

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-003563**Date Inspected:** 02-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)

L14E Internal East Section Floor & Vertical of Floor Beam from PP126 to 127.5, NOI Number 7267: 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 L14E Internal East Section Floor & Vertical of Floor Beam from PP126 to 127.5. No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L13E Bottom Plate External Surfaces, NOI Number 7268: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on L13E Bottom Plate External Surfaces was tested in accordance with SSPC-SP 1 (Surface Cleanliness). 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 low DFT readings, dirty surfaces and holidays.

L14E Internal East Section Floor & Vertical of Floor Beam from End Weld Seam to PP126, NOI Number 7269: In preparation for undercoat installation and in accordance with project specifications, this inspector along with

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ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L14E Internal East Section Floor & Vertical of Floor Beam from End Weld Seam to PP126. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to obscured visual of substrate (grit on surface).

L13W Internal East Section Entire Surface from PP118 to 119-1.5M, NOI Number 7270: 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 East Section Entire Surface from PP118 to 119-1.5M. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L14E Internal East Section Floor and Vertical of Floor Beam from End Weld Seam to PP126 (Anchor Plate Area), NOI Number 7271: 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 63 to 76 μm and x2 soluble salts recorded readings in the range of 18.8 to 21.7 ($\mu\text{s/cm}$). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L14W Internal West Section Ceiling and Vertical of Floor Beam from PP126 to OBG End, NOI Number 7272: 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 West Section Ceiling and Vertical of Floor Beam from PP126 to OBG End. Test results recorded x6 surface profile readings in the range of 70 to 80 μm and x4 soluble salts recorded readings in the range of 12.9 to 23.2 ($\mu\text{s/cm}$). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L14E Internal East Section Floor and Vertical of Floor Beam from End Weld Seam to PP126 (Anchor Plate Area), NOI Number 7273: 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 discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L14W Internal West Section Ceiling and Vertical of Floor Beam from PP126 to OBG End, NOI Number 7274: 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 West Section Ceiling and Vertical of Floor Beam from PP126 to OBG End. No major 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.

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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
