

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-002941**Date Inspected:** 07-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:** 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 Barriers External Surface (92 Each), NOI Number 4901: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 on Crash Barriers External Surfaces (92 Each) were tested in accordance with SSPC-SP 1 (Surface Cleanliness). ABF and ZPMC Quality Assurance/Control representatives noted discrepancies requiring touch up of the Interzinc 22. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point.

SB86E, 88E, 90E, 92E, 94E, 86W88W, 90W92W and 94W Suspender Brackets, NOI Number 4902: In preparation for finish coat installation of Interfine 979 Polysiloxane, SB86E, 88E, 90E, 92E, 94E, 86W88W, 90W92W and 94W Suspender Brackets were tested in accordance with SSPC-SP 1 (Surface Cleanliness). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barrier Cover Plates (239 Each), NOI Number 4902A: In accordance with project specifications and SSPC-SP 1, ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Crash

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Barrier Cover Plates (239 Each) in preparation for Interzinc 22 installation. Bresle Method to assess the level of soluble salts using a patch, distilled water and a conductivity gauge in accordance ISO 11127-6 and ISO 11127-7 were satisfactory with readings x1 (13.715.7 $\mu\text{s/cm}$) and x3 surface profile readings indicated surface profiles in the 77 to 81 μm range. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

BK5A-001 Bike Path Panel, NOI Number 4903: In accordance with project specifications and SSPC-SP 1, ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on BK5A-001 Bike Path Panel in preparation for Interzinc 22 installation. Bresle Method to assess the level of soluble salts using a patch, distilled water and a conductivity gauge in accordance ISO 11127-6 and ISO 11127-7 were satisfactory with readings x1 (16.3 $\mu\text{s/cm}$) and x3 surface profile readings indicated surface profiles in the 80 to 83 μm range. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barrier Cover Plates External Surfaces (472 Each), NOI Number 4905: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Crash Barrier Cover Plates External Surfaces were tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT) and ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub). All test results were acceptable and within desired limits. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

11DE Cross Beam Bottom Plate, NOI Number 4907: In accordance with project specifications and SSPC-SP 1, ABF and ZPMC Quality Assurance/Control representatives observed the surface cleanliness on 11DE Cross Beam Bottom Plate in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

GGL-MQ-695 (650 Each) and GGL-MQ-699 (50 Each) Shim Plates, NOI Number 4908: In accordance with project specifications and SSPC-SP 1, ABF and ZPMC Quality Assurance/Control representatives observed the surface cleanliness on GGL-MQ-695 (650 Each) and GGL-MQ-699 (50 Each) Shim Plates in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

CW86, 88, 90, 92 and 94 Counter Weight Cover Plates External Surfaces (10 Each), NOI Number 4910: In preparation for finish coat installation of Interfine 979 Polysiloxane, CW86, 88, 90, 92 and 94 Counter Weight Cover Plates External Surfaces (10 Each) were tested in accordance with SSPC-SP 1 (Surface Cleanliness). No discrepancies noted and 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.

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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
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Reviewed By:	Miller,Mark	QA Reviewer
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