

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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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-001447**Date Inspected:** 05-May-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:** OBG 1BE, OBG 2AW, OBG 5BW, Miscellaneous**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 1BE

Mud cracked areas were identified by ZPMC QC representative and abrasive blasted to base metal and the edges were feathered via grinding with 40 grit sanding disc. Interzinc 22 was re-applied to approximately 10-12 square meters of surface area. Repairs are still incomplete.

OBG 2AW

Base metal "U rib surfaces and vertical diaphragms were abrasive blasted and rejected by ABF QA representatives as SSPC SP-10 was not achieved, edge grinding and arc strikes were ground as well as sharp fins and burrs. Substrate was re-abrasive blasted as well as areas grinding was performed upon and Interzinc 22 was applied. Caltrans QA Eric Prue performed cursory VT on base metal surfaces, ZPMC provided no welding inspection and no MT was performed on arc strike areas prior to coating application. Note three inspections were performed prior to application of Interzinc 22.

OBG 5BW

Adhesion testing and chloride testing was performed on exposed Interzinc 22 coated areas, primary areas of chloride testing was pedestal support contact surfaces now exposed. Sika 221 required on seam inside "U" rib stiffener terminations.

Miscellaneous Metal

300 +- splice plates were in process de-greasing and water washing operations behind paint shops #1.

SOURCE INSPECTION REPORT

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Note: All inspections were performed jointly with Caltrans QA Lumley ABF & ZPMC QA/QC representatives and International Protective Coatings technical service representatives Mr.Peng ZiLi and Mr.Alpha Chen.

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:	Carreon,Albert	QA Reviewer
