

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-002607**Date Inspected:** 06-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 OBG segment 10CE, internal ceiling (3 sections) for Surface preparation inspection and Residual chlorides test, vide request no. 3946 at Blast shop 1. This QA inspector observed, ABF inspectors Mr. Sun and Mr. David performing the said inspection. This Caltrans inspector observed, Mr. Vibin (B 294), Mr. Chandra (B 247), Mr. Tim McClendon (B 290), Mr. Wei pau (B 240) and Mr. Rodney Patterson (B239) from CT were present during the inspection and they marked all the Grinding points and weld repair points. This QA inspector observed, ABF inspectors rejected all internal surfaces for Overblast and poor blasting. Salt test conducted at 3 places and the results found to be 30, 40, 30 us/cm respectively. This was again offered for inspection vide notification no. 3950. This was found rejected again by ABF inspectors Mr. Stone, Mr. David and Mr. Turtle. International protective coatings technical service representative Mr. Lou Qian Chuan. was found present during the course of this inspection process. (Photo attached)

2. An inspection was requested for the OBG internal surfaces (10BW), vide inspection request no. 3947 for adhesion test inspection. This Caltrans inspector observed, ABF inspector Mr. Wei witnessing the adhesion test, performed by ZPMC inspector. The results found to be in the range of 7.01 Mpa to 12.89 Mpa which was found carried out at 6 places. The results found to be acceptable as per contract documents. International protective coating representative was not found present during the inspection process. (Photo of no.2 adhesion test is

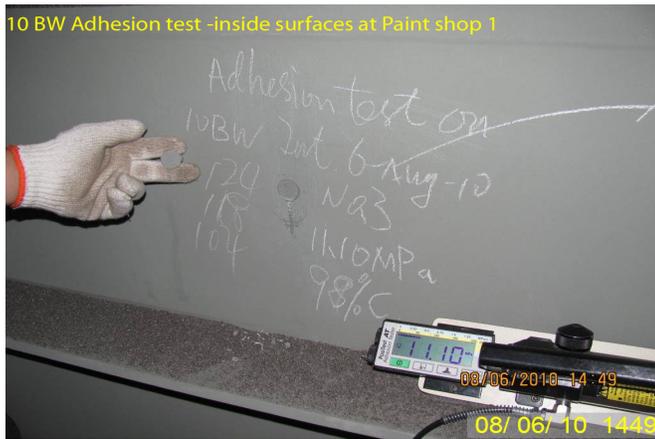
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attached)

3. An inspection was requested on the OBG segment 10BW, External surface for DFT check of primer, Residual chlorides test and MEK, Pencil hardness test for applying Mist coat vide request no. 3948 at Paint shop 1. This QA inspector observed, ABF inspectors Mr. Sun, Mr. Wei, Mr. Stone and Mr. Turtle witnessing the salt test and MEK Test carried out by ZPMC inspectors. Salt test conducted at 2 places and the results found to be 30 and 30 us/cm respectively. MEK Test conducted at 7 places and the result found to be in the Grade 4 & 5. The result of salt test and MEK test found to be acceptable as per contract documents. This was found accepted for Mist coat by ABF inspectors only for side plates. The bottom plate were not found accepted as fresh paint, Interzinc 52 applied few hours ago as touch up in few areas which needs curing. International protective coatings technical service representative Mr. Lou Qian Chuan. was found present during the coarse of this inspection process. (Photo attached)

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



Summary of Conversations:

No relevent 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 Michael 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