

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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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-003015**Date Inspected:** 16-Dec-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:** Towers 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:

Tower

TL4S Tower External Support Areas, NOI Number T1624A: 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 TL4S Tower External Support Areas. Test results recorded x3 surface profile readings in the range of 73 to 84µm. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Façade Cover Plate SD1-SFSA4-328, NOI Number T1625: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Façade Cover Plate SD1-SFSA4-328 for dry film thickness (DFT) compliance. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Man Hole Cover Plates Galvanized (26 Each), NOI Number T1626: 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 Crash Barriers

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External Surfaces (37 Each Man Hole Cover Plates Galvanized (26 Each). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection.

TL4N Tower External Surface Pre-Blast Weld Visual Inspection, NOI Number T1629: ABF, Caltrans and ZPMC Quality Assurance/Control representatives conducted a visual inspection of the welds on TL4N Tower External Surface. ABF and ZPMC recorded x2 soluble salts readings of 58.5 and 27.1 ($\mu\text{s}/\text{cm}$). ABF Quality Assurance personnel instructed ZPMC to continue blasting operations and re-submit for inspection prior to proceeding with process to the next check point.

Tower Splices (15 Each), NOI Number T1630: 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 Tower Splices (15 Each). Test results recorded x3 surface profile readings in the range of 79 to 86 μm and x1 soluble salts readings of 15.4 ($\mu\text{s}/\text{cm}$). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

TL4N Tower External Surface, NOI Number T1632: 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 TL4N Tower External Surface. Test results recorded x3 surface profile readings in the range of 72 to 83 μm . ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to inadequate surface preparation (blasting).

Tower Splices (7 Each), NOI Number T1634: 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 Tower Splices (7 Each). Test results recorded x3 surface profile readings in the range of 70 to 82 μm and x1 soluble salts readings of 12.1 ($\mu\text{s}/\text{cm}$). 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.

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
