

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-002402**Date Inspected:** 10-Mar-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:** Cross Beam #4, Cross Beam #5, Sub-Assemblies**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:

Cross Beam #4

ZPMC requested a "Final" internal inspection of the bottom plate undercoated areas, also ZPMC personnel perform sanding of External Top-coated surfaces which exhibited excessive runs and sags in applied finish coat. Internal undercoated surfaces require additional work.

Cross Beam #5

ZPMC performing repairs and Dry Film Thickness (DFT) verification to internal undercoated surfaces and also performing repairs and touch up operations. External undercoated surfaces are being sanded and screened to remove dry-spray and overspray for "mist" coat application.

Sub-Assemblies

Base metal surfaces of "L" Splice plates and assorted numerous splice plates were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied. Profile amplitude was 78-82µm.

Sub-Assemblies

ZPMC requested a "Final" inspection of Finish coated assemblies with Caltrans Engineer Bill Howe.

Counterweights #44 & 46, Six (6) Suspender Brackets and two (2) Traveler Rail Brackets were determined to be in general compliance with the contract documents with Counterweight #46 requiring additional minor touch up and repairs of minor runs. ZPMC commenced wrapping these Sub Assemblies for transport.

Sub-Assemblies

SOURCE INSPECTION REPORT

(Continued Page 2 of 2)

Base metal surfaces of 185 various Splice plates including 27 pieces X37A Corner Unit Assembly plates were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied. Profile amplitude was 72-84µm.

Lift 5 East

ZPMC requested an inspection of surface cleanliness to begin application of Finish coat to the external surfaces of the East Side Plate and Bottom Plate and the FL-3 Beams. Application of Interfine 979 top-coat was applied and the mixed paint temperature was monitored by ABF QA as well as International Protective Coatings technical service representative Mr. Zili Peng who monitored and directed all mixing and thinning operations.

Lift 5 West

ZPMC requested an inspection of surface cleanliness to begin application of Finish coat to the external surfaces of the entire Lift except the "F" Side Plates. Application of Interfine 979 top-coat was applied and the mixed paint temperature was monitored by ABF QA as well as International Protective Coatings technical service representative Mr. Zili Peng who monitored and directed all mixing and thinning operations. Mixed coating temperature was 54°-60F°

Lift 6 East

The external weld seam areas of segments 6AE/BE and 6BE/CE were abrasive blasted to base metal not meeting SSPC SP-10 condition (Visible rust) Re-abrasive blasting took place and subsequently the base metal surfaces were cleaned in accordance with SSPC SP-10 and Interzinc 22 undercoat applied.

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
