

**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-001712**Date Inspected:** 17-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), Changxing Island**Location:** Changxing 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:** 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, 8BE, OBG internal entire floor from the weld seam to P.P 65 to P.P 66, vide notification no. 2525. The same segment was rejected by ABF inspectors for not meeting the requirements of SSPC- SP10, vide notification no. 2524. This Caltrans inspector observed, ABF inspectors Mr. Don walton, and Mr. Sun performing surface preparation inspection and profile measurement. After minor blasting, All areas found accepted by ABF Inspectors. The ambient conditions found to be 5.3 deg. above dew point and the relative humidity found to be 40.8% 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 29 nos of Cat way Hand rails, request no. 2526. The details of the hand rails are as follows. 1. RL 201 A-21 nos, RL 201B, RL 201C, RL 202C, RL 202D- 2 nos each. This notification is for visual inspection of above mentioned handrails before Galvanizing. This Caltrans inspector observed, ABF Inspector Mr. Sun performing visual inspection of sweep blasted hand rails for weld undercuts, grinding touch ups, etc. Ambient conditions were monitored and found to be within the parameters of contract documents.
3. An inspection was requested for Surface preparation and primer coat application, request no. 2527 for OBG

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## SOURCE INSPECTION REPORT

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External cross beam terminal bottom plate. This Caltrans inspector observed, ABF Inspectors Mr. Don walton, Mr. wei and Mr. Sun performing surface preparation inspection and profile measurement and the same was rejected for poor blasting. Also ABF inspectors asked ZPMC to perform minor touch ups of bolt holes. The same bottom plate were again offered for surface preparation inspection vide notification no. 2529. Above mentioned ABF Inspectors found doing inspection and the profile measured was observed as 73 to 84 microns which within the requirement of Contract documents. Salt test also found performed by ZPMC personnels and the result found to be 10 us/cm. 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 OBG external cross beam terminal bottom plate support areas, request no. 2528. This Caltrans inspector observed, ABF Inspectors Mr. Dan walton and Mr. Sun performing surface preparation inspection of external surfaces and witnessing residual chlorides test performed by ZPMC. The profile found to be 54 to 68 microns. 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.

### 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.

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<b>Inspected By:</b>	Baskar, Govindarajan	Quality Assurance Inspector
<b>Reviewed By:</b>	Clifford, William	QA Reviewer

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