

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-001249**Date Inspected:** 29-Jul-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:** Office, Bikeway Brackets, Counterweights, L**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

Assist SMR Skyler Guest with review and language for consideration of alternative abrasive for outside blasting operations and clarification.

L3E

ZPMC re-abrasive blasted to base metal areas which were previously abrasive blasted and coated without acceptance inspection by Caltrans or ABF personnel. Areas did not meet SSPC SP-10 condition previously and were rejected by ABF Bill Oak. ZPMC Notice of Inspection did not identify this as a work area on Notice of Inspection dated 07-21-09. Repairs were performed on approximately 50% of the affected area, the repaired area was re-abrasive blasted to base metal and an SSPC SP-10 condition and Interzinc 22 re-applied. Profile amplitude of 72um was observed. An incident report was generated for the previous work performed on 07-21-09. New abrasive was utilized for this repair work.

Counterweights

CW12, CW16, CW18, Intercure 200 HS was applied to internal surfaces which will be in contact/embedded in concrete. Application was performed inside paint shop#2. Also a final acceptance inspection was performed on CW10, CW24, CW28, CW36 all but CW28 were Non compliant for numerous defects and repairs are required. CW28 was in general compliance prior to transport from paint shop.

Suspender Brackets

SOURCE INSPECTION REPORT

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SB10E, SB12E, SB18E, SB24E, SB28E, SB10W, SB12W, SB18W, SB24W, SB28W final inspection was requested by ZPMC and all were rejected by ABF for numerous defects. Defects included but not limited to non-uniform appearance, pinholes were visible, overspray on faying surfaces, Re-work and repairs required prior to re-inspection.

Bikeway Bracket

BK001-008 final inspection was requested by ZPMC and item rejected by ABF and International Protective Coatings technical service representative Peng Zili, areas of insufficient Dry Film Thickness (DFT) and pinholes evident in topcoat Interfine 979.

Assembly Yard

Caltrans QA Lumley obtain a sample of recycled abrasive utilized for outside blasting operations and tested for oil and chlorides in ABF office with ABF Bill Oak, sample met with SSPC AB-1 for chloride content and was oil free.

Miscellaneous Metal

Base metal surfaces of 232 splice plates were de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting operations.

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

Summary of Conversations:

Caltrans QA Lumley discussed repairs with ABF Bill Oak on Trial Assembly works and volume of work required prior to shipment.

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.

Inspected By:	Lumley, James	Quality Assurance Inspector
Reviewed By:	Carreon, Albert	QA Reviewer
