

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:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002884**Date Inspected:** 10-Jan-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 1500**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 300**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**Quality Control Contact:** Mr. 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:** Coating Inspection**Bridge No:** 34-0006**Component:** See Below**Bid Item:** 77, 78, 79**Lot No:** B #204**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE Certified coating inspector, Level II, Baskar Govindarajan 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 coating inspector observed the following:

An inspection was requested on the OBG Crash Barrier Cover plate -727 pieces for Surface preparation inspection, Residual chlorides test and MEK test after Interzinc 22 application, vide inspection request no. 5703 at Paint shop 1. This QA inspector observed, ABF Inspectors Ms. Helen and Mr. Wei found inspecting these surfaces for DFT. This was found accepted by ABF Inspectors after observing DFT in the range of 86 to 157 microns which is acceptable as per contract documents. The result of MEK test carried out at 3 places found to be in the Grade 5. The result of Salt test conducted at 3 places found to be 10.1 to 25.3 us/cm. The results of Salt test and MEK test found to be acceptable as per contract documents. Ambient conditions found measured by ZPMC QC Inspectors 10.1 deg. celcius above dew point and the relative humidity found to be 46.5 % which is acceptable as per contract documents. International protective coatings technical service representative Mr. Yang was found present during the course of this inspection process.

An inspection was requested on the Tower, Façade cover plates Damaged areas -2 sets (131 mtr. ND1 -SPSA4 -336, 139 mtr. ND1 -SPSA4-335, for Final acceptance inspection after repaired the damaged coating, vide inspection request no. T 1996 at Jetty, Ship no. 18. This QA inspector observed, ABF Inspector Mr. Sun found inspecting these surfaces. This was found not accepted by ABF Inspector. All the Façade plates found stacked in

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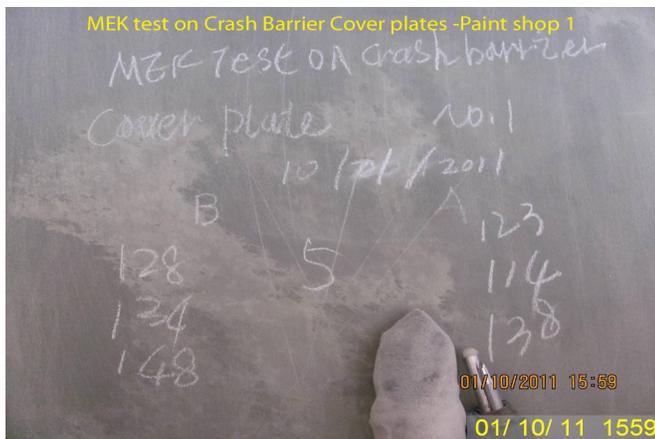
covers, and is found partially open which is not suitable for inspection. Also, It was found there was no proper lighting arrangements for inspecting these surfaces.

An inspection was requested on the OBG Lift 11 West, Internal entire floor from Panel point P.P 95 to P.P 98-3 sections for DFT check after Interzinc 22 application and final VT acceptance vide inspection request no. 5704 at OBG assembly yard. This QA inspector observed, ABF Inspectors Mr. Sun, found inspecting these surfaces for DFT . This was found not accepted by ABF Inspectors for Holidays, sagging and poor surface preparations. Ambient conditions found measured by ZPMC QC Inspectors 10.2 deg. celcius above due point and the relative humidity found to be 47.6 % which is acceptable as per contract documents. International protective coatings technical service representative Mr. Yang was found present during the coarse of this inspection process.

An inspection was requested on the OBG Crash Barrier External surfaces -51 nos for Finish coat application after Mist coat , vide inspection request no. 5697 at Paint shop 2. This QA inspector observed, ABF Inspectors Mr. Sun and Mr. Wei found inspecting these surfaces . This was found accepted by ABF Inspectors except two nos, which is W5-SB1D-015, P.P 98.5-99, W5-SB1-089 P.P 100-101.5. Ambient conditions found measured by ZPMC QC Inspectors 9.3 deg. celcius above due point and the relative humidity found to be 42.5 % which is acceptable as per contract documents. International protective coatings technical service representative Mr. Yang was found present during the coarse of this inspection process.

An inspection was requested on the OBG Crash Barrier Internal surfaces -35 nos for DFT check after Interzinc 22 application , vide inspection request no. 5696 at Paint shop 2. This QA inspector observed, ABF Inspectors Mr. Sun and Mr. Wei found inspecting these surfaces . This was found accepted by ABF Inspectors after minor touch ups and sanding. The DFT found to be in the range of 87 to 157 microns which is acceptable as per contract documents. Ambient conditions found measured by ZPMC QC Inspectors 9.3 deg. celcius above due point and the relative humidity found to be 42.5 % which is acceptable as per contract documents. International protective coatings technical service representative Mr. Yang was found present during the coarse of this inspection process.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



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Summary of Conversations:

During the inspection of Crash Barrier cover plates at Paint shop 1, This QA inspector requested ABF inspectors for Salt test in a location where there was disclour and seems to be like salt deposits. Mr. Don Walton from ABF refused to conduct in a specified location, and said the required salt test has already conducted in 3 places and further testing is considered extra.He even instructed his Inspectors not to show the location of 3 places where salt test was conducted. Informed the same to QA Level III Nace Inspector Mr. James Lumley. He informed me that, as per Section 59, 10-1.69, Special provisions, The Engineer will determine the location of tests.

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 Thomas HO (15002048250), who represents the Office of Structural Materials for your project.

Inspected By:	Baskar,Govindarajan	Quality Assurance Inspector
Reviewed By:	Clifford,William	QA Reviewer
