

**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-001425**Date Inspected:** 01-Jun-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 700**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:** East tower Lift#1, OBG 4AE/4BE, Cross Beam**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:

East Tower Lift#1

Cursory inspection 18M- 0M showed Task leader William Clifford and SMR Serge Sinevod areas of concern relative to welding and completion thereof. Photo's obtained and measurements obtained by William Clifford and locations mapped.

OBG 4AE/4BE

ZPMC personnel in process of sanding the exterior surfaces coated with Interfine 979 in preparation of final topcoat application. Match drilling in process of suspender brackets, edge trimming in process, fabrication incomplete and amendment and repairs in process, coating damages ongoing.

Cross Beam #4

Base metal pedestal support contact areas were abrasive blasted to SSPC SP-10 condition and interzinc 22 applied. Profile amplitude was 78,80,& 81um respectively. MEK testing was performed 5 rating observed, and chloride testing observed was below 10ug/cm. Excessive Dry Film Thickness (DFT) was observed on the exterior surfaces by Caltrans QA Lumley. International Protective Coatings technical service representative Mr. Alpha Chen also confirmed this observation. Mist coat of Interfine 979 delayed as a result of excess dry film thickness on exterior surfaces.

Miscellaneous Metal

Base metal surfaces of approximately 155 +- splice plates were de-greased and water washed in preparation of

---

---

# SOURCE INSPECTION REPORT

( Continued Page 2 of 2 )

---

---

abrasive blasting.

OBG 5CE

ZPMC transported this segment into blast shop #1 for abrasive blasting operations.

South Tower Lift #1

Base metal surfaces were inspected for de-greasing operations. Interior base metal surfaces were free of grease and oils, exterior surfaces were rejected by ABF QA representatives due to visible grease and oils on exterior skin.

East Tower Lift #1

This tower section was removed from blast shop #2 and transported despite incomplete coating application and inspection on interior surfaces. Repairs required and NCR issued by ABF QA representatives.

Note: All inspections were performed jointly with ZPMC & ABF QA/QC representatives and Caltrans QA Lumley, International Protective Coatings technical service representatives were available for inspections as well as guidance to ZPMC personnel.

### 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.

---

<b>Inspected By:</b>	Lumley,James	Quality Assurance Inspector
----------------------	--------------	-----------------------------

---

<b>Reviewed By:</b>	Carreon,Albert	QA Reviewer
---------------------	----------------	-------------