

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-001338**Date Inspected:** 18-Jun-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1200**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 2359**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:** South Tower Lift #1, Miscellaneous Metal, O**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:

Cross Beam #5BE Bottom Plate

Bottom plate base metal surfaces were abrasive blasted. Initial inspection was rejected SSPC SP-10 not achieved ZPMC re-blasted to an SSPC SP-10 condition and Interzinc 22 was applied. Profile amplitude was 72-76um.

South Tower Lift #1

Base metal surfaces from 38M-47.6M internal areas were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied. A total of six (6) inspections were performed prior to acceptance of abrasive blasted surfaces.

Suspender Brackets

Interzinc 22 coated surfaces were inspected for compliance prior to application of "mist" coat of Interfine 979.

Bracket code numbers were SB26E, SB18E. ZPMC then applied the "mist" coat to prepared surfaces.

OBG 4AE/BE

Interzinc 22 coated surfaces were abrasive blasted to base metal meeting SSPC SP-10 cleanliness and Interzinc 22 applied. Approximately one third (1/3) square meter of surface area was coated over four (4) locations in the upper corner unit areas of the X37A plates.

South Tower Lift #1

Adhesion testing was performed on Interzinc 22 external coated surfaces and the following values were obtained:

1) 4.41Mpa 2) 9.24Mpa 3) 7.84Mpa 4) 9.68Mpa 5) 8.45Mpa.

Miscellaneous Metal

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Base metal surfaces of approximately 184 cable support brackets, channel iron, angle iron, and splice plates were de-greased according to SSPC SP-1 in preparation of abrasive blasting operations.

Note: All inspections were performed jointly with ZPMC & ABF QA/QC representatives and Caltrans QA Lumley when achievable, International Protective Coatings technical service representatives Alpha Chen and Peng ZiLi also participated in the inspections and were available for 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
