

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-000605**Date Inspected:** 09-May-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 0**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 12**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai

Quality Control Contact:	ABF Paint Supervisor 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: Surface Preparation and Coatings Application**Bridge No:** 34-0006**Component:** OBG 5AW, Misc. Metal**Bid Item:** 77,78,79,80**Lot No:** B226**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Donald Jordan 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: The following inspections were performed by Caltrans QA Coatings Inspector Jordan, American Bridge/Fluor Enterprises, a JV (ABF) Paint Supervisor William (Bill) Oak, ABF QC Zhou Qun Song (Joe), ABF QC David Duon, ABF QC Shi Zhaoyuan (Stone), ABF QC Zhou Wei, International Paint (IP) Onsite Technical Services Engineer (OTSE) Peng Zi Li, IP OTSE Alpha Chen, Zhenhua Port Machinery Company, LTD (ZPMC) QC Manager Xia Yong, ZPMC QC Zhang Diang, ZPMC QC Dong Yao Fei and ZPMC QC Guo Wan Li.

OBG 5AW

Caltrans QA Coatings Inspectors received a Notice of Inspection for to attend a joint inspection with ABF and ZPMC QC to view the external coatings repair areas on mud-cracked spots. The repaired areas met contract requirements. Finish (Mist) coat was applied.

Cure tests were performed according to the requirements in the Contract Special Provisions, the Approved As Noted Paint Quality Work Plan and the appropriate standards referenced in those documents. The Pencil Hardness test was acceptable. The Quarter Rub test was acceptable. The Solvent Rub (MEK Rub) test passed.

Adhesion Tests were performed. The dollies were pulled under the supervision of the above listed QA and QC personnel. The pull tests were acceptable. The results exceeded the contract requirement of 4Mpa minimum.

Dry Film Thickness readings (DFT's) were taken according to SSPC PA-2. The dft's were recorded by ZPMC QC

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personnel. Taking of the readings were not witnessed by Caltrans QA Coatings Inspectors and ABF QC personnel.

Spot checks will be taken by Caltrans QA Coatings Inspectors at a later time. ABF has not given the final approval of the coating application.

Residual Chlorides (soluble salts) tests were performed on OBG 1AW external surfaces. The test results showed that the surface was acceptable to be coated with Inerfine 979 finish coat. The highest registered reading of salts contamination was 20 micro Siemens per square centimeter which is below the contract maximum of 10 micrograms per square centimeter.

Miscellaneous Metal

Caltrans QA Coatings Inspectors received Notices of Inspection for to attend joint inspections with ABF and ZPMC QC for surface preparation by abrasive blasting on 2 OBG counterweight segments.

A few spots of grinding were required to remove arc strikes, sharp edges, dings in the substrate that left sharp edges sticking up, and edge conditioning required by the Project Special Provisions Section 10-1.69. After the grinding was completed the surfaces were re-blasted to meet the SSPC SP10 Contract requirements. Surface profile Testex Tape was used by ZPMC QC personnel to record the blast profile. The Testex tape was measured using a dial micrometer. The readings were within the contract requirements of 40 and 86 microns. Ambient conditions were within Contract required parameters. ZPMC was allowed to proceed with applying the Interzinc 22 primer coat. Mixing and application was not witnessed by Caltrans Coatings Inspectors.

Fabrication on assembled components of the OBG's are not complete. Coating damage requiring re-blast is expected.



Summary of Conversations:

Bill Oak informed Caltrans Coatings staff that his contract was not being renewed. His last contracted day is June 12, 2009.

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 Mazen Wahbeh (China) +8613472477571, who represents the Office of Structural Materials for your project.

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Inspected By:	Jordan,Don	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer
