

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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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-000630**Date Inspected:** 21-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

<b>Quality Control Contact:</b>	ABF Paint Supervisor William (Bill) Oak	<b>Quality Control Present:</b>	Yes	No
<b>Material transfer:</b>	Yes No N/A	<b>Sampled Items:</b>	Yes	No N/A
<b>Stock Transfer:</b>	Yes No N/A	<b>OK to Cut:</b>	Yes	No N/A
<b>Rebar Test Witness:</b>	Yes No N/A	<b>Delayed/Cancelled:</b>	Yes	No N/A

**Other:** Surface Preparation and Coatings Application**Bridge No:** 34-0006**Component:** OBG Lifts 3&4, Misc. Metal, 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.

Caltrans QA Coatings Inspectors received Notices of Inspection for to attend joint inspections with ABF and ZPMC QC for the following:

**Miscellaneous Metal**

A request was received by Caltrans QA Coatings Inspectors to perform an after abrasive blasting in inspection on miscellaneous splice plates in blast shop # 2. A visual inspection was performed. Many of the plates required grinding to chamfer the edges and remove flame cut edges. After the grinding was completed the plates were re-blasted. Blasting continued after this inspector's shift ended.

**Tower**

An inspection request was received for checking the dry film thickness (dft's) of the primer coating on the exterior of Tower Lift 1 East. As ZPMC began taking and recording dft readings they canceled the inspection. No

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# SOURCE INSPECTION REPORT

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explanation was given to Caltrans Coatings Inspectors. It was later determined that there was mud-cracking in areas of the zinc primer that require abrasive blast removal.

## OBG Trial Assembly

An inspection request was receive to attend an inspection of abrasive blasted surfaces along weld seams in OBG lifts 3 and 4. ABF inspectors rejected the blast in the presence of Caltrans QA Coatings Inspector Jordan due to flash rusting on the blasted surface. The area will be re-blasted and re-inspected prior to primer application.

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



## 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.

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<b>Inspected By:</b>	Jordan,Don	Quality Assurance Inspector
<b>Reviewed By:</b>	Carreon,Albert	QA Reviewer

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