

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-002967**Date Inspected:** 03-Dec-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:** Sub-Assemblies (OBG), OBG and Office.**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:

Sub-Assemblies (OBG)

Bike Path Panels BK4A-005 and BK4A-012, NOI Number 5215: In accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the final coat installation on Bike Path Panels BK4A-005 and BK4A-012. ABF and ZPMC QA/QC recorded final surface dry film thickness readings (DFT) in accordance with SSPC-PA2. Discrepancies noted on Bike Path Panel BK4A-012 (low DFT readings). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to final acceptance.

OBG

11BE Cross Beam Bottom Plate, NOI Number 5216: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on 11BE Cross Beam Bottom Plate was tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT), ISO 11127-6, ISO 11127-7 (Residual Chlorides) and ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub). Test results recorded x1 soluble salts reading of 11.9 ($\mu\text{s/cm}$) and x2 MEK resistance 2 @ grade 5. Dry film

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thickness readings were recorded with readings in the 90 to 147 μm range. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

12CE OBG Internal Floor, NOI Number 5217: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on 12CE OBG Internal Floor. Test results recorded x1 soluble salts reading of 27.3 ($\mu\text{s/cm}$). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to insufficient surface preparation (grinding, weld repairs and additional blasting required).

12CW Internal and External Surfaces, NOI Number 5219: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on 12CW Internal and External Surfaces in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

12CE OBG Internal Floor, NOI Number 5220: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on 12CE OBG Internal Floor. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to insufficient surface preparation (grinding, weld repairs and additional blasting required).

12CE OBG Internal Floor, NOI Number 5221: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on 12CE OBG Internal Floor. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to insufficient surface preparation (additional blasting required).

Office

Attend to report writing and photo documentation.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

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
Reviewed By:	Miller,Mark	QA Reviewer
