

**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-003104**Date Inspected:** 13-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) and Sub-Assemblies**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)**

OBG Assembly Plates DP3175, DP3176 and DP3177, NOI Number 5946: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on OBG Assembly Plates DP3175, DP3176 and DP3177 for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects (low DFT readings and holidays) in the applied Interzinc 22 undercoat.

Anchor Bearing Blocks (39 Each), NOI Number 5947: 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 Anchor Bearing Blocks (39 Each). Test results recorded x3 surface profile readings of 56 to 68  $\mu\text{m}$ . No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Anchor Bearing Blocks (67 Each), Assembly Plate SA8008, L-Splices (60 Each) and Water Breaks (23 Each), NOI Number 5948: In accordance with project specifications ABF and ZPMC Quality Assurance/Control

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representatives observed the surface condition on Anchor Bearing Blocks (67 Each), Assembly Plate SA8008, L-Splices (60 Each) and Water Breaks (23 Each) 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.

Crash Barriers (8 Each) and Bike Path Panels (BK5A-003 and BK4C-024), NOI Number 5949: In accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the final coat installation on Crash Barriers (8 Each) and Bike Path Panels (BK5A-003 and BK4C-024). ABF and ZPMC QA/QC recorded surface dry film thickness readings (DFT) in accordance with SSPC-PA2. ABF and ZPMC QA/QC noted discrepancies in DFT readings for Crash Barrier W2-SB8-P37. ABF Quality Assurance personnel instructed ZPMC to re-work parts and re-submit for inspection. No discrepancies noted on remainder of inspection items and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Anchor Bearing Blocks (24 Each) and Bike Path Panel BK4A-031, NOI Number 5951: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Anchor Bearing Blocks (24 Each) and Bike Path Panel BK4A-031 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 DP3175, DP3176 and DP3177, NOI Number 5952: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on OBG Assembly Plates DP3175, DP3176 and DP3177 for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects (low DFT readings) in the applied Interzinc 22 undercoat.

OBG Assembly Plates DP3160, DP3161 and DP3167, NOI Number 5953: 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 DP3160, DP3161 and DP3167. Test results recorded x1 soluble salts reading of 17.2 ( $\mu\text{s/cm}$ ). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to weld defects and additional required grinding and blasting.

OBG Assembly Plates DP3160, DP3161 and DP3167, NOI Number 5954: 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 DP3160, DP3161 and DP3167. Test results recorded x3 surface profile readings of 78 to 84  $\mu\text{m}$ . ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

OBG Assembly Plates DP3160, DP3161 and DP3167, NOI Number 5955: 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 DP3160, DP3161 and DP3167. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

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OBG Assembly Plates DP3160, DP3161 and DP3167, NOI Number 5956: 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 DP3160, DP3161 and DP3167. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

OBG Assembly Plates DP3160, DP3161 and DP3167, NOI Number 5957: 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 DP3160, DP3161 and DP3167. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

### Sub-Assemblies (Tower)

H Assembly Plates SA3066 and SA3067, NOI Number T2017: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on H Assembly Plates SA3066 and SA3067 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.

### 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
<b>Reviewed By:</b>	Miller,Mark	QA Reviewer

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