

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-002400**Date Inspected:** 13-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:** Cross Beam #6, Sub-Assemblies, Lift 5 East,**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:

Cross Beam #6

Base metal surfaces of the internal and external were abrasive blasted for a VT inspection of welds and defects. Grinding of sharp edges, burrs, and fins proceeded following and concurrent with inspection. Joint inspection of base metal and welds performed by ABF and CT personnel. Abrasive blasting resumed afterward and ZPMC to resubmit notification upon completion for abrasive blast inspection.

Sub-Assemblies

Testing consisted of MEK rub Pencil hardness and chloride verification of undercoated surfaces of 37 Traveler Rail Brackets prior to "mist" coat Interfine 979 application, all testing performed was in general compliance with the contract documents and application was performed.

Lift 5 East

Cross beam termination bottom plate of the FL-3 beams were top-coated with Interfine 979 Finish coat, the areas of the bolted connections were uncoated at this time.

Lift 5 West

Cross beam termination bottom plate of the FL-3 beams were top-coated with Interfine 979 Finish coat, the areas of the bolted connections were uncoated at this time.

Sub-Assemblies

ZPMC requested a "Final" acceptance for 20 pieces of Counterweight Cover Plates, the top portion was coated

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with Interfine 979 Top coat and the surfaces to be in contact with concrete were coated with Intercure 200 HS, ZPMC was informed only a Caltrans Engineer can determine final compliance and that Caltrans personnel were unavailable on weekends.

Sub-Assemblies

36- Traveler Rail Brackets and SB38E and Counterweights# 38, 40, 42 previously undercoated with Interzinc 22 were tested for chlorides, cure and hardness and found to be in general compliance with the contract documents and "Mist" coat Interfine 979 was subsequently applied.

Lift 5 West

ZPMC requested a "Final" inspection of the internal undercoated surfaces prior to transport from ZPMC facility. Internal undercoated surfaces were covered in spent abrasives and dirt and ABF QA rejected the works, ZPMC to resubmit upon completion of cleaning operations.

Cross Beam #5

Adhesion testing was performed on applied Interzinc 22 undercoat and testing exceeded minimum value of 4Mpa as specified in the contract documents.

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
