

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-002525**Date Inspected:** 22-Jul-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 Traveler Rail -21TR2-002, 21 TR3-003 -2 nos, vide request no. 3778 at Painting workshop 2 for MEK, Pencil hardness test of Primer coat for Mist coat application. This QA inspector observed, ABF inspector Mr. Shi stone performing the said inspection and accepted the same after observing the profile rane from 80 to 147 microns, which is acceptable as per Contract documents. Salt test conducted at 1 place and the result found to be 20us/cm. The pencil hardness test result found to be in the grade of 5. The salt test and MEK test result found to be acceptable as per contract documents. The ambient conditions were measured and is 7.5 deg. above dew point and the Relative humidity found to be 68.1% which is acceptable as per contract documents. International protective coatings technical service representative was not present during the course of this inspection process. (Photo of Salt test result and ambient condition measurement is attached)
2. An inspection was requested on the OBG Cross beam CB7 and CB9 for DFT check and final acceptance of internal bottom plate, vide request no. 3779 at Ship no.9, Heavy Dock Jetty. This QA inspector observed, ABF inspectors Mr. Turtle, Mr. Hong and Mr. David performing the said inspection. This QA inspector observed, ABF inspectors rejected CB7 bottom plate for mud crack, over blast and Rust in faying surfaces. It was found some of the splice plate holes need touch up with Interzinc 52 which was pointed out to ABF and ZPMC inspectors. This QA Inspector observed, Rust in Edge splice plate bottom where Drilled holes have been plugged.

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The attached photo shows clearly the rust formation. This QA inspector observed, CB9 bottom plate has been accepted by ABF Inspectors. International protective coatings technical service representative Mr. Lou Qian Chuan. was found present during the coarse of this inspection process.

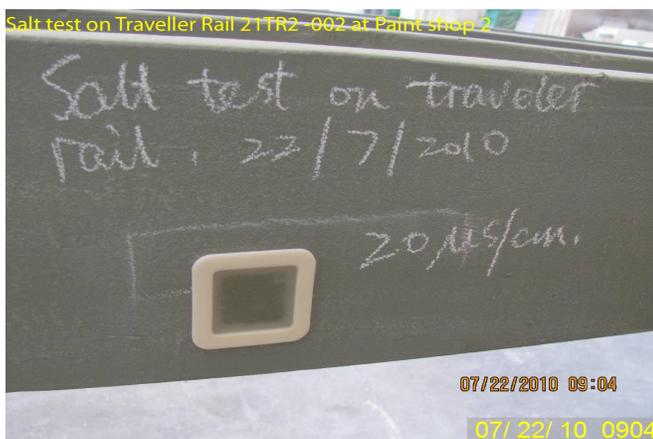
3. An inspection was requested for the OBG External surface (10BE), vide inspection request no. 3780 for Surface preparation inspection. This Caltrans inspector observed, ABF inspector Mr. Sun, Mr. Turtle and Mr. Vince performing the Blasting inspection. Mr. Tim Mclendon (B 290), Mr. Vibin (B 294), Mr. Pillai (B 286) and Mr. Chandra (B 247) from CT were present during the inspection and they marked all the Grinding points and weld repair points. The Blasting profile was found not accepted by ABF Inspectors as blasting was not proper in all areas. This was again offered for Surface preparation inspection vide Notification no. 3783 . The profile measured by ZPMC QC Inspectors at 6 places found to be in the range of 79 to 84 microns. Residual chlorides test conducted at 2 places and the result found to be 20 & 20 us/cm. The profile range and salt test result found to be acceptable as per contract Documents. Minor Blasting mistakes pointed out by ABF Inspectors during this inspection, which was attended and re offered for inspection, vide notification no. 3785. This was found accepted for Interzinc 22 application by ABF Inspectors. International protective coating representative Mr. Lou Qian Chuan found present during the inspection process.

4. An inspection was requested on the OBG internal entire floor from P.P 49 to P.P 52(L7E)- 3 Sections, vide request no. 3782 at Heavy Dock Jetty, Port no. 5. This QA inspector observed, ABF inspectors Mr. David, Mr. Wei and Mr. Sun performing the said inspection and accepted the same except Tempravory attachment areas between P.P 48 to 49 side panel (Cross beam). This area need to be grinded and touch up with Interzinc 52 required. This QA Inspector pointed out the same to ABF Inspectors. International protective coatings technical service representative Mr. Lou Qian Chuan. 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.

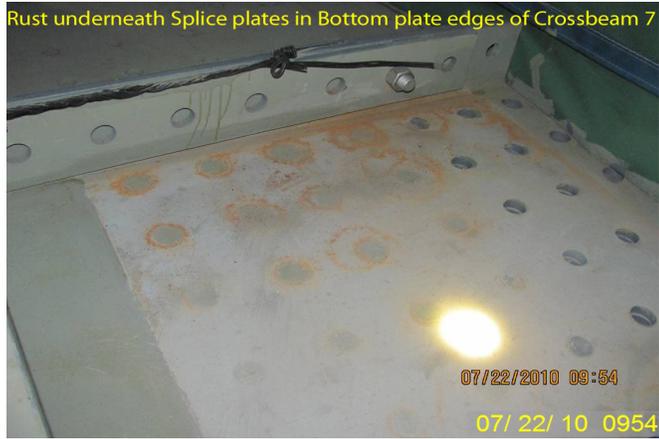
Summary of Conversations:

No applicable conversation



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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 Mr. 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