

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-003543**Date Inspected:** 29-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 Internal West Section Ceiling and Vertical of Floor Beam from PP120 to PP121, NOI Number 7900: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Internal West Section Ceiling and Vertical of Floor Beam from PP120 to PP121 for 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 Internal Middle Section Ceiling and Vertical of Floor Beam from PP120 to PP124.5, NOI Number 7900: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Internal Middle Section Ceiling and Vertical of Floor Beam from PP120 to PP124.5 for 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 Internal Middle Section Ceiling and Vertical of Floor Beam from End Weld Seam to PP118, NOI Number 7900: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives

SOURCE INSPECTION REPORT

(Continued Page 2 of 4)

observed the surface condition on L13E Internal Middle Section Ceiling and Vertical of Floor Beam from End Weld Seam to PP118 for 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 Internal East Section Ceiling and Vertical of Floor Beam from End Weld Seam to PP118, NOI Number 7900: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Internal East Section Ceiling and Vertical of Floor Beam from End Weld Seam to PP118 for 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 Internal West Section Ceiling and Vertical of Floor Beam from End Weld Seam to PP118, NOI Number 7900: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Internal West Section Ceiling and Vertical of Floor Beam from End Weld Seam to PP118 for 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.

Cross Beam 18 Internal Ceiling Remaining Part, NOI Number 7901: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Cross Beam 18 Internal Ceiling Remaining Part for final VT compliance. No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barriers External Surfaces (re-blast) (12 Each), NOI Number 7902: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Crash Barriers External Surfaces (re-blast) (12 Each) was 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). Test results were recorded with x1 MEK @ 5 and x1 soluble salts recorded reading of 20.9 ($\mu\text{s}/\text{cm}$). No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L13W Internal Surface Damaged Areas, NOI Number 7904: 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 L13W Internal Surface Damaged Areas. Test results recorded x3 surface profile readings in the range of 68 to 76 μm . No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L13E Internal Middle Section Ceiling and Vertical of Floor Beam from PP120 to PP121, NOI Number 7905: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Internal Middle Section Ceiling and Vertical of Floor Beam from PP120 to PP121 for 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 Internal Middle Section Ceiling and Vertical of Floor Beam from PP122 to PP124.5, NOI Number 7905: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Internal Middle Section Ceiling and Vertical of Floor Beam from PP122 to PP124.5 for final VT compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection

SOURCE INSPECTION REPORT

(Continued Page 3 of 4)

due to defects in the applied Interzinc 22 undercoating.

L13E Internal West Section Damaged Areas from PP118 to PP117.5, NOI Number 7906: 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 Internal West Section Damaged Areas from PP118 to PP117.5. Test results recorded x1 surface profile reading of 47 μm . No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L13E Internal Middle Section Ceiling and Vertical of Floor Beam from PP120 to PP121, NOI Number 7907: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Internal Middle Section Ceiling and Vertical of Floor Beam from PP120 to PP121 for 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 Internal Middle Section Ceiling and Vertical of Floor Beam from PP122 to PP124.5, NOI Number 7907: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Internal Middle Section Ceiling and Vertical of Floor Beam from PP122 to PP124.5 for 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.

L13W Architectural Housing Cover Plate SA3250, NOI Number 7908: 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 L13W Architectural Housing Cover Plate SA3250. Test results recorded x3 surface profile readings in the range of 81 to 83 μm . No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L13E Internal Middle Section Ceiling and Vertical of Floor Beams from PP120 to PP121, NOI Number 7909: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Internal Middle Section Ceiling and Vertical of Floor Beams from PP120 to PP121 for final VT compliance. No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L13E Internal Middle Section Ceiling and Vertical of Floor Beams from PP122 to PP124.5, NOI Number 7909: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Internal Middle Section Ceiling and Vertical of Floor Beams from PP122 to PP124.5 for 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 Internal Middle Section Ceiling and Vertical of Floor Beams from PP122 to PP124.5, NOI Number 7910: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Internal Middle Section Ceiling and Vertical of Floor Beams from PP122 to PP124.5 for 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.

SOURCE INSPECTION REPORT

(Continued Page 4 of 4)

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
