

**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 #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-001466**Date Inspected:** 13-Feb-2008**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 700**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Chen Xi**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Caltrans mock up**Summary of Items Observed:**

Caltrans Quality Assurance (QA) Inspector, Dan Hernandez was present to observe the fit up, welding and related activities associated with the fabrication of the San Francisco Oakland Bay Self Anchored Suspension Bridge at Zhenhua Port Machinery Company (ZPMC) facility on Changxing Island.

**89m Tower Mock Up**

ZPMC Quality Control (QC) Certified Welding Inspector (CWI) Mr. Chen Xi was observed monitoring welding activities at the workstation. Caltrans QA Inspector observed Shielded Metal Arc Welding (SMAW) in progress of fill and cover passes on 89m Tower Mock Up P213 to MA28 and MA27; weld joint MUB-M21 J/J 12, 26 which is a Partial Joint Penetration (PJP) joint is welded in the 3G position. The approved welder Liu Xie # 066236 is using approved welding procedure specification WPS-B-T-4313-TC-P5-1. Caltrans QA Inspector verified welding parameters at approximately 176 amps, 23 volts and 108 millimeters per minute (mm/min) travel speed. Preheat and interpass temperatures were verified during welding activities and were within approved WPS minimum and maximum range. SMAW welding consumable is verified and identified as classification E7018-1 4mm in diameter.

**Summary of Conversations:**

As identified within the contents of this report.

**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, (818) 292-0659, who represents the Office of Structural Materials

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## WELDING INSPECTION REPORT

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for your project.

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<b>Inspected By:</b>	Hernandez,Dan	Quality Assurance Inspector
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<b>Reviewed By:</b>	Cuellar,Robert	QA Reviewer
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