

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-002619**Date Inspected:** 27-Aug-2010**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:** 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 II coating inspector, Mr. 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 NACE II coating inspector observed the following:

1. An inspection was requested on the Tower external surface, Lift 2, East for final acceptance after finish coat, vide notification no. T 1155 at Paint shop 1. This QA inspector observed, ABF inspectors Mr. Sun and Mr. Don Walton were present during the inspection process. Mr. Aaron Prichlik from Caltrans have been called for, and He inspected all the external surfaces of the shaft along with Caltrans Inspector Ms. Jina. It was observed that, He accepted the surfaces which was subject to some minor touch ups in CD corner. DFT found to be in the Range of 250 to 380 microns which is acceptable as per contract documents. (Photo of the tower is attached). International protective coatings technical service representative Mr. Li Ping was found present during the course of this inspection process for any Technical Discussion.

2. An inspection was requested on the Tower Internal entire surface of South shaft, Lift 2 (TL2S) for DFT check inspection, vide inspection request no. T 1156 at paint shop 2. This QA inspector observed, ABF inspector Mr. Sun inspecting all the surfaces. This was found accepted by ABF Inspector, after observing the DFT which ranges from 90 to 160 microns which is acceptable as per contract documents. International protective coatings technical service representative Mr. Li Ping was found present during the course of this inspection process. (Photo of internal surface is attached)

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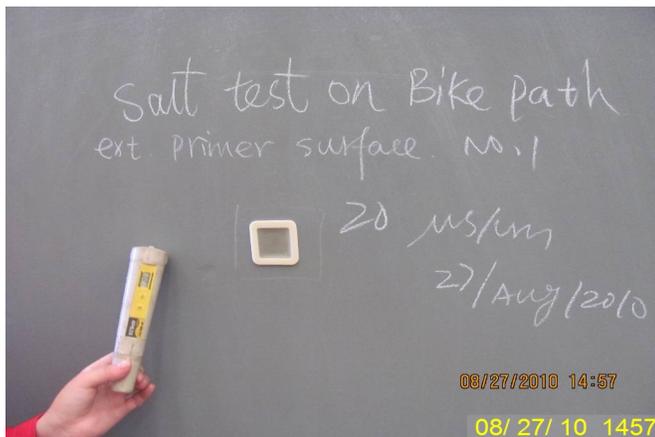
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3. An inspection was requested on the OBG Splices (252 pieces), OBG assembly plate -2 nos, Cross beam internal catway channel re blasting -2 pieces for Surface preparation inspection, vide request no. 4074 at Blasting shop 2. This QA inspector observed, ABF inspectors Mr. Vince, Mr. Sun and Mr. Hong performing the Blasting inspection in mentioned areas. This was found accepted by ABF Inspectors after minor reblast in 4 splice piece edges. The surface profile measured by ZPMC inspectors found to be 74 to 84 microns which is acceptable as per contract documents. International protective coatings technical service representative Mr. Li Peng was found present during the coarse of this inspection process. (Photo of surface profile measurement is attached).

4. An inspection was requested on the OBG Bike path external surface -7 sets (BK 001-037, 38, 39, 40, 41, 42, 43 - for DFT check inspection after Interzinc 22 application, Residual chlorides test and MEK test, vide inspection request no. 4076 at paint shop 2. This QA inspector observed, ABF inspector Mr. Sun, Mr. Stone and Mr. Hong inspecting all the surfaces. This was found accepted by ABF Inspector, after observing the DFT which ranges from 92 to 175 microns which is acceptable as per contract documents. Residual chloride test have been conducted in one place and the result found to be 20US/CM, MEK test conducted in 3 places and the result found to be in the Grade of 5. The MEK and Salt test result found to be acceptable as per contract documents. Ambient conditions were monitored and found to be 7.4 deg. above due point and the relative humidity found to be 77.9 % which is acceptable as per contract documents. International protective coatings technical service representative was not found present during the coarse of this inspection process. (Photo of Ambient condition, result of Salt test and MEK test is attached)

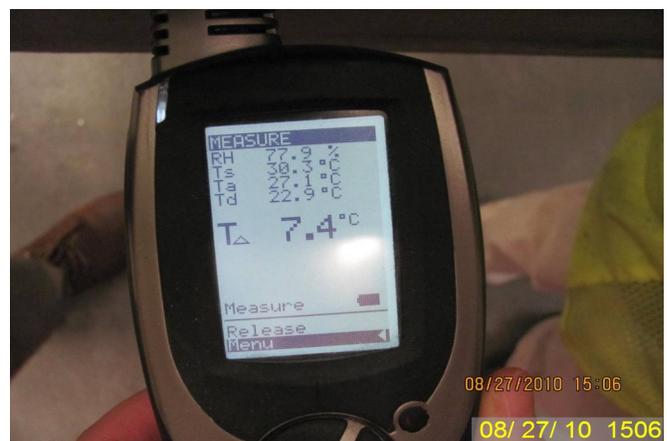
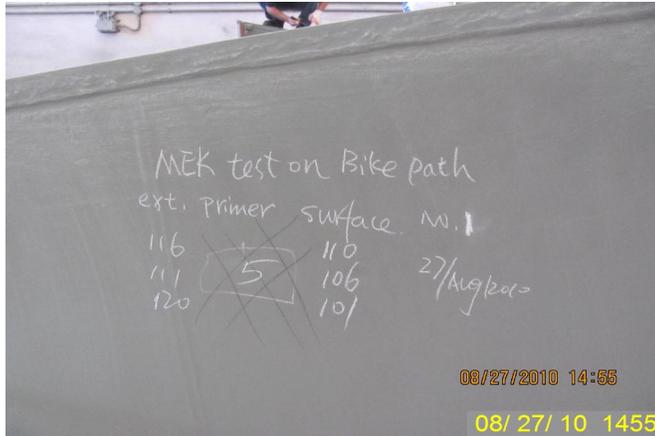
5. An inspection was requested on the Tower Lift 2 Cross bracing -3 sets (WD1-CBSA3-1-53 mtr., WD1-CBSA3-1-65 mtr., and WD1-CBSA3-1-77 mtr.) and Façade top cover plate external surface -3 pieces (ND1-A 213, ND1-A277, SD1-A226) for surface preparation inspection before finish coat application inspection, vide inspection request no. T 1158 at paint shop 2. This QA inspector observed, ABF inspector Mr. Stone inspecting all the surfaces. This was found accepted by ABF Inspector, after observing the DFT which ranges from 155 to 185 microns which is acceptable as per contract documents. Ambient conditions were monitored and found to be 7.4 deg. above due point and the relative humidity found to be 77.9 % which is acceptable as per contract documents. International protective coatings technical service representative was not 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:

No Relevant Conversation

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 Michel Ng (15921845703), who represents the Office of Structural Materials for your project.

Inspected By: Baskar, Govindarajan

Quality Assurance Inspector

Reviewed By: Clifford, William

QA Reviewer