

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave. St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

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-001339**Date Inspected:** 17-Jun-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1200**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 2359**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:** Coatings Inspection**Bridge No:** 34-0006**Component:** Office, South Tower Lift #1, OBG 4AE/4BE,**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:

Office

Sorted and organized project documentation.

Miscellaneous Metal

Base metal surfaces of approximately 320+- splice plates, shim plates and one (1) counterweight and three (3)

Bikeway brackets were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied. Profile amplitude was 69-74 for bikeway and counterweight and 65-74 for splice and shim plates.

Bikeway Brackets

Inspected top coated brackets with Interfine 979 and discovered low dry film thickness (DFT) areas below 200um in localized areas and inform ABF QA Bill Oak.

South Tower Lift #1

Interior surfaces of base metal were abrasive blasted for VT and grinding operations. Chloride testing was performed and below 10um/cm. Work areas were from 38M-47.6M locations MT performed on arc strikes and deficient welds mapped accordingly.

OBG 4AE/BE

Internal surfaces were abrasive blasted to base metal and an SSPC SP-10 condition thus removing existing damaged Interzinc 22 for repairs along areas adjacent to weld seam and re-application of Interzinc 22 proceeded.

Miscellaneous Metal

SOURCE INSPECTION REPORT

(Continued Page 2 of 2)

Base metal surfaces of eighteen (18) channel iron were de-greased in accordance with SSPC SP-1.

Office

Resumed organization of project documentation and files, missing DFT (dry film thickness) readings from numerous segments already blasted and coated with Interzinc 22.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable, International Protective Coatings technical service representatives Alpha Chen and Peng ZiLi also participated in the inspections and were available for consultation.

Summary of Conversations:

Caltrans QA Lumley discussed low DFT with ABF QA Bill Oak for remedial work to bring up to project specification minimum requirements, additional coating application required.

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:	Carreon,Albert	QA Reviewer
