



Paint – General

Revision and Approval

Revision	Date	Nature of Changes	Approved By
0	04-30-2021	Original Issue	Michael Francis

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Background

This process establishes Structure Construction (SC) roles and responsibilities for review and authorization of paint furnished for structure work, including quality assurance and materials.

This process addresses review and authorization of paint materials. Processes in the *Contract Specifications*, Sections 59, *Structural Steel Coatings* and 78-4, *Incidental Construction – Miscellaneous Coatings*, describe how the authorized paint materials are applied.

Prior to reviewing this Bridge Construction Memo (BCM), it is essential to review the [Contract Specifications](#), Section 91-1, *Paint – General*, that this BCM is based on as identified in the title block above. The information in the *Contract Specification* typically will not be repeated in the text of this BCM.

Process Inputs

1. Contract documents requiring painting
2. [Form CEM-3101](#), *Notice of Materials to be Used*
3. Baseline Critical Path Method (CPM) schedule and updates

Procedure

1. All work associated with this process is charged as [Project Direct – Construction](#).

2. Inspection of field work for this process is:
 - a. [Benchmark](#) for review and authorization of paint furnished for structure work, including quality assurance, and materials.
3. Before construction begins:
 - a. Review the contract documents for paint material, paint color, and aesthetic requirements.
 - b. Review the *Construction Manual*:
 - i. [Table 6-2.1](#), *Inspection of Fabricated and Manufactured Materials* (3 of 5), for paint.
 - ii. [Section 6-2.03A \(6\)](#), *Sampling and Testing – Acceptance of Manufactured or Fabricated Materials and Products – Manufactured or Fabricated Materials and Products Acceptance – Source Inspection – Materials Manufactured to Caltrans-Specified Formulation*.
 - c. Review Materials Engineering and Testing Services (METS) *Quality Assurance Source Inspection* (QASI) Manual, [Section 91](#), *Paint*, for information on the Paint Sampling Process.
 - d. Contact the Project Architect, the Landscape Architect, and/or the Designer to discuss color, material, and aesthetic requirements.
 - e. Contact the METS, [Chemical Testing Laboratory](#) to:
 - i. Review paint-related items that should be discussed at the preconstruction conference.
 - ii. Invite the METS Representative to the preconstruction conference.
 - f. If a pre-painting meeting is not specified by the contract, contact the contractor to discuss Form CEM-3101, *Notice of Materials to be Used*, quality assurance, and the material requirements with respect to the baseline CPM schedule and updates.
 - g. Review Form CEM-3101, *Notice of Materials to be Used*, received from the Contractor. If complete, the RE forwards Form CEM-3101 to the METS Materials Administrator according to the detailed instructions on Form CEM-3101.
 - h. Verify that METS received Form CEM-3101.
 - i. When the authorized paint is received at the jobsite, the Structure Representative (SR):
 - i. Requests the Contractor to provide the laboratory test report on that batch of paint.

1. If the Contractor is unable to obtain a copy of the test report from the paint manufacturer, provide the batch number (refer to [QASI Manual Section 91, *Paint*](#), for illustration) to the METS Representative, who will check with METS Chemical Testing Branch (CTB) to determine whether the test report was received.
 - ii. Verifies the *Certificates of Compliance* and [Form TL-28, *Notice of Materials to be Inspected at Job Site*](#).
 - iii. Releases the material at the jobsite via [Form CEM-4102, *Material Inspected and Released on Job*](#).
4. During construction:
 - a. Before paint is applied:
 - i. Verify paint containers and the condition of the paint are in accordance with the detailed requirements in *Contract Specifications*, Section 91-1.02, *Paint – General – Materials*.
 - ii. Verify the paint is the same paint that arrived on the jobsite.
 - b. Field sampling of paint is not required unless the Resident Engineer (RE)/SR suspect something is wrong with the paint (paint exhibits hard settling, or potential contamination, or other deficiencies). In that case, the SR should:
 - i. Notify METS Representative immediately.
 - ii. Obtain quart size sampling paint cans from the Construction field office.
 - iii. Obtain sample and sample size in accordance with *Construction Manual, Section 6-2.03C (5), Sampling and Testing – Acceptance of Manufactured or Fabricated Materials and Products – Materials Accepted on the Basis of Certificate of Compliance – Paint*.
 - iv. Send the paint sample with Form [TL-0101, *Sample Identification Card*](#), to METS-CTB for testing.
 - v. After METS-CTB tests the field sample, receive test results sent to the RE and the manufacturer.
 - c. Document all inspection, construction, and quality assurance activities, pertinent to this BCM, in the daily reports per [BCM C-7, *Daily and Weekly Reports*](#).
5. File all test results and daily reports in the appropriate category in the project records as specified in the *Construction Manual, Section 5-102, Contract Administration – Project Records and Reports – Organization of Project Documents*.

Process Outputs

1. Paint test results
2. Certificates of compliance

Attachments

None