

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-001283**Date Inspected:** 30-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:** Office, Cross Beam #2, OBG 6BE, Lift 2 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:

Office

Sort and organize project documentation and files.

Cross Beam #2

Inspection requested to verify surface cleanliness prior to full top-coat application of Interfine 979. Upon inspection of the top surface it was discovered that this area had never been "mist" coated previously and the 14 day window had been exceeded for over-coating Interzinc 22 as recommended by International Protective Coatings (IPC) data sheet Working Procedures for application of Interfine 979. Caltrans QA Lumley consulted with IPC technical representative Mr. Peng ZiLi and it was determined that the previously applied Interzinc 22 would require complete removal by abrasive blasting to base metal and re-application of Interzinc 22 prior to application of Interfine 979.

OBG 6BE

ZPMC personnel performing Dry Film Thickness (DFT) verification and checking Caltrans QA Lumley checked to ensure DFT not being checked over dry-spray.

OBG 2AE

Top deck repairs to previously applied Interzinc 22 damages, inspection revealed additional re-work required consisting of re-blasting non SSPC SP-10 areas. ZPMC performed re-work concurrent with inspection, surfaces were re-blasted to base metal and an SSPC SP-10 condition and Interzinc 22 re-applied to affected areas.

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Lift 3 East

Repairs to internal surfaces from weld verification are still incomplete, ZPMC requested inspection despite incomplete fabrication work. MT incomplete in addition to surfaces not cleaned and poor lighting conditions on internal areas requested for inspection.

Lift 2 West

Repairs were performed via re-abrasive blasting damaged areas on Top Plate to base metal and an SSPC SP-10 condition and re-application of Interzinc 22. Profile amplitude was 78-80um.

Miscellaneous Metal

Traveler Rail Brackets coded: TR1B-PP17, TR2F-PP11, TR5E-PP11, TR1B-PP23, TR3B-PP09, TR2E-PP10, TR4D-PP10, TR5E-PP11, were tested for cure and hardness and found compliant with contract documents.

Inspection was initially performed by ABF QA and Caltrans to follow up. Follow-up Inspection performed by Caltrans QA Lumley and quarter rub tested for verification.

Lift 2 East

Top Plate repairs via re-abrasive blasting to base metal and an SSPC SP-10 condition and Interzinc 22 re-applied. Profile amplitude was 74-80um.

Miscellaneous Metal

Sub Assemblies pieces for Tower support gratings coded: WD1-CBSA3-1-48M, WD1-CBSA3-1-53M, WD1-CBSA3-1-65M, WD1-CBSA3-1-77M, WD1-CBSA3-1-89M, WD1-CBSA3-1-99M, WD1-CBSA3-1-109M, CBSA3-1-119M and 2-small angle brackets base metal surfaces were de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting.

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 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.

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| Inspected By: | Lumley,James | Quality Assurance Inspector |
| Reviewed By: | Carreon,Albert | QA Reviewer |
