

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-001245**Date Inspected:** 25-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:** Lift 3 East, Miscellaneous Metal, Suspender E**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:

Reference Panel

ABF Bill Oak obtained reference panel from SMR Skyler Guest. Check color with draw down sample and DFT (dry film thickness) Noted grit and contaminants in coating film and pinholes on backside of panel. Panel demarcation via sticker on face displayed: Sample #3 50/50 no corresponding documentation accompanied panel such as coating manufacturer or relative reporting.

Alternative Abrasive

Copper Slag sample arrived and testing was performed on sample provided to ABF & Caltrans by ZPMC chlorides and oils were tested. ZPMC to provide report.

Suspender Brackets

Five brackets code #: SB10E, SB18E, SB24E, SB10W, SB24W surface preparation inspection prior to primer application for damaged areas requiring repairs prior to topcoat application. Surfaces were prepared in accordance with SSPC SP-1 & SP-2 prior to application. Application commenced after inspection and re-work/cleaning.

Bikeway Bracket

BK001-008 Interzinc 22 coated surfaces were inspected for DFT (dry film thickness) MEK cure test and pencil hardness, all testing complied with specification and "mist" coat Interfine 979 was applied.

Miscellaneous Metal

Base metal surfaces of approximately 725 pieces of X3P plates were de-greased in accordance with SSPC SP-1 in

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preparation of abrasive blasting.

Lift 3 East

Repairs and abrasive blasting Notice of Inspection received and subsequently cancelled by ZPMC work did not commence.

Miscellaneous Metal

Base metal surfaces of 106 splice plates were de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting.

Lift 3 East

Numerous repairs were performed by abrasive blasting previously coated base metal to an SSPC SP-10 condition and re-application of Interzinc 22. Repair areas were on external surfaces of weld seam, drip rails, top plate, suspender brackets, and bottom plate which were damaged from trial assembly operations of welding ,cutting ,and burning and other mechanical damages. Profile amplitude was 68-82um. Estimates total surface area in excess of 10 square meters.

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Summary of Conversations:

ABF Bill Oak inquired as to relevant documentation of reference panel of applied coating presented to him by SMR Skyler Guest.

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
