

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001319**Date Inspected:** 12-Oct-2009**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:** William (Bill) Oak**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:** Office, Tower Sub-Assemblies, OBG 6AE, O**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Office

Attend to project documentation and reporting.

OBG 6AE

Pre-blast inspection on internal "U" Rib stiffeners and Top plate surfaces and Floor Beam top sections including top Chevron beam connection assemblies. Gouges and fabrication deficiencies were identified and marked for grinding operations jointly by Caltrans QA Lumley and ABF QA personnel, VT inspection was also performed on welds and associated assemblies by Caltrans QA Hiranch Patel and Dhanasing Sukanthan and mapped accordingly.

Tower Sub-Assembly

Double diaphragm code # WSD1-127M & WSD1-131M were abrasive blasted for pre-blast inspection for grinding and fabrication defect amendment prior to SP-10 full blast, MT was performed by ABF Technician concurrent with inspection, edges were ground to remove hardened surface layer as well.

Sub-Assembly

Base metal surfaces of nine floor beam diaphragms were abrasive blasted to an SSPC SP-10 condition on the faying surface areas and Interzinc 22 applied. Items code # FB3033-001, FB3034-001, FB3036-001, FB3066-001, FB3067-001, FB3067-002, FB3011-001, FB3062-001, FB3063-001. Profile amplitude was 76-84um.

Lift 3 East

SOURCE INSPECTION REPORT

(Continued Page 2 of 2)

Moored in river ZPMC requested a “Final” inspection on Cross Beam terminations and FL-3 Beams then cancelled the inspection.

Lift 4 East

Moored in river ZPMC requested a “Final” inspection of the Cross Beam terminations and FL-3 Beams then cancelled the inspection.

OBG 6AE

Internal ceiling area of Top plate and “U” rib stiffeners base metal surfaces were re-inspected for abrasive blast cleaning. Minor grinding and re-blasting of non-compliant SSPC SP-10 areas were performed and Interzinc 22 was applied. Profile amplitude was 76-81um. Panel Points 37-39 were coated at this time.

Lift 2 East

Internal floor areas and “T” stiffener areas and Rust Stained areas were repaired via abrasive blasting to perform repairs from trial assembly operations damages and Interzinc 22 re-applied to affected areas. Panel Points 13-14 were repaired at this time.

Lift 2 West

Internal floor repairs were performed from trial assembly operation damages and rejected as rust was still visible in abrasive blasted locations. Re-work required prior to coating application, areas were non-compliant. Panel Points #16-17 were inspected at this time.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

Summary of Conversations:

No relevant conversations on this date.

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 Eric Tsang (858) 699-7549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
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Reviewed By:	Carreon,Albert	QA Reviewer
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