

ORIGINATION FORM
Proposed Revisions to the Specifications

Date:

Specification Section:

Originator:

Articles/Subarticles:

Telephone:

email:

Why does the existing language need to be changed?

Summary of the changes:

Are these changes applicable to all Department jobs? Yes No
If not, what are the restrictions?

Will these changes result in an increase or decrease in project costs? Yes No
If yes, what is the estimated change in costs?

With who have you discussed these changes?

What other offices will be impacted by these changes?

Will this revision necessitate changes to the following: BOE PPM SDG CPAM

Design Standards **List Affected Index Nos.**

Other manual?

Are all references to external publications current? Yes No
If not, what references need to be updated (please include changes in the redline)?

Will this revision necessitate any of the following:

Design Bulletin

Construction Bulletin

Estimates Bulletin

Contact the State Specifications Office for assistance in completing this form.

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ANANTH PRASAD, P.E.
SECRETARY

MEMORANDUM

DATE: November 18, 2014
TO: Specification Review Distribution List
FROM: Daniel Scheer, P.E., State Specifications Engineer
SUBJECT: Proposed Specification: **5600502 Coating New Structural Steel.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Timothy Ruelke of the State Materials Office (SMO) to revise the language for consistency with changes proposed for Section 105. The Department is revising the Contractor Quality Control (QC) Plan requirements and deleting the narrative portion of the Contractor QC Plan. This change is being made in conjunction with the implementation of the Materials Acceptance and Certification system (MAC), which is replacing the current Laboratory Information Management (LIMS) application.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or online at <http://www2.dot.state.fl.us/SpecificationsEstimates/Development/IndustryReview.aspx> . Comments received after **December 16, 2014**, may not be considered. Your input is encouraged.

DS/dt
Attachment

COATING NEW STRUCTURAL STEEL.

(REV ~~10-29~~*11-7-14*)

ARTICLE 560-5 is deleted and the following substituted:

560-5 Quality Control (*QC*).

560-5.1 Shop Preparation and Application: Prior to applying coatings, provide a current Corporate Quality Control Plan approved by the American Institute of Steel Construction (AISC) under the Sophisticated Paint Endorsement Program or SSPC under the SSPC-QP3 certification to the State Materials Office for approval.

560-5.2 Field Preparation and Application: Provide a current Corporate ~~Quality Control~~ Plan approved by SSPC under the SSPC-QP1 and/or SSPC-QP2 certifications as appropriate and a site specific Coating ~~Quality Control~~ Plan *in accordance with SSPC requirements* to the Engineer at least 14 calendar days prior to beginning coatings work. Do not begin coatings work until the site specific Coating ~~Quality Control~~ Plan has been approved by the Engineer.

560-5.3 Inspection: Ensure that all inspection equipment is maintained in accordance with the manufacturer's instructions, calibrated, and in good working condition. Ensure that all activities are observed and approved by a quality control coatings inspector meeting the requirements of this Section. Maintain daily inspection reports at the job site for review by the Engineer. Provide all daily inspection reports upon completion of the project to the Engineer or more frequently as requested by the Engineer.

ARTICLE 560-6 is deleted and the following substituted:

560-6 Qualifications.

560-6.1 Shop: Provide documentation to the Engineer at least 14 days prior to beginning work that the shop performing any work in accordance with this Section is certified by AISC Sophisticated Paint Endorsement or by SSPC to the requirements of SSPC-QP3.

560-6.2 Field Contractor: Provide documentation to the Engineer at least 14 days prior to beginning work that the field contractor performing any work in accordance with this Section is certified by SSPC to the requirements of SSPC-QP1 and/or SSPC-QP2 as appropriate.

560-6.3 Quality Control (*QC*) Inspectors in the Shop and Field: Provide documentation to the Engineer that all personnel performing quality control inspections are *employed by the Contractor performing coating operations and are* certified at a minimum as a National Association of Corrosion Engineers (NACE) Coating Inspector Level I or a SSPC Level 1 Bridge Coating Inspector and that they report directly to a ~~Quality Control~~ Supervisor who is *also employed by the Contractor performing coating operations and is* certified either as a NACE Coating Inspector Level 3 or a SSPC Level 2 Bridge Coating Inspector.

560-6.4 Certifications: Maintain certifications for the duration of the Contract. If the certifications expire, do not perform any work until certifications are reissued.

Notify the Engineer of any change in certification status.

SUBARTICLE 560-9.3 is deleted and the following substituted:

560-9.3 Sealing Using Caulk: Apply caulk after the intermediate coat has cured to a condition suitable for recoating in accordance with the manufacturer's product data sheet, and before application of the finish coat. Completely seal the perimeter of all faying surfaces, cracks and crevices, joints open less than 1/2 inch, and skip-welded joints using caulk. Apply the caulk to the joint following the caulk manufacturer's recommendations. Ensure the caulk bead has a smooth and uniform finish and is cured according to the caulk manufacturer's curing schedule prior to the application of the finish coat. It is unnecessary to caulk *the perimeter of faying surfaces unless otherwise directed by the Engineer. In addition, it is unnecessary to caulk* cracks ~~and-or~~ crevices less than 0.003 inches in width, located on the interior surface area of box girders.

SUBARTICLE 560-9.7 is deleted and the following substituted:

560-9.7 Stripe Coating: *Use an aluminum epoxy mastic that is at least 80% solids by volume. Apply a stripe coat after the prime coat, but prior to applying the intermediate coat. Also apply a stripe coat after the intermediate coat but prior to the finish coat. Apply the stripe coat per the manufacturers published product data sheet but no less than 3 mils dry film thickness.* Apply ~~stripe coats for both intermediate and finish~~ *prime* coats ~~to~~ *must* achieve complete coverage ~~and proper thickness~~ on welds, corners, crevices, sharp edges, bolts, nuts, rivets, and rough or pitted surfaces. A stripe coat of translucent coating is not required. Do not apply subsequent coats until the previous stripe coat has cured per the manufacturer's product data sheet for recoating. Stripe coating is not required for the inside surface area of all steel box girders.