

**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-003074**Date Inspected:** 04-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 Connection Weld Seam External Surface (12AW & 12AE), NOI Number 5891: 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 Connection Weld Seam External Surface (12AW & 12AE). Test results recorded x6 surface profile readings of 64 to 84  $\mu\text{m}$ . No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Splices (70 Each) and Crash Barriers (2 Each), NOI Number 5892: 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 (70 Each) and Crash Barriers (2 Each). Test results recorded x3 surface profile readings of 79 to 80  $\mu\text{m}$  and x1 soluble salts recorded reading of 12.7 ( $\mu\text{s/cm}$ ). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Cut Way Support (30 Each) and OBG Assembly Plates DP3157A, DP3158A and DP3159A, NOI Number 5894:

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## SOURCE INSPECTION REPORT

( Continued Page 2 of 3 )

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In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Cut Way Support (30 Each) and OBG Assembly Plates DP3157A, DP3158A and DP3159A in preparation for blasting operations. No discrepancies noted on Cut Way Support (30 Each) and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point. Assembly Plates DP3157A, DP3158A and DP3159A were not inspected due to spline plates not removed. ZPMC will remove and resubmit for inspection.

Cable Support (40 Each), NOI Number 5895: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Cable Support (40 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.

Cable Support (40 Each), NOI Number 5896: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Cable Support (40 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 DP3157A, DP3158A and DP3159A, NOI Number 5897: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on OBG Assembly Plates DP3157A, DP3158A and DP3159A in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

### Sub-Assemblies (Tower)

Assembly Plates WSD1-FFSA6-4 and ESD1-FFSA6-2, NOI Number T2001: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Assembly Plates WSD1-FFSA6-4 and ESD1-FFSA6-2 for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to high DFT readings.

Assembly Plates WSD1-FFSA6-4 and ESD1-FFSA6-2, NOI Number T2002: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Assembly Plates WSD1-FFSA6-4 and ESD1-FFSA6-2 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.

Assembly Plate FB3322A-X4891C, NOI Number T2003: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Assembly Plate FB3322A-X4891C in preparation for blasting operations. 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.

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# SOURCE INSPECTION REPORT

( Continued Page 3 of 3 )

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