

**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-002443**Date Inspected:** 06-Apr-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:** Sub-Assemblies, Lift 7 East, 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:

**Sub Assemblies**

Base Metal surfaces of the Cross Beam Bottom Plate/FL-3 termination for OBG 7BE were abrasive blasted to an SSPC SP-10 condition and the profile amplitude was 72-84µm and chloride values were observed at 20µs/cm.

Application of Interzinc 22 was delayed due to non-compliant ambient conditions within Blasting workshop #2.

ZPMC employed heaters within the workshop and subsequent Interzinc 22 was applied after re-sweep blasting of base metal surfaces had occurred restoring the SSPC SP-10 condition.

**Sub -Assemblies**

A single handrail was inspected prior to the galvanizing process and found to be in general compliance with the contract documents for Galvanizing under Section 75.

**Lift 7 East**

Internal weld seam repairs were performed via abrasive blasting base metal surfaces to an SSPC SP-10 condition and subsequent application of Interzinc 22 undercoat performed. Chloride values were 20µs/cm and profile amplitude was 77-81µm.

**Office**

An Incident Report was drafted for the Galvanizing of 2 Traveler Rails which were Galvanized at an unapproved facility according to the requirements of Section 8 of the Special Provisions. Traveler Rail codes are: 10TR2-019, 10TR2-020.

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# SOURCE INSPECTION REPORT

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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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