

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-001485**Date Inspected:** 14-Apr-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 700**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 1BE, OBG 2BE, OBG 2BW, OBG 6BE, S**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 1BE

Perform a re-test of adhesion test in location of failed area on 4-13-09. Re-test value was 7.7Mpa.

Miscellaneous Metal

Adhesion testing was performed and the following values were observed. 1). 12.20Mpa 2). 12.76Mpa 3). 11.23Mpa.

Bikeway Brackets

Numerous brackets were inspected jointly today with ZPMC and ABF QA/QC personnel for surface preparation in accordance with ABF-RFI-001692R00. Surface preparation met the minimum requirement of the RFI however International Protective Coatings technical service representative Peng ZiLi rejected the work due to remaining existing coating compatibility issue. ZPMC could provide no data as to which manufacturer had supplied the "hold primer" to the base metal surfaces.

OBG 1BE

ZPMC personnel applied "mist" coat of Interfine 979 to exterior surfaces.

OBG 6BE

Corner unit # CA 028 base metal surfaces were abrasive blasted and primed with Interzinc 22.

OBG 2BW

Base metal surfaces were abrasive blasted inside the top "U rib stiffeners and vertical surfaces of the diaphragms

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and floor beams. VT inspection was performed by Caltrans Larry Viars and fabrication defects were amended. Re-blasting occurred and Interzinc 22 was applied via air-spray.

OBG 2 BW

Chloride testing was performed on exterior surfaces and 10us/cm was observed.

International Protective Coatings technical service representative Zili Peng was present during all inspections and monitored mixing and application processes.

Summary of Conversations:

No relevant conversations on this date.

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
Reviewed By:	Miller,Mark	QA Reviewer
