

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002414**Date Inspected:** 24-Feb-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** Lift 5 East, Lift 5 West, OBG 7DW, OBG 8C**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Lift 5 East

Internal repaired areas were visually inspected of undercoated repairs and also overlap areas were given a "Knife test" for adhesion in suspect areas and areas of over-blast/over-coated which exhibited Dry Film Thickness (DFT) in excess of specified value. Undercoated areas were tightly adherent to base metal and over-coated areas as well from Panel Point 36 to the end weld seam.

Lift 5 West

Internal repairs of the Side Plate floor areas and Bottom Plate as well as the East side Upper Corner Units were abrasive blasted to remove rust stain and corrosion from the previously coated surfaces and base metal. Base Metal was abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat re-applied. Profile amplitude was 79-84µm.

OBG 7DW

External base metal surfaces of the segment support contact surfaces were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied to the Bottom Plate.

OBG 8CE

External base metal surfaces of the segment support contact surfaces were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied to the Bottom Plate.

Cross Beam #4

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External surfaces which were previously undercoated which exhibited excessive Dry Film Thickness and displayed localized “Mud Crack” were re-abrasive blasted to base metal and subsequent re-application of Interzinc 22 undercoat after feathering of the periphery of the abrasive blasted repair areas. Concurrent with this repair the contact points of the Cross Beam supports areas were also abrasive blasted of rust and corrosion products of the base metal to an SSPC SP-10 condition and Interzinc 22 undercoat applied.

Sub-Assemblies

4-Test Panels (Caltrans request) and 24 Wind Vortex angle iron unit base metal surfaces were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied. Concurrent with this work Counterweight #30 which was contaminated after application of Interfine 979 “Mist” coating with Interzone 954 was repaired by removal of all previously applied coatings to base metal and an SSPC SP-10 condition and Interzinc 22 undercoat re-applied, this amends the repairs of the over-spray damages which were incurred.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

Summary of Conversations:

No relevant conversations on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Peterson,Art	QA Reviewer
