

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-001565**Date Inspected:** 22-Jan-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), 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 5AE & OBG 3AE**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: ZPMC resume checking Interzinc 22 DFT and amending low areas as directed and allocated by QC on bridge segment OBG 5AE.

ZPMC requested the inspection of segment diaphragm joint faying surfaces of OBG 3AE and box girder. QA Lumley arrived at location to be informed that ZPMC was not ready at 1530. Inspection was conducted later @1630 and surfaces were checked for profile by ZPMC QC and verified by Caltrans QA Lumley

Profiles were 56 and 66 um on the diaphragm base metal surfaces and 70um on the box girder, SSPC SP-10 was achieved and ZPMC was informed of such.

QC stated that ZPMC would apply Interzinc 22 to prepared surfaces of OBG 3AE. The QA inspector informed ZPMC that they can proceed at their own risk until procedure for coating operations outside of shop is approved. OBG 5AE ZPMC apply first coat Interzinc 52 to the interiors of the bolt holes.

ZPMC requested "urgent" inspection on the splice plates and "H" splice plates. The QA inspector observed de-greasing operations and blasting operations being continued. ZPMC then called for blast inspection on the same "urgently" needed plates. The QA inspector verified ZPMC QC in process work of checking profile and monitoring ambient conditions as well as mixing operations and mixed coating temperature. These checks at the time of inspection all appeared to be within the requirements of contract documents and product data sheets of International Paint. ZPMC applied Interzinc 22 to these members. Profile was 70 & 80um on the blasted surfaces. ZPMC loaded these said splice plates onto dolly cart and transported to the paint bay for application and the

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airspray method was utilized.

Summary of Conversations:

QA Lumley informed ZPMC "Notice of Inspection is required whether the case be "urgent" or not. QC stated that ZPMC would apply Interzinc 22 to prepared surfaces of OBG 3AE, QA also informed ZPMC that they can proceed at own risk until procedure for coating operations outside of shop is approved.

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
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Reviewed By:	Miller, Mark	QA Reviewer
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