

**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-000742**Date Inspected:** 11-Jul-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) [Name]			<b>Quality Control Present:</b>	<b>Yes</b>	<b>No</b>	
<b>Material transfer:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Sampled Items:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>Stock Transfer:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>OK to Cut:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>Rebar Test Witness:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Delayed/Cancelled:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>

**Other:** Surface Preparation and Coatings Application**Bridge No:** 34-0006**Component:** OBG L4E, 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:

All Notices of Inspection and Quality Control (QC) Inspection reports signed by Mr. Jordan on this date identify receipt of the documentation and are not intended to be identified as acceptance or rejection of the work performed.

Tower Lift 1 East

First Inspection request

Caltrans QA Coatings Inspector Jordan received a phone call from ABF QC Sun Xiong yesterday evening requesting an inspector to attend an inspection of interior spot blast repairs on tower lift 1 East. There were no Caltrans Coatings inspectors on site at that time. Mr. Sung was reminded that painting was not allowed outside of the approved paint facility at this time. If coatings were applied an incident report will be written, to proceed at your own risk. Mr. Jordan was also concerned about oil contamination on the interior surfaces from foot traffic due to large amounts of oil and grease around the work area outside the tower segments. No degreasing inspection was requested prior to abrasive blasting.

Upon arriving at work this morning, Mr. Xiong informed Mr. Jordan that the inspection yesterday evening was canceled. No coatings were applied.

Second inspection.

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Caltrans QA Coatings Inspectors received Notices of Inspection to attend a joint inspection with ABF and ZPMC QC for degreasing inspection on the internal surfaces of tower lift 1 East. There was no visible oil or grease on the surfaces inspected. It was observed by Mr. Jordan that there were no bags of new abrasive at the blast pots so ABF QC was reminded that recycling of abrasive other than the steel abrasive in the blast shop is not allowed. Again ABF QC personnel were reminded that an Incident Report will be written if any coating was applied because of Caltrans Letter No. 05.03.01-004556 which states "Provide an MFSQA to the Department should ZPMC wish to proceed with the application of paint outside of the approved facility as was previously noted during the audit performed on November 28, 2008."

### OBG Lift 4 East

Caltrans QA Coatings Inspectors received Notices of Inspection to attend joint inspections with ABF and ZPMC QC for surface preparation by abrasive blasting and primer coat application on OBG L4E cross beam connection area and support areas located in the OBG trial assembly area. Caltrans QA Coatings Inspector Jordan arrived at the inspection site early. Abrasive blasting was still in progress. Shortly after Mr. Jordan's arrival, half an hour before the inspection time a fork lift arrived with a pallet of new abrasive. The blast hose was disconnected from the blast pot. The blast pot was blown out. At the inspection time the inspection was canceled by ZPMC. They stated the reason for the cancelation was that fabrication was not complete in the work area.

### OBG Miscellaneous Metal

Caltrans QA Coatings Inspectors received Notices of Inspection to attend joint inspections with ABF and ZPMC QC for surface preparation by abrasive blasting and primer coat application on 60 splice plates, 8 corner unit components and 2 foot plates. Caltrans QA Coatings inspectors did not witness the abrasive blast inspection of the above listed items. The contractor requested inspections to be performed in multiple locations on the project at the same scheduled time. Caltrans QA Coatings Inspector Jordan was not able to attend all the scheduled inspections due to the walking distance between the various work locations and the time it takes to perform an inspection. ABF QC staff was present for the inspection and found the surfaces suitable for coating application.

Caltrans QA Coatings Inspectors received Notices of Inspection to attend joint inspections with ABF and ZPMC QC for surface preparation by degreasing prior to abrasive blasting on 12 channels and 20 bike path components. Caltrans QA Coatings inspectors did not attend the degreasing inspection of the above listed items. The contractor requested inspections to be performed in multiple locations on the project at the same scheduled time. Caltrans QA Coatings Inspector Jordan was not able to attend all the scheduled inspections due to the walking distance between the various work locations and the time it takes to perform an inspection. ABF QC staff was present for the inspection and found the surfaces suitable for abrasive blasting to begin.

Fabrication on assembled components of the OBG's and Towers are not complete. Outstanding weld repairs have not been performed. Coating damage requiring re-blast is expected.

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Tower Lift 1 East: Low dry film thickness repair areas. Re-blast requires. Does not meet contract requirements for cleanliness



OBG Lift 4 East: Fabrication continues above the area prepared for coating application.



## 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
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<b>Reviewed By:</b>	Carreon,Albert	QA Reviewer
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