

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-001308**Date Inspected:** 27-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:** Lift 4 West, Lift 2 East, Lift 2 West, Lift 3 West**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 4 West

Internal floor areas of the East and West side plates and Bottom plate "T" stiffeners and resumed re-abrasive blasting Rust Stain from previously undercoated areas and re-blasting rust and corrosion from damaged areas and re-apply Interzinc 22 to affected areas from Panel Points 28 to terminus and 24 to terminus of lift.

Lift 2 East

Bottom Plate of the Cross Beam /FL-3 Beams internal holes base metal were cleaned in accordance with SSPC SP-3/11 and Interzinc 52 applied.

Lift 2 West

Bottom Plate of the Cross Beam /FL-3 Beams internal holes base metal were cleaned in accordance with SSPC SP-3/11 and Interzinc 52 applied.

Lift 2 West

Panel Point 13 end Floor beam was re-abrasive blasted as well as end floor "T" stiffeners of Side plates and Bottom plate. Damaged previously applied undercoat was removed that exhibited heat damages from dross, slag and weld burns to base metal and an SSPC SP-10 condition and Interzinc 22 re-applied, also the MT area of the Upper Longitudinal weld seam of the top of the Floor Beam stiffener was re-blasted and Interzinc 22 re-applied concurrent with this work. Additional work required to amend heat damages from welding and fabrication operations required to complete repairs, negligent work practices by fabricator caused additional re-work of

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applied undercoat by failing to protect surfaces sufficiently from damages.

Lift 2 East

Repairs were performed to damaged/burned areas of east side Drip Edge at Suspender Bracket and Bikeway Cantilever Bracket attachment areas. Surfaces were abrasive blasted to base metal and an SSPC Sp-10 condition and Interzinc 22 re-applied to damaged areas. Also a single area on the Bottom plate was abrasive blasted to an SSPC SP-10 condition and Interzinc 22 re-applied this area was approximately 1.5 square meters of surface area.

Lift 4 West

Upper Corner Unit repairs were performed consisting of re-abrasive blasting to base metal and an SSPC SP-10 condition and re-application of Interzinc 22, these areas resultant of weld defects and repairs and NDT at ends of floor stiffeners welded to Floor beams and Longitudinal stiffener terminations of Floor beams.

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
Reviewed By:	Carreon,Albert	QA Reviewer
