

**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 #: 69.21**WELDING WITNESS REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WWR-000038**Date Inspected:** 01-Dec-2006**Project Name:** SAS Superstructure**OSM Arrival Time:** 800**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1700**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**Witness:** **Procedure Qualification Record**  
**Welding** **NDT****Welder Qualification**  
**Mechanical Testing, describe:** AWMT, Tensile, Side Bend,  
Macro, Charpy-V**Index Lot #:** B60-022-06A**Witness Lot #:** B60-026-06**Bridge No:** 34-0006**Component:** N/A**Welder:** Zhang Xin Jian**ID #:** N/A**Joint Description:** B-U2a-GF

N/A

**WPS ID #:** PWPS-B-T-2233-F

N/A

**Base Metal:** A709-50 F2

N/A

**PQR ID #:** HP2006118

N/A

**Thickness:** 26

N/A

**Process:** FCAW

N/A

**Electrode Spec/Class:** A5.20 / E71-T1

N/A

**Positions:** 3G

N/A

**Backing Material:** A709-50 T2

N/A

**CWI:** Liu Liu/Cheng Li Bin

N/A

**Average Amps:** 202.9

N/A

**AWS Code:** D1.5 '02

N/A

**Average Volts:** 25.7

N/A

**Applicable Sec:** 5.13

N/A

**Travel Speed:** 112.9 mm/min

N/A

**Heat Input:** 2.77 KJ/mm

N/A

**Preheat:** 65 C

N/A

**Summary of Items Observed:**

The Caltrans Quality Assurance (QA) Inspector observed mechanical testing including: All Weld Metal Tension (AWMT), Reduced Section Tensile, Side Bend, Macro-etch, and Charpy-V Notch tests. Note: Charpy-V Notch tests were conducted at -30 C for Seismic Performance Critical Members (SPCM). The testing appeared to comply with the contract documents.

**Summary of Conversations:**

See TL-6031 for additional details.

**Observed welding, testing or results:**

is in general conformance with the contract requirements.

is not in conformance with the contract requirements.

**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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# WELDING WITNESS REPORT

*( Continued Page 2 of 2 )*

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**Inspected By:**      McClary, David

Quality Assurance Inspector

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**Reviewed By:**      Lowry, Patrick

QA Reviewer