

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-001335**Date Inspected:** 19-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:** Lift 4 East, Office, Cross Beam #3, 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 140+- pieces of Splice plates and faying surfaces of Upper Corner unit and Wind Vortex members were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied.

Cross Beam #3

Splice plates were in process of sanding and screening operations to Interzinc 22 coated surfaces to remove residual dry-spray and overspray. Final inspection for transport from paint facility after minor touch up and repairs of internal hole surfaces, minor areas discovered and were amended in presence of Caltrans QA Lumley.

Office

Reviewed and signed backlog of ZPMC reports and paperwork and associated project documentation.

Lift 4 East

Check in process repair work on internal surfaces which were abrasive blasted to base metal and an SSPC SP-10 condition and coated with Interzinc 22. Repairs were previously identified by Caltrans QA Lumley during cursory inspection, ZPMC QC personnel should identify and amend on their own to expedite repair process. Rust still visible, chips and edges damages visible and over-blast damages visible on previously coated surfaces require amendment. This lift is still located on the ship.

Cross Beam #3

Final topcoat inspection prior to transport from paint shop was accepted at this time of inspection by Caltrans

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Engineer Bill Howe. External surfaces top-coated with Interfine 979 were viewed and inspected and Caltrans Engineer Bill Howe was content with visual appearance and quality of workmanship.

Lift 3 East

Inspection and top coat application was delayed due to ambient conditions not being within Specified parameters of specification and manufactures product data sheets. Later on in the day the internal surfaces were abrasive blasted to base metal and an SSPC SP-10 condition and Interzinc 22 applied to “T” stiffeners areas and Longitudinal diaphragms and areas of the Upper Corner Unit sub-assemblies.

Cross Beam #3

This assembly was transported to the ship today.

Tower Miscellaneous Metal

Base metal surfaces of external splice plates were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied. Splice Plates codes: SA102-W, SA365-W, SA366-W, SA367-W, SA368-W.

Miscellaneous Metal

Splice plates for tower were made by abrasive blasting to base metal and an SSPC SP-10 condition and an SSPC SP-10 condition and Interzinc 22 applied.

Summary of Conversations:

No relevant conversations on this day.

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:	Carreon,Albert	QA Reviewer
