

**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:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002644**Date Inspected:** 10-Sep-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 External surface -11AW, vide inspection request no. 4239 for External adhesion test after Interzinc 22 application. This QA inspector observed, ABF inspector Mr. Turtle inspecting adhesion test in external surfaces in 6 places where the dolly have been attached. The result of adhesion test found to be in the range of 6.9 Mpa to 9.43Mpa which is acceptable as per contract documents. International protective coatings technical service representative Mr. Li Peng was found present during the course of this inspection process.

2. An inspection was requested on the OBG Cross beam side corner unit, External surface and Bottom plate of Lift 9 West, vide inspection request no. 4240 for DFT check before Finish coat application. This QA inspector observed, ABF inspector Mr. Don Walton and Mr. Wei and Mr. Helen inspecting all the surfaces. This was found accepted by ABF Inspectors, after cleaning down some surfaces for stain and dust. Temporary attachment on Cross beam bottom plate requires removal. Ambient conditions measured and found 3.9 deg. above dew point and the relative humidity found to be 77% which is acceptable as per contract documents. International protective coatings technical service representative Mr. Li Peng was found present during the course of this inspection process. (Photo of Ambient conditions measured by ZPMC QC inspectors is attached)

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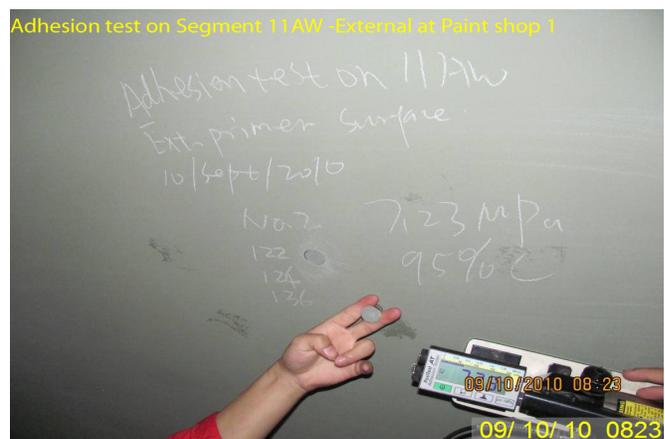
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3. An inspection was requested on the OBG segment 11BW, External surface for Surface preparation inspection , vide request no. 4241 at Blast shop 1. This QA inspector observed, ABF inspectors Mr. Don Walton, Mr. Stone, and Mr. Turtle performing the said inspection. This Caltrans inspector observed, Mr. Vibin (B 294) , Mr. Tim McClendon (B 290), Mr. Pillai (B286), and Mr. Larry Viars (B 252) from CT were present during the inspection and they marked all the Grinding points, Grinding +MT and weld repair points. This QA inspector observed, ABF inspectors rejected all internal surfaces for Overblast and poor blasting. This was again offered for inspection vide notification no. 4250 .Salt test have been performed by ZPMC inspectors and the result found to be 34.6 US/CM which is acceptable as per contract documents. (Photo of Salt test result is attached). This was found rejected again by ABF inspectors for low profile and irregular profile in some places. International protective coatings technical service representative Mr. Li Peng. was found present during the course of this inspection process.

4. An inspection was requested on the Cable support -SPST-01/1 -4nos for Washing and Degreasing at West Gate of the Blasting shop , vide inspection request no. 4244 . This QA inspector observed, ABF inspector Mr. Helen and Mr. Turtle inspected these cable supports and accepted the same for Blasting. International protective coatings technical service representative Mr. Li Peng was found present during the course of this inspection process.

5. An inspection was requested on the OBG Segment 11AW, External surface for DFT check of Primer application, Residual chlorides test and MEK test for Mist coat, vide inspection request no. 4245 at Paint shop 1. This QA inspector observed, ABF inspector Mr. Helen and Mr. Wei, Mr. Turtle inspecting all the surfaces. The result of Salt test carried out by ZPMC inspectors at 3 places found to be in the range of 12.1 to 15.5 US/CM and MEK test results conducted at 6 places found to be in the Gr. 5 which is acceptable as per Contract documents. International protective coatings technical service representative Mr. Li Peng was found present during the course of this inspection process.

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

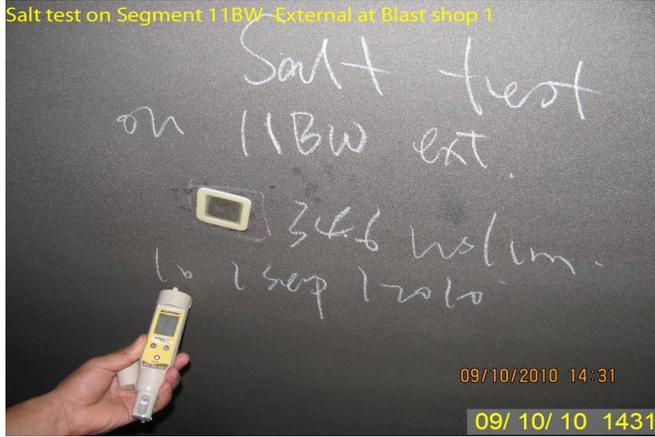


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## Summary of Conversations:

No Relevant 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 Michel Ng ( 15921845703), 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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