

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-002391**Date Inspected:** 19-Jan-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:** Sub-Assemblies, OBG 7BE, Office**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 592 assorted Splice Plates and Channel Iron were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied. Approximately 30% of these Splice Plates were returned from Trial Assembly for repairs which consisted of removal and replacement of the previously applied coating due to damages incurred. Chloride values were observed to be 20us/cm from random base metal surfaces and the profile amplitude was 82-86um.

Sub-Assemblies

Previously coated internal and external surfaces of Counterweights # 32 & 34 were repaired via abrasive blasting to remove damaged applied coatings to Base Metal and an SSPC SP-10 condition Interzinc 22 undercoat re-applied.

Sub-Assemblies

Base Metal surfaces of of three (3) Corner Unit Sub-Assemblies faying surfaces were abrasive blasted to Base Metal and an SSPC SP-10 condition and Interzinc 22 undercoat applied. Prior to application base metal defects such as gouges and shelling were ground and blended. Corner Unit Codes: DP3049B, DP3060A, DP3071A.

Sub-Assemblies

Cross Beam Bottom Plate base metal contact support areas were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied. Also prior to performing the repairs to the points of contact previously

SOURCE INSPECTION REPORT

(Continued Page 2 of 2)

undercoated surfaces of Interzinc 22 were tested for cure, hardness, and Dry Film Thickness (DFT) some deficiencies were observed relative to DFT and on bolted connections/ faying surfaces and subject to repairs all other testing was in general compliance with the contract documents. Application of "Mist" coat 979 was cancelled at this time of inspection.

Office

Review and assist SMR Skyler Guest relative to coatings related issues as requested by SMR.

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
---------------------	--------------	-------------