

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
690 Walnut Ave. St. 150  
Vallejo, CA 94592-1133  
(707) 649-5453  
(707) 649-5493

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-001288**Date Inspected:** 03-Sep-2009**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:** 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:** Lift 3 West, Lift 3 East, Lift 2 West, North Tower**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

Review and sign backlog of ZPMC paperwork and reports. Sort and organize project documentation.

Lift 3 West

ZPMC requested final acceptance inspection prior to bolt up of Bottom Plate beneath FL-3 Beams at Cross Beam attachment area. Final was rejected due to bare steel evident and visible rust on surfaces re-work required prior to final bolting.

Lift 3 East

ZPMC requested a final inspection of Upper Floor beams and internal ceiling areas of "U" rib stiffeners and Chevron Beam top assemblies. Inspection request was rejected by ABF Bill Oak after discussion with Caltrans QA Lumley due to insufficient lighting in work areas. ZPMC personnel performing work in Upper Corner Unit areas sanding dry-spray from surfaces. Caltrans QA Lumley generated incident report for insufficient lighting per approved PQWP.

Lift 2 West

Repairs were performed via abrasive blasting previously coated areas to remove damaged coatings to base metal and an SSPC SP-10 condition. Subsequent re-application of Intercure 200 HS was spray applied to the studded areas of the counterweight to be in contact with concrete and faying surfaces of bolted areas of counterweight

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# SOURCE INSPECTION REPORT

( Continued Page 2 of 2 )

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attachment areas were re-coated with Interzinc 22.

### Cross Beam #2

Adhesion testing, chloride testing and cure testing were performed on external repaired surfaces coated with Interzinc 22, all testing was compliant with Specification and Interfine 979 "Mist" coat was applied to external surfaces.

### Lift 2 East

Repairs were performed to weld seams and adjacent damaged areas via re-abrasive blasting to base metal and an SSPC SP-10 condition and re-application of Interzinc 22.

### Note:

North Tower Lift #1 entered blasting workshop #2 today. Scaffold erection prior to external de-greasing required.

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:

altrans QA Lumley informed ABF QA Bill Oak insufficient lighting to perform proper inspection on internal areas of Lift 3 East, Incident would be generated for improper lighting per approved PQWP.

### 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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