

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-001302**Date Inspected:** 20-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:** Office, Lift 2 East, Lift 4 West, Lift 3 West, 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

Report writing and photo-documentation, also sort and organize project documentation.

Suspender Brackets

Observed damages and burned up applied coatings from removal operations from Lift #3 East and Lift #4 East.

Bracket codes as follows: SB20E, SB22E, SB26E. These items were previously Inspected for "Final Acceptance" and approved by Caltrans Engineer Bill Howe and Caltrans QA Lumley and SMR Skyler Guest.

Lift 4 West

ZPMC requested a second (2nd) Final Acceptance inspection on the Internal ceiling areas and Upper Floor Beams and upper Chevron Beam connections and "U" rib stiffeners. ZPMC personnel were still performing repairs during the inspection. ABF Bill Oak cancelled the inspection and informed ZPMC QC to resubmit request after repairs were performed and surfaces defects noted were amended. A third (3rd) Final Acceptance inspection was requested in the afternoon and conducted jointly with ABF Bill Oak and Caltrans QA Lumley. Internal ceiling areas in Panel Points 26-27, 28-29 exhibited low Dry Film Thickness (DFT) in large areas of the "U" rib stiffeners and also covered in dry-spray and dust and debris. Thusfar all Final inspections requested by ZPMC have revealed incomplete work or work in process of repairs.

Lift 3 West

Internal ceiling area of Panel Points #19-22 "U" Ribs stiffeners and Upper Floor Beams and longitudinal

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stiffeners MT areas were re-abrasive blasted to base metal and an SSPC SP-10 condition and re-applied Interzinc 22. Profile amplitude was 80, 82, 84um. Application was delayed to due surface temperature in excess of 40C.

Lift 4 West

ZPMC personnel completed cleaning and dust removal from West Side Plate and applied finish coat of Interfine 979 to external surfaces including Traveler Brackets and Suspender Brackets. Caltrans QA Lumley remained at location and observed the application process throughout the entire painting operation.

Lift 4 West

Internal Ceiling area (3rd) inspection. ZPMC requested Caltrans QA Lumley to stay after scheduled work-shift to assist in inspection process to expedite repairs. ZPMC applied additional coat to previously identified areas of low DFT to amend repairs and also removed dry-spray on other areas to amend repairs. Access to the "U" Rib stiffeners was scheduled to be removed for transport to the ship. ZPMC stated access to the end upper "U" rib terminus would be available via a man-lift for inspection. Ceiling area on Internal was observed to have some localized areas of high DFT up to 200um which exhibited no mud cracking.

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:

Caltrans QA Lumley inquired with ABF QA Bill Oak as to why no Notice of Inspections were sent by ZPMC for any work/repairs associated with Lift 4 East since loaded upon the ship.

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
