

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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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-001473**Date Inspected:** 12-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 6BE, Bikeway Brackets**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

ZPMC personnel abrasive blasted substrate area of segment pedestal supporting structures and applied Interzinc 22 to prepared surfaces at 8 locations. Sanding and screening of dry spray is currently in process.

Bikeway Brackets

Total of 6 bikeway support brackets substrates were abrasive blasted. Grinding operations of burrs and weld slag and fins followed by re-blasting operations and Interzinc 22 was applied to all exterior surfaces. Profile amplitude of 73-80 microns on these units and interiors were observed to have abrasive blast residues within.

OBG 6BE Corner Unit

Base metal faying surfaces were abrasive blasted to SSPC SP-10 and Interzinc 22 applied. Profile amplitude was 72 microns.

OBG 1BE

MEK rub testing was performed and a rating of 5 was observed, also chloride testing of exterior surfaces was performed and 10 us/cm was observed, dollies were glued on the exterior for adhesion testing.

Note: All inspections were performed jointly with ZPMC & ABF QA/QC representatives and Caltrans QA Lumley also in attendance was International Protective Coatings Technical service representative Zili Peng.

Summary of Conversations:

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Caltrans QA Lumley requested that ZPMC production manager that steel grit and grinding wheels were to be cleaned from the interiors of the bikeway support brackets. ZPMC complied and vaccumed the interiors.

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:	Carreon,Albert	QA Reviewer
