

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:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-003102**Date Inspected:** 11-Mar-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)

Crash Barriers (8 Each), NOI Number 5931: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Crash Barriers (8 Each) were tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT) and ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub). All test results were acceptable and within desired limits with x2 MEK @ grade 5 and x1 soluble salts recorded reading of (17.5 µs/cm). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barriers (4 Each), NOI Number 5931: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Crash Barriers (4 Each) for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to holidays and Interzinc 52 undercoat on faying surfaces.

Bike Path Panels BK5A-003 and BK4C-024, NOI Number 5932: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Bike Path Panels BK5A-003 and BK4C-024 was tested

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in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT) and ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub). All test results were acceptable and within desired limits with x2 MEK @ grade 4 and 5 and x1 soluble salts recorded reading of (28.3 $\mu\text{s}/\text{cm}$). ABF and ZPMC QA/QC recorded DFT readings of 95 to 168 microns. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

OBG Assembly Plates DP3169, DP3170 and DP3171, NOI Number 5933: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on OBG Assembly Plates DP3169, DP3170 and DP3171 for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection.

Splices (29 Each), L-Splices (5 Each) and Shim Plates (31 Each), NOI Number 5934: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Splices (29 Each), L-Splices (5 Each) and Shim Plates (31 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.

OBG Assembly Plates DP3175, DP3176, DP3177 and L-Splices (60 Each), NOI Number 5935: 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 OBG Assembly Plates DP3175, DP3176, DP3177 and L-Splices (60 Each). L-Splices (60 Each) accepted, ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection of OBG Assembly Plates DP3175, DP3176, DP3177.

OBG Assembly Plates DP3175, DP3176 and DP3177, NOI Number 5936: 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 OBG Assembly Plates DP3175, DP3176 and DP3177. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Anchor Bearing Blocks (47 Each) and Assembly Plate SA8008, NOI Number 5937: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Anchor Bearing Blocks (47 Each) and Assembly Plate SA8008 in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Sub-Assemblies (Tower)

Tower Head Diaphragms ESD1-DPSA6-2, ESD1-DPSA6-10, ESD1-DPSA6-13, WSD1-DP6A-4, WSD1-DP6A-8 and WSD1-DP6A-12, NOI Number T2009: 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 Diaphragms ESD1-DPSA6-2, ESD1-DPSA6-10, ESD1-DPSA6-13, WSD1-DP6A-4, WSD1-DP6A-8 and WSD1-DP6A-12. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to required additional grinding and blasting.

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Tower Head Diaphragms ESD1-DPSA6-2, ESD1-DPSA6-10, ESD1-DPSA6-13, WSD1-DP6A-4, WSD1-DP6A-8 and WSD1-DP6A-12, NOI Number T2010: 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 Diaphragms ESD1-DPSA6-2, ESD1-DPSA6-10, ESD1-DPSA6-13, WSD1-DP6A-4, WSD1-DP6A-8 and WSD1-DP6A-12. Test results recorded x3 surface profile readings of 84 to 86 μm . No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Tower Head Diaphragms ESD1-DPSA6-2, ESD1-DPSA6-10, ESD1-DPSA6-13, WSD1-DP6A-4, WSD1-DP6A-8 and WSD1-DP6A-12, NOI Number T2011: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Tower Head Diaphragms ESD1-DPSA6-2, ESD1-DPSA6-10, ESD1-DPSA6-13, WSD1-DP6A-4, WSD1-DP6A-8 and WSD1-DP6A-12 for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-submit for inspection due to uncured Interzinc 22 undercoat.

H Assembly Plates SA3066 and SA3067, NOI Number T2013: 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 H Assembly Plates SA3066 and SA3067. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to required additional grinding and blasting.

H-Assembly Plates SA3066 and SA3067, NOI Number T2014: 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 H-Assembly Plates SA3066 and SA3067. 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
