

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-003232**Date Inspected:** 01-May-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)

Suspender Brackets SB110W, SB110E, Suspender Bracket SB108E (Re-Blast), Splices (46 Each) and Shim Plates X3305A (40 Each) and X3305 (40 Each), NOI Number 6415: 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 Suspender Brackets SB110W, SB110E, Suspender Bracket SB108E (Re-Blast), Splices (46 Each) and Shim Plates X3305A (40 Each) and X3305 (40 Each). Test results recorded x3 surface profile readings in the range of 77 to 82 μm and x1 soluble salts reading of 11.3 ($\mu\text{s/cm}$). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection Suspender Brackets SB110W, SB110E and Suspender Bracket SB108E (Re-Blast) due to additional required grinding and blasting. No other major discrepancies noted on remaining items and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Suspender Brackets SB110W, SB110E and Suspender Bracket SB108E (Re-Blast), NOI Number 6416: 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 Suspender Brackets

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SB110W, SB110E and Suspender Bracket SB108E (Re-Blast). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required grinding and blasting.

Suspender Brackets SB110W, SB110E and Suspender Bracket SB108E (Re-Blast), NOI Number 6416: 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 Suspender Brackets SB110W, SB110E and Suspender Bracket SB108E (Re-Blast). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barriers E2-SB28A-001 PP111.5 PP112, W2SB19-001 PP112.5 PP113 and W5-SB31-003 PP113.5 PP114, NOI Number 6421: In accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives recorded the results of adhesion testing on Crash Barriers E2-SB28A-001 PP111.5 PP112, W2SB19-001 PP112.5 PP113 and W5-SB31-003 PP113.5 PP114. Readings recorded x3 @ 12.1 mPa, 12.25 mPa and 11.34 mPa. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barriers (26 Each) and Bike Path Panel BK4A-014, NOI Number 6422: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Crash Barriers (26 Each) and Bike Path Panel BK4A-014 for dry film thickness (DFT) and final VT compliance. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Lamp Brackets LB3100 and LB3001, NOI Number 6423: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Lamp Brackets LB3100 and LB3001 for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point due to high DFT readings.

Galvanized Traveler Rails (12 Each), NOI Number 6423 In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Galvanized Traveler Rails (12 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.

Maintenance Crane Brackets 13TB1 (12 Each) and Shim Plates X3159WA (38 Each), NOI Number 6425: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Maintenance Crane Brackets 13TB1 (12 Each) and Shim Plates X3159WA (38 Each) in preparation for galvanizing. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Lamp Brackets LB3100 and LB3001, NOI Number 6426: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Lamp Brackets LB3100 and LB3001 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.

Sub-Assemblies (Tower)

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Tower Internal Plates (12 Each), NOI Number T2075: 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 Internal Plates (12 Each). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Tower Head Internal ESD1-TL6-2 and SSD1-TL6-1, NOI Number T2076: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Tower Head Internal ESD1-TL6-2 and SSD1-TL6-1 for dry film thickness (DFT) compliance. Recorded DFT readings were out of specification range. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection.

Tower Skirt Plate (Damaged Area Re-Blast) ESD1-A87, ESD1-A85 and WSD1-A504, NOI Number T2077: 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 Skirt Plate (Damaged Area Re-Blast) ESD1-A87, ESD1-A85 and WSD1-A504. Test results recorded x3 surface profile readings in the range of 70 to 83. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Tower Internal Plates ESD1-TBSA7-4 (2 Each), NOI Number T2077: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Tower Internal Plates ESD1-TBSA7-4 (2 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.

Miscellaneous Sub-Assembly Plates (240 Each), NOI Number T2078: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Miscellaneous Sub-Assembly Plates (240 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.

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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| Inspected By: | Cason, Kenneth | Quality Assurance Inspector |
| Reviewed By: | Miller, Mark | QA Reviewer |