

**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-003345**Date Inspected:** 31-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)

L13W Internal East Section Ceiling & Vertical Floor from Weld Seam to PP118, NOI Number 6797: 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 Ceiling & Vertical Floor from 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 grinding and blasting.

L13W Internal West Section Corner Unit from PP117 to PP118, NOI Number 6798: 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 Corner Unit from PP117 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 grinding and blasting.

Splices (156 Each), NOI Number 6799: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Splices (156 Each) in preparation for blasting

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operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Traveler Rails (9 Each), NOI Number 6800: 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 Traveler Rails (9 Each). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L13E Internal West, Middle and East Sections Entire (except floor in the middle and east sections) from PP119 to 124.5, NOI Number 6801: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L13E Internal West, Middle and East Sections Entire (except floor in the middle and east sections) from PP119 to 124.5 in preparation for blasting operations. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to fabrication work in progress.

L13W Internal West Section Corner Unit from PP117 to PP118, NOI Number 6802: 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 Corner Unit from PP117 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 grinding and blasting.

L13W Internal East Section Ceiling & Vertical Floor from Weld Seam to PP118, NOI Number 6802: 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 Ceiling & Vertical Floor from 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 grinding and blasting.

L13W Internal West Section Corner Unit from PP117 to PP118, NOI Number 6803: 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 Corner Unit from PP117 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 grinding and blasting.

L13W Internal East Section Ceiling & Vertical Floor from Weld Seam to PP118, NOI Number 6803: 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 Ceiling & Vertical Floor from 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 grinding and blasting.

L13W Internal West Section Corner Unit from PP117 to PP118, NOI Number 6804: 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 Corner Unit from PP117 to PP118. Test results recorded x3 surface profile readings in the range of 76 to 83  $\mu\text{m}$  and x1 soluble

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salts reading of 19.8 (µs/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.

L13W Internal East Section Ceiling & Vertical Floor from Weld Seam to PP118, NOI Number 6804: 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 Ceiling & Vertical Floor from Weld Seam to PP118. Test results recorded x3 surface profile readings in the range of 76 to 83 µm and x1 soluble salts reading of 19.8 (µs/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.

L13W Internal West Section Corner Unit from PP117 to PP118, NOI Number 6805: 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 Corner Unit from PP117 to PP118. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L13W Internal East Section Ceiling & Vertical Floor from Weld Seam to PP118, NOI Number 6805: 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 Ceiling & Vertical Floor from Weld Seam to PP118. No 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.

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<b>Inspected By:</b>	Cason,Kenneth	Quality Assurance Inspector
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<b>Reviewed By:</b>	Miller,Mark	QA Reviewer
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