

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-003344**Date Inspected:** 30-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)

Splices SEG5008A (253 Each) and ZPO6-787-2310-2-3 (50 Each), NOI Number 6780: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Splices SEG5008A (253 Each) and ZPO6-787-2310-2-3 (50 Each) for dry film thickness (DFT) compliance. Recorded DFT readings were high out of specification range. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding to the next check point.

Splices (129 Each), NOI Number 6781: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Splices (129 Each) in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

13AE Internal West and Middle Sections Ceiling and Vertical of Floor Beam PP120.5 to PP124.5, NOI Number 6782: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on 13AE Internal West and Middle Sections Ceiling and Vertical of Floor Beam

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PP120.5 to PP124.5 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.

13AW Internal West Section Floor & Vertical Floor Beam from End Weld Seam to PP118, NOI Number 6783: 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 13AW Internal West Section Floor & Vertical Floor Beam from End Weld Seam to PP118. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding to the next check point due to additional required blasting.

13AE Internal Entire Surface from PP119-1.5M to PP119 (1.5M on Both Sides of PP119), NOI Number 6784: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on 13AE Internal Entire Surface from PP119-1.5M to PP119 (1.5M on Both Sides of PP119) in preparation for blasting operations. ABF Quality Assurance personnel instructed ZPMC to re-submit for inspection prior to proceeding to the next check point due to the omission of the washing procedure which is required in accordance with the project (PQWP) Paint Quality Work Plan (Rev. 5).

13AW Internal West Section Floor & Vertical Floor Beam from End Weld Seam to PP118, NOI Number 6785: 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 13AW Internal West Section Floor & Vertical Floor Beam from End Weld Seam to PP118. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding to the next check point due to additional required blasting.

13AW Internal West Section Floor & Vertical Floor Beam from End Weld Seam to PP118, NOI Number 6786: 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 13AW Internal West Section Floor & Vertical Floor Beam from End Weld Seam to PP118. Test results recorded x3 surface profile readings in the range of 78 to 81 μm and x1 soluble salts reading of 18.7 ($\mu\text{s/cm}$). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding to the next check point due to additional required grinding and blasting.

13AW Internal West Section Floor & Vertical Floor Beam from End Weld Seam to PP118, NOI Number 6787: 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 13AW Internal West Section Floor & Vertical Floor Beam from End Weld Seam to PP118. The surface preparation does not meet SSPC-SP10 requirements but ZPMC has elected to mask off defective areas and re-work after initial primer application. Approximately 30 separate defect locations were identified.

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.

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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
