

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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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-001266**Date Inspected:** 05-Aug-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 2000**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, Suspender Brackets, Miscellaneous M**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

Sort and file project documentation, attend to Inspection reports.

Suspender Brackets

SB10E, SB12E, SB18E, SB28E, SB10W, SB12W, SB18W, SB28W Interfine 979 full final top-coat application.

Miscellaneous Metal

Base metal surfaces of 1100+- pieces of Shim plates and Splice plates were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied. This work process took 3 separate inspections to perform as ZPMC consistently left materials buried within spent abrasive inside Blast Shop #1 and also failed to completely blast all items listed on Notice of Inspection. ABF personnel rejected approximately 60% of the listed items after the first inspection was completed.

Trial Assembly Area

Caltrans QA Lumley performed a general walk through of the area and noted improper storage and handling conditions of coated items. Galvanized handrails and Suspender Brackets exhibited rust staining, Catwalk Channel Iron immersed in water puddles, broken welds on Cable tray assembly from handling damage, Splice and Shim plates left in disarray all over ground/concrete storage area, burned areas of applied coating on splice plates. Caltrans QA to perform similar walk through with ABF inspection personnel.

Miscellaneous Metal

SOURCE INSPECTION REPORT

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Notice of Inspections 1189, 1191, 1192 all pertained to re-inspection of 1100+- splice plates and associated items listed above, ABF & CT performed inspection after inspection and items listed were not in compliance with SSPC SP-10. Items were relocated to the paint shop and spread along floor area for application of Interzinc 22 and a follow up inspection occurred and further rejection of materials performed during follow up.

Lift 3 East

Weld seam repair area and "T" stiffeners were abrasive blasted to base metal and an SSPC SP-10 condition and Interzinc 22 applied. Profile amplitude was 80-84um.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley. International Protective Coatings technical service representative Mr. 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
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Reviewed By:	Carreon,Albert	QA Reviewer
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