

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-002362**Date Inspected:** 20-Dec-2009**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:** William (Bill) Oak**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:** Office, OBG 7BW, Sub-Assemblies, Lift 1 W**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:

Sub-Assemblies

Base Metal surfaces of Upper Corner Unit assemblies were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied. Sub-Assemblies were for Segments 12AW, 12BW, 12CW.

ONG 7BW

External surfaces were tested for cure and hardness in accordance with the contract documents prior to application of "Mist" coat. During the testing Caltrans QA Lumley identified and pointed out areas of the FL-3 Beams and access ladder which were not coated with undercoat at all and base metal was evident. These locations were pointed out to ZPMC QC personnel for amendment and repairs.

Lift 1 West

Repairs were performed to the end Weld Upper "U" Rib Stiffener troughs, minor touch up was performed and is currently in general compliance with the contract documents.

Sub-Assemblies

Suspender Brackets SB16W, SB26W which were removed from the lifts to make room for Sea Fasteners and thus damaged underwent repairs which entailed the complete removal of previously applied coating via abrasive blasting to an SSPC SP-10 condition and re-application of the specified coatings. Repaired components were in general compliance with the contract documents and units were then wrapped for transport from the paint shop.

Lift 1 West

SOURCE INSPECTION REPORT

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ZPMC requested a “Final” inspection on the internal undercoated surfaces, upon arrival to location ZPMC cancelled the inspection as the lift was in process of being placed aboard the transport ship.

Office

Review and sign project documentation and attend to report writing and organizing project files.

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:

Caltrans QA Lumley informed ZPMC QC of bare metal and holidays present on OBG 7BW for repairs and amendment.

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
