

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-003311**Date Inspected:** 27-May-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 1500**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 300**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)**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)

13AW Cross Beam Terminal Diaphragm Faying Surfaces and 13AW Bottom Plate Faying Surfaces, NOI Number 6736: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on 13AW Cross Beam Terminal Diaphragm Faying Surfaces and 13AW Bottom Plate Faying Surfaces for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point due to holidays and welding in progress.

Architectural Housing Cover Plate Externals SA7535A and SA7047A, NOI Number 6738: 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 Architectural Housing Cover Plate Externals SA7535A and SA7047A. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

13AE Internal East Slope from PP118 to PP119, NOI Number 6739: In accordance with project specifications,

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ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on 13AE Internal East Slope from PP118 to PP119 in preparation for blasting operations. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to the presence of oil and grease on substrate.

14AW Cross Beam Bottom Plate, NOI Number 6740: 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 14AW Cross Beam Bottom Plate. No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

13AE Internal West Section Ceiling from PP118 to PP119-1500, NOI Number 6741: 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 13AE Internal West Section Ceiling from PP118 to PP119-1500. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point due to additional required blasting.

13AW Cross Beam Terminal Diaphragm and 13AW Bottom Plate Faying Surfaces, NOI Number 6742: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on 13AW Cross Beam Terminal Diaphragm and 13AW Bottom Plate Faying Surfaces for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point due to out of range DFT readings.

13AE Internal West Section ceiling from PP118 to PP119-1500, NOI Number 6743: 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 13AE Internal West Section ceiling from PP118 to PP119-1500. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point due to additional required blasting.

13AE Internal East Slope from PP118 to PP119, NOI Number 6744: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on 13AE Internal East Slope from PP118 to PP119 in preparation for blasting operations. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to incomplete process (washing not conducted).

13AW Internal Entire Surface from End Weld Seam to PP118, NOI Number 6745: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on 13AW Internal Entire Surface from End Weld Seam to PP118 in preparation for blasting operations. No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

13AE Internal West Section Ceiling & Vertical of Floor Beam from PP118 to PP119-1500, NOI Number 6746: 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 13AE Internal West Section Ceiling & Vertical of Floor Beam from PP118 to PP119-1500. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point due to additional required blasting.

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13AE Internal West Section Ceiling & Vertical of Floor Beam from PP118 to PP119-1500, NOI Number 6747: 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 13AE Internal West Section Ceiling & Vertical of Floor Beam from PP118 to PP119-1500. Test results recorded x3 surface profile readings in the range of 76 to 84 μm and x1 soluble salts reading of 18.5 ($\mu\text{s/cm}$). ABF Quality Assurance personnel accepted surface preparation above scaffolding only after minor re-blasting. No other areas were accepted and were noted on NOI. ABF Quality Assurance personnel instructed ZPMC to re-submit for inspection remaining areas prior to proceeding 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 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
