

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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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-002915**Date Inspected:** 30-Nov-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

12BE OBG Internal Surface, NOI Number 5193: In accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives recorded the results of adhesion testing. 12BE OBG Internal Surface recorded are x4 9.03 mPa 90% c, 9.28 mPa 60% c and 8.68 mPa 90% c. Test number 4 failed. ABF Quality Assurance personnel instructed ZPMC to re-apply dolly and re-submit for inspection prior to proceeding with process to the next check point.

12CE OBG Entire External Surface and Internal Floor (Two Small Parts from PP116 to PP117), NOI Number 5194: 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 12CE OBG Entire External Surface and Internal Floor (Two Small Parts from PP116 to PP117). Recorded x3 soluble salts readings of 18.7, 18.6 and 19.1 ( $\mu\text{s/cm}$ ) was satisfactory. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to insufficient surface preparation (additional grinding and blasting required).

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12BE OBG Internal Ceiling Surface, NOI Number 5194A: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on 12BE OBG Internal Ceiling Surface for dry film thickness (DFT) compliance. No discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

12CE OBG Entire External Surface and Internal Floor (Two Small Parts from PP116 to PP117), NOI Number 5197: 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 12CE OBG Entire External Surface and Internal Floor (Two Small Parts from PP116 to PP117). Recorded x9 surface profile readings within the range of 71 to 84  $\mu\text{m}$ . 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)

Bike Path Panels BK4A-005 and BK4A-012, NOI Number 5195: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Bike Path Panels BK4A-005 and BK4A-012 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 x2 soluble salts reading of 11.0 and 9.2 ( $\mu\text{s/cm}$ ) and x4 MEK resistance 4 @ grade 5. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Shim Plates X3294M (33 Each), Stiffeners (120 Each), NOI Number: 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 Shim Plates X3294M (33 Each), Stiffeners (120 Each). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Hinge SEG3020K-FB3327, NOI Number 5198: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Hinge SEG3020K-FB3327 for dry film thickness (DFT) compliance. No discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

## 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

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remedial efforts please contact , who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Cason,Kenneth	Quality Assurance Inspector
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<b>Reviewed By:</b>	Miller,Mark	QA Reviewer
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