

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-001598**Date Inspected:** 07-Nov-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:** Coatings Inspection**Bridge No:** 34-0006**Component:** Office, Sub-Assemblies, Lift 3 East, Lift 4 East**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

Attend to report writing and sort and organize project documentation.

OBG 7BE

Transported to blasting workshop for pre-blast VT and chloride testing.

Lifts 3 East & West

Off-loaded from Transport Ship #17 to undergo additional NDT of welds. ZPMC personnel removing previously applied Finish coat utilizing grinders Caltrans QA Lumley observed damage being incurred to finish coated areas.

Lift 4 East & West

Off-loaded from Transport Ship #17 to undergo additional NDT of welds. ZPMC personnel removing previously applied Finish coat utilizing grinders Caltrans QA Lumley observed damage being incurred to finish coated areas.

Sub-Assemblies

Base Metal surfaces of sub assembly splice plates coded: X37K, X37L, X37G, X37H, were cleaned in accordance with SSPC SP-1 in preparation of abrasive blasting.

Sub-Assemblies

Inspection of Sub-Assemblies coded: CTSBBG7, CCTBBG6 after the Galvanizing process and touch up/repairs were performed to the components it was observed by Caltrans QA Lumley that repairs and touch up had been performed utilizing "Aerosol" which is non-compliant with the contract documents. Caltrans QA Lumley

SOURCE INSPECTION REPORT

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contacted ABF QA Don Walton and subsequently informed him of the situation and that an Incident Report would be issued for the non-compliant works.

Sub-Assemblies

Base Metal surfaces of the following: 9AW, 9BW, 9CW, 9DW Diaphragms were abrasive blasted to an SSPC SP-10 condition. Interzinc 22 was not applied due to ambient conditions inside Fabrication workshop #14 were non-compliant with the contract documents.

OBG 7AE

Internal undercoated surfaces were tested for adhesion and all locations tested were in excess of 4Mpa.

Office

ABF satellite office Caltrans QA Lumley reviewed and signed project documentation. Also introduced to ABF NACE II Coatings Inspector.

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:	Miller,Mark	QA Reviewer
