

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-003546**Date Inspected:** 25-Jul-2011**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:** Steve Lawton**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)**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)

L13E Top Plate Assembly SA3412, NOI Number 7776: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Top Plate Assembly SA3412 for dry film thickness (DFT) and final VT compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects in the applied Interzinc 22 undercoating.

Z-Splices L13E/W and L14E/W (8 Each), Triangle Splices (7 Each), Miscellaneous Seal Plates 2368 (99 Each) and Lift Frame Shim Plates (12 Each), NOI Number 7777: 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 Z-Splices L13E/W and L14E/W (8 Each), Triangle Splices (7 Each), Miscellaneous Seal Plates 2368 (99 Each) and Lift Frame Shim Plates (12 Each). Test results recorded x3 surface profile readings in the range of 78 to 83 μm . No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L13E East Section Floor from PP120.5 to PP121, NOI Number 7778: In preparation for undercoat installation and

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in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13E East Section Floor from PP120.5 to PP121. Test results recorded x3 surface profile readings in the range of 80 to 84 μm and x1 soluble salts recorded reading of 35.5 ($\mu\text{s/cm}$).

No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L13E West Section Ceiling and Vertical of Floor Beam from PP120 to PP120.5 Damaged Areas, NOI Number 7779: 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 L13E West Section Ceiling and Vertical of Floor Beam from PP120 to PP120.5 Damaged Areas. Test results recorded x3 surface profile readings in the range of 48 to 65 μm . No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L13W Top Plate Assembly SA3232, NOI Number 7780: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13W Top Plate Assembly SA3232 for dry film thickness (DFT) and final VT compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects in the applied Interzinc 22 undercoating.

L13E Top Plate Assembly SA3412, NOI Number 7781: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Top Plate Assembly SA3412 for dry film thickness (DFT) and final VT compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects in the applied Interzinc 22 undercoating.

L13E Top Plate Assembly SA3412, NOI Number 7782: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Top Plate Assembly SA3412 for dry film thickness (DFT) and final VT compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects in the applied Interzinc 22 undercoating.

L13E Top Plate Assembly SA3412, NOI Number 7783: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Top Plate Assembly SA3412 for dry film thickness (DFT) and final VT compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects in the applied Interzinc 22 undercoating.

L13E Top Plate Assembly SA3412, NOI Number 7784: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Top Plate Assembly SA3412 for dry film thickness (DFT) and final VT compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects in the applied Interzinc 22 undercoating.

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

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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
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Reviewed By:	Miller,Mark	QA Reviewer
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