

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave. St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-003208**Date Inspected:** 18-Apr-2011**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:** Coatings Inspection**Bridge No:** 34-0006**Component:** Sub-Assemblies (OBG) and Sub-Assemblies**Bid Item:** 77,78,79**Lot No:****Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Sub-Assemblies (OBG)

Splices X4077 (114 Each), Splices X4068 (204 Each) and West Anchor Plate WAAD-001 (4 Each), NOI Number 6239: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Splices X4077 (114 Each), Splices X4068 (204 Each) and West Anchor Plate WAAD-001 (4 Each) for dry film thickness (DFT) compliance. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Splices X3822H (48 Each), Splices X3822J (48 Each), X3822G (58 Each), Splices X3822D (50 Each) and Crash Barriers (4 Each), NOI Number 6241: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Splices X3822H (48 Each), Splices X3822J (48 Each), X3822G (58 Each), Splices X3822D (50 Each) and Crash Barriers (4 Each). Test results recorded x3 surface profile readings in the range of 73 to 78 μm and x1 soluble salts reading of 15.1 ($\mu\text{s/cm}$). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required grinding and blasting.

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Galvanized Traveler Rails (43 Each), NOI Number 6242: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Galvanized Traveler Rails (43 Each) in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barriers External (3 Each), NOI Number 6243: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Crash Barriers External (3 Each) was tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT), ISO 11127-6, ISO 11127-7 (Residual Chlorides) and ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to low DFT readings.

Splices X3822H (48 Each), Splices X3822J (48 Each), X3822G (58 Each), Splices X3822D (50 Each) and Crash Barriers (4 Each), NOI Number 6244: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Splices X3822H (48 Each), Splices X3822J (48 Each), X3822G (58 Each), Splices X3822D (50 Each) and Crash Barriers (4 Each). No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Galvanized Traveler Rails (43 Each) and Facade Cover Plate Back Side 150mm Edges (18 Each), NOI Number 6246: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Galvanized Traveler Rails (43 Each) and in preparation for finish coat Interfine 979 Polysiloxane installation Quality Assurance/Control representatives observed the surface preparation on Facade Cover Plate Back Side 150mm Edges (18 Each). No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Sub-Assemblies (Tower)

Tower Head Sub-assembly Plates (SSD1-TPSA6-1 and NSD1-TPSA6-1) and Brake Supports (6 Each), NOI Number T2044: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Tower Head Sub-assembly Plates (SSD1-TPSA6-1 and NSD1-TPSA6-1) and Brake Supports (6 Each). Test results recorded x3 surface profile readings in the range of 68 to 80 μm and x1 soluble salts reading of 25.1 ($\mu\text{s/cm}$). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required grinding and blasting.

Tower Head Sub-assembly Plates (SSD1-TPSA6-1 and NSD1-TPSA6-1) and Brake Supports (6 Each), NOI Number T2046: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Tower Head Sub-assembly Plates (SSD1-TPSA6-1 and NSD1-TPSA6-1) and Brake Supports (6 Each). No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

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Tower Splices PL6-75 (18 Each), PL6-69 (10 Each), BP6-8 (2 Each) and BP6-7 (2 Each), NOI Number T2047: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Tower Splices PL6-75 (18 Each), PL6-69 (10 Each), BP6-8 (2 Each) and BP6-7 (2 Each) in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Office

This Quality Assurance Inspector (QA) reviewed, recorded and entered data from notice of inspection requests for the purpose of tracking and compliance to contract documents.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

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 , who represents the Office of Structural Materials for your project.

Inspected By:	Cason,Kenneth	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer
