

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-001504**Date Inspected:** 18-Feb-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 1AW, OBG 1AE, OBG 5AE, OBG 3BW**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 1AW & OBG 1AE

ZPMC cancelled inspection of abrasive blasted base metal surfaces this morning due to ZPMC did not wish to implement heating the blast shop area to obtain required ambient conditions. Inspection of these surfaces was delayed until suitable ambient conditions were achieved later this afternoon. Blasted base metal surfaces were SP-10 and ZPMC applied Interzinc 22 to these locations.

OBG 5AE & OBG 3BW

These two segments which were previously abrasive blasted and coated with the specified coating system and left outside in the elements were found to exhibit "ponding" water on the top surfaces International Protective Coatings product data sheets state that the Interzinc 22 is not recommended for immersion service. Ponding water creates an immersion environment not suitable for the specified system. Also adjacent work beside this segment is dispersing base metal shavings onto the interior surfaces of this segment and creating rust stain on recently applied Interzinc 22.

OBG 3AW

This segment was scheduled for adhesion testing of the interior surfaces coated with Interzinc 22 Caltrans QA Lumley attempted to perform a three party inspection jointly with ABF QA and ZPMC QC and International Coatings representative. However ZPMC was relocating this segment and directed all listed inspection personnel to leave the segment and abandon the testing. Two tests were completed prior to leaving with the following values

SOURCE INSPECTION REPORT

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observed: 1)9.99MPa 2)6.17MPa

Summary of Conversations:

Caltrans QA Lumley discussed with ABF QA Bill Oak the issue of water ponding and creation of an immersion environment not suitable for Interzinc 22 per International Protective Coatings Product Data Sheets. Mr. Oak stated he would make recommendations to ZPMC to ensure that the segments when stored outside should be placed at an angle to allow rain water to run off and no longer create this situation.

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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