

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-002392**Date Inspected:** 07-Apr-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:** Sub-Assemblies, OBG 9BW, OBG 9BE, Lift**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:

Office

Sort and organize project files and documentation.

Sub-Assemblies

Base Metal surfaces of approximately 767 pieces of angle iron and splice plates were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied. Chloride values were observed at 10µs/cm and profile amplitude was 80-85µm.

OBG 9BE

Internal and external base metal surfaces were washed and de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting operations.

Lift 7 East/ OBG 7BE

Base metal surfaces of the Cross Beam/FL-3 Bottom Plate Stillage support contact surfaces were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied. Profile amplitude was 85 & 86µm.

Sub-Assemblies/OBG 12AW

Base metal surfaces for OBG 12AW Upper Corner Unit Faying surface area was abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied. Profile amplitude was 68-77µm.

OBG 9BW

Base metal surfaces of the external Bottom Plate stillage support contact points were abrasive blasted to an SSPC

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SP-10 condition and Interzinc 22 undercoat applied. Profile amplitude was 72-82µm. Concurrent with this work the internal undercoated surfaces were also being touched up on low Dry Film Thickness (DFT) areas with Interzinc 22 and interior surfaces of the bolt holes were being coated with Interzinc 52 undercoat. Screening and sanding were observed to remove dry-spray and runs and also cleaning operations on internal undercoated surfaces as well were observed.

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:

Discussed with SMR Eric Tsang, ABF's pending request to utilize un-approved coating materials for demarcation of components for identification purposes. Caltrans QA Lumley suggested ABF utilize any of the approved coatings from International Protective Coatings currently being utilized on the SAS Bridge Project.

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:	Peterson, Art	QA Reviewer
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