

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-002394**Date Inspected:** 21-Mar-2010**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:** Don Walton**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:** Coating Inspection**Bridge No:** 34-0006**Component:** Sub-Assemblies, Lift 6 East & West, Lift 5 East**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:

Lift 6 West & East

ZPMC requested a "Final" inspection of external Finish coated surfaces of the Cross Beam Termination/FL-3 Bottom Plate area. Caltrans QA Lumley visually checked the applied finish coating and verified Dry Film Thickness (DFT) with ZPMC QC personnel and ABF QA/QC personnel. Random DFT readings exhibited general compliance with the contract documents and visual appearance revealed a uniform film. Caltrans QA Lumley then informed ABF and ZPMC personnel that only Caltrans Engineer assigned to coatings can ascertain compliance with the contract documents and make final decision as to gloss and uniformity of applied finish coat. ZPMC also performed repairs to the FL-3 External non-compliant areas previously identified by Caltrans Engineer as non-compliant for amendment due to spent abrasive becoming incorporated into the wet film during initial application, ZPMC scraped and sanded affected areas and re-applied Interfine 979 to achieve general compliance and amend repairs. Note: ZPMC installing and tensioning bolts to Bottom Plate assemblies of FL-3 beams.

Lift 5 East

ZPMC requested a "Final" inspection on internal undercoated surfaces from Panel Points 30-32, subsequent inspection was performed and surfaces were rejected by ABF QA personnel as surfaces exhibited holidays, over-blast damages and general condition of applied undercoat was dirty and spent abrasives were visible and obscured undercoated surfaces, Caltrans QA Lumley concurred with ABF assessment.

Sub-Assemblies

SOURCE INSPECTION REPORT

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Counterweight CW28, Suspender Brackets SB36E, SB42E and 13 Traveler Rail Brackets were tested in accordance with the contract documents on previously applied undercoat. MEK test was observed at grade 5 and chloride value was 30µs/cm Dry Film Thickness (DFT) were in compliance with the contract documents and subsequently Interfine 979 "Mist" coat was applied.

Office

Attend to report writing and sorting and organizing project files and documentation.

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:

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
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Reviewed By:	Peterson,Art	QA Reviewer
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