

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-003036**Date Inspected:** 10-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:****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

11BE/11CE and 11BW/11CW Internal Weld Seam Surface, NOI Number 5305: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on 11BE/11CE and 11BW/11CW Internal Weld Seam Surface were tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT). 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). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to insufficient coating installation (holidays). No testing conducted.

11BE/11CE and 11BW/11CW External Weld Seam Surface, NOI Number 5309: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on 11BE/11CE and 11BW/11CW External Weld Seam Surface for dry film thickness (DFT) compliance. Test results recorded x1 soluble salts reading of 19.2 ($\mu\text{s/cm}$) and x2 MEK resistance test with 2 @ grade 5. No discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

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Sub-Assemblies (OBG)

OBG Assembly Plates SP3134A, AP3020 and AP3021, NOI Number 5304: 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 SP3134A, AP3020 and AP3021. Test results recorded x1 soluble salts reading of 7.9 ($\mu\text{s/cm}$) and x2 surface profile readings in the range of 81 to 86 μm . No discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Counterweight Man Hole Cover Plates WP-2 (10 Each), NOI Number 5306: 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 Counterweight Man Hole Cover Plates WP-2 (10 Each). No discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barriers External Surfaces (5 Each), NOI Number 5307: In preparation for finish coat Interfine 979 Polysiloxane installation and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Crash Barrier External Surfaces (5 Each). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Bike Path Panel (6 Each), NOI Number 5308: In preparation for finish coat Interfine 979 Polysiloxane installation and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Bike Path Panel (6 Each). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to insufficient coating installation (MEK test failure).

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.

Inspected By:	Cason,Kenneth	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer
