

**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-016211**Date Inspected:** 16-Aug-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:** Shanghai, China**CWI Name:** Li Yang**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**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance(QA) Inspector Mr. Shrikant Utekar was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. The QA Inspector observed and/or found the following:

TRIAL ASSEMBLY YARD

ULTRASONIC TESTING

OBG SEGMENT 9BW-9CW

ZPMC NWIT: 06407

This QA Inspector performed Ultrasonic Testing (UT) of approximately 10% of the length previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an (UT) report on this date. The members are identified as "I" ribs. The weld designations are as follows:

DP672-001-021; EP112-001-013; EP126-002-027; DP685-001-021

MAGNETIC PARTICLE TESTING

OBG SEGMENT 9BE

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ZPMC NWIT: 06412

This QA Inspector performed Magnetic Particle Testing (MT) of approximately 15% of the length previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an (MT) report on this date. The members are identified as X8E. The weld designations are as follows:

SEG52E-111, 112, 102, 103, 120, 121, 093, 094, 043, 044, 020, 021

TRIAL ASSEMBLY YARD

This QA Inspector randomly observed the following work in progress.

OBG LIFT 9 WEST

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 067572 performing the Shielded Metal Arc Welding process on weld 012 located at PCMK OBW9K. ZPMC QC Mr. Zhou Peng was monitoring this welding operation. The welding variables recorded by QC appeared to comply with WPS-B-P-2214-Tc-u4b-f.

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 037723 performing the Shielded Metal Arc Welding process on weld 009 located at PCMK OBW9K. ZPMC QC Mr. Zhou Peng was monitoring this welding operation. The welding variables recorded by QC appeared to comply with WPS-B-P-2214-Tc-u4b-f.

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 045196 performing the Shielded Metal Arc Welding process on weld 045 located at PCMK SEG051A. ZPMC QC Mr. Shi Le was monitoring this welding operation. The welding variables recorded by QC appeared to comply with WPS-345-SMAW-1G (1F)-Repair-1. Critical weld report identified as B-CWR1775.

OBG SEGMENT 10AW-10BW

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 067877 performing the Flux Cored Arc Welding process on weld 003 located at PCMK OBW10. ZPMC QC Mr. Zhou Peng was monitoring this welding operation. The welding variables recorded by QC appeared to comply with WPS-B-T-223 (2) 1T-1.

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

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## Summary of Conversations:

No significant conversations were reported 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, +(86) 1500 042 2372, who represents the Office of Structural Materials for your project.

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**Inspected By:** Utekar,Shrikant

Quality Assurance Inspector

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**Reviewed By:** Peterson,Art

QA Reviewer