

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:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002945**Date Inspected:** 02-Nov-2010**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:** Don Walton**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, TL3S, TL3E, Sub -Assemblies (Tower)**Bid Item:** 77, 78, 79**Lot No:****Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

TL3S Tower External Surface, NOI Number T1441 (08:15): In accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives and CalTrans Engineer, Chris Havel, observed the final coat installation on TL3S Tower External Surface. ABF and ZPMC QA/QC recorded final surface dry film readings (DFT) in accordance with SSPC-PA2 and Mr. Havel approved the final coat installation in regards to appearance. Contact and support surfaces will be reworked after transport to ship and ZPMC will submit NOI's as required by project specifications.

Sub-Assemblies (OBG)

CB14 Cross Beam External Surface, NOI Number 4787: In accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives and CalTrans Engineer, Chris Havel, observed the final coat installation on CB14 Cross Beam External Surface. ABF and ZPMC QA/QC recorded final surface dry film readings (DFT) in accordance with SSPC-PA2 and Mr. Havel approved the final coat installation in regards to appearance with the exception of X1 side panel which will be abraded and re-coated due to appearance only. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to final acceptance. No discrepancies noted.

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TL3E Tower External Surface, NOI Number T144A: In accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives and CalTrans Engineer, Chris Havel, observed the final coat installation on TL3E Tower External Surface. ABF and ZPMC QA/QC recorded final surface dry film readings (DFT) in accordance with SSPC-PA2 and Mr. Havel approved the final coat installation in regards to appearance. Contact and support surfaces will be reworked after transport to ship and ZPMC will submit NOI's as required by project specifications.

TL3E Tower External Surface (Galvanized Parts), NOI Number T144: This inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on part/s in accordance with SSPC-SP 1 in preparation for undercoat installation. No discrepancies noted ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Sub -Assemblies (Tower)

ND1-SPSA4-18 Facade Cover Plate External Surface, Facade Cover Plates External Surfaces (12 Each) and TL3E, S, N and W Tower Man Hole Cover Plates External Surfaces (Galvanized), NOI Number T1443: This inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on part/s in accordance with SSPC-SP 1 in preparation for finish coat installation on Facade Cover Plates External Surfaces (12 Each) and TL3E, S, N and W Tower Man Hole Cover Plates External Surfaces (Galvanized). TL3E, S, N and W Tower Man Hole Cover Plates External Surfaces (Galvanized) was observed in preparation for mist coat installation with additional testing to include MEK and pencil hardness test in accordance with SSPC-PA 2 Dry Film Thickness (DFT) and ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub). High DFT readings were recorded on ND1-SPSA4-18. MEK test results were satisfactory with X1 test recorded value of 4. No other discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding to the next scheduled check point.

Office

Attend to report writing and photo documentation.

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

Summary of Conversations:

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 , who represents the Office of Structural Materials for your project.

Inspected By: Cason, Kenneth

Quality Assurance Inspector

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Reviewed By: Miller,Mark

QA Reviewer