

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-002425**Date Inspected:** 10-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:** OBG 7EW, OBG 8CE, OBG 7DW, Sub-Asse**Bid Item:** 77, 78, 79**Lot No:****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 West

ZPMC resumed repair work on the Cross Beam termination areas which were incomplete on 02-09-2010.

Previously undercoated and damaged areas were re-abrasive blasted on the Bottom surfaces to Base metal and an SSPC SP-10 condition and Interzinc 22 applied.

OBG 7DW

Base metal surfaces were abrasive blasted for VT inspection and mapped accordingly by CT Tim McClendon.

Areas were then later brought to a full SSPC SP-10 condition and Interzinc 22 applied to the "U" Ribs stiffeners

Upper Chevron assemblies FL-2-1 and Upper corner Unit areas and Diaphragms.

Sub-Assemblies

Counterweights 32 and 34 and 16 Traveler Rail Brackets were requested for inspection by ZPMC for verification of ambient conditions and surface preparation to apply Interfine 979 "Mist"

OBG 7EW

ZPMC personnel were observed performing repair work the external portions of the segment. ZPMC previously had relocated the segment to outside the paint shop and allowed to leave outside in inclement weather conditions to which "Rust Back" had occurred on the exposed previously abrasive blasted base metal surfaces of the Chevron beams and internal floor bottom plate areas. ZPMC relocated this segment to perform work on a container crane rather than complete the work on this segment. Re-abrasive blasting required prior to additional repairs being

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performed.

Sub –Assemblies

Counterweights previously “Mist” coated with Interfine 979 within paint shop #3 were left uncovered and unprotected and henceforth subjected to overspray damage of coating being applied to container crane components.

Although the coating applied was International Protective Coatings Interzone 954 its not specified for this application. When the counterweight was pointed out to International Protective Coatings Technical service representative Zili Peng further stated that re-blasting would be required to remove the over spray damaged area of Counterweight #30.

OBG 8CE

Base metal surfaces of the internal and external areas were washed and de-greased in accordance with SSPC SP-1 in preparation of abrasive blast operations.

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
