

**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:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001292**Date Inspected:** 08-Sep-2009**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:** 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:** Coatings Inspection**Bridge No:** 34-0006**Component:** Office, North Tower Lift #1, Cross Beam #2,**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:

Office

Sort and organize project documentation and reports.

North Tower Lift #1

Internal surfaces received a "Pre-Blast" for final VT of substrate defects and fabrication defects. Caltrans QA Lumley arrived with CWI for VT and ABF QA Don Walton informed us that ABF had cancelled the inspection due to insufficient lighting on the internal surfaces from Double Diaphragm 43M-47.6M. ABF stated they would re-submit Notice of Inspection when issue was amended.

Cross Beam #2

ZPMC requested and external "Final Inspection" of surfaces top-coated with Interfine 979. In attendance were SMR Skyler Guest and Caltrans Engineer Bill Howe as well as Caltrans QA Lumley. Dry film thickness readings were within specification requirements on all areas coated with Interfine 979. Vertical surfaces exhibited a "mottled" flashed appearance of the finish coat and were non-uniform in sheen the subject appearance was not accepted by Caltrans Engineer Bill Howe. Also included in the inspection were 9 Travelr Brackets which were also determined to be non-compliant as the coated surfaces had agglomerations and contaminants in the Interfine 979 Top-coat.

North Tower Lift #1

Caltrans QA Lumley observed ZPMC personnel dismantling external access scaffolding from around the Tower

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## SOURCE INSPECTION REPORT

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surfaces coated with undercoat. No verification inspection has been performed on these coated surfaces as yet and no testing has been done as well.

### Lift 3 East

ZPMC requested a "Final" inspection of the internal "U" Rib Stiffener areas, Ceiling areas, and upper surfaces of Floor Beams and Chevron Beams, repairs were observed to be substantially completed at the time of inspection with minor touch up still in process. Access scaffolding was scheduled for removal following acceptance Inspection, damages are anticipated on the upper areas after removal of scaffolding. Also abrasive blasting to base metal and an SSPC SP-10 condition on FL-3 longitudinal stiffeners and top Plate stiffeners was also observed concurrent with internal Inspection, ZPMC then applied Interzinc 22 to blasted areas. Caltrans QA Lumley pointed out to ABF Bill Oak that damages incurred from scaffold removal would require repairs and also informed ABF that excessive use of Interzinc 52 on internal top floor beam longitudinal stiffeners was non-compliant in dimensional area coated. Scaffold removed from Panel Points 20-23 internally.

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:

Caltrans QA Lumley inquired with ABF QA Don Walton as to why North Tower Lift #1 removed from blast shop Don Walton stated the tower will be trial fitted prior to further coatings work. Also inquired as to repairs to damaged areas of Lift 3 East from scaffold removal and remediation with ABF Bill Oak, Bill stated repairs would be attended to as needed and identified after scaffold removal.

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

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