

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-002363**Date Inspected:** 19-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:** Cross Beams 1, 2, 3, OBG 8AE, Lift 4 East, S**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:

OBG 8AE

Internal Base Metal surfaces of the Upper "U" Rib Stiffeners and Upper Chevron Assemblies, FL-2-1 Beams, Upper Corner Units and Diaphragms approximately 1 meter from the bottom were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied.

Lift 4 East

ZPMC requested a "Final" Inspection of Internal surfaces from Panel Points 24-28 including both end Weld Seams of the Bottom and Side Plate "T" Stiffeners and associated lower assemblies. Minor touch up was performed in the Upper Corner Unit areas after Caltrans QA Lumley repeatedly pointed out to ZPMC personnel areas which were consistently missed in each location. Interzinc 52 undercoat was applied to amend repair areas.

Sub-Assemblies

Base Metal surfaces of approximately 150 pieces of Splice Plates and Lifting Hole Cover Plates were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied.

Office

Attended to close out punch-list items with Lead Albert Carreon and update on progress of coating operations and repairs for load- and close-out.

Lift 1 West

cleaned in accordance with the agreed upon method, however 2 inspections were performed until the surface was

SOURCE INSPECTION REPORT

(Continued Page 2 of 2)

approved for application of Interzinc 52 undercoat. ZPMC called for inspection prior to the completion of the cleaning work.

Cross Beams 1, 2, &3

ZPMC personnel performing cleaning operations of the Top and Side Plates to remove "Rust Stains" from Finish coated surfaces utilizing SSPC SP-1. GTA thinner #803 was utilized with rags and scotch pads to remove staining on Finish Coated areas and in process of doing so are marring and creating a non-uniform appearance to the previously completed work which was found to be in general compliance with the contract documents. A substantial portion of this damage was created by the ship personnel when they were discovered to be power-tool cleaning the bow deck plate of rust scale and the prevailing wind was depositing the fines from this work onto the top finish coated surfaces of the Cross Beams. Also the areas on the Top sections where the Splice Plates are bolted down were found to have rusted fines within the Bolt Holes and also are "Staining" the coated surfaces. 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
