

**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-002404**Date Inspected:** 08-Mar-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**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:** Coating Inspection**Bridge No:** 34-0006**Component:** Cross Beam #5, Sub-Assemblies, Office**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:

Office

Attend to project files and documentation.

Sub-Assemblies

Base metal surfaces of approximately 130- X38B Splice Plates and 60- X38D Splice Plates were washed and de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting.

Sub-Assemblies

Counterweights # 44 & 46 and BK001-024 PP# 47 as well as 2 Traveler Brackets were Finish coated with Interfine 979 Top-coat. Also 2 Suspender Brackets were touched up and had minor repairs of To-coated areas as well.

Cross Beam #5

Base metal surfaces were given an initial abrasive blast on the internal and external surfaces for a Final VT verification inspection of welds and base metal deficiencies, subsequent grinding took place and areas of surface shelling were also amended. Subsequent re-blasting was performed and Chloride values were observed at 20 & 10µs/cm and Profile amplitude was 69-83µm. Base metal surfaces were re-abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied.

Sub-Assemblies

Base metal surfaces of approximately 190 Splice Plates and 37 Traveler Rail Brackets were abrasive blasted to an

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# SOURCE INSPECTION REPORT

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SSPC SP-10 condition and Interzinc 22 undercoat applied. Profile amplitude was 78-84µm.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

**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>	Peterson,Art	QA Reviewer
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