

**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-002441**Date Inspected:** 04-Apr-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:** OBG 9AE, Sub-Assemblies, OBG 9BW, Offi**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 9AE**

Internal undercoated surfaces of the Upper "U" Rib Stiffeners and FL-2-1 and Upper Chevron Assemblies were in general compliance with the contract documents and ZPMC proceeded to remove redundant access scaffolding from areas which will not require further assemblies or welding.

**Sub-Assemblies**

Base metal surfaces of approximately 408 pieces of Spare Tower Splice Plates, Stiffeners and Angel iron were visually checked and found to be in general compliance with the contract documents. Unable to determine which surfaces were Faying surfaces as no bolt holes were drilled in any components.

**Office**

Draft and email Bi-weekly Summary for coatings related works.

**Sub-Assemblies**

Base Metal surfaces of approximately 136 Angle Iron for Tower (Spare parts) were re-abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied. Spare Tower component codes: ED1-A5001 32 pieces, ND1-A5002 36 pieces, ND1-A5012 36 pieces, ED1-A5007 32 pieces.

**OBG 9BW**

Internal base metal surfaces were initially abrasive blasted for VT inspection on the Upper "U" Rib Stiffeners, FL-2-1 beams and Upper Chevron Assemblies. Caltrans QA Larry Viars performed VT inspection and mapped

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## SOURCE INSPECTION REPORT

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accordingly. Subsequent grinding of burrs, sharp edges and fins and also Chloride values were observed at 20µs/cm. Re-abrasive blasting of base metal surfaces to an SSPC SP-10 condition and Interzinc 22 undercoat was applied. Profile amplitude was 70-83µm.

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:**

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 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>	Peterson,Art	QA Reviewer

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