

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-002989**Date Inspected:** 09-Jan-2011**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:** 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:

Sub-Assemblies (OBG)

Crash Barrier External Surfaces (4 Each), NOI Number 5667: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Crash Barrier External Surfaces (4 Each) for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-submit for inspection prior to proceeding with process to the next check point due to DFT readings high and low out of specification range and incomplete caulking installation.

Bike Path Panels (3 Each), NOI Number 5669: 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 Panels (3 Each). ABF Quality Assurance personnel instructed ZPMC to re-submit for inspection prior to proceeding with process to the next check point due to insufficient surface cleanliness.

Service Platform SP6-02, NOI Number 5670: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Service Platform SP6-02 was tested in accordance with SSPC-SP 1

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(Surface Cleanliness). ABF Quality Assurance personnel instructed ZPMC to re-submit for inspection prior to proceeding with process to the next check point due to Failed MEK test results.

Suspender Brackets (8 Each) and Traveler Rail Brackets (8 Each), NOI Number 5672: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Suspender Brackets (8 Each) and Traveler Rail Brackets (8 Each) was tested in accordance with SSPC-SP 1 (Surface Cleanliness). ABF Quality Assurance personnel instructed ZPMC to re-submit for inspection prior to proceeding with process to the next check point due to Failed MEK test results.

Anchor Plate AP3032-001, OBG Assembly Plates (11 Each), Cover Plate GC5-22 (12 Each), L-Splices (42 Each) and OBG Splices (309 Each), NOI Number 5673: 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 Anchor Plate AP3032-001, OBG Assembly Plates (11 Each), Cover Plate GC5-22 (12 Each), L-Splices (42 Each) and OBG Splices (309 Each). Anchor Plate AP3032-001, OBG Assembly Plates (11 each) required additional grinding and blasting and ABF Quality Assurance personnel instructed ZPMC to re-submit for inspection prior to proceeding with process to the next check point. No discrepancies noted on Cover Plate GC5-22 (12 each), L-Splices (42 each) and OBG Splices (309 each) and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Bike Path Panels BK4A-018, NOI Number 5674: 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 Panels BK4A-018. ABF Quality Assurance personnel instructed ZPMC to re-submit for inspection prior to proceeding with process to the next check point due to insufficient surface cleanliness.

Anchor Plate AP3032-001, OBG Assembly Plate OP3122-001 and OBG Splices (96 Each), NOI Number 5678: 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 Anchor Plate AP3032-001, OBG Assembly Plate OP3122-001 and OBG Splices (96 Each). Test results recorded x3 surface profile readings in the range of 61 to 86 μm and x1 soluble salts reading of 20.5 ($\mu\text{s/cm}$). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

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

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

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