

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-002398**Date Inspected:** 15-Mar-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:** Lift 5 West, Lift 5 East, Cross Beams 5&6, 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:

Lift 5 East & West

Affixed traveler rail brackets were cleaned prior to application of Interfine 979 finish coating. ZPMC personnel applying top-coat by brush to bolts and base plate and edges.

Cross Beam #5&6

ZPMC submitted Notice of Inspection # 2873 then rescinded as both items were not ready for inspection of external surfaces.

Sub-Assemblies

Mist coated surfaces were finish coated on Counterweights 38, 40, 42 and also 36 Traveler Rail Brackets as well as 20 Counterweight Cover Plates, Suspender Bracket SB38E was non-compliant and no finish coating applied with this Notification.

Sub-Assemblies

Base metal surfaces of 248 Splice Plates and Suspender Brackets SB40 & SB46 were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied. Chloride values were 20µs/cm and profile amplitude was 70-80µm.

Cross Beam #5

External finish coated surfaces were visually inspected by Caltrans QA Lumley and Caltrans Engineer Aaron Prichlik visible non-uniform areas were observed on the vertical surfaces and ZPMC was informed to amend and

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repair the finish coated vertical surfaces, the bottom plate was in general compliance.

Site Walk with Caltrans Engineer followed after Cross Beam #5 inspection and Caltrans QA Lumley lead Mr. Prichlik to Painting workshops #1 & 2 and Blasting Shops 1&2 also directed to the approved Galvanizing facility and observed the galvanizing process of handrails and splice plates with ABF QA Manager Don Walton.

Lift 5 West

Cross Beam Bottom Plate/ FL-3 Connections were re-checked after repairs to exposed bolts and adjacent areas outside the grip on the bolts. Repairs were in general compliance with the contract documents and no grinning, shadow through, nor holidays were observed. ZPMC employed containment and utilized dehumidification to amend repairs. Interfine 979 finish coat was applied.

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:	Peterson,Art	QA Reviewer
