

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 #: 50.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001724**Date Inspected:** 01-Feb-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), Jiangyin**Location:** Chang xing dao, Shanghai**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:** Coatings 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 for Interzinc 22 application inspection for OBG connection weld seam internal ceiling U rib joining areas prior to fix the splices between 5AW to 5BW at OBG assembly yard, request no. 2597. This Caltrans inspector observed, ABF Inspector Mr. Wei and Mr. Jiang huan performing primer inspection of the specified areas. The splices between 5AW and 5BW found accepted by ABF after ZPMC attended the marked points for grinding and reblasting. Surface profile on the blasted areas measured by ZPMC by coarse grain method found to be 77 to 82 microns which is acceptable as per contract documents. Ambient conditions were monitored and found to be 7.1 deg. above dew point and the relative humidity found to be 62.4% over the specified area which is found to be within the parameters of contract documents. International protective coating technical service representative Mr. Peng Zi li was in attendance during the inspection process.
2. An inspection was requested for surface preparation and residual chlorides test inspection of OBG splice plates SEG 28-X 106J -43 nos, J-B-1350-54 nos, ZP 06-187-313-1350- 5 nos, GGL-MQ-1497/BKX1A- 13 nos and Cover plate GGL-MK-1502- 32 nos, request no. 2599. This Caltrans inspector observed, the same was found accepted by ABF after ZPMC attended the minor reblasting in the area marked by ABF Inspectors for low profile. The surface profile found to be in the range of 76 to 81 microns. The residual chloride test result found to be 10 us/cm which is acceptable as per contract documents. International protective coating technical service

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representative Mr. Peng Zi li was in attendance during the inspection process.

3. An inspection was requested for surface preparation inspection for OBG connection weld seam external areas between 5BW and 5CW at OBG assembly yard, request no. 2598. This Caltrans inspector observed, ABF Inspector Mr. Sun and Mr. Jiang huan performing Blasting inspection of the external surfaces. The areas between 5BW and 5CW found accepted by ABF after ZPMC attended the marked points for minor reblasting . Surface profile on the blasted areas measured by ZPMC by coarse grain method found to be 77 to 80 microns which is acceptable as per contract documents. Ambient conditions were monitored and found to be within the parameters of contract documents. . International protective coating technical service representative Mr. Peng Zi li was in attendance during the inspection process.

4. An inspection was requested for surface preparation inspection of OBG Traveler rail brackets and cat way channel -132 pieces. This Caltrans inspector observed, the same was found accepted by ABF after ZPMC attended the minor reblasting in the area marked by ABF Inspectors for low profile. The surface profile found to be in the range of 76 to 82microns. International protective coating technical service representative Mr. Peng Zi li was in attendance during the inspection process.

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 Skyler Guest (15000422360), who represents the Office of Structural Materials for your project.

Inspected By:	Baskar, Govindarajan	Quality Assurance Inspector
Reviewed By:	Clifford, William	QA Reviewer
