

**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-007175**Date Inspected:** 28-May-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:** Shanghai, China**CWI Name:** Shi Lei**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:** OBG Segments**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector, Dan Hernandez was present during the times noted above 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.

OBG Assembly

Bay 13

Segment 8AE

This QA Inspector observed Flux Cored Arc Welding (FCAW) in progress of a fillet weld joint. The Weld joint is designated as CSD5-PP61-001, 002. The welder is identified as #055491 and was observed welding in the 3F (vertical) position using approved Welding Procedure Specification WPS-B-T-4133.

This QA Inspector observed Flux Cored Arc Welding (FCAW) in progress of a fillet weld joint. The Weld joint is designated as CSD5-PP61-017, 018. The welder is identified as #044795 and was observed welding in the 2F (horizontal) position using approved Welding Procedure Specification WPS-B-T-2132.

This QA Inspector observed Flux Cored Arc Welding (FCAW) in progress of a fillet weld joint. The Weld joint is designated as CSD2-PP61.5-055, 056. The welder is identified as #055491 and was observed welding in the 3F

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(vertical) position using approved Welding Procedure Specification WPS-B-T-4133.

This QA Inspector observed Flux Cored Arc Welding (FCAW) in progress of a fillet weld joint. The Weld joint is designated as CSD4-PP62-071, 072. The welder is identified as #055491 and was observed welding in the 3F (vertical) position using approved Welding Procedure Specification WPS-B-T-4133.

This QA Inspector observed Flux Cored Arc Welding (FCAW) in progress of a fillet weld joint. The Weld joint is designated as CSD2-PP62.5-053, 054. The welder is identified as #055491 and was observed welding in the 3F (vertical) position using approved Welding Procedure Specification WPS-B-T-4133.

This QA Inspector observed Flux Cored Arc Welding (FCAW) in progress of a fillet weld joint. The Weld joint is designated as CSD2-PP62.5-045, 046. The welder is identified as #051356 and was observed welding in the 2F (horizontal) position using approved Welding Procedure Specification WPS-B-T-2132.

This QA Inspector observed Flux Cored Arc Welding (FCAW) in progress of a fillet weld joint. The Weld joint is designated as CSD5-PP63-071, 072. The welder is identified as #044795 and was observed welding in the 3F (vertical) position using approved Welding Procedure Specification WPS-B-T-4133.

Bay 14

Segment 6CW

This QA Inspector performed Ultrasonic Testing (UT) of approximately 10% of areas previously tested and accepted by ZPMC QC personnel on subassembly components installed on segment. The sub assembly components are identified as:

UT  
FB003-024, FB005-012, FB035-001, FB011-005, FB003-050, FB005-013, FB031-001, FB011-001, FB003-041, FB005-011, FB027-001, FB011-002, FB003-057, FB004-011, FB009-006

ZPMC Quality Control (QC) Inspector is identified as Zhong Guo Hui. QA Inspector observed QC Inspectors verify welding parameters. The welding variables recorded by QC appeared to comply with the Applicable WPS.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

### **Summary of Conversations:**

No relevant conversations.

### **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, 150-0042-2372 , who represents the Office of Structural Materials for your project.

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