

**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-003108**Date Inspected:** 17-Mar-2011**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:** 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)**

Stiffeners X6047A (16 Each), X6047C (16 Each), L-Plate (1 Each), Splices (32 Each) and Shim Plates (16 Each), NOI Number 5985: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Stiffeners X6047A (16 Each), X6047C (16 Each), L-Plate (1 Each), Splices (32 Each) and Shim Plates (16 Each) for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects (high DFT readings) in the applied Interzinc 22 undercoat.

Bike Path Panel BK4A-064, NOI Number 5986: 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 Bike Path Panel BK4A-064. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Splices X3271G (58 Each), 3271J (19 Each), 3271T (18 Each), Shim Plates X3307C (32 Each), X321E (74 Each),

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Channels (20 Each) and Maintenance Traveler Rail 20TR2-031, NOI Number 5987: 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 Splices X3271G (58 Each), 3271J (19 Each), 3271T (18 Each), Shim Plates X3307C (32 Each), X321E (74 Each), Channels (20 Each) and Maintenance Traveler Rail 20TR2-031. Test results recorded x3 surface profile readings of 80 to 86  $\mu\text{m}$  and x1 soluble salts reading of 12.3 ( $\mu\text{s/cm}$ ). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

OBG Assembly Plates DP3160, DP3161 and DP3167, NOI Number 5989: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on OBG Assembly Plates DP3160, DP3161 and DP3167 for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects (high and low DFT readings) in the applied Interzinc 22 undercoat.

OBG Assembly Plates DP3062A, DP3063A, DP3064A and Anchor Bearing Blocks (26 Each), NOI Number 5990: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on OBG Assembly Plates DP3062A, DP3063A, DP3064A and Anchor Bearing Blocks (26 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.

OBG Assembly Plates DP3172, DP3173 and DP3174, NOI Number 5990A: 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 OBG Assembly Plates DP3172, DP3173 and DP3174. Test results recorded x3 surface profile readings of 79 to 85  $\mu\text{m}$  and x1 soluble salts reading of 13.6 ( $\mu\text{s/cm}$ ). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required grinding and blasting.

OBG Assembly Plates DP3172, DP3173 and DP3174, NOI Number 5991: 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 OBG Assembly Plates DP3172, DP3173 and DP3174. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

OBG Assembly Plates DP3172, DP3173 and DP3174, NOI Number 5992: 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 OBG Assembly Plates DP3172, DP3173 and DP3174. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

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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.

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

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