

**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-001507**Date Inspected:** 23-Feb-2009**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:** William (Bill) Oak**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 4AW**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley 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 III coating inspector observed the following:

**OBG 4AW**

ZPMC personnel are in process application of Interzinc 52 to the interior surfaces of the bolt holes. A Joint four party inspection was performed with Caltrans QA Lumley ZPMC & ABF QA/QC personnel and International Protective Coatings technical service representative Zili Peng were all present to verify the results of the following testing. Chloride tests were performed on the external surfaces coated with Interzinc 22 and were all below the minimum value specified in the contract documents. Quarter Rub testing was performed to ascertain cure and all areas exhibited a hard shiny surface with no areas exhibiting soft and powdery coating. DFT readings were observed being performed and average range was between 94-125um. ZPMC personnel were also in process of dry-spray removal utilizing sanding and screening methods to affected areas on the exterior surfaces to receive the "mist" coat application of Interfine 979. Adhesion dollies were affixed to the surface for future testing. Masking of areas was being performed for future base metal installations at faying surface locations. MEK testing was conducted in accordance with the contract documents and all areas exhibited a rating of 5. Pencil hardness testing was conducted and a 2H was observed for all test areas. ZPMC personnel applied the "mist" coat of Interfine 979 to the exterior surfaces. International Protective Coatings technical service representative Zili Peng monitored and directed all mixing and thinning of the Interfine 979. QA Lead coating inspector Don Jordan gave orientation as to the work locations and site of work where the segment assembly 5AE was in process. Mr. Lumley was informed of all coatings issues related to faying surfaces and performing work outside of shop facility as well as paint

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# SOURCE INSPECTION REPORT

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storage areas.

## Summary of Conversations:

No relevant discussions on this day.

## 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 Eric Tsang, (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James	Quality Assurance Inspector
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<b>Reviewed By:</b>	Miller,Mark	QA Reviewer
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