

**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-002885**Date Inspected:** 11-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:** 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 Coating inspector, Level II Certified, 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 Splice plates -203 nos, vide inspection request no. 5721 for Washing and Degreasing at West Gate of Blasting workshop. This QA inspector observed, ABF Inspector Ms. Helen found inspecting these surfaces. This was found accepted by ABF Inspector after cleaning minor oil in hole areas.

An inspection was requested on the OBG Crash Barrier Internal surfaces -16 nos for DFT check after Interzinc 22 application, vide inspection request no. 5717 at Paint shop 2. This QA inspector observed, ABF Inspectors Ms. Helen and Mr. Wei found inspecting these surfaces. This was found accepted by ABF Inspectors after minor touch ups, Caulking and sanding. The DFT found to be in the range of 89 to 156 microns which is acceptable as per contract documents. Ambient conditions found measured by ZPMC QC Inspectors 15.4 deg. celcius above due point and the relative humidity found to be 26.5 % which is acceptable as per contract documents. International protective coatings technical service representative Mr. Li Peng was found present during the course of this inspection process.

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An inspection was requested on the OBG Crash Barrier -8 nos and Service platform SP6 -02 -1 no. for Surface preparation inspection after Interzinc 22, Residual chlorides test and MEK test , vide inspection request no. 5724 at Paint shop 2. This QA inspector observed, ABF Inspectors Mr. Sun and Mr. Wei found inspecting these surfaces for DFT . 8 nos of Crash Barriers 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 2 places found to be in the Grade 5. The result of Salt test conducted at 1 place found to be 7.7 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 16.4 deg. celcius above due point and the relative humidity found to be 21.5 % which is acceptable as per contract documents. Service platform SP6 -02 found not accepted by ABF Inspectors for the observation of Mud cracks and improper surface cleanliness. 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 -49 nos for Final acceptance inspection prior transport from the workshop to ship, vide inspection request no. 5725 at Paint shop 2. This QA inspector observed, ABF Inspectors Mr. Sun and Mr. Wei found inspecting these surfaces . This was found not accepted by ABF Inspectors for DFT above 400 in most of the areas. Ambient conditions found measured by ZPMC QC Inspectors 16.4 deg. celcius above due point and the relative humidity found to be 21.5 % 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 Lift 11 East, Internal entire floor from Panel point P.P 95 to P.P 97-2 sections for DFT check after Interzinc 22 application and final VT acceptance vide inspection request no.5726 at OBG assembly yard. This QA inspector observed, ABF Inspectors Mr. Sun and Mr. Wei found inspecting these surfaces for DFT . This was found not accepted by ABF Inspectors for Holidays, sagging and Overspray in most of the areas. Ambient conditions found measured by ZPMC QC Inspectors 14.2 deg. celcius above due point and the relative humidity found to be 19 % 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 Suspender Brackets Faying surfaces-8 nos for DFT check after Interzinc 22 application , vide inspection request no. 5723 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 159 microns 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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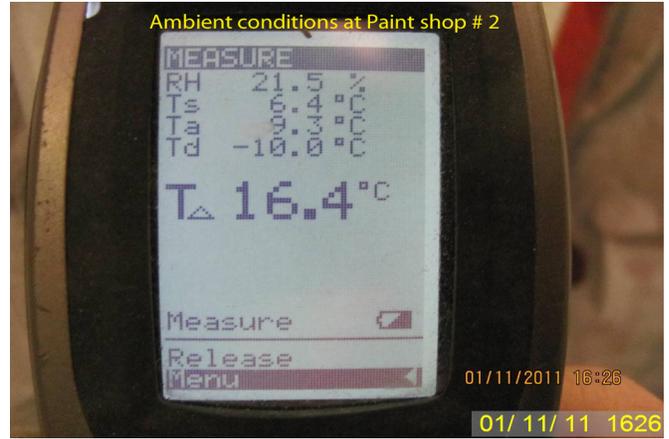
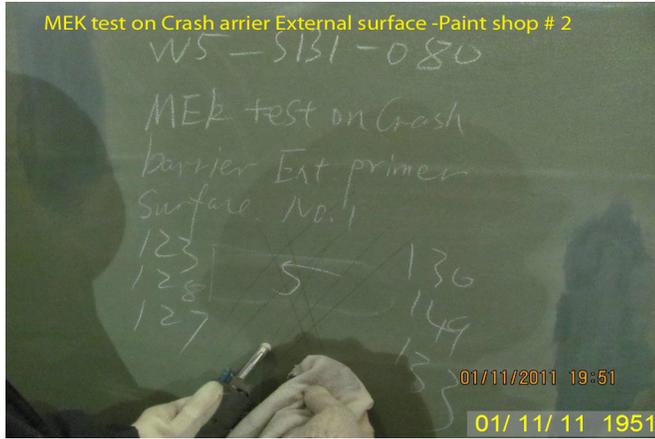
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## Summary of Conversations:

No Relevent 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 Thomas HO (15002048250), who represents the Office of Structural Materials for your project.

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**Inspected By:** Baskar, Govindarajan

Quality Assurance Inspector

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**Reviewed By:** Clifford, William

QA Reviewer