

**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-002426**Date Inspected:** 09-Feb-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:** Office, Sub-Assemblies, OBG 7DW, Lift 5 East**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.

Lift 5 West

Perform abrasive blasting operations to damages of previously applied undercoat on the Cross Beam termination and FL-3 Beams. Interzinc 22 undercoat was applied to the top and sides base metal surfaces which were abrasive blasted to an SSPC SP-10 condition. The areas of the bottom plate surface requires further repairs.

Lift 5 East

ZPMC personnel sanding and cleaning East side "F" plate for application of finish coating

Sub-Assemblies

Counterweights 30 and 36 were tested for chloride and MEK rub test for cure MEK rating of 5 observed and chloride value was 10us/cm following subsequent testing Interfine 979 "Mist" coat was applied.

Sub-Assemblies

Base metal surfaces of 85 pieces of splice plates were washed and de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting. Splice Plate code GGL-MQ-1508.

OBG 7DW

Base metal surfaces of the internal surfaces of the U Rib Stiffeners and FL-2-1 Beams and Upper Chevron beams were from Panel Points 56,57,58 were abrasive blasted for VT inspection. Caltrans QA Tim McClendon and

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# SOURCE INSPECTION REPORT

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Hirachi Patel performed VT inspection and mapped deficiencies accordingly.

## Lift 5 West

ZPMC requested a "Final" inspection on undercoated areas of the internal ceiling area of the "U" ribs and FL-2-1 beams and the end weld seam from Panel Points 34, 35, 36. Work was observed to be incomplete at time of inspection request numerous deficiencies were observed and general non-compliance with the contract documents.

## Lift 5 East

Repairs were performed to the Cross Beam Bottom plate consisting of abrasive blasting previously undercoated surfaces to base metal and an SSPC SP-10 condition and re-application of the undercoat was performed to amend repairs.

Note: ZPMC paint shops 1 & 2 which contained Traveler Rail Brackets and Counterweights 32 & 34 were observed to not having the respective heating and dehumidification apparatus functioning and no coatings application was performed within these shops as the ambient conditions were non-compliant with the contract documents.

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
<b>Reviewed By:</b>	Peterson,Art	QA Reviewer

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