OE	9/21/2012	10/15/2012	0	0	

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.

Project **Fully Pervious Concrete Pavement** **Task** Concrete **Subtask** CIP Concrete Pavement

Target Completion Date 3/30/2012 **Number** 17 **Status** Active **Progress** **70 %** **Rock Products Committee** YES

Purpose Develop specifications for a fully pervious conc pavement for low-risk applications (e.g., parking lots, bike paths).

Overall Draft special provisions delegated to Design for trial implementation.

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1					0	0	
# 2	Draft Specification for Concrete	Conc Pvmt	6/15/2011	11/30/2011	100	100	Draft specification in 2010 format is drafted.
# 3	Draft Specification for Base	Conc Pvmt	8/3/2011	12/31/2011	100	100	Draft specification for base in 2010 format is complete.
# 4	Draft Specifications for interlocking pavers	Conc Pvmt	6/15/2011	11/30/2011	100	100	Draft specification in 2010 format has been drafted.
# 5	Circulate to task group and resolve comments	Conc Pvmt	1/19/2012	3/30/2012	100	100	Circulated draft nSSP to subtask group. Comments Due 2/2/12.
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 12/15/2011 - At final work group meetting discussed leaving foundation specification out of this interation because the drafting of the specification is intimately tied to the design guide requirements. Design guide is under the perview of Design.
11/28/11 - Added circulate activity to project deliverables.
8/5/11 - Updated status of project deliverables.
7/11/11 - deleted usage guide for list of deliverables.
7/1/11 - Held task group meeting to establish shedule revision. Dates updated in database.
5/3/11- Assumes usage guide will be developed by UCPRC through Environmental contract. If not, need 1 more year and 0.5 PY for Pavement to complete. There is a change of scope to prepare the draft seac (nSSP) and give it to Design to demo the project.

Project **Bond Breaker** **Task** Concrete **Subtask** CIP Concrete Pavement

Target Completion Date 6/30/2013 **Number** 18 **Status** Active **Progress** **45 %** **Rock Products Committee** YES

Purpose Investigate different alternatives available to not bond concrete pavement and LCB.

Overall Draft nSSP circulated to subTask group on 1/19/12, comments due on 2/2/12.

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Develop Test Section Alternatives	Conc Pvmt	3/1/2011	6/30/2012	100	100	Constructed test section on Hwy 180 in Fresno. Looking for other project locations. One location found on Rte 15 in San Bernardino.
# 2	Draft Bond Breaker Spec	Conc Pvmt	5/1/2011	9/30/2011	100	100	Short term update to create bond breaker spec using already approved items. Specificationcirculated to subtask group on 1/19/12, comments due on 2/2/12
# 3	Finalize Bond Breaker Spec	Conc Pvmt	7/1/2011	4/15/2012	10	90	Comments received from subtask group members.
# 4	Evaluate Test Section	Conc Pvmt	7/1/2011	12/30/2012	18	45	Data collected at first test section construction. A second project fortest section has been identified.
# 5	Update Specifications with new products	Conc Pvmt	7/1/2012	6/30/2013	0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 11/28/11 - Working with a project manager in district 8 to construct a test seciton on Rte 15.
6/20/11 - Several trial bond breakers were tested in trial slab placement by measuring the force to push panels horizontaly. Four of the experimental bond breakers were selected for full scale construction by change order on a project in District 6. Project funding limits the ability ot construct all the sections so only three of them will be built. Test section construction is scheduled to start the week of July 4, 2011.
5/27/11-status update
5/13/11-A workplan for long-term evaluation of bond breaker options has been submitted on 5/4/11 for internal office review. Initiating development of short term spec update for already approved products.
5/9/11- Delayed schedule due to lower priority relative to the Bin List items for Plain Language.

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

Target Completion Date 3/1/2013 **Number** 19 **Status** Active **Progress** 55 % **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 Acceptance criteria needs to be amended in specs. Need input from industry on outstanding issues. Truckee Ag Station, RT Watt parking, & Edwards Airforce base potential cert sites. 4 conc projects in construction with the nSSP. ProVal training on 03/20.

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	nSSP for inertial profiler use on conc pvmnt	Conc Pvmt	8/2/2010	5/31/2011	100	100	Updated draft nSSP 12/20/11. Construction and Industry have not provided input.
# 2	nSSP for inertial profiler use on conc grinding	Conc Pvmt	4/1/2011	5/31/2011	100	100	Developed edits within existing nSSP.
# 3	Pilot nSSP on 2011 construction projects	Conc Pvmt	5/2/2011	11/2/2012	100	100	There are several pilot projects (see end of log for list and status).
# 4	Develop smoothness acceptance values	Conc Pvmt	5/2/2011	12/3/2012	100	100	Acceptance value of 25 for PI and 60 for IRI
# 5	Equip & operator certification procedure	Conc Pvmt	8/1/2011	6/1/2012	35	75	Truckee Ag Station & Edwards Airforce Base possible cert site. Details are being investigated.
# 6	Draft SSP for IRI smoothness acceptance	Conc Pvmt	11/1/2011	12/3/2012	5	35	Get ready for 2012 const season. Exclusions to be updated.
# 7	Develop guidance/CPD/training (incl ProVal)	Asphalt	1/2/2012	3/1/2013	5	15	Need for nSSP & SSP. Proval training scheduled for 03/20
# 8	Ongoing monitoring and evaluation	Conc Pvmt	4/2/2012	3/1/2013	0	0	Not begun

Log 01/30/12 - Internal meeting with Pavements, Construction, and UPPRC on spec and implementation issues. IRI acceptance of 60. Comments due 02/15. Proval training on 03/20. Industry and RE's have been invited. AYF
01/09/12-Hand off meeting from Robert Hogan to Amy Fong. AYF
11/30-joint meeting to discuss spec and implementation issues. Conc industry did not attend. HMA comments due 12/16.
10/25-met with sac co. at Franklin Airport. AC taxiway may be good logistically but PCC would cost $$$ to const. McClellan: no.
10/17-met w/ industry on profilograph threshold. Industry gathering list of implemetation issues to help with smoother pavement.
10-13-11- verified 4 projects using nSSP (see below).
Updated nSSP to allow substitution of inertial profiler for profilograph if contractor requests. Reviewing construction comments.
Researching potential pilot projects. Not contacting districts until decision reached on profilograph threshold.
7/7/11- status update-MP
6/22/11-Did not receive any comments by 5/20/11 deadline. Discussed in 6/9/11 STG meeting. Industry provided verbal comments on certification and repeatability testing.
6/9/11- Comments by Caltrans were addressed. Another draft is sent to Industry for comments and discussion on 6/9/11 meeting.
5/31/11-Teleconference with Ohio DOT about history of their transition from PI to IRI and lessons learned.
5/27/11-status update. Updated draft nSSP based on comments received.
5/13/11-A new draft nSSP to use inertial profilers in conjunction with profilograph was developed 4/27/11. The draft was discussed in 5/12/11 meeting. Comments were due 5/20/11.

4/11/11-HQ Pavement and Construction met. Updated draft nSSP to tighten references to AASHTO and TxDOT standards. Researched TTI certification and profiler equipment and operator availability.

3/1/11-First meeting with new joint AC/conc smoothness TG. Follow up webconf & subsequent conc industry teleconf 3/16/11. Next TG meeting not yet scheduled. Discuss smoothnes issue jointly for asphalt and concrete pavments. IRI reported for info only to analyze correlation, acceptance criteria, and begin learning curve/transition.

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.
*03-sac-80; PM0/10; 03-3797u4; widening/lane replacement/grind existing (nSSP incl by addendum); Awarded 07/29/2011/in construction.

*06-ker-99; PM28.4/43.9; 06-0L640; CRCP lane replace/grind existing (nssp incl by addendum); Awarded 01/18/2012.
*07-la-60; PM11.6/23.6; 07-28690; JPCP RSC lane replacement (nSSP incl); Awarded 12/22/2011.
*10-sta-99; PM0/24.8; 10-0m800; JPCP RSC lane replacement/grind existing/CSOL (nSSP incl); Waiting to be awarded.

10-sj-5; PM25.3/28.5, 10-0m780; JPCP RSC lane replace/grind existing (nSSP approved); have not RTL'd.
04-sol-80; PM30.6/38.7; 04-4a010; CSOL; Bill sent spec; have not been RTL'd.

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

Target Completion Date 7/1/2012 **Number** 20 **Status** Active **Progress** **50 %** **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 Subject matter experts creating workplans and drafts for section 4 subsections.

Project Lead Chuck Suszko **Office** HQ Construction **Phone** (916) 227-7314 **E-FIS Project Number** **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	7/1/2012	70	80	Discussed in subtask group meeting
# 2	Revise Chapter 4 Construction Details	HQ Constr	12/1/2010	7/1/2012	70	80	Discussed in subtask group meeting
# 3	Revise Chapter 6 sampling and testing	HQ Constr	12/1/2010	7/1/2012	5	80	Discussed in subtask group meeting
# 4					0	0	
# 5					0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 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.

Project **Recycled Concrete Materials specification development** **Task** Concrete **Subtask** Concrete Materials/QA

Target Completion Date 6/30/2013 **Number** 22 **Status** Active **Progress** **10 %** **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 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

Project Lead Rob Reis **Office** Structural Materials **Phone** 916-417-8371 **E-FIS Project Number** **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	80	110	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	0	40	
# 3	Develop plan for how CT will evaluate ways to foster use of materials as appropriate	Materials	4/2/2012	8/1/2012	0	0	
# 4	Develop a draft specification	Materials	8/1/2012	12/1/2012	0	0	
# 5	Submit to Industry and to CT for feedback, and refine	Materials	12/1/2012	2/1/2013	0	0	
# 6	Finalize specification based on comments where appropriate	Materials	2/1/2013	6/30/2013	0	0	
# 7					0	0	
# 8					0	0	

Log 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** Concrete **Subtask** CIP Concrete Pavement

Target Completion Date 7/31/2012 **Number** 23 **Status** Active **Progress** **45 %** **Rock Products Committee** YES

Purpose Prepare and improve CRCP std. plans.

Overall Scoping document forwarded to the OC. Additional information related to design rationale for using different number of pavement anchor placed in various project conditions.

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Guidance for end treatments and construction joint. Include design criteria rational for end treatments.	Conc Pvmt	11/1/2011	7/31/2012	80	50	Met with Industry and national experts on 4/8/2011. OC is currently reviewing the latest draft of the guide.
# 2	Develop standard plans and guides for CRCP layout at intersections.	Conc Pvmt	2/2/2012	7/31/2012	20	20	Layout drawing is currently being drafted and is 60% complete.
# 3	Revise Standard Plans for updates.	Conc Pvmt	2/1/2012	7/31/2012	5	25	Redline changes to standard plans for updates and changes has been initiated.
# 4	Review if exp jt is required at CRCP/approach slab terminal joint.	Conc Pvmt	2/25/2012	7/31/2012	10	10	Review of TxDOT practice. Part of discussion with Industry and national experts on 4/8/2011.
# 5	Guidance for achieving longitudinal reinforcement continuity at construction joint. Include when traffic must travel over.	Conc Pvmt	2/1/2012	7/31/2012	0	25	Discussion iniated.
# 6	Develop standard plans and guides for connection of various wide flange beam sizes.	Conc Pvmt	3/1/2012	7/31/2012	0	10	Has not started yet.
# 7	Evaluate alternative pavement design softaware to Hiperpave that can be used to predict early age cracking.	Conc Pvmt	2/25/2012	7/31/2012	0	10	Task initiated. Review of user manual and doing test run of the program is in progress.
# 8	Monitor work performed on CRCP projects for any improvements to specs, std plans and guidance.	Conc Pvmt	1/1/2012	7/31/2012	0	35	Currently in progress. These are issues arising in design Phase and in Construction phase. Issues identified will be icorporated in item #3.

Log

1/23 Update of construction joint, wide flange beam and pavement anchor terminals guidance is under review by OC. 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.

Project **Cement Treated Subbase (CTS)** **Task** Foundation **Subtask** Treated Soils and Bases

Target Completion Date 4/30/2012 **Number** 2 **Status** Active **Progress** **95 %** **Rock Products Committee** YES

Purpose Provide soil treatment as an alternative to bases.

Overall Subgrade Stabilization Guide review complete. Mandatory Stakeholder concurrence in process. Target for SSP Request 4-1-12.

Project Lead Paul Burdick **Office** Concrete Pavement and Foundations **Phone** 916 227 5441 **E-FIS Project Number** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Test Method review	Materials	6/1/2010	3/31/2011	100	100	Use ASTM 1633 for design, CT 216 for field verification.
# 2 Draft SSP to submit to FTG/Districts	Conc Pvmt	7/22/2009	9/23/2011	100	100	
# 3 Draft Soil Stabilization Guide	UCPRC	6/1/2010	1/31/2012	100	100	Internal review underway. Comments to UCPRC, target 1-13-12. UCPRC updates by 1/31/12.
# 4 Design Guide for CSS	Conc Pvmt	9/1/2011	2/20/2012	100	100	Decision made to discontinue development of a separate guide.
# 5 Review and Adopt Soil Stabilization Guide	Conc Pvmt	1/23/2012	3/30/2012	90	95	UCPRC submitted "final draft" 3-23-12.
# 6 Draft SSP FTG/Dist Review/Resolve comments	Conc Pvmt	9/23/2011	12/9/2011	100	100	
# 7 SSP published by OE	Conc Pvmt	4/1/2012	4/30/2012	0	0	Mandatory Stakeholder's request memo to Construction due by 4-1-12.
# 8				0	0	

Log 7/22/2009: Meeting held at TL. Draft specification based on Lime specification was produced.
12/10/2009: Meeting held at TL. Comments were reviewed and decided to finalize test method.
4/23/2010: Draft was send out for comments.
6/24/2010: Comments were addressed and a draft was send out for comments.
6/31/2010: UCPRC to provide draft (ver 2.0) guide for our review by the end of mid October.
9/28/2010: Meeting was held with Rock Product subcommittee including UCPRC and decided to use existing ASTM D 1633 with modification to use ASTM D1557 for fabrication of test specimen for mix design. Also, use ASTM D 1557 for compaction quality test during construction.
3/1/11: Awaiting UCPRC draft report.-pdb
3/11/11: At FDR-FA meeeting on 3-8-11, David Jones said report has been delivered from Cal Poly and Chico and he is editing. He will pass on to Paul when completed.-pdb
4/4/11: Updated dates.-pdb
4/26/11: Updated Overall Progress on Project Data tab.--pdb
5/4/11: Updated deliverables status per 4-27 meeting. Updated Overall Progress.--pdb
6/23/11: Updated Overall Progress and Deliverables Status.--pdb
8/26/11: Updated Overall Progress and Deliverables Status. Outstanding issuese: See below-- pdb
9/1/11: Issue resolution:
Q: Is it feasible to test for UCS for the end-product? A: Not at this time--too resource intensive. Intent is to parallel lime stabilization (i.e. compaction testing).
Q: Do Districts want responsibilty for mix design -- or do we treat like FDR-FA? A: Intent is to parallel lime stabilization (i.e., districts determine cement content).
Q: Handling payment for ordered increases in cement? A: Keep same as lime. Possible dispute resolution item.
Q: Do we use the term "subgrade" or "basement material"? A: Consensus not reached. CT co-chair believes "basement material" is appropriate because Standard Specs defines it. Others don't believe that carries much weight. Currently left as "basement material."
9/13/11: Meeting with D. Jones and Industry set for 10/26.
11/14/11: Soil stabilization guide draft target 11-23-11. Draft SSG will be more concise. Possibly eliminating need for separate CTS design guide. Staff meetings in early Nov. to resolve SSP comments. New draft SSP target 11-18-11.--pdb
12/12/11: Soil Stabilization Guide received from UCPRC 11-28-11. Distributed to Caltrans team members. Target date 12-23-11.
1/9/12: Soil Stabilization Guide comments to UCPRC target is 1-20-12. Mandatory Stakeholder request target is 1-11-12.--pdb
1/31/12: Comments for SSG submitted 1-27-12 (except RH). Incorporate Construction's comments re QC and Eng Accept.--pdb

Project **Full Depth Reclamation Using Foamed Asphalt** **Task** Foundation **Subtask** Treated Soils and Bases

Target Completion Date 4/30/2012 **Number** 3 **Status** Active **Progress** **95 %** **Rock Products Committee** YES

Purpose Develop design/construction Guidelines or Test Methods/Laboratory Procedures to facilitate implementation of FDR-FA in Caltrans projects.

Overall Mandatory Stakeholder concurrence from OE for SSP sent 3/19/12 due 3/26/12. Design Guide ready to circulate with Final Draft SSP. Test method in METS, target 4/1/12 according to Peterson.

Project Lead Paul Burdick **Office** Office of Pavement Engineering **Phone** 916 227 5441 **E-FIS Project Number** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Test Method	Materials	7/1/2008	4/1/2012	75	100	In Joe Peterson's possession.
# 2 Report and Guideline Recommendations	UCPRC	7/1/2008	3/30/2011	100	100	
# 3 Final Guidelines	Conc Pvmt	12/15/2010	2/28/2012	100	100	No comments received.
# 4 Draft SSP to STG concurrence	Conc Pvmt	3/8/2011	3/16/2012	100	100	No objections received to draft dated 3-5-12.
# 5 FTG/Dist Review	Conc Pvmt	4/1/2012	4/1/2012	0	0	This will be a "fyi" circulation -- no further comments accepted.
# 6 SSP published by OE	Conc Pvmt	4/1/2012	4/30/2012	0	0	
# 7				0	0	
# 8				0	0	

Log 6/2009: SSP is Completed

8/31/2010: Waiting for final UCPRC guide which is a part of $1.8 m contract that ended on 6/30/2008. Reviewing UCPRC mix-design and testing method for D-02, SR 299 project. Observed field samplings and onsite testings (FWD and DCP) conducted by UCPRC. UCPRC will inform when performing lab-tests on pulverised samples.

9/28/2010: Meeting with UCPRC pertaining to the comments on UCPRC-guidelines. Once UCPRC-guidelines is finalized, Caltrans version based on the UCPRC-guidelines will be developed.

12/30/2010: Received final Guideline document in word format from UCPRC. Development of document-structure for Caltrans version is started.-pdb

3/1/11: Subtaskgroup meeting held on 2-15-11. Drafts submitted for review/comments. Next meeting on 3-8-11.-pdb

3-11-11: Subtaskgroup meeting held on 3-8-11. Cancelled SSP for CFIPR reviewed for revisions. Next meeting on 4-13-11.-pdb

4/4/11: Updated lead info and Test Method target date.-pdb

4/11/11: Updates.-pdb

4/26/11: Updated Project Deliverable Status.-pdb

5/4/11: Updated Overall Progress and deliverable status.--pdb

5/24/11: Updated Overall Progress and deliverable status.--pdb

6/23/11: Updated Overall Progress and Deliverable status.--pdb

8/26/11: Updated Overall Progress and Deliverable status. Comments generated at 8-10 meeting include: Mention asphalt price index fluctuation in instructions; location of coring; purpose of test strip vis a vis equipment's speed; guideline for format and preparation of QC plan; minimum requirements for QC system; turn-around time for qc reporting requirements; specifying test strip is first construction activity; spreading equipment must have electronic grade control system; pulverize whole lane width in one pass; spec to maintain surface; keep sheepsfoot within 100 feet of pulverizer; vibrator off in final pass of steel drum roller; compaction can be average of elevations (E1, E2, etc.) with an allowable deviation; disallow ravelleing of aggregate; --pdb

9/20/11: STG meeting delayed to 9-28 to de-brief Mod-299 project.--pdb

10/12/11: Comments period ended 10/5. Over 100 comments received. QC Plan requirements needed. Pre-op conference. Adding water. Require districts to perform coring to determine existing thickness profile. Design surveys. Smoothness.

11/14/11: SSP comments reviewed and addressed on 10/17/11, new draft circulated 11/3/11. STG meeting 11/29/11. New J. Peterson comments received 11/2/11.--pdb

12/12/11: Draft updated and sent to STG on 12-12-11. Asked for "fatal flaws," otherwise ready to move ahead to district/FTG review. Construction requests QC/QA guidance along with Construction field guidance. Test method requires serious revisions. And Design guidance.--pdb

Project **Pulverization** **Task** Foundation **Subtask** Treated Soils and Bases

Target Completion Date 7/2/2012 **Number** 4 **Status** Active **Progress** **30 %** **Rock Products Committee** YES

Purpose Develop a standard special provision (SSP) for pulverized flexible pavement. Update existing guidance to include additives (cement and lime). Create test procedures.

Overall Piloting updated nSSP in 3 projects. (02-3E0404,02-SIS-161-4.5/7.0); (02-3E0504, 02-PLU,LAS 147-PM 9.1/9.9,0.0/0.5, 1.1/1.8); (01-463304, 01-HUM-96-0.62). Meetings with Construction week of 2-27-12.

Project Lead Paul Burdick **Office** Concrete Pavement **Phone** 916 227 5441 **E-FIS Project Number** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	RPC Scoping Doc	Conc Pvmt	1/5/2011	1/31/2011	100	100	No comments. Scoping doc updated.
# 2	NSSP/Pilot Projects	Conc Pvmt	1/5/2011	5/31/2012	50	85	Amarjit travelling to D-2 to meet with Construction personnel week of __?__ (delayed).
# 3	Pulverization Guide Update	Conc Pvmt	2/1/2011	7/2/2012	25	80	Preliminary draft done. Update on hold until FDR-FA is complete. May combine in future in lieu of individual guides.
# 4	SSP to FTG	Conc Pvmt	3/2/2012	7/2/2012	0	20	Continue developing and hold for pilots.
# 5	SSP published by OE	Conc Pvmt	4/2/2012	7/2/2012	0	0	Hold until pilots are evaluated.
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 8/31/2010: D2 nSSP is under consideration to develop as SSP.
12/30/2010: Handed all information to Robert Hogan. Workplan to be updated by Robert.
1/4/11: Workplan updated. Need industry co-chair identified.
2/15/11: Subtaskgroup meeting held. Drafts distributed for review/comment. Next meeting 3/8/11.-pdb
3/11/11: Pulverization was not discussed at subtaskgroup meeting on 3/8 in deference to FDR-FA. Next meeting 4/13/11.-pdb
3/14/11: Office meeting to discuss FDR. Cold foam SSP is priority and task group will not have resources to complete both FDR projects in parallel.-pdb
10/14/11: Deliverable target dates shortened by 3-4 months per management request.

Piloting updated nSSP in 3 projects. Status 10/13/11: (02-3E0404,02-SIS-161-4.5/7.0 55% complete); (02-3E0504, 02-PLU,LAS 147-PM 9.1/9.9,0.0/0.5, 1.1/1.8 95% complete); (01-463304,01-HUM-96-0.62 80% complete).

10/14/11: Deliverable target dates shortened by 3-4 months per management request.

Project **Concrete Base** **Task** Foundation **Subtask** Treated Soils and Bases

Target Completion Date 7/30/2012 **Number** 5 **Status** Active **Progress** **80 %** **Rock Products Committee** YES

Purpose Move concrete base from section 40 (Concrete Pavement) to section 28 and update. Concrete base is being used in locations of crack, seat, and overlay widening or base reconstruction and for replacing base under slabs when identical material is required.

Overall 2010 versions being developed target 4-6-12.

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

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Submit draft specification for STG review	Conc Pvmt	7/20/2011	9/1/2011	100	100	
# 2 Resolve STG Comments	Conc Pvmt	9/1/2011	11/16/2011	100	100	
# 3 Submit for general review	Conc Pvmt	11/16/2011	3/20/2012	100	100	
# 4 Resolve general review comments	Conc Pvmt	3/20/2012	4/6/2012	90	40	2010 versions target date 4-6-12.
# 5 Submit for TG concurrence	Conc Pvmt	4/6/2012	6/1/2012	0	0	
# 6 Finalize and publish	Conc Pvmt	7/1/2012	7/30/2012	0	0	
# 7				0	0	
# 8				0	0	

Log 4-26-11: Initial input. Limited info without scoping doc.-pdb

9/20/11: 6 Comments received. Significant comments include:

1. The amount of cementitious material seems excessive for a treated base.
2. Not clear when to use volumetric proportioning.
3. I have concerns that this emulsion will not provide adequate performance as a bond breaker.
4. Base is not evaluated by modulus of rupture; rather, by compressive strength.
5. These strengths seem excessive for a concrete base.
6. Define modulus of rupture test method.

--pdb

10/12/11: Reviewed comments with Doran and Deepak. Developed responses and documentation underway, then redraft spec.--pdb

11/14/11; Redrafted spec nearly complete. Target for circulate for "general" review (e.g. DME's, Dist Maint. Engineers) is 11-30 (depends on LCBRS).--pdb

12-13-11: Drafts nearly ready for circulation, target 12/16/11.--pdb

Project **Rapid Setting Lean Concrete Base** **Task** Foundation **Subtask** Treated Soils and Bases

Target Completion Date 7/30/2012 **Number** 6 **Status** Active **Progress** **80 %** **Rock Products Committee** YES

Purpose Provide specifications for use of rapid setting lean concrete base.

Overall 2010 versions being developed target 4-6-12.

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

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Submit draft specification for STG review	Conc Pvmt	7/20/2011	9/1/2011	100	100	
# 2 Resolve STG Comments	Conc Pvmt	9/1/2011	11/16/2011	100	100	
# 3 Submit for general review	Conc Pvmt	11/16/2011	3/20/2012	100	100	
# 4 Resolve general review comments	Conc Pvmt	3/20/2012	4/6/2012	90	40	2010 versions target date 4-6-12.
# 5 Submit to TG for concurrence	Conc Pvmt	4/6/2012	6/1/2012	0	0	
# 6 Finalize and Publish Spec	Conc Pvmt	7/1/2012	7/30/2012	0	0	
# 7				0	0	
# 8				0	0	

Log 4-26-11: Initial input. Limited info without scoping doc.-pdb
8/26/11: Updated Project Data and Project Deliverables.--pdb
9/1/11: 16 comments received. Significant comments received:
1. Is there any guidance document to be used with these specifications?
2. CT 540 is not practical because LCBRS hardens before specimens can be "rodded."
3. Performing testing every 130 CY of LCBRS is excessive.
4. 4,000 psi penetration resistence seems excessive for LCB
5. Compressive strength of 725 psi at opening age is too high. Based on published data, 500 psi will be adequate.
6. By referring to ASTM C 685, 28 paragraphs for volumetric proportioning can be deleted.

--pdb
10/12/11: Reviewed comments with Doran and Deepak. Developed responses and documentation underway, then redraft spec.--pdb
11/14/11: Comments resolved from circulation. New comments from recent project's bidder inquiry. Target "general" circulation is 11/30/11--pdb.
12-13-11: Drafts nearly ready for circulation, target 12/16/11.--pdb

Project **Geogrid** **Task** Foundation **Subtask** Geosynthetics

Target Completion Date 6/30/2012 **Number** 7 **Status** Active **Progress** **75 %** **Rock Products Committee** YES

Purpose Develop specifications, test methods, and guidance for the design and construction of geogrid reinforced AB. New specifications will facilitate to implement geogrid in the Caltrans projects.

Overall Construction and materials specifications are updated to incorporate reasonable comments. Test methods are reviewed for Caltrans use. Tentative design table with the percent reduction is developed and will be circulated for consensus.

Project Lead Deepak Maskey **Office** Concrete Pavement and Foundations **Phone** 916 227 5442 **E-FIS Project Number** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Specifications	Conc Pvmt	9/1/2011	6/30/2012	90	70	Issues on materials testing during construction is resolve. Edited specification for minor issues and will be circulated for the consensus.
# 2 Test Method	Mets	9/1/2011	6/30/2012	90	70	METS reviewed pertaining GRI test methods for Caltrans use and expected consensus from Sub Task Group members.
# 3 Guidelines	Conc Pvmt	9/1/2011	6/30/2012	50	70	First draft is produced by Industry. Review of revised design approach from R-value to thickness reduction in percent, is on progress.
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 7/20/2011: Start up meeting concluded with a decision to submit product specific pavement design guides and other pertaining documents by August 8, 2011

8/29/2011: Received manufacturer's design guideance. Review on progress.

9/19/2011: Received design approach from gogrid manufacturer. Waiting information on Gravelfactor concept for pavement design. Review of ME design concept from Manufacturer. Review of FHWA guidelines and recommendations on use of geogrid in pavement.

10/13/2011: Called meeting on 10/20/2011 for review of existing property, design criteria, and Caltrans application

11/15/2011:

-Consensus of meeting on 10/20/2011 was to get Caltrans Management decision on design and application of geogrid into the pavement section.

-On 10/28/2011, Caltrans Management made following decisions:

1. Design flexible pavement section without geogrid. Then reduce the thickness of unbound base when geogrid is used is reinforcement, depending on proven documented performance of the geogrid.
2. Thickness of rigid pavement structure will not be reduced for the application of geogrid.
3. Punched and drawn BX 1200 geogrid will be utilized as the model for geogrid in flexible pavement sections.
4. Pavement section will be monitored for long term performance and comparison with control sections.

-Proposed requirements of geogrid is send out to sub task group members for review.

11/29/2011: Performed subtask group meeting on 11/22/2011 and concluded followings:

-For use of other type of geogrid, procedural specification based on AASHTO 50 will be referred into the guide.

-Consensus on following geogrid property:

(1) Aperture size (2) Rib thickness (3) Junction thickness (4) Tensile strength @ 2% strain (5) Ultimate tensile strength (6) UV resistance @ 500 hours (7) Junction efficiency (8) Junction strength (9) Flexural stiffness (10) Torsional stiffness

-Develop draft specification based on model-geogrid equivalent to BX 1200.

-Utilize existing ASTM, AASHTO, US Corps of Engineer's, GRI or other approved test methods or standards.

-Develop draft document structure/contents for the development of guide.

-Industry to provide design details for the equivalent thickness reduction of unbound materials due to the application of geogrid based on subgrade and base materials R-values.

1/10/2012: Performed subtask group meeting on 1/5/2012 and following decision were made:

-The draft specifications were reviewed and the following decisions were made on the raised issues:

-Caltrans could not verify test methods for junction strength and tortional stiffness due to unavailability of test methods GRI: GG2 and GRI:GG9. Tensar International volunteered to provide both test methods to Caltrans.

-Model –Grogrid BX 1200 is fabricated by punched and drawn process. The issue on fabrication was raised and decided to include wordings"punched and drawn" into the specification.

-Geogrid aperture size:

-Suggested to define in machine and cross machine directions.

-Express size with the tolerance limits or in range as to be consistent with Caltrans standard.

-Rib thickness and junction thickness are required to express with tolerance limits or in ranges as to be consistent with Caltrans standard.

-Suggested to include geogrid installation damage testing into the specification. Caltrans put forward that such testing is not practiced for other geogrid use, however it is decided to review existing practices and include in specification if appropriate for Caltrans practice.

-Issue was raised on use of filter fabric with geogrid. Current Caltrans practice does not use filter fabric when aggregate base (AB) is placed directly over subgrade and it should be same for ABEG. It is decided to review existing information to determine use of geofabric.

-Informed Caltrans Construction's decision not to use quality testing of geogrid.

-The draft guide will be reviewed by Caltrans and will be edited for appropriate use for Caltrans. This edited guide will be provided to subtask group members for review.

-Tensar to provide pertaining information on development of Gravel Factor table "Table 1: ABEG Enhancement Gravel Factors"

-Tensar to provide design based on percent thickness reduction.

-METS reviewed Industry standard test methods for Caltrans use.

2/28/2012:

-Tentative design table is developed but requires consensus from Sub Task Group members.

-Next meeting is scheduled on 3/7/2012

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

Target Completion Date 9/1/2012 **Number** 3 **Status** Active **Progress** **45 %** **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 The Group has met four times (last, 1-13-2012) to address; Specification, Mix design, Smoothness, Project Selection, Addition of Cement, and Cores vs. Milling issues. A task order has been written for Recycling Center to investigate problem areas.

Project Lead Hamid Moussavi **Office** Asphalt Pavement **Phone** 916-274-6176 **E-FIS Project Number** **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	7/1/2012	75	65	
# 2	Develop standard special provisions	Engr	1/1/2012	9/1/2012	70	35	
# 3	Standardize test methods/ lab procedures	Mets	9/1/2011	9/1/2012	50	55	
# 4	Develop guidelines/ MTAG update	Chico	1/1/2012	7/1/2012	0	45	
# 5	Evaluate existing pilot projects in Southern region, Pavement Recycling Center at Cal Poly, Pomona (6 projects)	Cal Poly Po.	9/1/2011	9/1/2012	60	55	
# 6					0	0	
# 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

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

Target Completion Date 12/1/2013 **Number** 4 **Status** Active **Progress** **70 %** **Rock Products Committee** YES

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

Overall Reviewing test requirements to revise specification language.

Project Lead Douglas Mason **Office** Pavement Management **Phone** 916-274-6058 **E-FIS Project Number** **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	3/1/2012	94	100	Draft report on test sections from CP2C due 10/13/11, still waiting for Caltrans skid test results to finalize project.
# 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 (NSSP)	Asphalt	10/1/2011	1/31/2012	50	140	Awaiting report on test sections to finalize NSSP.
# 5 Identify, fund and construct pilot projects using NSSP	Asphalt	1/2/2012	10/1/2012	10	30	
# 6 Review Draft NSSP performance. Revise NSSP as necessary. Update and approve SSP.	Asphalt	12/1/2012	2/1/2013	0	0	
# 7 Training and Outreach including MTAG	Asphalt	3/1/2013	12/1/2013	0	0	
# 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

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

Target Completion Date 12/30/2013 **Number** 5 **Status** Active **Progress** **35 %** **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 District 6 slurry seal project has been completed, the District proceeded with entire project as rubberized slurry seal. Industry has received 1st draft of NSSP and at next meeting, will review and work on the comments.

Project Lead Douglas Mason **Office** Pavement Management **Phone** 916-227-6058 **E-FIS Project Number** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Create NSSP	Asphalt	6/1/2009	3/1/2012	60	100	Was completed but revising to include terminal blend slurry seals. Industry has submitted revised NSSP. Currently being covnerted to plain language format.
# 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	50	30	
# 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	0	20	Statement of work reviewed and approved for D6 location for CP2 evaluation.
# 6	SSP	Asphalt	1/1/2012	12/30/2012	0	20	
# 7	MTAG Guidelines	Chico	1/1/2012	12/30/2013	0	10	
# 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

11/23/13-Draft copy of plain language format of rubberized slurry seal sent out 11/08/11f to Task group members for review. Next scheduled meeting wie will go over comments received and finalize for use.DM

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

Target Completion Date 3/1/2012 **Number** 6 **Status** Active **Progress** **35 %** **Rock Products Committee** YES

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

Overall Sub Task Group to evaluate and update work plan. Previous project locations have been uploaded to CP2C innovation database for a history of use.

Project Lead Douglas Mason **Office** Pavement Management **Phone** 916-274-6058 **E-FIS Project Number** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Develop NSSP	Asphalt	12/1/2008	12/1/2010	100	100	Done
# 2 Evaluation Report	Chico	10/1/2010	1/1/2012	20	120	
# 3 Complete final SSP	Asphalt	7/1/2011	1/1/2012	25	145	Under Development
# 4 Update Guidelines	Chico	3/1/2011	3/1/2012	0	105	
# 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

Project **Scrub Seal** **Task** Preservation **Subtask** Seals & Coats

Target Completion Date 9/3/2013 **Number** 7 **Status** Active **Progress** **10 %** **Rock Products Committee** YES

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

Overall Draft NSSPs delivered to Caltrans. Converting specification to plain language format.

Project Lead Douglas Mason **Office** Pavement Management **Phone** 916-274-6058 **E-FIS Project Number** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	NSSP/Update Workplan	Asphalt	6/1/2009	12/31/2011	35	110	
# 2	Evaluation of previous Test Section- Rte 178 in District 9	Chico	6/1/2011	12/31/2011	0	140	
# 3	Identify, fund and construct test sections in Coastal, Valley. Mountain, Desert	District	6/1/2011	9/1/2012	0	65	
# 4	Evaluation	Chico	9/3/2012	9/3/2013	0	0	
# 5	Update MTAG	Chico	9/3/2012	3/31/2013	0	0	
# 6	Develop and Finalize SSP	Asphalt	9/3/2012	4/1/2013	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

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

Target Completion Date 12/1/2012 **Number** 8 **Status** Active **Progress** **50 %** **Rock Products Committee** YES

Purpose Introduce WMA technology into asphalt rubber chip seal strategies.

Overall Project selected in District-7 on Ven 150. Placed and evaluated by Chico State.

Project Lead Douglas Mason **Office** Pavement Management **Phone** 916-274-6058 **E-FIS Project Number** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 NSSP	Asphalt	8/3/2010	5/1/2011	100	100	Done
# 2 Test Projects	District	7/1/2011	9/30/2011	100	100	Selected 07-Ven-150.
# 3 Evaluation of Project	Chico	7/1/2011	9/30/2012	30	60	Chico perfromed evaluatoin during placement
# 4 Evaluation Report	Chico	7/1/2011	12/1/2012	0	50	Initial evaluation report to be submitted by 10-15-11
# 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

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

Target Completion Date 8/1/2012 **Number** 9 **Status** Active **Progress** **60 %** **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 On 3/1/2012 Caltrans/Industry joint sealing field review report was finalized. Draft of standard plans, specifications, and HDM are being reviewed.

Project Lead Osama Abdulshafi **Office** Concrete Pavement **Phone** 916-227-5816 **E-FIS Project Number** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Caltrans Joint Seal Practice Report	Conc Pvmt	7/1/2010	2/15/2012	100	100	Report was finalized on 3/1/2012.
# 2	Review and analyze existing manuals and guidance	Conc Pvmt	9/15/2011	7/1/2012	80	65	Existing manuals, guidance, and recent research work are being reviewed.
# 3	Develop final Policy	Conc Pvmt	11/17/2011	3/15/2012	100	100	It was decided that the policy should be merged into the HDM.
# 4	Develop final standard plans after subtask group circulation of final document approval	Conc Pvmt	11/17/2011	3/31/2012	80	95	Standard plans are under internal review.
# 5	Develop final standard specifications after subtask group circulation of Final document approval	Conc Pvmt	11/17/2011	7/1/2012	20	55	Standard specifications are under internal review.
# 6	Develop final HDM	Conc Pvmt	11/17/2011	3/10/2012	95	110	Draft of revised HDM is under internal review.
# 7	Update the MTAG	Conc Pvmt	2/1/2012	8/1/2012	15	30	Revision of MTAG has started.
# 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.
12/09/11- Work on revision of MTAG started.
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.
3/2/2012- Bruce Kean and Ben Jacobus asked that their names be removed from the report since they disagree with the report conclusions.
3/2/2012- Craig Hennings send an email stating "I agree with several of the comments that more study needs to be done to change a policy like this. That said, I know Bill told me he wants to move forward and put this behind us and work on other projects."

Project **Partial Depth Concrete (Spall) Repair** **Task** Preservation **Subtask** Concrete Repairs

Target Completion Date 3/1/2013 **Number** 10 **Status** Active **Progress** **15 %** **Rock Products Committee** YES

Purpose Identify key performance factors and develop specific standardized guidelines, specs, plans, and training for constructing partial depth spall repairs with alternative materials.

Overall Revised draft work plan is under task group review. Final comments received. Work plan being re-evaluated for assignment changes.

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Create a scoping document	Conc Pvmt	7/1/2011	8/1/2011	100	100	Final draft of scoping doc written and reviewed by sub task group
# 2	Create a workplan	Conc Pvmt	8/31/2011	12/25/2011	100	100	Draft work plan under review and comment by sub task group. To be discussed at meeting on 12/5/11
# 3	Determine critical performance factors for pathching material	Consult	1/1/2012	1/2/2013	0	20	Draft task order to be drafted by 2/28
# 4	Standard plans for spall repair	Conc Pvmt	3/1/2012	7/2/2012	0	15	
# 5	Create SSP for pavement spall repair	Conc Pvmt	6/1/2012	3/1/2013	0	0	
# 6	Update spall repair chapter - MTAG	Chico	8/1/2012	2/28/2013	0	0	
# 7					0	0	
# 8					0	0	

Log 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** Preservation **Subtask** Concrete Repairs

Target Completion Date 7/30/2012 **Number** 11 **Status** Active **Progress** **70 %** **Rock Products Committee** YES

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

Overall 01/09/12 Received additional comment from CT construction for RUB (Replace Underlying Base). Response is being tabulated. Continue review the comments

Project Lead Cornelis Hakim **Office** Concrete Pavement **Phone** 916-227-5436 **E-FIS Project Number** **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	9/6/2011	5/15/2012	35	70	1/27/12 Continue tabulate comment and response from Industry and Bid Inquiries
# 5	Finalize new SSP	Conc Pvmt	5/16/2012	7/30/2012	0	0	
# 6	Update guidelines to reflect SSP changes	Conc Pvmt	9/1/2011	3/31/2012	70	85	Sent to Caltrans Peer Review 11/17/2011 for completeness, style, format, comments due 12/31/2011
# 7					0	0	
# 8					0	0	

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

Project **Chip Seal Just In Time Training (JITT)** **Task** Preservation **Subtask** Training

Target Completion Date 12/31/2011 **Number** 12 **Status** Active **Progress** **90 %** **Rock Products Committee** YES

Purpose Train CT and contractor personnel on Chip Seal construction.

Overall Module completed.

Project Lead Peter Vacura **Office** Asphalt Pavement **Phone** 916-274-6194 **E-FIS Project Number** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Create JITT Module	Industry	1/3/2010	11/1/2010	100	100	Complete
# 2 Review and Finalize JITT Module	HQ Constr	11/1/2010	7/29/2011	100	100	Complete
# 3 Update Specifications	Asphalt	2/15/2011	12/31/2011	10	120	Develop Prepaving specifications to account for a strategy checklist, training, project specific issues. Proposal in lieu of JITT
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 8/3/2010-Draft JITT is in review
1/13/11, lrouen, info up to date
4/25/11 - Status Update, SR

Project **Micro-Surfacing JITT** **Task** Preservation **Subtask** Training

Target Completion Date 12/31/2011 **Number** 13 **Status** Active **Progress** **90 %** **Rock Products Committee** YES

Purpose Train CT and contractor personnel on micro-surfacing construction

Overall Modules completed.

Project Lead Peter Vacura **Office** Asphalt Pavement **Phone** 916-274-6194 **E-FIS Project Number** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Create JITT Module	Industry	1/3/2010	11/1/2010	100	100	Complete
# 2	Review and Finalize JITT Module	HQ Constr	2/1/2011	7/29/2011	100	100	Complete
# 3	Update Specifications	Asphalt	2/15/2011	12/31/2011	10	120	Develop Prepaving specifications to account for a strategy checklist, training, project specific issues. Proposal in lieu of JITT
# 4					0	0	
# 5					0	0	
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 1/13/11, lrouen, verified pys and target

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

Target Completion Date 12/31/2012 **Number** 14 **Status** Active **Progress** **55 %** **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 Ongoing quieter pavement research and evaluation of existing concrete pavements and NGCS test sites: Sac I-5 NGCS pilot project completed. After measurements delayed indefinitely. Sac I-80 started 2/6/12. San I-5 award in Feb & construstion in Mar 2012

Project Lead Linus Motumah **Office** Concrete Pavement **Phone** 916-227-5851 **E-FIS Project Number** **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	Seven pilot projects identified, 3 in construction in 2011. Sac I-5 project to be completed by end of September 2011.
# 3	Finalize rigid QP research first and second year report.	UCPRC	7/1/2010	10/31/2011	100	100	Comments returned to UCPRC. Final report by 9/30/2011. Schedule slipped to 10/31/2011. Final report receivd 11/11/11
# 4	Complete rigid QP research third year data collection & report.	UCPRC	7/1/2010	6/30/2012	60	85	Data collection completed 6/30/2011. Developed priority list of concrete QPR sections for long-term monitoring 9/30/2011
# 5	Complete rigid QP research fourth year data collection & report.	UCPRC	7/1/2011	10/31/2012	15	50	Data collection began in July 2011.
# 6	Evaluation of OBSI and texture characteristics of NGCS pilot test sections.	UCPRC	5/1/2011	12/31/2012	35	50	Ongoing research with Pavement, METS and Districts Construction. After measurements for Sac I-5 delayed to Mar 2012. Sac I-80 start 2/6/12. San I-5 award Feb & begin construction by March 2012.
# 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 in collaboration with Pavement Program. UCPRC submitted 5 work plans. Other 2 on 10/31.
# 8						0	

Log NEXT GENERATION CONCRETE SURFACE (NGCS) PILOT PROJECTS IN FY 2011/12

DISTRICT	EA	COUNTY	ROUTE	Project Post Mile Limits	Grind & Groove Limits	Conventional Grind Limits	STATUS
3	0A800	Sac	50	Segment 1: R2.6 to R5.4 Segment 2: R12.2 to R14.2	"WB: PM R12.80 to R14.20"	" EB & WB: PM R2.66 to R5.40	EB: PM R12.20 to R14.20" Spring 2012
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" Completed. After tests delayed to Feb 2012
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, 2011.1. 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
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	Summer 2012
10	0V870	SJ	99	NB PM 29.0 NB PM 30.8	NB: PM 29.0 to 30.8	N/A	Summer/Fall 2011
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.	Trial section completed May-2011 START MAR 2012

SUMMARY
1) NGCS on Sac I-5 (south project) after skid tests delayed to Mar 2012/indifinitely.
2) NGCS Sac I-80 started Feb 6, 2012.
3) NGCS San I-5 award in Feb and start construction in Mar 2012.
4) Revised First & Second year final report received Feb 16, 2012

Project **DBR polyester backfill** **Task** Preservation **Subtask** Rigid Pavement

Target Completion Date 12/31/2016 **Number** 15 **Status** Active **Progress** **20 %** **Rock Products Committee** YES

Purpose Shrinkage and low strenth 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 suseptible to degradation during the construction process

Overall Field review and NDT conduducted on Jan 17 and 18. Written reports about 50% complete. Core extraction locations will be identified by 3/8/12.

Project Lead Doran Glauz **Office** Concrete Pavement **Phone** 916-227-5436 **E-FIS Project Number** **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	85	85	Field review completed January 18. FWD data and impact echo NDT data analysis complete. Field review report about 80% MIRA test data analysis pending.
# 2	Perform Year 3 review of Sac 50 DBR project	Chico	9/1/2013	3/31/2014	0	0	
# 3	FWDs, cores and test	Materials	7/5/2011	4/5/2012	40	90	Field testing completed Jan 18. Data will be analysed to determine best locations to extract cores. Core removal locations will be identified by 3/8/12.
# 4	initial report	Chico	1/25/2012	4/20/2012	50	45	Impact echo testing report complete. Visual examination report 80% complete. MIRA report pending.
# 5	Update nSSP from lessons learned	Conc Pvmt	3/1/2012	9/1/2012	0	0	
# 6	final report	Chico	1/1/2016	12/31/2016	0	0	
# 7	Evaluate if spec should be standard	Conc Pvmt	6/1/2016	12/1/2016	0	0	
# 8	Update existing specification	Conc Pvmt	2/15/2012	5/15/2012	0	20	Will meet with construction staff and contracotr to discuss constructability isues in February.

Log 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.