

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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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-001430**Date Inspected:** 25-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 1AAW, 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:

East Tower Lift #1

External Interzinc 22 coated surfaces were tested for chlorides and hardness/cure, MEK tests all exhibited a 5 rating and chlorides were all below 10ug/cm. Masking of faying surfaces were ongoing during the testing and visual inspection was carried out concurrent with testing. Areas at the base of the tower were found to require re-blasting and re-application of Interzinc 22 on Skin "D" near the stiffeners. Interfine 979 "mist coat" was applied to remaining areas.

Miscellaneous Metal

Base metal of approximately 100+- pieces splice plates and diaphragm assemblies were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied.

Miscellaneous Metal

Cable trays, splice plates base metal surfaces degreased and washed in preparation of abrasive blasting.

OBG 1AAW

Interior bottom base metal surfaces were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied.

OFFICE

Attend to project documentation and filing of reports after review.

**Summary of Conversations:**

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## SOURCE INSPECTION REPORT

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Caltrans QA Lumley discussed outstanding fabrication items with ABF Don Walton on East Tower Lift #1, also the doubler plates on the exterior surfaces were addressed and potential damages to be expected.

### **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.

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<b>Inspected By:</b>	Lumley,James	Quality Assurance Inspector
<b>Reviewed By:</b>	Carreon,Albert	QA Reviewer

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