

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:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-000604**Date Inspected:** 02-May-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 0**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 12**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai

Quality Control Contact:	ABF Paint Supervisor 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:	Surface Preparation and Coatings Application			
Bridge No:	34-0006	Component:	OBG 1BW, 7DE, 7EE, Misc. Metal	
Bid Item:	79, 80, 81	Lot No:	B226	

Summary of Items Observed:

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Donald Jordan 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:

The following inspections were performed by Caltrans QA Coatings Inspector Jordan, American Bridge/Fluor Enterprises, a JV (ABF) Paint Supervisor William (Bill) Oak, ABF QC Zhou Qun Song (Joe), ABF QC David Duon, ABF QC Shi Zhaoyuan (Stone), ABF QC Zhou Wei, International Paint (IP) Onsite Technical Services Engineer (OTSE) Peng Zi Li, IP OTSE Alpha Chen, Zhenhua Port Machinery Company, LTD (ZPMC) QC Manager Xia Yong, ZPMC QC Zhang Diang, ZPMC QC Dong Yao Fei and ZPMC QC Guo Wan Li.

Caltrans QA Coatings Inspectors received Notices of Inspection to attend joint inspections with ABF and ZPMC QC for surface preparation by abrasive blasting on the following items:

OBG 7DE, 7EE

The faying surfaces for the floor beam to T beam connection. Surface Preparation and Primer Application today were performed in the following manner:

Surface profile Testex Tape was used by ZPMC QC personnel to record the blast profile. The Testex tape was measured using a dial micrometer. The readings were within the contract requirements of 40 and 86 microns. Residual Chlorides (soluble salts) tests were performed on the faying surfaces. The test results showed that the surface was acceptable to be coated with Interzinc 22.

The highest registered reading of salts contamination was 10 micro Siemens per square centimeter which is below the contract maximum of 10 micrograms per square centimeter. Ambient conditions were within Contract required parameters. After acceptance of the surface preparation, Interzinc 22 primer was applied within the specified 8

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hour window after the start of abrasive blasting. The coating was mixed under the supervision of ABF and ZPMC QC personnel. Coating application methods were observed by QA Inspector Jordan to insure the primer was applied using the methods outlined in the Project Special Provisions.

Miscellaneous Metal

146 assorted splice plates and angle bars were abrasive blasted and inspected. Several of the edges required grinding and re-blasting.

OBG 1BW

Caltrans QA Coatings Inspectors received a Notice of Inspection to attend a joint inspection with ABF and ZPMC QC to perform adhesion testing on OBG 1BW.

Adhesion testing was performed in accordance with the requirements in ASTM Designation: D 4541. The pull test met the contract requirements of having a minimum adhesion to steel of 4 MPa.

Fabrication on assembled components of the OBG's are not complete. Coating damage requiring re-blast is expected.



Summary of Conversations:

There were 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 Mazen Wahbeh (China) +8613472477571, who represents the Office of Structural Materials for your project.

Inspected By:	Jordan,Don	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer
