

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-001531**Date Inspected:** 02-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 5AE & OBG 3BW**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 5AE

Adhesion testing was performed on the interior surfaces coated with Interzinc 22 with the following resultant values: 1) 15.28 MPa 2) 13.78 MPa 3) 16.16 MPa 4) 10.44 MPa 5) 12.63 MPa all testing exceeds minimum value of 4MPa as specified in the contract documents.

OBG 3BW

ZPMC personnel resumed sanding operations to remove excess film build as directed and allocated by ZPMC QC personnel. Workers are also performing sanding operations on the exterior surfaces which exhibit visible dry spray contaminants. ABF QA were observed affixing dollies to exterior surfaces of the Interzinc 22 for the required adhesion testing. ABF also performed MEK rub test on exterior surfaces coated with Interzinc 22 as well as chloride testing. MEK testing was completed and all areas were given a 5 rating of the rubbed surfaces, DFT readings were taken both before and after the MEK testing with no visible staining on the white cloth apparent and no measurable loss of DFT. All chloride testing is below 10ug/cm.

Summary of Conversations:

ABF QA inspector Bill Oak directed ZPMC to apply additional "mist" coat of Interfine 979 topcoat over light areas which the Interzinc 22 was clearly visible to aid in the prevention of zinc salt formation as the segments are expected to remain outside the paint shop in exposure to regional atmospheric conditions for an extended period of time.

SOURCE INSPECTION REPORT

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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.

Inspected By:	Lumley,James	Quality Assurance Inspector
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Reviewed By:	Miller,Mark	QA Reviewer
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