

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-001469**Date Inspected:** 31-Mar-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1200**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 2359**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 5CE, Sub Assemblies**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 5CE

Re-inspect fabrication and previously applied Interzinc 22 for follow-up inspection with ABF QA Bill Oak on box girder tube assembly. ZPMC personnel performed edge cutting process above on top and sides and failed to protect this assembly from dross and spatter all over this assembly. Previously applied coating damaged and rejected by ABF QA Bill Oak and directive to ZPMC verbally given to make proper repairs. Removal and replacement of the coating at no cost to the dept.

Sub-Assemblies

Checked base metal blasted surfaces of "T" stiffener clip plates and small angles, two days of grinding and edge conditioning after previously abrasive blasting had been performed. Grinding operations met the requirements of the contract documents, grease and oily deposits were evident on the surfaces SP-1 required prior to re-blasting these base metal surfaces.

Counterweight

Edge conditioning to remove slag and sharp edges in process.

Sub-Assemblies

Joint three party inspection was performed with ZPMC and ABF QA/QC representatives and Caltrans QA Lumley abrasive blasted base metal surfaces of 64 channel iron were inspected and during the course of the inspection it was noted that the flame cut ends of these base metal surfaces required grinding operations prior to abrasive

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blasting and coating application. ZPMC to amend and commence repairs of fabrication defects then re-blast upon completion.

Summary of Conversations:

ABF QA Manager Bill Oak directed ZPMC personnel to remove and replace previously applied and damaged Interzinc 22 coating from edge cutting process on OBG 5CE box/tube girder and assembly area.

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
