

Pavement & Materials Partnering Committee

Work Product Scoping Document

New

2021 Section 37 Fog Seals Update

August 3, 2021

Task Group

Pavement Preservation Subtask Group,
Asphalt Task Group

Problem Process

- Annual
- Expedited
- Emerging Initiative

Title

2021 Section 37 Fog Seals Update

Statement of Effort/Improvement

The 2018 Standard Specifications Section 37-4 includes specifications for placing fog seals and flush coats. The working group would evaluate Section 37-4 to resolve the following issues that have been identified in the past:

- Review past performance of fog seal design/ construction practices.
- Review and possibly include specification language from the maintenance districts on the use of rejuvenating fog seals.
- Compare updated AASHTO specifications with Caltrans' for consistency and other improvements.

Purpose

The purpose is to review Section 37-4 of Standard Specifications and Standard Special Provisions (SSP) to make the necessary modifications or corrections to increase the use of fog seals statewide. The revisions may include terminology and minor specification changes.

Background

Fog seals are an important and proven method in pavement preservation. However, an updated method to design and/or place fog seals is needed to ensure improved safety to the traveling public. AASHTO is currently revising their Fog Seal Design and Construction Practice documents. As such, the Department may need to revise our specifications to be consistent with AASHTO. There may also be changes and technical improvements in the pavement preservation industry that need to be evaluated for possible adoption into the specifications.

Approach

1. Street Ready Assurance

The working group will work with Industry, Construction, METS, and Asphalt Pavements to review the existing specifications for any technical issues on the specifications and test methods. Then circulate the revised specification for comments from Industry, Construction, Design, and METS personnel.

2. Performance Tracking/Management

Periodic reviews by subtask group to ensure that changes are not creating problems for Construction or Industry.

3. Consistently Implemented

Work with Industry, Construction, METS, and Design to provide a transmittal memo and Construction manual update on the changes made to Section 37 to the districts.

4. Pilot Projects

Pilot projects may be necessary.

5. Research Needs

Some research may be necessary.

Team Members (Indicate CT Chair and Industry Lead)

CT / Industry	Division / Firm Name	Member Name
CT – Chair	Asphalt Pavement	Steve Lee
Industry – Lead	Ergon	Todd Vargason
Caltrans	METS	Guadalupe Magana
Caltrans	District-Maintenance	John Fox
Caltrans	Construction	Ragu Thangavelautham
Industry	American Pavement Systems	Dave Pimley
Industry	Western Emulsions	Matt Conarroe
Industry		

Team should not include any more than 4 Caltrans staff and 4 members from Industry. See PMPC Standard Operating Procedures for more information.

Objectives/Deliverables/Due Dates

Description:

The objectives are:

- Review technical content of Section 37 of the Standard Specifications and determine if any technical changes are warranted.
- Streamline specifications (if necessary) and recommend revisions to test methods to newer versions of AASHTO/ASTM.

The deliverables necessary to accomplish these objectives are:

- Updated Section 37 of the Standard Specifications
- Identify and report key practice changes for Caltrans and Contractors to the ATG
- Recommendation for revisions of Test Methods

Details:

Milestones	Name - Responsible Party	Due Date (Start/Complete)
1. Compare updated AASHTO specifications with Caltrans	WTG	09/01/2022 – 12/31/2022
2. Resolve Comments and/or Reach Consensus on Technical Content for Section 37	WTG	12/01/2022 – 02/28/2023
3. Complete Draft Section 37 Revised Standard Specifications & SSPs and circulate for comments	PPSTG Chair	02/01/2023 – 04/30/2023
4. Resolve Comments and/or Come to Consensus	WTG	06/30/2023
5. Report key changes to ATG	PPSTG Chair	07/30/2023
6. Finalize Section 37 Revised Standard Specifications & SSPs and Send to OCCS	PPSTG Chair	09/30/2023

Milestones	Name - Responsible Party	Due Date (Start/Complete)
7. Document justifications of changes and develop report to ATG and EC	WTG	10/31/2023
8. Final report	WTG	11/30/2023
9. Training and guidance	All	01/31/2023 – 03/31/2023

*Some milestones listed above may not be necessary; final report is mandatory.

Resources To Develop and Implement

Work Scope	Caltrans Hours	Industry Hours
Development Collect and resolve comments, develop revised Section 37	400	400
Implementation Finalize Section 37 Revised Standard Specifications, obtain stakeholder approval, and send RSS to OCCS for posting	200	80

Benefits

The benefits after the completion of this work product are:

- Through this effort, we can increase the use of fog seals statewide, to continue to be a safe and reliable method for pavement preservation.
- These efforts are in line with the Department's goal of Organizational Excellence and reinforces the Department's efforts to be the national leader in delivering quality projects.

Estimated Impact to Caltrans and Contractor

- Provide consistency in specifying test requirements for fog seals.
- Update Section 37 for technical content.
- Provide additional clarity to the use of fog seals associated with Section 37 practices.

Impediments to Completion of Deliverables

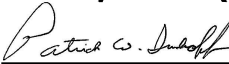


- Caltrans and Industry Resources: Busy schedules, construction seasons, and other projects
- Lack of data or expertise to verify technical content
- AASHTO draft fog seal documents are not completed in a timely manner
- Lack of pilot projects

Recommendation and Approval

This scoping document for “2021 Section 37 Fog Seals Update” was prepared by the *Pavement Preservation Subtask Group* to address a priority issue with statewide significance and is within the Pavement & Materials Partnering Committee mission as described in the Pavement & Materials Partnering Committee Charter. The Subtask Group members have determined the scope, resources required and timeline for delivery of this project so that the deliverables are achievable. A signature here indicates that each Task Group and PMPC Executive Committee is committed to providing the resources to support this effort within the prescribed timeframes. Furthermore, it is everyone’s responsibility to ensure that the final effort/improvement will be:

- 1) Street-Ready,
- 2) Monitored and reported for performance,
- 3) Successfully implemented statewide as appropriate.

Scoping Document Recommendation and Industry Concurrence by PMPC TG:

Caltrans Name (Recommendation)		Industry Name (Concurrence)	
<i>Cathrina Barros</i>	05/19/2022		05/19/2022
Cathrina Barros, Acting Caltrans Task Group Chair Office of Asphalt Pavements	Date	Pat Imhoff Industry Task Group Member	Date
<i>Jal Wong</i>	06/01/2022	<i>Phillip Reader</i>	05/23/2022
Jacquelyn Wong Caltrans Task Group Member Office of Central Laboratories	Date	Phil Reader Industry Task Group Member	Date
	05/27/2022		06/02/2022
Joseph Dongo, Acting Caltrans Task Group Member Office of Construction Standards	Date	Scott Dmytrow Industry Task Group Member	Date
		<u><i>Dennis McElroy</i></u>	06/06/2022
		<small>Dennis McElroy (Jun 6, 2022 08:41 PDT)</small>	
		Dennis McElroy Industry Task Group Member	Date

Pavement & Materials Partnering Committee
 Scoping Document
Pavement Preservation Subtask Group
 2021 Section 37 Fog Seals Update
 August 3, 2021

Scoping Document Approval and Industry Concurrence by PMPC EC:
Caltrans Name (Recommendation) **Industry Name (Concurrence)**

<p><i>Tom Pyle</i> <hr/> Tom Pyle Caltrans Executive Committee Chair Pavement Program</p>	<p>06/10/2022 <hr/> Date</p>	<p><i>Brandon Milar</i> <hr/> Brandon Milar Industry Executive Committee Member</p>	<p>06/09/2022 <hr/> Date</p>
<p><i>Raymond D. Tritt</i> <hr/> Raymond Tritt Caltrans Executive Committee Member Construction</p>	<p>06/16/2022 <hr/> Date</p>	<p><i>Charles Rea</i> <hr/> Charles Rea Industry Executive Committee Member</p>	<p>06/09/2022 <hr/> Date</p>
<p><i>Gudmund Setberg</i> <hr/> Gudmund Setberg Caltrans Executive Committee Member Structure Design</p>	<p>06/09/2022 <hr/> Date</p>		
<p><i>Keith Hoffman</i> <hr/> Keith Hoffman, Acting Caltrans Executive Committee Member Materials Engineering and Testing Services</p>	<p>06/09/2022 <hr/> Date</p>	<p>Approval Date: <u>06/16/2022</u></p>	











2021 Section 37 Fog Seals Update - August 3, 2021

Final Audit Report


2022-06-16

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-  Document created by Ian Sun Chee Fore (s139817@dot.ca.gov)
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-  Document emailed to Tom Pyle (tom.pyle@dot.ca.gov) for signature
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