

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-001327**Date Inspected:** 08-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:** OBG 5CW, OBG 4AE/4BE, OBG 4AW/3BW**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

Attend to project documentation.

OBG 4AE/4BE

Internal surfaces of previously applied Interzinc 22 with ABF QA Bill Oak and Caltrans QA Lumley performed a cursory inspection of the internal surfaces. Previously applied Interzinc 22 exhibited extensive damage from trial assembly process and welding, cutting and burning. Repairs are required prior to transport.

OBG 4AW/3BW

Internal weld seam was abrasive blasted to base metal meeting SSPC SP-10 condition and Interzinc 22 applied. Profile amplitude was 78-80um.

Counterweights

Counterweights numbering CW 30, CW 32 & CW 44 external surfaces were "mist" coated with Interfine 979.

OBG 5CW

Internal base metal surfaces of the "U" rib stiffeners and longitudinal diaphragms were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied. Prior to application typical grinding operations took place followed by re-blasting. VT was performed by Caltrans QA Rodney Patterson. Profile amplitude was 55-77um.

Counterweights

Three counterweights numbering CW 24, CW 26 & CW 28 located in the trial assembly area were attempted to be

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coated with Intercure 200 HS on the internal surfaces. Ambient conditions were not conducive to coating application at the time of inspection and coating application did not proceed.

Sub-Assemblies

Washing and de-greasing operations were observed behind paint shops #1 on the exterior base metal surfaces of 56 diagonal Chevron girders in preparation of abrasive blasting operations.

• Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when possible. International Protective Coatings technical service representatives Mr. Peng ZiLi and Mr. Alpha Chen also participated in the inspection process 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
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Reviewed By:	Carreon,Albert	QA Reviewer
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