

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-002350**Date Inspected:** 03-Jan-2010**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:** Don Walton**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:** Coating Inspection**Bridge No:** 34-0006**Component:** Office, OBG 8BW, OBG 7BW, OBG 8AW, 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 8BW

Internal "U" Rib Stiffeners, FL-2-1, Floor Beam Diaphragms, Upper Corner Unit assemblies were in process of re-blasting at time of inspection requested.

Office

ABF Satellite office review and sign backlog of ZPMC QC reports and Notices of Inspection. Also attend to uploading of backlog of reports into PMIV.

ONG 8AW

Internal Dry Film Thickness (DFT) verification requested by ZPMC the Notice of Inspection was rejected due to the work was still observed to be in process and incomplete at this time. ABF rejected and directed ZPMC to resubmit. Caltrans QA Lumley observed in process work when ABF personnel called to notify of inspection request.

OBG 7BW

Internal undercoated surfaces were tested for adhesion and the following values obtained: 1) 10.05 Mpa 2) 2.34Mpa 3) 2.06Mpa 4) 1.98Mpa 5) 4.36Mpa 6) 4.91Mpa 7) 4.72Mpa. Three tests were below minimum specified value of 4Mpa and once again re-testing was to be conducted. As with previous tests the epoxy adhesive appeared to be soft and insufficiently cured.

Sub-Assemblies

SOURCE INSPECTION REPORT

(Continued Page 2 of 2)

Base metal surfaces of the faying surface/bolted connections of the X3P Floor Beam Diaphragm areas were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied. Floor Beam Sub Assemblies as follows: OBG 9AE Panel Points 72 & 73, OBG 9BE Panel Points 74-76, OBG 9CE Panel Points 77-79.

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:

Caltrans QA Lumley discussed adhesion testing failures with International Protective Coatings Technical Service representative Zili Peng. Also Caltrans QA Lumley also sent email to ABF Don Walton relative to adhesion failures and adhesive cure requesting that testing not be performed until adhesive properly cured.

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:	Peterson,Art	QA Reviewer
