

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave. St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 50.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001220**Date Inspected:** 02-Nov-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), Jiangyin**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:** Office, OBG 6CW, Lift 2 West, Sub-Assembl**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:

Office

Review project documentation and attend to reports.

OBG 6CW

Pre-Blast inspection request for VT inspection and amendment of fabrication defects such as grinding of weld slag, burrs, fins, sharp edges. Welding issues were identified and mapped by Caltrans QA Rodney Patterson and ABF Peter Shaw.

Lift 2 West

External surfaces of repair areas were abrasive blasted to base metal and an SSPC SP-10 condition and Interzinc 22 applied. Two inspections were required prior to SSPC SP-10 achievement and the profile amplitude was 68-76um.

Sub-Assemblies

Base metal surfaces of approximately 650+- shim plates were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied. These components exhibited warping after abrasive blasting was performed. Approximately 80% of the shim plates exhibited some degree of warping.

OBG 6AW

Testing was performed on external surfaces to ascertain if applied coating was cured prior to application of Interfine 979 "mist" coat. All testing was in conformance with the contract documents and application proceeded

SOURCE INSPECTION REPORT

(Continued Page 2 of 2)

after faying surfaces were masked off to prevent overspray contamination.

OBG 6CE

Adhesion testing was performed on the internal undercoated surfaces and the following values were observed: 1) 12.13Mpa 2) 9.61Mpa 3) 6.66Mpa 4) 5.21Mpa 6) 12.56Mpa 7) 10.87Mpa 8) 13.52Mpa 9) 8.69Mpa. All testing exceeded minimum value of 4Mpa.

OBG 6CW

External base Metal surfaces were abrasive blasted to an SSPC SP-10 condition and interzinc 22 applied. Areas where Counterweights were to be affixed base metal surfaces were coated with Intercure 200HS. Profile amplitude was 69-84um.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

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:	Carreon,Albert	QA Reviewer
---------------------	----------------	-------------