

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-002266**Date Inspected:** 18-Jun-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 Suspender Bracket (9 nos), for Blasting inspection, vide request no. 3418 at Blasting shop 2. This Caltrans inspector observed, ABF inspectors Mr. Don Walton, Mr. Wei and Mr. Vince performing said inspection check. It was observed that, these surfaces were rejected by ABF Inspectors for weld repairs, grinding points and Low profile in some of the areas. The ambient conditions were monitored and is 4 deg. above dew point and the relative humidity found to be 74.3% which is acceptable as per contract documents. These suspender brackets again offered for inspection vide notification no. 3419. The profile was measured and found to be in the range of 76 to 84 microns. This cross beam finally accepted by ABF inspector Mr. Don Walton after attending marked points for grinding and reblasting. Weld repair areas were covered with masking tape. X1 Residual chlorides test have been conducted at 2 places by ZPMC inspectors and the result found to be 10 us/cm. The result of Residual chlorides test and Profile test found to be acceptable as per contract documents. International protective coatings technical service representative was not found present during the course of this inspection process. Photograph showing results of profile test and suspender bracket is attached with this report. Finally, ZPMC Could not do the Interzinc 22 application, because of non availability of paint at store.

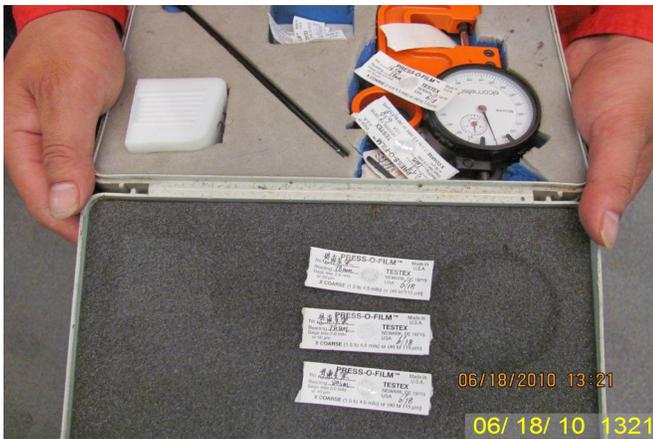
2. An inspection was requested for the connection weld seam between OBG segments 7BE & CE, 7CE & 7DE and 7DE & FE, vide notification no. 3421 at OBG assembly yard for residual chlorides test, MEK test for the

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application of mist coat. This Caltrans inspector observed, ABF inspectors Mr. Turtle, Mr. Sun and Mr. Vince performing said inspection check carried out by ZPMC QC inspectors. Residual chlorides test conducted by ZPMC inspectors and the result found to be 20 & 50 US/CM which is acceptable as per contract documents. MEK test was conducted and the result found to be in the Grade of 5 which is acceptable as per contract documents. Weld seam connection between 7BE & CE found rejected by ABF inspectors for Excessive DFT and Mud crack. Also, top corner surfaces found rejected by ABF inspectors for high surface temperature. Relative humidity found to be 74.3%. International protective coatings technical service representative was not found present during the course of this inspection process.

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



Summary of Conversations:

No applicable 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 Micheal 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
