

**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-002384**Date Inspected:** 10-Jan-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:** Coating Inspection**Bridge No:** 34-0006**Component:** Trial Assembly, Office, OBG 8BW**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley 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: OBG 8BW

External undercoated surfaces were tested for Chlorides and 10/20us cm observed values. Also adhesion testing was performed and all tests were in excess of minimum value specified of 4Mpa except one which was observed at 3.77Mpa another dolly was to be affixed for re-test at that location. Pencil Hardness and Quarter Rub testing was also performed. Ambient conditions were monitored and non-compliant with the requirements of the contract documents and "Mist" coat application was delayed.

Trial Assembly

Observed work processes in area behind Lift 5 East of the container crane where Lead Abatement work was set to commence by International Protective Coatings. International Protective Coatings Technical service representative Wenbo Chen informed Caltrans QA Lumley that this container crane was the one with the Lead Paint upon it which required removal. Mr. Chen also informed QA Lumley that the applied coating was Yellow Lead Chromate with 13% Lead concentration in the dry film. QA Lumley inquired as to whether they would install or utilize any containment system to protect and prevent any waste from impacting personnel adjacent to and below the crane in the trial assembly area. Mr. Chen stated they were using 20,000 PSI High Pressure Water Jetting to remove the coating. QA Lumley left the area and informed supervisory personnel.

Office

Attend to backlog of reports and project files.

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# SOURCE INSPECTION REPORT

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

**Summary of Conversations:**

International Protective Coatings Technical service representative Wenbo Chen informed Caltrans QA Lumley that this container crane was the one with the Lead Paint upon it which required removal. Mr. Chen also informed QA Lumley that the applied coating was Yellow Lead Chromate with 13% Lead concentration in the dry film. QA Lumley inquired as to whether they would install or utilize any containment system to protect and prevent any waste from impacting personnel adjacent to and below the crane in the trial assembly area. Mr. Chen stated they were using 20,000 PSI High Pressure Water Jetting to remove the coating. QA Lumley left the area and informed supervisory personnel.

**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 Eric Tsang (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James	Quality Assurance Inspector
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<b>Reviewed By:</b>	Peterson,Art	QA Reviewer
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