ROCK PRODUCTS COMMITTEE

WORK PLAN STATUS

August 5, 2014

"Plan the Work

Work the Plan"

Contents

Status Meeting Calendar
Asphalt Task Group Projects
Concrete Task Group Projects
Pavement Foundations Task Group Projects
Pavement Preservation Task Group Projects

“Caltrans, Industry and FHWA Working Together”

STATE OF CALIFORNIA
PAVEMENT PROGRAM STATUS CALENDAR

DEPARTMENT OF TRANSPORTATION

2014

ROCK PRODUCTS COMMITTEE MEETINGS CALENDAR

JAN

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21 22	23	24	25	
226	27	28	29	30	31	

FEB

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APR

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JUN

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AUG

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31						

SEPT

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NOV

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DEC

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JAN 2015

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Calendar Legend

- Quarterly Rock Products Committee (RPC) Meeting
- Monthly RPC Co-Chairs 3+1 Meetings
- Asphalt Task Group 3+2 Meetings
- Concrete Task Group 3+2 Meetings
- Pavement Foundations Task Group 3+2 Meetings
- Pavement Preservation Task Group 3+2 Meetings
- State Holidays
- Last Day to Input Information for Monthly Status Documents Update
- Monthly Status Documents Preparation and Posting

Pavement Program Project Management Monthly Report

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

Target Completion Date 12/31/2015 **Number** 9 **Status** Active **Progress** **64 %** **Rock Products Committee** YES

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

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

Activities Planned Develop NSSP, Identify field projects, Monitor field projects, Develop SSP

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Conduct and report laboratory evaluation of OGFC mixes	UCPRC	7/1/2009	7/29/2011	100	100	UCPRC report approved by Caltrans
# 2	Lab HVS evaluation and report on quieter OGFC mixes	UCPRC	7/1/2011	7/30/2014	95	100	HVS testing is complete. Report in Stage 2
# 3	Develop NSSP for quieter OGFC mixes	Asphalt	9/1/2014	1/26/2015	0	0	
# 4	Update & adopt specification for OGFC mixes	Asphalt	10/1/2015	12/31/2015	0	0	
# 5	Complete 5th yr flexible QP research & report	UCPRC	7/1/2011	10/1/2012	100	100	
# 6	Review 4th yr flexible pavement evaluation & report	Asphalt	10/10/2011	12/31/2011	100	100	Report completed and published
# 7	Field evaluation on quieter OGFC mixes	Asphalt	5/1/2015	9/30/2015	0	0	
# 8	Review 5th yr flexible pavement evaluation & report	Asphalt	8/16/2012	11/30/2012	100	100	Report received on 8/16/12

Log 7/11/11 - Status Update, PJV
9/6/11 - Status Update, RSD
10/12/11 - Status Update, RSD
11/17/11 - Status Update, RSD
6/18/12 - Status Update, RSD
9/27/12 - Status Update, RSD
10/10/12 - Status Update, RSD
5/28/13 - Status Update, RSD
10/2/13 - Status Update, RSD
1/16/14 - Status Update, RSD
7/30/14 - Status Update, RSD

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

Target Completion Date 12/31/2014 **Number** 11 **Status** Active **Progress** **92 %** **Rock Products Committee** YES

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

Overall Progress Red Bluff and Weed projects are completed. Solano pavement project complete except OGFC.

Activities Planned Develop strategy for moving forward. Write task order for Fugro to perform 1st year field tests on D2 projects.

Project Lead Imad Basheer **Office** Asphalt **Phone** 274-6155 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Support District for N. Cal Project	Asphalt	6/30/2010	6/30/2011	100	100	Selected 3 projects (Red Bluff, Weed & Willits)
# 2	Monitoring I-710 Pavement Performance	UCPRC	6/30/2010	6/30/2014	85	100	UCPRC to conducted IRI & FWD in Fall of 2012. Next step is to update the I-710 Peformance report with new data by Jan
# 3	Develop NSSP for N. Cal Project	Asphalt	2/1/2011	6/30/2011	100	100	Completed NSSP for Red Bluff, Weed, Solano, Willits.
# 4	Evaluation and Monitoring of Weed and Red Bluff	Asphalt	7/2/2012	8/1/2013	100	100	Projects Completed
# 5	Solano Project	Asphalt	1/1/2013	12/31/2014	75	80	Projects in construction; Continue working with Construction and District in monitoring the construction phase.
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 12/9/2010 - Caltrans/Industry meeting on long life meeting. Two projects in D2 were discussed. UCPRC will conduct lab testing.
5/13/11 - Updated Status, PJV
7/12/11 - D4 Sol 80 and D1 Men 101-Willits Bypass; 40 yr pvmt designs completed
12/14/2012 - Red Bluff and Weed Projects already awarded and in construction.
6/27/14 - CDS revised target completion date to 12/30/14.
7/11/14 - Sri revised target date to 12/31/14

Project **RAP/RAS** **Task Group** Asphalt **Subtask Group** Specifications

Target Completion Date 9/30/2014 **Number** 15 **Status** Active **Progress** 72 % **Rock Products Committee** YES

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

Overall Progress Draft RAP/RAS RSS Section 39 sent to Sub Task Group on June 23, 2014. Comments from Sub Task Group members received by July 8, 2014.

Activities Planned Next Sub Task Group meeting will be in held in August. Resolve comments received on draft RAP/RAS specification.

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	25 % RAP Specification (no	Road Mat	6/1/2012	1/18/2013	100	100	Specification was posted 2/22/13.
# 2	Review information/data from projects and revise specs (tier 1)	Road Mat	7/1/2013	2/3/2014	100	100	up to 15%
# 3	RAP/RAS Specification (planing, discussing, developing)	Road Mat	3/1/2013	9/30/2014	95	90	Sub Task Group meeting held and next meeting is scheduled for July 2014
# 4	Compile information/data from pilot projects (tier 2)	Road Mat	12/1/2013	9/28/2014	40	80	Using Tier 2 (15-25%) in some projects.
# 5	Finalize and Implement RAP/RAS Specification (tier 3)	Asphalt	3/1/2014	9/30/2014	0	75	Tier 3 (25-40%) Sub Task Group meeting held and next meeting is scheduled for July 2014
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log 09/27/12 Updated overall progress.
03/28/13 CDS Updated overall progress, activities planned and deliverables.
05/30/13 RAP/RAS STG met and reviewed the Tier 1, 15% RAP/RAS binder replacement with "up to 5% RAS" draft spec. The plan is to have it posted as RSS prior to July 2013 morotorium.
Tier 2, 15-25% RAP/RAS binder replacement with "up to 5% RAS" as an nSSP in some pilot projects.
Tier 3, 25-40% RAP/RAS binder replacement with "up to 5% RAS" completed by July 2014.
06/12/13 to date to pilot projects (10-0V9604 & 08-0P9504) have used the RAS spec.
09/26/13 CDS Updated overall progress.
11/3/13 CDS Updated overall progress.
11/13/13 RAP/RAS STG met and reviewed all Tiers (1, 2, & 3). A working group for binder rejuvenator was put together.
12/6/13 The binder rejuvenator WG met and discussed a draft specs.
1/17/14 Progress report: No meeting is scheduled until the draft specs is out. Draft specs is due in late March and is a stand alone covering all Tiers RAP plus RAS.
4/29/14 CDS Updated overall progress, planned activiyies and deliverables % complete.
7/11/14 - Sri Changed percent complete for deliverable #3

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

Target Completion Date 6/30/2015 **Number** 18 **Status** Active **Progress** **24 %** **Rock Products Committee** YES

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

Overall Progress Sub Task Group meeting held on June 26, 2014 and survey control points was discussed. Six pilot projects have been identified for 2014.

Activities Planned Next Sub Task Group meeting scheduled for July 30, 2014. First pilot project paving is scheduled for July. Work on development of Veda training module.

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	NSSP for Pilot Projects	HQ Constr	8/1/2013	1/10/2014	100	100	Completed.
# 2	IC Demonstration Project	HQ Constr	6/1/2013	9/6/2013	100	100	IC demonstration completed.
# 3	Pilot Projects (Target 6 projects)	HQ Constr	1/30/2014	9/30/2014	10	75	6 projects selected.
# 4	Analyze results from pilot	HQ Constr	5/1/2014	9/30/2014	0	65	Award has happened for the first pilot project
# 5	Finalize SSP	HQ Constr	12/1/2014	3/1/2015	0	0	
# 6	User Guidance for IC to be incliuded in Construction Manual	HQ Constr	12/30/2014	6/30/2015	0	0	
# 7					0	0	
# 8					0	0	

Log 9/27/13 CDS Updated progress.
10/30/13 CDS Updated progress.
4/29/14 CDS Updated overall progress, planned activities and deliverables % complete.
6/27/14 CDS Updated overall progress, planned activities and deliverables % complete.

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

Target Completion Date 12/30/2014 **Number** 20 **Status** Active **Progress** **74 %** **Rock Products Committee** YES

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

Overall Progress Sub Task Group meeting was held on July 11, 2014 where draft quality control specification was discussed. RPA template for Laboratory Accreditation Manual, reheating ARB samples and QC testing frequency requirements were discussed.

Activities Planned Next Sub Task Group is scheduled for August 15, 2014. Work on language for viscosity range due to reheating lab samples.

Project Lead Kee Foo **Office** Pavement Program **Phone** 274-6077 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 RSS Section 39	Asphalt	8/5/2013	9/1/2014	90	95	Sub Task Group Meeting held June 6, 2014 and QC testing and lab heating of ARB were discussed.
# 2 RSS Section 37-2	Asphalt	8/5/2013	9/1/2014	90	95	Sub Task Group Meeting held June 6, 2014 and QC testing and lab heating of ARB were discussed.
# 3 Publish Revised Specification	Asphalt	6/1/2014	12/30/2014	10	30	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 9/27/13 CDS Updated progress.
4/29/14 CDS Updated overall progress, planned activities and deliverables % complete.
6/27/14 CDS Updated overall progress, planned activities and deliverables % complete.
7/10/14 FKY Updated overall progress, planned activities and deliverables % complete.
7/27/14 FKY Updated overall progress, planned activities and deliverables % complete.

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

Target Completion Date 2/1/2016 **Number** 21 **Status** Active **Progress** **20 %** **Rock Products Committee** YES

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

Overall Progress Sub Task Group met on July 11, 2014. Phase 1 round robin is complete and workplan is ready for approval. Testing protocols and instructions for 2nd round robin developed. Draft experimental design developed and presented to the group.

Activities Planned Send samples out for 2nd RR testing. Next Sub Task Group meeting is August 15, 2014.

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Phase 1: Work Plan Development Phase 1: Initial Round Robin	Industry	8/5/2013	9/30/2014	99	85	Draft work plan developed and discussed at the 4/4/14 sub task group meeting. Need co-chairs to review and sign.
# 2	Experimental Design	Asphalt	1/15/2014	12/31/2014	10	60	Working group formed.
# 3	Draft PG-AR spec/Pilot projects (report only)	Industry	11/7/2013	12/1/2014	60	70	Draft NSSP reviewed by the Sub Task Group.
# 4	Phase 2: Testing protocols and instructions for conducting 2nd round robin test	Industry	11/7/2013	9/30/2014	90	85	Samples need to be sent out for testing.
# 5	Phase 2: Roun robin testing and evaluation of results	Industry	8/30/2014	3/1/2015	0	0	No progress to date.
# 6	PG-AR Workshop	Asphalt	12/30/2014	6/30/2015	0	0	No progress to date.
# 7	PG-AR Specification	Asphalt	12/30/2014	2/1/2016	0	0	No progress to date.
# 8	Certificate of Compliance Program for PGAR Suppliers	Asphalt	6/30/2015	2/1/2016	0	0	No progress to date.

Log 9/4/13 - First subtask group meeting at Granite, Sac. Reviewed scoping and initial test results by Sallie Houston. Industry to draft a work plan for 11/6/13 meeting. HZ
11/6/13 - Second STG meeting at Granite, Sac. Draft work plan reviewed and to be finalized. HZ
1/15/14 - Draft final work plan is being reviewed. HZ
1/30/14 - Added status notes in #4. HZ
2/27/14 - STG meeting. Round robin test delayed due to sample preparation and shipment. HZ
4/29/14 - CDS Updated overall progress, planned activiyies and deliverables % complete.
5/9/14 - STG meeting. Round robin test delayed due to sample preparation and shipment. NSSPs for testing ARB using pilot projects developed. A small group was formed to develop an experimental design for PG-AR. HZ
6/6/14 - STG meeting. Samples for 2nd RR still yet to be shipped out and tested. Draft reheating language developed. Need to idenrify pilot projects. HZ
6/27/30 - Added deliverables.
7/11/14 - Sri changed the completion date and percent complete on deliverables #2 and #4.
7/11/14 - STG meeting. Draft experimental design developed and presented. Draft reheating language developed and to be included in LP-13. Need to idenrify pilot projects. HZ

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

Target Completion Date **Number** 23 **Status** Active **Progress** **0 %** **Rock Products Committee** YES

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

Overall Progress

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

Project Lead **Office** Asphalt **Phone** **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1				0	0	
# 2				0	0	
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log

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

Target Completion Date **Number** 24 **Status** Active **Progress** **0 %** **Rock Products Committee** YES

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

Overall Progress

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

Project Lead **Office** Asphalt **Phone** **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1				0	0	
# 2				0	0	
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log

Project **Asphalt Binder Crumb Rubber Verification** **Task Group** Asphalt **Subtask Group** Section 39

Target Completion Date **Number** 25 **Status** Active **Progress** **0 %** **Rock Products Committee** YES

Purpose Verify the crumb rubber content in asphalt binder produced as either rubber modified binder or asphalt rubber binder.

Overall Progress

Activities Planned Verify the crumb rubber content in asphalt binder produced as either rubber modified binder or asphalt rubber binder.

Project Lead **Office** Asphalt **Phone** **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1				0	0	
# 2				0	0	
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log

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

Target Completion Date 12/30/2014 **Number** 5 **Status** Active **Progress** **85 %** **Rock Products Committee** YES

Purpose Implement QA specifications for materials management of structural concrete.

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

Activities Planned Specification to be updated and finalized by January 1, 2015. QC/QA Guidance Document and DIME training material to be finalized in coming months.

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Establish teams and review existing practices (FHWA,	OSC	12/1/2010	5/31/2011	100	100	Teams are established.
# 2	Develop outline for QC/QA/IQA/IA program	Materials	3/1/2011	11/1/2011	100	100	QC program is complete. QA program is being finalized.
# 3	Draft QC reference specification and selection of pilot projects	Materials	7/1/2011	1/31/2012	100	100	Specification Finalized
# 4	Review of draft QC specification and create draft QA specifications	Materials	1/16/2012	3/31/2012	100	100	Specification has been finalized and will be incorporated into Pilot Projects
# 5	ACI Training and IA updates	Materials	1/1/2012	6/30/2014	100	100	ACI is complete. IA Manual Updates complete.
# 6	Workshops and roll out 10+ pilot projects (structural concrete/non-pavement) and additional 10 pavement projects to be added later on	Materials	4/2/2012	12/30/2014	75	85	D11 Project identified.
# 7	Feedback and update other pilot concrete projects	Materials	12/31/2012	12/30/2014	50	80	To be completed as pilot projects take place and lessons learned are captured
# 8	Establish full implementation on all projects	Materials	3/1/2013	12/30/2014	0	80	Will be complete once pilot projects take place and the Section 11-4 is included in all new projects

Log 9/1/13

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

11/29/12

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

10/16/12

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

9/19/12

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

8/9/12

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

7/17/12

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

7/3/12

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

4/24/12

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

2/23/12

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

1/23/12

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

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

Target Completion Date 1/1/2015 **Number** 11 **Status** Active **Progress** 97 % **Rock Products Committee** YES

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

Overall Progress Specifications and plans are complete, except for the issue of compatibility of fabrication and installation tolerances.

Activities Planned Following the decision of TG on the panel thickness tolerance, the team is waiting for a direction by TG to resolve the contradiction between this tolerance and the set limit for surface variation.

Project Lead Mehdi Parvini **Office** Concrete Pavement **Phone** 916-227-5848 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Develop Draft PPCP nSSP	Conc Pvmt	7/1/2010	6/30/2011	100	100	Completed nSSP.
# 2	PPCP Details	Conc Pvmt	7/1/2010	4/1/2012	100	100	Completed draft standard sheets.
# 3	Establish Design Criteria	Conc Pvmt	7/1/2010	3/1/2013	100	100	Consultant design methodology report was finalized.
# 4	Prestressed Precast Pavement Design Guide	Conc Pvmt	1/1/2012	3/1/2013	100	100	SHRP2, R05 report was finalized.
# 5	Develop generic slab replace specification	Conc Pvmt	12/1/2011	6/30/2012	100	100	Completed nSSP.
# 6	Develop generic slab replace Details	Conc Pvmt	12/1/2011	6/30/2012	100	100	Completed draft standard sheets.
# 7	Performance Evaluation Guidelines (for Proprietary Systems)	Conc Pvmt	6/30/2012	3/1/2013	100	100	Design methodology to address performance criteria for different precast sysytems (the consultant report) was finalized.
# 8	Update prestressed SSP & plans (after I-710 first construction season, resolving flat panel issue, and after other pilot projects)	Conc Pvmt	1/30/2013	1/1/2015	80	80	Standard plan and NSSP have been developed and completed. Last modification to remove tolerance table was overruled by TG and new thickness tolerance was selected. Waiting for TG to address the compatibility of fabrication and installation

Log 07/21/14-status update-MP

07/08/14-status update-MP

12/23/13-status update-MP

Revised specifications and construction details for PPCP and PISR were sent to the team on 12/23/13 for review as potential SSPs and associated std. plans.

A Sub Task Group meeting to be scheduled to discuss the comments and finalize the standards.

09/16/13

A draft revised PPCP specification which included performance criteria for precast pavements were sent out for review on 8/7/13 with deadline review of 8/23/13. Only two sets of comments were received from team members. A meeting was scheduled on 9/12/13 to discuss the draft, but was cancelled due to conflict with RPC meeting. An internal meeting with Caltrans intellectual property attorney took place on 8/29/13. Shop drawings for some pilot projects are being reviewed (and approved) by HQ for potential improvement to the existing construction details. Construction and METS to provide lessons-learned from active construction projects. The evaluation of existing nSSPs to be considered as SSPs is contingent on feedback from I-710 project, which has been delayed.

04/29/12-status update-MP

11/29/12

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

10/16/12

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

9/27/12-status update-MP
9/19/12
Next Project Team MTG in Oct 2012. Pilot projects in D7 are RTL'd and projects in D4 are advertised. Review continues on updated Scoping Document & Draft report on design methodology. Lessons learned continue to be compiled tolerances.
for all constructed projects.

8/9/12 - status update-MP
8/9/12
Pilot Projects in District 4 and 7 have RTL'd (last 6/30/2012). Review continues on updated draft report from consultant on design methodology. Design methodology MTG to take place in mid-Sept 2012. Lessons learned continue to be compiled for all projects.
7/2/12 - status update-BF
Change date for developing Design Criteria and Prestress Guide to 12/30/12 since consultant not yet on board. Change end date for project to 7/30/13 since construction on 710 and other pilots not yet begun and time is needed to evaluate these projects.
5/31/12-status update-MP
4/24/12
Specs and Plans for Precast Prestressed (PPCP) and Precast Panel (PCP) discussed at project team meeting on 4/24/12. Further comments received after the meeting. Next project team mtg scheduled for May/Jun. Draft proprietary legal memo circulated to team. Design methodology also to be developed and review at project team level. Will be review and refined throughout May 2012.
4/23/12-status update-MP
2/27/12
Specs and Plans for Precast Prestressed (PPCP) and Precast Panel (PCP) to be finalized at project team level. No comments received. Next project team mtg scheduled for late-March. A task order for the development of Design Guidelines will be finalized in the coming weeks. Proprietary legal memo also to be developed at team level.
2/1/12-status update-MP
12/23/11- Std. details for PPCP were discussed in 12/6/11 meeting. Draft ISR(PCP) spec and plan were discussed on 12/6 meeting. Project team meetings will continue monthly, with the next one to take place in early-Jan 2012.
PPCP nSSP was updated based on lessons learned from CC-680 project in 9/7 meeting. Std. details discussed in 11/3/11 meeting and to be updated in 12/6 meeting. Draft ISR(PCP) spec and plan is prepared and to be discussed.
11/22/11
The next project team meeting is currently scheduled for December 6, 2011. Development of the Standard Sheets for the PPCP plans will continue in the meantime.
10/16/11-status update-MP
This activity was discussed at the most recent September 15 Sub-Task Group meeting. The project team remains committed to completing PPCP nSSP and project plans in conjunction with this STG activity. The next project team meeting is currently scheduled for November 3, 2011.
9/9/11-Status update-MP
PPCP nSSP was updated based on lessons learnt from CC-680 project in 9/7 meeting. Another meeting is planned to review std. details.
8/26/11- Draft Std. Draawings were sent out for review on 8/11 to be discussed in 9/8 meeting.
7/29/11
Scoping document was approved by TG on 7/14/11 meeting.
A Final draft of the PPCP nSSP was completed on June 30, 2011.
Development of the new I-710 precast pavement specification has indicated, however, that a couple of changes need to be made to that final draft. Changes will be distributed to the Project team members in the coming weeks.
The next project team meeting is currently scheduled for Mid-August 2011
7/12/11-status update-MP
6/66/11-Final version of scoping document was approved by Precast STG on 6/17/11 and by Concrete TG on 6/22/11.
Final version of Scoping Document was approved by Precast STG on 6/17/11. The PCCP nSSP is set to be completed by end of June.
5/27/11-Final version of scoping document was submitted on June 21, 2011. The document will be sent to Precast STG for review. The attached work plan will be revised based on feedback from Precast STG.
Updates from May 24th Meeting:
- An updated Scoping Document is in the final stages, which includes an updated timeline. Scoping Document will be finalized by June 1.
- First goal, completion of nSSP for PPCP Pavement, will be completed by 6-30-11
- Next team meeting will be June 13, 2011

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

Updates from May 2nd Meeting:
A $300 million project RTL this month. Need to work on that spec. Issues resolved on that spec will be used to complete this project.

Updates from March 17th Meeting:
Keith wanted to clarify if the proposed SSP will dictate which system to use, or allow for proprietary systems.
Keith and Jim mentioned that creating an NSSP might be a better way to get the spec onto paper, and allow for future revisions that may be able to turn this into an SSP. This would allow time for current projects to be evaluated to see wat challenges/claims we've encountered, and adjust off of these lessons learned.

Updates from Feb 17th Meeting:
A final detailed work plan has been completed for this Activity, and the project team has begun conducting meetings to complete all of the objectives listed.
Draft Standard Plans and Specs are about 25% complete; A draft Plan was discussed at the Feb 17 meeting
Project team members are incorporating lessons learned on previous Precast Pavement projects, and will incorporate this into the language of the SSP

List of Projects	Status
I-10 (El Monte)	Comp
I-15	Comp
I-5/14	Comp
680	Comp
I-710	Const
I-80	Const
580	Const
I-5 (Grapevine CAPM)	Const
405 (CAPM)	Const
I-710 (Phase II)	Design
210 (Maint.)	Const

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

Target Completion Date 1/1/2015 **Number** 22 **Status** Active **Progress** 90 % **Rock Products Committee** YES

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

Overall Progress Final draft of specification has been created. Monthly team meeting continue.

Activities Planned Specification to be implemented by January 1, 2015. Updated MPQP document capturing changes to be finalized by construction in the coming months.

Project Lead Keith Hoffman **Office** Structural Materials **Phone** 916-417-8371 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Develop Scoping Document and Work Plan	Materials	10/13/2011	3/1/2012	100	100	Scoping Document is in development by Industry
# 2	Evaluate performance-based specification options, as well as test method that allow for appropriate consideration	Materials	3/1/2012	4/1/2012	100	100	Has been completed in conjunction with Scoping Document development
# 3	Develop plan for how CT will evaluate ways to foster use of materials as appropriate	Materials	4/2/2012	8/1/2012	100	100	Complete based on Preliminary Investigation and Industry feedback
# 4	Develop a draft specification if needed based on comments from Preliminary Investigation	Materials	8/1/2012	3/30/2013	100	100	Preliminary Investigation Report received. Standing by for comment from Industry
# 5	Submit any proposed Spec updates to Industry and to CT for feedback, and refine	Materials	2/28/2013	9/30/2014	85	90	Will be completed based on discussions with Industry at monthly project team meetings.
# 6	Finalize specification based on comments where appropriate	Materials	4/30/2013	1/1/2015	55	75	Deliverable to be completed based on needs determined at project team level.
# 7					0	0	
# 8					0	0	

Log 9/1/13

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

11/29/12

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

10/16/12

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

9/19/12

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

8/9/12

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

7/17/12
Scoping document finalized. Work plan is currently in the development phase. Focus is on minor concrete. Pavement TAP Preliminary Investigation (Lit Search) on this topic to take place in the coming months. Tm MTG set for August 2012.

7/3/12
The preliminary investigation is on-going. The report is due end of July. Updated scoping document for research was submitted to the task group for review and approval.

4/24/12
Scoping document finalized. Work plan is currently in the development phase. Focus is on minor concrete. Pavement TAP Preliminary Investigation (Lit Search) on this topic to take place in the coming months. Tm MTG set for early-May.

2/23/12
Scoping document drafted. Will be refined by project team. Work plan is currently in the development phase. Focus is on minor concrete. Pavement TAP to consider Preliminary Investigation (Lit Search) on this topic. Tm MTG set for late-Feb

1/23/12
Pavement TAP to consider Preliminary Investigation (Lit Search) on this topic. Team MTG set for late-Jan

1/17/12
Scoping document drafted. Will be refined by project team.

12/23/11
Scoping Document will be revised by project team and will reflect emphases on minor concrete. Questions regarding the target deadline for the activity, as well as the applicable end uses and an example case study, still need to be addressed. Industry is to also provide details on usage history in Minor Concrete in California. Pavement TAP may be used to explore state of the art practices for recycled concrete material. Focus is on minor concrete.

11/22/11
Scoping Document has been drafted as of this date and will distributed to the Task Group for review and approval in the coming weeks. Team members are currently being identified by Industry and the first project team meeting is scheduled for mid-Dec 2011.

10/20/11
This project was proposed at the October 13, 2011 TG meeting. The project team members are currently being identified by Industry. A project team meeting will take place in the near future to deliver the scoping document and detailed work plan.

Project **Flexural Beam Testing Requirements in Section 40** **Task Group** Concrete **Subtask Group** CIP Concrete Pavement

Target Completion Date **Number** 26 **Status** Active **Progress** **0 %** **Rock Products Committee** YES

Purpose Address issues with California Test 523 certification and accreditation.

Overall Progress

Activities Planned Address issues with California Test 523 certification and accreditation.

Project Lead **Office** Concrete Pavement **Phone** **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1				0	0	
# 2				0	0	
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log

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

Target Completion Date **Number** 27 **Status** Active **Progress** **0 %** **Rock Products Committee** YES

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

Overall Progress

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

Project Lead **Office** Concrete Pavement **Phone** **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1				0	0	
# 2				0	0	
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log

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

Target Completion Date **Number** 28 **Status** Active **Progress** 0 % **Rock Products Committee** YES

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

Overall Progress

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

Project Lead **Office** Concrete Pavement **Phone** **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1				0	0	
# 2				0	0	
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log

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

Target Completion Date 1/30/2016 **Number** 12 **Status** Active **Progress** 17 % **Rock Products Committee** YES

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

Overall Progress Sub Task Group meeting held on June 26, 2014. Sub Task Group discussed survey control points. Seven CIR pilot projects have been identified for 2014.

Activities Planned Next Sub Task Group meeting scheduled for July 30, 2014. Provide support for first pilot project which is scheduled to begin construction in July 2014.

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

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 NSSP for Pilot Projects	HQ Constr	8/1/2013	6/1/2014	100	100	Final draft specification has been completed.
# 2 Pilot Projects CIR and FDR	HQ Constr	2/3/2014	9/1/2015	8	30	7 pilot projects have been selected.
# 3 Analyze Results from Pilot projects	HQ Constr	7/1/2014	10/30/2015	0	5	
# 4 Finalize SSP	HQ Constr	9/1/2015	1/15/2016	0	0	
# 5 User guidance including construction manual update	HQ Constr	9/1/2015	1/30/2016	0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

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

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

Target Completion Date 6/30/2015 **Number** 13 **Status** Active **Progress** 1 % **Rock Products Committee** YES

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

Overall Progress Scoping Document approved 06/16/14. CT kick-off meeting on July 15.

Activities Planned Construction to draft section 25 & 26 by Sept. 1. Meeting with industry tentatively in September. Need list of industry members.

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

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 RSS	Conc Pvmt	6/19/2014	4/30/2015	1	15	
# 2 Construction Guidance	HQ Constr	5/1/2015	6/30/2015	0	0	
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log 06/15/14 CT only kick off meeting.

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

Target Completion Date 12/31/2014 **Number** 3 **Status** Active **Progress** **52 %** **Rock Products Committee** YES

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

Overall Progress Pilot projects continuing using NSSP.

Activities Planned Next CIR Sub Task Group meeting to be held meet August 19, 2014 to discuss mix design procedure and potential revisions to CIR NSSP. Sub Task Group will revise project deliverable and project schedule based on

Project Lead Hamid Moussavi **Office** Asphalt Pavement **Phone** 916-274-6176 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Evaluate existing pilot projects (21 projects)	Asphalt	8/26/2011	12/31/2013	100	100	A few projects were visited.
# 2	Develop standard special provisions	Engr	1/1/2012	12/30/2014	45	85	Revised specification.
# 3	Standardize test methods/ lab procedures	Mets	9/3/2012	12/31/2014	30	85	LP-8 rewriten as engineered mix design.
# 4	Develop guidelines/ MTAG	Asphalt	1/2/2013	12/31/2014	75	80	In Progress
# 5	New Mix Design and JMF Forms	Asphalt	3/1/2013	12/31/2014	10	80	LP-8 circulated for comments.
# 6	Evaluate existing pilot projects in Southern region, Pavement Recycling Center at Cal Poly, Pomona (6 projects)	Cal Poly Po.	9/1/2011	6/30/2013	100	100	Cal Poly completed the report. Some data missing (not provided).
# 7					0	0	
# 8					0	0	

Log 7/29/2010 Approximately 7 projects have been done and 3 more upcoming.
Total of 22 projects were selected and planned for summer of 2011 construction (some still in construction).
7/8/2011 Sub Task Group met and discussed some spec related issues.
8/26/2011 Cal Poly Pomona Recycling Center will monitor some Southern region projects to improve existing nSSP and project selection.
9/6/2011 The following projects are under evaluation by Cal Poly Pomona:
08-0P3504, SBD-95 PM 33.6/37.3 & 47.6/56.1
08-0P3604, SBD-62 PM 106.0/122.0
09-347304, INYO-136 PM 10.0/12.5 & INYO-168 PM 18.3/20.4
06-415904, KING-41 PM 11.6/20.0
06-459104, KERN 119 PM 0.0/4.3
06-0M4504, KERN 33 PM 68.8/73.7
9/9/2011 Sub Task Group met and discussed issues with the most recent projects and continued discussions on how to improve specs, including; mix design, smoothness, project selection, addition of cement, and cores vs. milling.
12/15/2011 Cal Poly has completed most of the sampling and testing of the above six CIR projects. The next Sub Task Group meeting is scheduled for 1-13-2012.
1/13/2012 Sub Task Group met in Cal Poly Pomona and continued discussions on how to improve the use of CIR technique. Industry will submit their position on a few issues to Caltrans by January 31, 2012. The outstanding issues are:

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

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

6/12/12 Specs was send to CT & Industry for review
3/27/13 CDS Update overall progress, activities planned and deliverables.
10/30/13 CDS Update to overall progress.
6/27/14 - CDS Revised delivables target completion dates.
7/10/14 - District Mtce Engineers have reviewed the most recent (2-21-14) CIR specs and some have provided comments.

- The Sub Task Group will meet in August of 2014 to discuss specifications & LP-8.
- CP2 Center will evaluate & monitor 06-0Q2501 (KIN-198-R9.5/R14.7) project to assist us in improving specs & guidelines.

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

Target Completion Date 4/1/2015 **Number** 4 **Status** Active **Progress** 69 % **Rock Products Committee** YES

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

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

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

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Develop project scope and identify deliverables	Asphalt	11/1/2005	5/4/2007	100	100	Completed. 5/4/07
# 2	Construct and monitor test sections with material testing	Chico	6/1/2007	12/30/2013	100	100	Draft report completed.
# 3	MTAG Update Fog Seal by State Forces	Asphalt	9/1/2008	4/1/2010	100	100	Completed MTAG update for State Forces 4/10/10
# 4	Develop Draft Specifications (SSP)	Asphalt	10/1/2011	9/30/2014	50	95	On hold until new testing equipment for CT 342 is completed.
# 5	Second round construct and monitor test sections with material testing	Chico	4/1/2013	8/15/2014	95	100	Chico is working on report for 2013 projects.
# 6	Develop New Testing Equipment for California Test 342T	Road Mat	4/1/2014	12/30/2014	50	45	Plans being created based on prototype.
# 7	MTAG Update	Asphalt	1/1/2015	4/1/2015	0	0	No progress to date.
# 8	Training and Outreach including MTAG	Asphalt	3/1/2015	6/30/2014	0	0	

Log 4 sets of test section have been done.
The subtask group needs to draft their proposed specification
1/13/11, lrouen update targets and Pys
2/14/11, Update target dates and task definitions, PJV
4/25/11 - Status Update, SR
5/6/11-Updated Status and Tasks definitions,held last Fog Seal Meeting 5/5/11, DM
6/24/11-Updated Status and next General Meeting of Seal Coat Committte is 7/7/11, DM
9/6/11-Cores for testing were delivered to APART on 7/8/11, DM

10/12/11-Draft Report on test sections delivered to Caltrans, still waiting for skid test results and some additional pavement tests for report to be complete. Doug will check with districts to see if request for skid test was placed and status. DM

10/13/11-Fog Seal meeting held 10/13/11. Proceeding with a generic specification. Subtask group will meet 10/24/11 to review and finalize generic test requirements for each category type. DM
Location of Test Sites:
Kern 58 PM 123.3 to 125.1 Eastbound #2 Lane -District 9
Men 128 PM 25.0 to 28.0 Eastbound Lane- District 1
Modoc 395 PM 23.3 to 25.0 Northbound Lane -District 2
Inyo 395 PM 118.47 to 120.58 Northbound #2 Lane - District 9

11/23/11-Subtask group met 10/24/11 to finalize final test requirements for the development of the generic spec. John Fox will type up the first draft for the committee to review and comment on. Doug will send out once converted to

plain language format.DM

5/30/12-John Fox sent in first draft of the fog seal specification. Specification was given to Peter Vacura for review. Vacura's staff and CP2 are doing testing on materials in place fog seals to aid with general specification. DM

03/27/13 CDS Updated overall progress, activities planned and deliverables. Added second round evaluation to deliverables.
04/29/13 CDS Updated overall progress, activities planned and deliverables.
7/11/14 - Sri updated deliverable #6

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

Target Completion Date 9/15/2014 **Number** 5 **Status** Active **Progress** **40 %** **Rock Products Committee** YES

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

Overall Progress Surface Seals Sub Task Group meeting held on April 28, 2014. Industry continues to work towards a performance specification.

Activities Planned Industry will develop rubber slurry seal emulsion table and provide it to Caltrans by next Sub Task Group meeting for inclusion in specification.

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Create NSSP	Asphalt	6/1/2009	10/31/2012	100	100	Was completed but revising to include attempt to account for REAS strategy.
# 2	Construct D-11 Test Section	District	2/15/2011	7/29/2011	100	100	Completed
# 3	Evaluation of D11 project site	Chico	8/1/2011	8/1/2013	100	100	Plan to visit in Summer/Fall 2012.
# 4	Construct D6 Test Section	District	7/1/2011	12/1/2011	100	100	Construction completed
# 5	Evaluation of D6 project site	Chico	12/1/2011	8/1/2013	100	100	Evaluated June 2012. Update report.
# 6	NSSP	Asphalt	1/1/2013	9/1/2014	20	95	Attempting to develop spec with language to account for perfromance
# 7	MTAG Guidelines	Chico	1/1/2013	9/15/2014	0	95	Waiting for SSP development.
# 8					0	0	

Log 9-1-2010, two REAS project are expected to be done this year, 11-277804 and 07-4Y3204. Need to plan projects for other methods.
5/13/11 - Updated Status, PJV
6/24/11-Updated Status and held focused rubberized slurry seal meeting 6/17/11, next General Meeting of Seal Coat Committte is set for 7/7/11, DM

7/6/11-Test Site Location D11 - EA 11-277804, EFIS 11-00000288
In San Diego County at Rincon, Lake Henshaw and Morettis from Valley Center Road to Route 79.
11-SD-76-PM 32.9/52.3

Test Site Location D6 - EA 06-0J4904, EFIS 06-00000184
IN KERN AND KINGS COUNTIES ABOUT 6 MILES SOUTH OF KETTLEMAN CITY FROM ROUTE 46/5 SEPARATION TO 2.9 MILES NORTH OF WATERLOO AVENUE
06-Ker/Kin-05-73.0/87.0,0.0/10.0 (Project location was modified, test sections will be the first mile and last mile of the project)

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

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

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

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

10/30/13 CDS Updated activities planned.
04/29/14 CDS Updated overall progress, activities planned and deliverables.

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

Target Completion Date 10/15/2014 **Number** 6 **Status** Active **Progress** **81 %** **Rock Products Committee** YES

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

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

Activities Planned Present final Modified Binder Seal Coat specification at next Sub Task Group meeting July 22, 2014.

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

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Develop 2006 NSSP	Asphalt	12/1/2008	12/1/2010	100	100	2006 NSSP completed and used on pilot projects.
# 2 Pilot Projects	Asphalt	12/1/2008	12/1/2012	100	100	Completed.
# 3 Complete SSP	Asphalt	12/3/2012	10/15/2014	92	90	Draft 2010 SSP circulated and comments received.
# 4 Update Guidelines	Asphalt	12/3/2012	1/15/2014	25	150	Draft guidelines are being developed.
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log Test section have been completed in district 11.
NSSP is currently in use.
1/13/11, lrouen, updated Pys
2/9/11, Added nSSP deliverable
5/6/11, Modified order of deliverables, DM
6/25/11, Next General Meeting of Seal Coat Committte is set for 7/7/11, DM
9/6/11, General Meeting held 7/7/11. Modified order of deliverables based on committee comments, DM
9/21/11, Modified Project Name to Modified Binder Chip Seal. DM
10/13/11, Industry has uploaded previous project locations of State, County and Local Agencies projects utilizing the Modified binder chip seal for historic information. Caltrans needs to evaulate performance of site locations. DM
11/23/11, Held general meeting 11/14/11, have not held a focused subtask meeting on this. At general meeting, decision was to look into this next year as we finsh off the rubber slurry, sand and fog & rejuvenator specs.DM
03/27/13 CDS Updated overall progress, activities planned and deliverables.
10/30/13 CDS Updated overall progress, activities planned and deliverables.
04/29/14 CDS Updated overall progress, activities planned and deliverables.
06/27/14 CDS Updated overall progress, activities planned and delierables % complete.

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

Target Completion Date 1/1/2016 **Number** 8 **Status** Active **Progress** **26 %** **Rock Products Committee** YES

Purpose Introduce WMA technology into asphalt rubber chip seal strategies.

Overall Progress Pilot project on SR 36 near Red Bluff completed. Pilot project on SR 44 near Lassen Park delayed until the summer of 2014 because of weather. Pilot project on SR 95 near Needles starts on July 18, 2014.

Activities Planned Resume the pilot project on SR 44. Construct the pilot project on SR 95. Looking for additional pilot projects.

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	NSSP	Asphalt	8/3/2010	1/18/2013	100	100	Developed.
# 2	Pilot Projects	District	1/2/2013	6/30/2014	50	105	One pilot project on SR 36 completed in District 2.
# 3	Evaluation of Project	Chico	5/2/2013	10/1/2014	5	90	First pilot project on SR 36 for an 8-month field evaluation completed in May 2014.
# 4	Evaluation Report	Asphalt	7/1/2013	12/1/2014	0	75	For the SR 36 project, the construction report and the 8-month field evaluation report received.
# 5	SSP	Asphalt	7/1/2014	1/1/2016	0	5	
# 6					0	0	
# 7					0	0	
# 8					0	0	

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

10/30/13 CDS Updated project progress and deliverables.
7/16//14 - HZ Updated project progress and deliverables.

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

Target Completion Date 12/31/2014 **Number** 14 **Status** Active **Progress** 99 % **Rock Products Committee** YES

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

Overall Progress Coordinated with UCPRC on final revisions for NGCS final report and on the status update of the fourth year rigid pavement QPR draft report. UCPRC delivered NGCS Final report.

Activities Planned UCPRC extended delivery of the fourth year rigid QPR draft report from June 30 to August 31, 2014.

Project Lead Linus Motumah **Office** Concrete Pavement **Phone** 916-227-5851 **E-FIS Project** **E-FIS Subtask Number**

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	NSSP for NGCS	Conc Pvmt	7/1/2008	1/1/2010	100	100	COMPLETED. Approved subject to revisions on a case-by-case basis as needed.
# 2	Identify potential projects for NGCS pilot test sections	Conc Pvmt	1/1/2011	6/30/2011	100	100	COMPLETED.
# 3	Finalize rigid QP research first and second year report.	UCPRC	7/1/2010	10/31/2011	100	100	COMPLETED. Final report published and signed by UCPRC and Caltrans.
# 4	Complete rigid QP research third year data collection & report.	UCPRC	7/1/2010	12/31/2012	100	100	COMPLETED. Third year final report published on 4/2/13.
# 5	Complete rigid QP research fourth year data collection &	UCPRC	7/1/2011	12/31/2014	95	90	UCPRC to deliver draft report by 8/31/14 and final report by December 31, 2014.
# 6	Evaluation of OBSI and texture characteristics of NGCS pilot test sections.	UCPRC	5/1/2011	6/30/2014	100	100	COMPLETED. UCPRC delivered final report 6/30/14. The findings of this research study will be used to update the 2009 Pavement Policy for Quieter Pavement Strategies for Noise Sensitive Areas and the 2010 nSSP for NGCS Grind and Groove Quieter Pavements.
# 7	Develop work plans for field evaluation of NGCS pilot test sections (Sac 5n, Sac 5s, Sac 50, Sac 80, Yol 113, SJ 99 & SD 5)	UCPRC	5/1/2011	7/19/2013	100	100	COMPLETED. Development of work plans by UCPRC in collaboration with Pavement Program completed.
# 8					0	0	

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

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

11 07760 SD 5 R36.35 R37.35 "NB from PM R36.35 to R37.35 SB from PM R37.35 to R36.35"
CDG Completed in 2011 - different contract. NGCS pilot project completed June 2012. COMPLETED
report.
SUMMARY
1) UCPRC delivered NGCS final report on June 30, 2014. COMPLETED.
The findings of this research study will be used to update the following:
i) The 2009 Pavement Policy Bulletin - Quiter Pavement Strategies for Noise Sensitive Areas
ii) The 2010 nSSP for NGCS Grind and Groove Quieter Pavements
iii) Grind and Groove section of the Concrete Pavements Guidance

2) UCPRC to deliver Fourth Year QPR study draft report by August 31, 2014.

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

Target Completion Date 10/30/2015 **Number** 16 **Status** Active **Progress** **46 %** **Rock Products Committee** YES

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

Overall Progress Second year data resubmitted. Met with consultant and industry about testing. Coordinating with D3 for 03-4M8404 NEV-80 pilot project.

Activities Planned Coordinate pilot projects and testing for 2014 construction season. Develop test plan and task order. 3rd year APCS data collection planned for late August.

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

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Cost analysis and nSSP	Conc Pvmt	7/2/2012	11/30/2012	100	100	Drafted hardener nSSP and PIF.
# 2 Pilot projects	District	7/30/2012	10/30/2015	80	60	Hardener placed on Sept 11-12/12 WB at Kingvale 03-4M3004; 03-Pla,Nev-80-68.8/69.8, 0.0/R2.5. Shot blasting and retreatment of original 2009 Soda Springs test section on Oct 9-10. Grind/ shot/ treat on 03-4M8404 Nev-80 Boca-Floriston Summer 2014.
# 3 Test plan	Conc Pvmt	7/25/2012	8/29/2014	55	95	Developing plan with industry to pursue testing and evaluation by task order.
# 4 Materials issues	Materials	1/7/2013	12/31/2014	40	80	Review product info, patents, and standard tests.
# 5 SSP	Conc Pvmt	6/3/2013	6/30/2015	40	55	nSSP update for materials and construction issues. Resolve legal issues related to patents.
# 6 Guidance	Chico	11/3/2014	3/2/2015	5	0	Concrete Pavement Guide and Construction Manual.
# 7 Performance reports	Chico	10/1/2012	2/1/2015	15	80	Evaluation delayed due to resource issues.
# 8 Training material	Conc Pvmt	1/2/2015	6/30/2015	0	0	TBD

Log 8/3/2010- October 2009, a section of PCC pavement on I-80 near Soda Springs was treated with this material
Cores taken October 2010.
3/23/11, lrouen, update deliverables and schedules
4/8/11, d glauz, revised progress, purpose and need.
5/15/12 Draft scoping doc sent to work group
5/30/12 Updated database
7/30/12 Updated database to reflect latest scoping doc
8/13 Received revised year 1 task order submittal.

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

Target Completion Date 3/31/2015 **Number** 17 **Status** Active **Progress** **21 %** **Rock Products Committee** YES

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

Overall Progress Prepared a summary of properties and performance specifications of 3 viable joint filler materials. Held meeting on June 25 to discuss material properties and performance factors and the industry reps to highlight field applications of the 3 materials.

Activities Planned Continue to collaborate with the industry reps on properties and specifications for viable filler materials for wide longitudinal joints.

Project Lead Linus Motumah **Office** Concrete Pavement **Phone** 916-227-5851 **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1 Literature Search	Conc Pvmt	10/1/2013	1/31/2014	100	100	Completed pending write up.
# 2 Properties for Joint Fillers	Conc Pvmt	2/1/2013	6/30/2014	100	100	Compiled a list of joint filler materials properties.
# 3 Joint Filler Performance	Conc Pvmt	5/1/2014	9/30/2014	60	65	Compile a list of joint filler materials performance standards on progress.
# 4 Draft SSP	Conc Pvmt	10/1/2014	10/31/2014	0	0	
# 5 Pavement Guidance	Conc Pvmt	11/1/2014	11/30/2014	0	0	
# 6 Final SSP	Conc Pvmt	12/1/2014	12/31/2014	0	0	
# 7 Authorized Materials List	Str Mat	1/1/2015	3/31/2015	0	0	
# 8				0	0	

Log 9/26/13: Sub-task group meeting
3/27/14: Sub-ask group meeting.
6/25/14: Sub-ask group meeting.
Next meeting scheduled for 9/24/14

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

Target Completion Date 6/30/2015 **Number** 18 **Status** Active **Progress** **50 %** **Rock Products Committee** YES

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

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

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

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Scoping document	Conc Pvmt	7/1/2011	10/1/2013	100	100	Complete.
# 2	Develop pre-qualified products list for concrete patching materials. 2 phases: fast-setting will be followed by polymer list. Schedule TBD.	Materials	1/1/2012	9/5/2014	75	95	METS has developed preliminary QPL criteria for fast-setting. Working on polymeric.
# 3	Update standard spec for material properties	Conc Pvmt	9/9/2013	4/17/2015	10	55	Incorporate materials updates for pre-qualified products list.
# 4	Update spall repair guidance -	Conc Pvmt	7/1/2013	6/30/2015	65	55	Revise Concrete Pavement Guide for materials, design, and spec changes.
# 5	Update spall repair training	Conc Pvmt	12/1/2014	6/30/2015	0	0	Revise or develop training material for materials, design, and spec changes.
# 6					0	0	
# 7					0	0	
# 8					0	0	

Log This items includes hot applied PM resin. Requested by John Roberts of IGGA.
5/11/2010-pre-proposal submitted to CP2 innovation database

Project **CRCP Punchout Repair** **Task Group** Preservation **Subtask Group** Concrete Repairs

Target Completion Date 9/30/2014 **Number** 19 **Status** Active **Progress** **90 %** **Rock Products Committee** YES

Purpose Develop standard plans and specs to repair punchouts when they occur in CRCP. Assure that repair of punchouts will meet the intended purpose for preserving the design life of the CRCP.

Overall Progress Draft standard plan drawing and nSSP is ready for use.

Activities Planned Develop concrete pavement repair guide for CRCP punchout repair.

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

	Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1	Scoping Document	Conc Pvmt	7/1/2013	10/1/2013	100	100	Scoping document approved.
# 2	Review other states practice of punch out repairs.	Conc Pvmt	7/1/2013	8/31/2013	100	100	Complete.
# 3	Develop draft New Standard Plan and nSSP for punch out repair.	Conc Pvmt	9/1/2013	4/30/2014	100	100	Draft Plan and NSSP have been developed for review.
# 4	Send draft standard plan and nSSP for review.	Conc Pvmt	2/1/2014	4/30/2014	100	100	Second draft of standard plans and SSP has been sent for review.
# 5	Address comments and finalize specs and nSSP.	Conc Pvmt	5/1/2014	7/30/2014	100	100	To address second review/comments.
# 6	Approval by owner.	Conc Pvmt	8/1/2014	8/30/2014	92	15	Standard plan and nSSP ready for use.
# 7	Develop concrete pavement repair guide for punchout repair.	Conc Pvmt	7/1/2014	9/30/2014	0	40	Under development
# 8					0	0	

Log 120513- sent draft standard plan (P9) and nSSP 41-11 to HQ-OE and Construction for review/comments.
042514- sent draft standard plan (P9) and nSSP 41-11 to HQ-OE and Construction for review/comments.
061114- Draft standard plan (P9) and nSSP 41-11 have been approved for use.

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

Target Completion Date **Number** 20 **Status** Active **Progress** **0 %** **Rock Products Committee** YES

Purpose Update Standard Specifications sections 37–1, 37-2 and 37-3 to include current terminology, practice and industry standards.

Overall Progress

Activities Planned Update Standard Specifications sections 37–1, 37-2 and 37-3 to include current terminology, practice and industry standards.

Project Lead **Office** Asphalt Pavement **Phone** **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1				0	0	
# 2				0	0	
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log

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

Target Completion Date **Number** 21 **Status** Active **Progress** **0 %** **Rock Products Committee** YES

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

Overall Progress

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

Project Lead **Office** Asphalt Pavement **Phone** **E-FIS Project** **E-FIS Subtask Number**

Deliverable or Task	Office	Start Date	End Date	Complete %	Elapsed %	Status
# 1				0	0	
# 2				0	0	
# 3				0	0	
# 4				0	0	
# 5				0	0	
# 6				0	0	
# 7				0	0	
# 8				0	0	

Log