

**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-003052**Date Inspected:** 06-Dec-2010**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:** OBG, Sub-Assemblies (OBG) and Office.**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:

OBG

11CW/11DW Internal Weld Seam Surface, NOI Number 5252: 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 11CW/11DW Internal Weld Seam Surface. Test results recorded x3 surface profile readings in the range of 80 to 83  $\mu\text{m}$ . No discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

12CW OBG Internal Floor Surface, NOI Number 5253: 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 12CW OBG Internal Floor Surface. Test results recorded x1 soluble salts reading of 11.1 ( $\mu\text{s/cm}$ ). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to insufficient surface preparation (grinding, weld repairs and additional blasting required).

12CW OBG Internal Floor Surface, NOI Number 5259: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control

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## SOURCE INSPECTION REPORT

( Continued Page 2 of 3 )

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representatives observed the surface preparation on 12CW OBG Internal Floor Surface. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to insufficient surface preparation (additional blasting required).

### Sub-Assemblies (OBG)

Crash Barriers Internal Surfaces (8 Each), NOI Number 5254: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Crash Barrier Internal Surfaces (8 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.

Crash Barriers Internal Surfaces (23 Each), NOI Number 5255: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Crash Barriers Internal Surfaces (23 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). Test results recorded x1 soluble salts reading of 8.0 ( $\mu\text{s/cm}$ ) and x3 MEK resistance 2 @ grade 5 and 1 @ grade 4 ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to high DFT readings.

Service Platform SP5-02 and SP6-02, NOI Number 5257: 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 Service Platform SP5-02 and SP6-02. No discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barriers (30 Each), NOI Number 5261: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Crash Barriers (30 Each) in preparation for blasting operations. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to the presence of oil and grease on substrate.

### Office

Attend to report writing and photo documentation.

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.

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## SOURCE INSPECTION REPORT

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**Inspected By:** Cason, Kenneth

Quality Assurance Inspector

**Reviewed By:** Miller, Mark

QA Reviewer