

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave. St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

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-000623**Date Inspected:** 13-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 Lifts 3&4, Tower L1E**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.

Tower

Tower Lift 1 E was taken into the blast shop today. Scaffolding is being erected around the exterior.

Hydraulic oil dripped from the transport equipment throughout the blast shop floor contaminating the abrasive laying on the floor. The spots were scooped up and solvent cleaned using a bucket of thinner and a paint brush. It was pointed out to ABF that all they are doing is dissolving the oil and spreading it around contaminating more of an area. ABF requested that ZPMC use clean rags and clean thinner to clean up the oil spots.

Caltrans QA Coatings Inspectors received Notices of Inspection for to attend joint inspections with ABF and ZPMC QC for surface preparation by abrasive blasting of the following items:

OBG Lifts 3 and 4

SOURCE INSPECTION REPORT

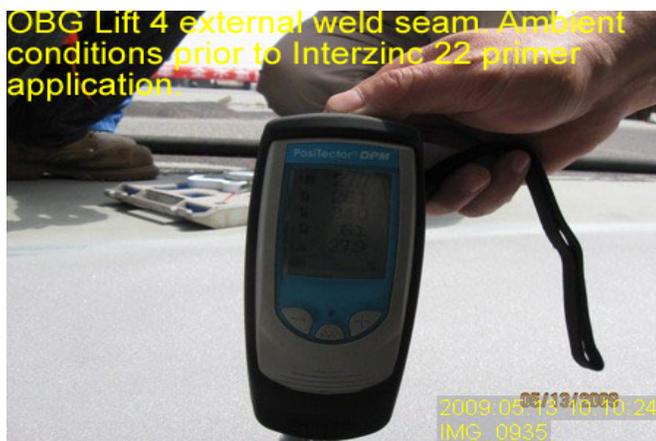
(Continued Page 2 of 3)

The external weld seams on OBG's 4AW and 4BW were abrasive blasted and inspected. Several spots were marked for re-blasting. The entire area was sweep blasted prior to primer application. The top deck surface was above 40°C when the inspection began. The top deck was coated last. At the time the coating was applied to the top deck the surface temperature had dropped below 40°C.

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. Residual Chlorides (soluble salts) tests were performed on the faying surfaces. The test results showed that the surface was acceptable to be coated with Interzinc 22.

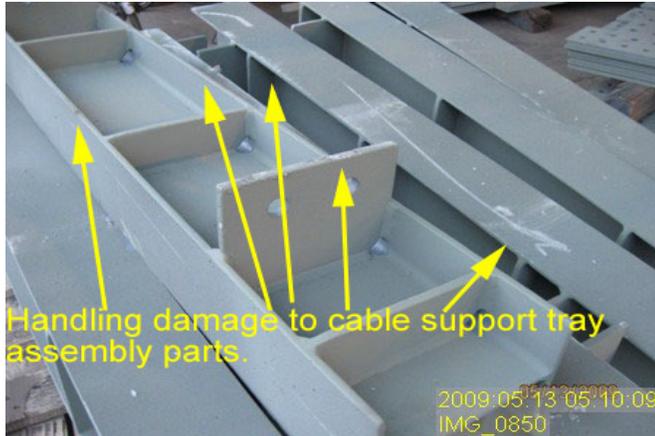
The highest registered reading of salts contamination was 20 micro Siemens per square centimeter which is below the contract maximum of 10 micrograms per square centimeter. Ambient conditions were within Contract required parameters. After acceptance of the surface preparation, Interzinc 22 primer was applied within the specified 8 hour window after the start of abrasive blasting.

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



SOURCE INSPECTION REPORT

(Continued Page 3 of 3)



Summary of Conversations:

There were no relevant conversations on this date.

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.

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