

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 #: 50.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001714**Date Inspected:** 22-Jan-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:** Coating Inspection**Bridge No:** 34-0006**Component:** OBG**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 the OBG segment, 8CW, External surfaces for the visual inspection after sweep blasting, vide request no. 2543. This Caltrans inspector observed, ABF inspectors Mr. Don walton, Mr. Sun and Mr. wei performing visual inspection of weld repairs, Spatters, dent etc. Caltrans Inspectors Mr. Larry viars and Mr. Tim mclandon were present during this inspection. Several points have been marked by Caltrans inspectors and ABF Inspectors which was attended by ZPMC Before offering the same segment again for Blasting clearance vide notification no. 2549. The same was found marked for minor blasting at U ribs, transverse weld and cross beam bolt holes by ABF Inspectors. The was found attended by ZPMC Personnels and was released for primer coat. The ambient conditions found to be 12.3 deg. above dew point and the relative humidity found to be 30.8% inside the paint shop 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 OBG Segment 8BE for mist coat application clearance after primer coat vide notification no. 2551. This Caltrans inspector observed, ABF Inspector Mr. don walton, Mr. Sun and Mr. Shi stone witnessing DFT inspection, Residual chlorides test and MEK pencil hardness test performed by ZPMC qc personnels. DFT found in the range of 80 to 120 microns. Other test results also found acceptable, i.e. within the ranges specified in the specifications. Ambient conditions were monitored and found to be within the parameters

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of contract documents. International protective coating technical service representative Mr. Peng Zi li was in attendance during the inspection process.

3. An inspection was requested for the OBG splices for Degreasing and cleaning of splice plates 1. X103E- 40 nos, 2. X103F- 34 nos, 3. Lsplice X37- 110 nos, request no. 2550. This Caltrans inspector observed, ABF Inspectors Mr. Shi stone performing Inspection of Degreasing and cleaning. Ambient conditions were monitored and found to be within the parameters of contract documents.

4. An inspection was requested for OBG Counter weight CW 32 and CW 34 for mist coat application clearance after primer coat vide notification no. 2551. This Caltrans inspector observed, ABF Inspector Mr. don walton, Mr. Sun and Mr. Shi stone witnessing DFT inspection, Residual chlorides test and MEK pencil hardness test performed by ZPMC qc personnels. DFT found in the range of 80 to 120 microns. Other test results also found acceptable, i.e. within the ranges specified in the specifications. Two places approximately 4 mm and 2 mm deep voids observed and the same was informed to Mr. Albert, B 209, Mr. Tim Mclendon, B290. As discussed with Mr. Mark miller, B- 274, Masking tape applied on these areas which can be identified and attended after mist coat. These voids are shown in the attached photographs. 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.

5. An inspection was requested for surface preparation inspection of 5AE, 5BE connection weld seam internal ceiling area at Trial assembly area, request no. 2552. This Caltrans inspector observed, ABF Inspector Mr. Sun and Mr. Shi stone performing Blasting inspection of the specified areas. Weld repairs observed in side plate stiffeners which was marked by ABF inspectors for rectification. Blasting profile found between 60 to 70 microns which is acceptable as per contract documents. Ambient conditions were monitored and not found to be suitable for blasting. i.e. 3 deg. above dew point. 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

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your project.

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