

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave. St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

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-001270**Date Inspected:** 11-Aug-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:** Miscellaneous Metal, Lift 4 East, Lift 3 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:

Miscellaneous Metal

Base metal surfaces of 115 pieces of Splice plates were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied.

Lift 4 East

Cleaning operations of the internal surfaces for remediation and amendment of damaged areas from trial assembly operations. Installation of all the bridge components still remain incomplete at this time.

Miscellaneous Metal

Tower splice plate base metal surfaces were abrasive blasted to an SSPC SP10 condition and Interzinc 22 applied. Splice codes: SA102-E, SA365-E, SA366-E, SA367-E, SA368-E.

Lift 4 East

Weld seam at Panel point #24 was re-abrasive blasted to base metal and an SSPC SP-10 condition and Interzinc 22 applied. Localized damages were also repaired concurrent with this work on the floor beam, "T" stiffeners, and longitudinal diaphragms.

Lift 3 East

Interfine 979 "mist" coating was applied adjacent to the "masked" faying surface areas for damage repair work prior to full application of final finish coat.

Cross Beam #3

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Mud-Crack areas on internal surfaces were abrasive blasted to base metal and an SSPC SP-10 condition and Interzinc 22 re-applied. Approximately 1/4 square meter of surface area was repaired.

Lift 2 West

Repairs were made to areas previously coated with Intercure 200 HS and Interzinc 22 by abrasive blasting to base metal and an SSPC SP-10 condition and re-application of coatings in affected areas. Areas coated were the points of attachment for the Counterweight faying surface which were re-coated with Interzinc 22 and the surfaces to be in contact with concrete which were re-coated with Intercure 200HS. Profile amplitude was 78-81um.

Cross Beam #3

Was transported from Trial assembly area to paint shop #2 for repairs and application of final finish coating to external surfaces.

OBG 6BE

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

Note : All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative Mr. Alpha Chen was available for inspections and consultation.

Summary of Conversations:

Caltrans QA Lumley met with ABF QA Bill Oak at Lift 4 East to discuss and view side plate repairs. ZPMC wished to apply final finish coat of Interfine 979 despite fabrication being incomplete and caulking not applied on traveler bracket crevice areas. Mr Oak directed ZPMC "not to apply final finish coat" prior to installation of drip edge/rain diverter and subsequent testing completed of welds.

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:	Carreon,Albert	QA Reviewer
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