

**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-002512**Date Inspected:** 16-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 Suspender Bracket External surface- 12 nos for DFT check and final acceptance, vide request no. 3702 at No.2 Painting workshop. Caltrans Engineer Mr. Aaron Prichlik have been informed and after inspecting the surface He accepted 10 nos and Rejected 2 nos (SB 58E and SB 60W) for High DFT in large areas -400 to 600 microns .This Caltrans inspector Baskar Govindarajan observed ABF inspector Mr Wei and Mr. Sun assisting this inspection by carrying out DFT readings. International protective coatings technical service representative Mr. Lou Qian Chuan was found present during the course of this inspection process.
2. An inspection was requested for the OBG internal ceiling and corner unit (10AE), vide inspection request no. 3703 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. 3705 . The profile measured by ZPMC QC Inspectors at 6 places found to be in the range of 66 to 82 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

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# SOURCE INSPECTION REPORT

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acceptable as per contract specifications. Minor Blasting mistakes pointed out by ABF Inspectors during this inspection, which was attended and re offered for inspection, vide notification no. 3707. This was found accepted for Interzinc 22 application by ABF Inspectors. The ambient condition inside the Paint shop measured and found to be 5.1 deg. above due point, Relative humidity found to be 77.3%, which is acetable for painting as per contract documents. International protective coating representative Mr. Lou Qian Chuan found present during the inspection process.

3. During Quality Assurance (QA) random in-process observations, this Quality Assurance Inspector found Suspender Bracket no. SB66W, over coated with Interfine 979 –Mist coat, after exceeding the Overcoat interval, which is 14 days after Interzinc 22 application. This suspender Bracket found Erected on Lift 8, West, Deck panel in OBG assembly yard. As per contract documents, Surface preparation and Painting procedure Doc no. PQWP-P-001, Revision 4 –Section 8.3.9 – The Maximum interval of Over coating between Interzinc 22 and Interfine 979 should not exceed 14 days.This QA Inspector wrote Incident report. (Photo of suspender Bracket -SB 66 is attached)

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



## Summary of Conversations:

No Relevent 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 |
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| <b>Reviewed By:</b> | Clifford, William | QA Reviewer |
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