

**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-001432**Date Inspected:** 23-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:** East Tower Lift#1, Counterweight Attachment**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:

**ZPMC Reports**

Review and resume signing of backlog of ZPMC QC reports.

**Double Diaphragms**

Observe base metal grinding operations of double diaphragms for tower section, TCE removal as well as gouges being addressed prior to abrasive blasting operations.

**Counterweight Attachment Areas**

OBG 3AW, 3BW, 4AW, 4BW segment attachment previously Interzinc 22 coated surfaces were abrasive blasted to base metal and SSPC SP-10 condition and re-application of Interzinc 22 proceeded. Profile amplitude was 80-82um. Note fabrication still incomplete more damages will occur.

**Miscellaneous Metal**

Base metal surfaces of 450+- splice plates, L-splices, cross beam stiffeners, and suspender brackets were observed de-greased and water washed in preparation of abrasive blasting operations.

**East Tower Lift#1**

Base metal surfaces of interior areas between 18M to 28M were abrasive blasted for VT inspection. Surfaces were observed to require grinding of arc strikes, burrs, edges, and TCE prior to application of Interzinc 22.

**Double Diaphragms**

Six double diaphragm base metal surfaces were inspected for abrasive blasting and grinding of edges and TCE.

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# SOURCE INSPECTION REPORT

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ABF QA representatives marked areas for re-work and rejected the abrasive blast. Base metal surfaces were re-blasted and re-inspected two more times until SSPC SP-10 was achieved and application of Interzinc 22 followed. Profile amplitude was 46-63um.

East Tower Lift#1

Base metal interior surfaces 18M-28M were observed to exhibit arc strikes and MT performed after grinding operations. ZPMC Bo Tintui performed MT and it was observed by Caltrans QA Paul Dawson.

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

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