

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-001276**Date Inspected:** 18-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:** OBG 6BE, Lift 4 East, Miscellaneous Metal, C**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:

Lift 4 East

Lift is being transported to ship despite incomplete coating inspection for internal surfaces and incomplete NDT of CWR's of internal welds. External surfaces which are top-coated were found to have excessive Dry Film Thickness readings and still requires amendment by ZPMC.

OBG 6BE

Internal base metal surfaces of "U" rib stiffeners and FI-3 & FL-2 floor beams were abrasive blasted for final VT inspection of welds and surface defects from fabrication.

Counterweights

Final acceptance inspection with Caltrans Engineer Bill Howe was conducted within paint shop#2 these items were previously inspected and rejected due to Low Dry Film Thickness and visual appearance and film discontinuities discovered by Caltrans QA Lumley. Repairs were made by ZPMC and upon re-inspection were found to be acceptable prior to transport from the paint shop. Item codes: CW10, CW16, CW24 and Traveler Bracket TR5A-PP13.

Splice Plates/Cross Beam #3

Inorganic zinc coated faying surfaces were inspected prior to transport and found to comply with Specified requirements for use. Anticipate damages to coated surfaces due to handling and transport by ZPMC personnel.

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SOURCE INSPECTION REPORT

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Review and sign project documentation in ABF satellite office.

Lift 4 East

Directed to photo-document external surfaces of FL-3 Beams by SMR Skyler Guest to ascertain if visible overspray contamination had occurred from adjacent spray application operations on Container Crane observed prior to loading Lift upon ship. During course of inspection Caltrans QA Lumley observed repairs were still incomplete on internal surfaces of the segment FL-3 beams, freckle rust was evident as well as low dry film thickness and dry-spray areas. Also observed was no access to internal areas still in need of final NDT of welds. Personnel were within the joined segments performing repairs with no Notice of Inspection given to ABF or Caltrans noting the work being performed. Internal surfaces still dirty and have tools and materials strewn about.

OBG 6BE

Internal surfaces of "U" ribs and floor beams were inspected and found non-compliant by ABF QA Inspection staff. Caltrans follow up required.

Miscellaneous Metal

De-greasing of base metal surfaces of 50+- splice plates in preparation of abrasive blasting operations.

Office

Drafted Incident reports pertaining to non-conforming work.

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

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
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Reviewed By:	Carreon,Albert	QA Reviewer
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