

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-002427**Date Inspected:** 08-Feb-2010**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:** Don Walton**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:** Coating Inspection**Bridge No:** 34-0006**Component:** OBG 7DW, Office, Sub-Assemblies, Lift 5 W**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

Compile RFI and Product Data sheets for SMR. Also performed site walk with SMR Guest and checked all areas of possible coatings work.

Sub-Assemblies

Counterweights # 30 & 36 performed required testing on external undercoated surfaces and DFT (Dry Film Thickness) verification prior to application of Mist coat of Interfine 979.

OBG 7DW

External base metal surfaces were re-abrasive blasted to an SSPC SP-10 condition and Interzinc undercoat applied to Bottom and Side Plates and FL-3 Beams.

Sub-Assemblies

Previously top-coated surfaces of Counterweights 32 & 34 which were rejected by ABF for Low DFT and contaminants in the coating were prepared for a second application of top-coat Interfine 979 and subsequent application was performed to amend non-compliant work.

Sub-Assemblies

Undercoated surfaces of 16 Traveler Rail brackets were visually inspected and checked for DFT prior to application of Interfine 979 "Mist" coat. ZPMC cancelled the inspection after the inspection was performed and undercoated surfaces were found to require repairs.

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Sub-Assemblies

Base metal surfaces of 70 splices plates were washed and de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting operations.

Lift 5 West

ZPMC personnel performing touch up and repairs and applying Interzinc 22 undercoat to amend required repairs of the internal previously undercoated surfaces and damages. Also previously blasted and undercoated areas of the External East Side Plate were found to have insufficient DFT of undercoating around perimeter of the repaired area at the "mist" coat interface as ZPMC personnel sanded too much coating off during the feathering process. Subsequently repairs are required prior to application of "Mist" coat.

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
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Reviewed By:	Peterson,Art	QA Reviewer
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