

## ORIGINATION FORM

**Date:** 10/26/2011

**Originator:** Paul Vinik

**Contact Information:** 352-955-6649

Paul.vinik@dot.state.fl.us

**Specification Title:** Coating Existing Structural Steel

**Specification Section, Article, or Subarticle Number:** 561-10.3

**Why does the existing language need to be changed?** The existing language was deemed ambiguous and confusing by the State Structures Design Office.

**Summary of the changes:** Reworded the language to clarify the intent.

**Are these changes applicable to all Department jobs? If not, what are the restrictions?** All jobs.

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

**With who have you discussed these changes? State Structures Design and State Construction Offices.**

**What other offices will be impacted by these changes?** I don't think these changes will affect other offices than those mentioned above.

**Are changes needed to the PPM, Design Standards, SDG, CPAM or other manual?** No.

**Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed?**No.

Contact the State Specifications Office for assistance in completing this form.  
Rudy Powell 850-414-42820 [rudy.powell@dot.state.fl.us](mailto:rudy.powell@dot.state.fl.us)  
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## *Florida Department of Transportation*

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ANANTH PRASAD, P.E.  
SECRETARY

### MEMORANDUM

**DATE:** November 16, 2011

**TO:** Specification Review Distribution List

**FROM:** Rudy Powell, Jr., P.E., State Specifications Engineer

**SUBJECT:** Proposed Specification: **5611003 Coating Existing Structural Steel – Containment System.**

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

This change was proposed by Paul Vinik of the State Materials Office, at the request of the State Structures Office, to clarify requirements for performing a structural analysis of the existing bridge to determine the impacts of the proposed containment system.

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 to my attention via e-mail at SP965RP or rudy.powell@dot.state.fl.us. Comments received after **December 15, 2011**, may not be considered. Your input is encouraged.

RP/dt  
Attachment

**COATING EXISTING STRUCTURAL STEEL – CONTAINMENT SYSTEM.**  
**(REV ~~10-2611-16-11~~)**

SUBARTICLE 561-10.3 (of the Supplemental Specifications) is deleted and the following substituted:

**561-10.3 Containment System:** Submit a written containment system design plan in accordance with this section and the contract documents at the pre-construction conference or as directed by the Engineer which clearly describes the proposed containment system applicable to the intended removal method and in accordance with the requirements outlined herein and SSPC Guide 6, Guide for Containing Debris Generated During Paint Removal Activities. Ensure the plan includes, but is not limited to, removal method; methods for collecting debris; and containment enclosure components. Use fire retardant materials. Provide containment drawings, calculations, ~~and~~ assumptions, ~~including~~ ventilation criteria if applicable, ~~and a complete structural impact analysis that verifies the existing structure can withstand the additional dead, live and wind loads imposed by the containment system,~~ signed and sealed by a Specialty Engineer. However, for ~~more complex structures incorporating~~ cables stayed, suspension, ~~and/or truss bridges designs,~~ ~~or when the plans require it, provide containment drawings, calculations and assumptions signed and sealed~~ ~~the impact analysis must be performed~~ by ~~athe~~ Contractor's Engineer of Record qualified in Type Work Category- 4.3, Complex Bridge Design ~~or as required by the plans. Provide a complete structural impact analysis prepared by a Specialty Engineer to verify the existing structure can withstand the dead, live and wind loads imposed upon the structure due to the containment system.~~ Provide a contingency plan addressing natural weather events such as tropical storms and hurricanes. Ensure the lighting inside the containment is in accordance with SSPC Guide 12, Guide for Illumination of Industrial Painting Projects. Provide lighting to a minimum intensity of 10- ft-cd for general, 20- ft-cd for work, and 50- ft-cd for inspection. All drawings and calculations must be submitted and accepted before any work begins. Include a clear description of the ventilation system components and information including the fan curve and design point on the proposed dust collector. Design to provide ventilation according to the notes provided in SSPC Guide 6: 100 feet per minute for cross draft and 50-60 feet per minute for downdraft.

Isolate the immediate area of the structure to ensure compliance with current and permit requirements for air, water, soil, and pollution prevention. Protect the containment system from vehicular and pedestrian traffic. Ensure paint, paint chips, or other debris will not fall outside of the containment area under any circumstances. Repair any damage created by fastening, bracing, or handling the scaffolding and staging. If a suspended platform is constructed, use rigid or flexible materials as needed to create an air and dust impenetrable enclosure. Verify that the platform and its components are designed and constructed to support at least four times its maximum intended load without failure, with wire cables capable of supporting at least six times their maximum intended load without failure. Strictly comply with all applicable OSHA regulations regarding scaffolding. The category and class of containment shall be as required in the Contract Documents.