

**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-001424**Date Inspected:** 03-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:** Miscellaneous Metal, OBG 5CE, East Tower L**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

Internal and external coated surfaces require additional re-work and repairs. External has mud-cracking near doubler plate installation areas. Interior surfaces exhibited holidays, dry-spray, mud cracks and contaminants coated over.

**Counterweights**

Mist coat of Intercure 200HS was applied to interior portions to be in contact with concrete to the following counterweights, CW10, CW14, CW18, CW22, CW34, CW38, CW40.

**OBG 4AE/4BE**

Mist coat of Interfine 979 was applied to the pedestal contact support areas.

**Counterweights**

Counterweights CW30, CW32, CW44 de-greased and water washed in preparation of abrasive blasting.

**Miscellaneous Metal**

Base metal surfaces of 710+- splice plates and angle iron were de-greased and water washed in preparation of abrasive blasting.

**OBG 5CE**

Base metal surfaces of the interior "U" rib stiffeners and diaphragms and upper corner assembly were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied. VT performed by Caltrans QA representatives

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# SOURCE INSPECTION REPORT

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Lonnie Whitehead, Rodney Patterson and Dan Hutchinson. Profile amplitude was 66-83um.

East Tower Lift #1

ZPMC cancelled interior inspection.

Miscellaneous Metal

Corner Unit sub assembly DP-6608 for OBG 8BE base metal faying surfaces were abrasive blasted and Interzinc 22 applied.

Floor Beam Sub Assemblies

Base metal faying surfaces of ten floor beam sub assemblies were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied after edge conditioning was performed. Profile amplitude was 66-74um.

South Tower Lift #1

This unit was relocated to the exterior of the abrasive blast shop. De-greasing operations were still incomplete on the exterior surfaces.

Note: All inspections were performed jointly with ZPMC & ABF QA/QC representatives and Caltrans QA Lumley. International Protective Coatings technical service representatives also participated in the inspection process and was available for consultation.

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### 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.

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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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