

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-003039**Date Inspected:** 07-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 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

11CE/11DE Internal Weld Seam Surface, NOI Number 5265: 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 11CE/11DE Internal Weld Seam Surface. Test results recorded x3 surface profile readings in the range of 77 to 84 μm . No discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

12CE OBG External Surfaces, NOI Number 5266: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on 12CE OBG External Surfaces 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). Test results recorded x2 soluble salts reading of 15.2 and 5.9 ($\mu\text{s/cm}$) and x6 MEK resistance test with 6 @ grade 5. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection.

SOURCE INSPECTION REPORT

(Continued Page 2 of 3)

12CW OBG Internal Floor Surface, NOI Number 5267: 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 x2 soluble salts reading of 9.7 and 14.6 ($\mu\text{s}/\text{cm}$). 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).

12CE OBG External Surfaces, NOI Number 5268: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on 12CE OBG External Surfaces 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). No discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Sub-Assemblies (OBG)

Crash Barriers (30 Each), NOI Number 5269: 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 Crash Barriers (30 Each). Test results recorded x1 soluble salts reading of 16.8 ($\mu\text{s}/\text{cm}$) and x3 surface profile readings in the range of 82 to 86 μm . ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to insufficient surface preparation (grinding and additional blasting required).

Crash Barriers (30 Each), NOI Number 5269A: 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 Crash Barriers (30 Each). Test results recorded x1 soluble salts reading of 16.8 ($\mu\text{s}/\text{cm}$) and x3 surface profile readings in the range of 82 to 86 μm . ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to insufficient surface preparation (grinding and additional blasting required).

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.

SOURCE INSPECTION REPORT

(Continued Page 3 of 3)

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