

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-001484**Date Inspected:** 18-Apr-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 700**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 1BW, OBG 2AW, OBG 2AE, Sub-Assemblies**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:

OBG 1BW

Joint three party inspection of blasted base metal faying surfaces between "U" rib stiffeners for continuity plate installation. Profile amplitude was 82-84. 20 locations were blasted and coated with Interzinc 22.

OBG 2AW

Joint three party inspection of blasted base metal faying surfaces between "U" rib stiffeners for continuity plate installation. Profile amplitude was 80. 20 locations were blasted and coated with Interzinc 22.

OBG 2BW

Joint three party inspection was performed for adhesion testing and the following values were observed: 1). 10.74Mpa 2). 6.86Mpa 3). 6.03Mpa 4). 8.04Mpa 5). 5.21 Mpa.

Bikeway Brackets

MEK testing was performed all tests exhibited a 5 rating, also Chloride testing was performed and 20us/cm was observed. All pencil hardness testing was 2H value and quarter rub test were satisfactory on exterior surfaces coated with Interzinc 22.

Counterweights

Joint three party inspection was performed on these units. Grinding operations took place followed by re-blasting on base metal surfaces. Profile amplitude was 68-72um and application of Interzinc 22 commenced.

Sub-Assemblies

SOURCE INSPECTION REPORT

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Splice plates and angle iron approximately 80 pieces as well as “T” stiffener sub-assemblies base metal surfaces were abrasive blasted and coated with Interzinc 22. Also cable tray assemblies were incorporated into this as well. OBG 2AE

Chloride Testing was performed and all testing was below specified minimum value 10-20us/cm. Edge grinding was also performed on floor “T” stiffeners prior to abrasive blasting operations. No coating application.

Note: All inspections were performed jointly with ZPMC&ABF QA/QC representatives and Caltrans QA Lumley.

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:	Miller,Mark	QA Reviewer
