

**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-000039**Date Inspected:** 14-Apr-2007**Project Name:** SAS Superstructure**OSM Arrival Time:** 800**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1630**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**Quality Control Contact:** Lu Jian Hua**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:** NA**Bridge No:** 34-0006**Component:** NA**Bid Item:** 52, 55**Lot No:** NA**Summary of Items Observed:**

Caltrans Quality Assurance (QA) Inspector, Mike Hasler was present to observe quality control functions related to welding, testing and fabrication procedures at the ZPMC facility on Changxing Island for the San Francisco Oakland Bay Self Anchored Suspension Bridge.

At 1000 hours ZPMC Quality Assurance (QA) Inspector, Mr. Lu Jian Hua met with Caltrans QA Inspector, and reported that ZPMC would be performing welder qualification side bend testing at 1330 hours. Caltrans QA Inspector was present at the ZPMC testing center to observe testing at 1330 hours, also present to witness the testing was ZPMC QA Inspector, Mr. Lu Jian Hua and Moody International Certified Welding Inspector (CWI), Mr. Jiang Wei feng. Caltrans QA observed that the guided bend test jig appeared to be in accordance with AWS D1.5-2002, Figure 5.16 requirements. The jig plunger diameter measured 38.1mm. As required for bending A709 Gr.50 material. Caltrans observed that the specimens were placed in the jig and forced through a die, using the 38mm diameter plunger, until the specimens were bent into a U-shape. A total of twenty-three tests were performed, with two specimens per test. The bend specimens are identified as follows:

FCAW: #070403101, 070403102, 070403104, 070403108, 070403109, 070403110, 070403111, 070403112, 070403120, 070403121.

SMAW: #070403052, 070403061, 070403062, 070403064, 070403065, 070403067, 070403069, 070403075, 070403077.

SAW: #070403001, 070403002, 070403003 and 070403006.

The side bends were visually inspected by ZPMC QA Inspector, Mr. Lu and Moody International Inspector, Mr. Jiang. The side bend specimen identified as #070403061 was rejected due to the weld and heat effect zone being outside the bent portion after bending. All the other side bend specimens were accepted by Mr. Lu and Mr. Jiang. Caltrans QA observed that the test and evaluation appear to comply with contract document requirements.

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# SOURCE INSPECTION REPORT

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## Summary of Conversations:

As identified within the contents of this report. See Task Leader journal for additional information this week.

## 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 for your project.

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**Inspected By:** Hasler, Mike

Quality Assurance Inspector

**Reviewed By:** McClary, David

QA Reviewer

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