

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-002268**Date Inspected:** 15-Apr-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 9BE, Sub-Assemblies, OBG 9CW**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 and files, also report writing and ASMR paint summary.

OBG 9BE

External undercoated surfaces were tested for adhesion and the following values obtained: 1) 5.57Mpa, 2) 7.01Mpa, 3) 13.27Mpa, 4) 6.87Mpa, 5) 7.25Mpa, 6) 7.72Mpa.

OBG 9CW

Internal and external base metal surfaces were washed and de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting operations.

Sub-Assemblies

Base metal surfaces of X37J, X37K, X38A, X38B, X38D, X38H, X38L Splice plates totaling 413 pieces and 2-Upper Corner Unit GGL-MQ-1428 assemblies and 24-X37A plates and 45 Cable Support assemblies were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied. Chloride value of 10µs/cm and profile amplitude of 50-86µm were observed.

Sub-Assemblies

Base metal surfaces of 62- X37A plates were washed and degreased in accordance with SSPC Sp-1 in preparation of abrasive blasting.

OBG 9BE

SOURCE INSPECTION REPORT

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External undercoated surfaces were tested for hardness, cure, and chlorides prior to application of “mist” coat of Interfine 979. MEK testing exhibited a rating of 5 for all areas and chloride values were 10,10µs/cm. Interfine 979 Mist coating was applied after additional blow down operations to remove dust and after masking was completed to protect faying surfaces and locations of end weld seams.

OBG 9CE

Base metal surfaces of the internal upper “U” Rib Stiffeners and Upper FL-2-1 and Upper Chevron Assemblies and Floor Beam diaphragms were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied. Prior to coating and finish blasting a VT blast was performed for weld and base metal and areas mapped accordingly by Caltrans QA Larry Viars and other personnel.

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:	Peterson,Art	QA Reviewer
