

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-001253**Date Inspected:** 03-Aug-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, L4W, L4E, L3E, Suspender Brackets,**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

Reviewed the saddle trough coating requirements on the internal and external surfaces.

L4E

ZPMC personnel were sanding the external surfaces previously fully top-coated with Interfine 979 to remove enough coating to allow/permit replacement of unacceptable previous coating due to non-uniform appearance and dry spray lines. ABF directed ZPMC to attempt to remove enough coating until DFT (dry film thickness) readings were approximately 250um over surfaces to be repaired. ZPMC had previously attempted to "buff" the non-uniform areas out utilizing a rubbing compound and mechanical buffing apparatus.

Counterweights

Repairs to previously coated surfaces are still ongoing. CW12, CW16, CW18 final top-coat inspection was performed and required minor repairs to the internal surfaces to be in contact with concrete.

Suspender Brackets

Bracket numbers: SB10E, SB12E, SB18E, SB28E, SB10W, SB12W, SB18W, SB28W final inspection for top coat application and surface preparation. Surfaces were rejected by ABF & International protective Coatings technical service representative due to dust and dirt on surfaces to receive coating.

L4W

Minor repairs to surfaces power sanded on external surfaces were in process of touch up with Interzinc 52 where

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repairs exposed substrate. Additional cleaning required prior to top-coat application.

L3E

Repairs were performed to previously repaired areas of the Cross Beam termination surfaces which were not accepted yet coated by ZPMC previously. (incident report dated 07-21-09) Surfaces were abrasive blasted to base metal and an SSPC SP-10 condition and re-application of Interzinc 22 applied to surfaces. This re-work concludes and resolves the incident report relative to blasting/coating application in this location.

Miscellaneous Metal

Base metal surfaces of approximately 60 "L" 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 representative Peng Zili was 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.

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