

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-001246**Date Inspected:** 26-Jul-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:** Miscellaneous Metal, Copper Slag, Suspender**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:

Miscellaneous Metal

Base metal surfaces of 850 assorted splice plates and channel iron and small splice plates were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied.

Copper Slag

ABF office a sample of alternative abrasive for field use was tested for oil and chlorides and tests confirmed within criteria of SSPC AB-1 requirements. ZPMC should to submit documentation for review prior to acceptance.

Suspender Brackets

Interfine 979 full finish top coat was applied to brackets coded: SB10E, SB18E, SB24E, SB10W, SB24W.

Bikeway Bracket

Interfine 979 full finish top coat was applied to Bracket code BK001-008.

OBG Corner Unit

Base metal faying surfaces were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied to corner unit coded: DP676A.

L4E

ZPMC personnel performing repairs to overspray areas of Interfine 979 finish coating which exhibit a non-uniform finish by buffing out the dulled damaged areas to the east side of the side plate.

Cross Beam #3

SOURCE INSPECTION REPORT

(Continued Page 2 of 2)

Damaged areas on internal and external localized areas were abrasive blasted to base metal and an SSPC SP-10 condition and Interzinc 22 applied. Perimeter of blasted areas were feathered and profile amplitude was 68-76um. Total surface area repaired estimated at less than one square meter.

Note: All inspections were performed jointly with Caltrans QA Lumley and ABF & ZPMC QA/QC representatives. International Protective Coatings technical service representatives were available for inspections and consultation.

.

Summary of Conversations:

Caltrans QA Lumley inquired with ZPMC QC representative adhesion and MEK testing on splice plates and setting aside a plate to perform tests on applied Interzinc 22 after application representative of the paint batch number of the applied coating. ZPMC QC stated they would set aside and perform testing..

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