

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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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-003564**Date Inspected:** 01-Jul-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 700**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)

Crash Barriers (11 Each), Cross Beam 19 Shim Plates (16 Each) and L-Splices (2 Each), NOI Number 7252: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Crash Barriers (11 Each), Cross Beam 19 Shim Plates (16 Each) and L-Splices (2 Each) 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.

L13E Internal East Section Floor from PP 118 to PP119-1.5M, NOI Number 7253: 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 L13E Internal East Section Floor from PP 118 to PP119-1.5M. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L13E Internal Middle Section Floor from PP119+1.5M to PP120, NOI Number 7253: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC

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Quality Assurance/Control representatives observed the surface preparation on L13E Internal Middle Section Floor from PP119+1.5M to PP120. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L13W Internal West Section Floor and Vertical of Floor Beam from PP122.5 to End Weld Seam, NOI Number 7255: 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 L13W Internal West Section Floor and Vertical of Floor Beam from PP122.5 to End Weld Seam. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to obscured visual of substrate (grit on surface).

L14 Internal East Section Anchor Plate Ceiling & Vertical of Floor Beam, NOI Number 7255A: 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 L14 Internal East Section Anchor Plate Ceiling & Vertical of Floor Beam. Test results recorded x2 surface profile readings in the range of 71 to 82 μm and x2 soluble salts recorded readings in the range of 21.2 to 22.9 ($\mu\text{s/cm}$). No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L13W Internal West Section Floor and Vertical of Floor Beam from PP122.5 to End Weld Seam, NOI Number 7256: 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 L13W Internal West Section Floor and Vertical of Floor Beam from PP122.5 to End Weld Seam. Test results recorded x3 surface profile readings in the range of 80 to 84 μm and x3 soluble salts recorded readings in the range of 11.7 to 23.0 ($\mu\text{s/cm}$). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L14W Internal East Section Ceiling and Vertical of Floor Beam from End Weld Seam to OBG End, NOI Number 7257: 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 L14W Internal East Section Ceiling and Vertical of Floor Beam from End Weld Seam to OBG End. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L14W Internal East Section Ceiling and Vertical of Floor Beam from End Weld Seam to OBG End, NOI Number 7258: 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 L14W Internal East Section Ceiling and Vertical of Floor Beam from End Weld Seam to OBG End. Test results recorded x3 surface profile readings in the range of 74 to 84 μm and x5 soluble salts recorded readings in the range of 19.0 to 29.5 ($\mu\text{s/cm}$). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L14W Internal East Section Ceiling and Vertical of Floor Beam from End Weld Seam to OBG End, NOI Number 7260: 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 L14W Internal East Section Ceiling and Vertical of Floor Beam from End Weld Seam to OBG End. No major

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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 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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