

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-001237**Date Inspected:** 11-Jul-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:** Office, Counterweights, Bikeway Brackets, Li**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

Review ZPMC Inspection reports, sort and organize and file.

Counterweights

Counterweight code numbers: CW22,24,28,30,36 & 44. Were inspected for final completion and found to have defects such as Low/High DFT (Dry Film Thickness) pinholes and fisheyes visible in completed topcoat Interfine 979 and require remediation. Counterweight code numbers: CW10 & CW14 located in adjacent shop were inspected for final top coat application and rejected due to contaminated surfaces and surface cleanliness prior to application.

Bikeway Brackets

Inspection performed for final top coat Interfine 979 application. Surfaces are localized repair areas of flame damages from cutting lifting eyes off the sides, surfaces rejected due to surface contaminants and visible dirt and dust. Items were re-inspected later and found cleaned and application of Interfine 979 proceeded. Areas outside repair areas exhibited dirt and smoke damage and green over spray from spray operations of other materials within the paint shop. ABF rejected all. Bracket codes: BK001-001, BK001-004, BK001-005, BK001-007, BK001-009, BK001-011, BK001-014.

Counterweight

Code # CW16 was coated with Intercure 200 HS on the internal concrete faying surface in the trial assembly area.

SOURCE INSPECTION REPORT

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Note no notice of inspection received for this aspect of work, a verbal request was given to ABF then to Caltrans QA Lumley.

L4E,L4W,L2E,L2W

MEK testing observed 5 rating on areas repaired with Interzinc 22 from trial assembly damages also pencil hardness testing and 2H observed, ZPMC personnel perform SSPC SP-1 to repair areas prior to application of "mist" coat of Interfine 979.

East Tower Lift #1

Internal low DFT (dry film thickness) areas were abrasive blasted to base metal and an SSPC SP-10 condition and Interzinc 22 re-applied from 47.6M-43M diaphragm. Profile amplitude was 70-85um.

Lift 4E

Abrasive blasting to base metal and an SSPC SP-10 condition was performed on areas of trial assembly damages to localized areas of an estimated total surface area of approximately 7-9 square meters, longitudinal stiffeners at the Cross beam attachment area comprised the bulk of the work area, Interzinc 22 was re-applied to surfaces and Profile amplitude was observed at 80um.

Cross Beam #3

Abrasive blasted surfaces were rejected by ABF prior to Caltrans QA arrival to the work area.

Note: All Inspections were performed jointly with ZPMC & ABF QA/QC representatives and Caltrans QA Lumley. International Protective Coatings technical service representative Peng ZiLi was available for inspections and consultation.

Summary of Conversations:

Both ZPMC & ABF QA/QC representatives were informed of requirements of State letter 05.03.01-004556 Dated July 6,2009 regarding application of coatings outside the approved paint shops. Time and personnel notified are on Incident reports.

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
