

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
690 Walnut Ave. St. 150  
Vallejo, CA 94592-1133  
(707) 649-5453  
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-016904**Date Inspected:** 19-Sep-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:** Liu Hua Jie**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:** Orthotropic Box Girder (OBG)**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector Manoj Prabhune 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. QA observed and/or found the following:

This QA Inspector randomly observed the following work in progress:

**OBG # TRIAL ASSEMBLY YARD**

Segment # 10AW ~ 10BW

Repair Welding.

This QA inspector observed, ZPMC qualified welding personnel identified as 046709 perform Shielded Metal Arc Welding (SMAW), weld joint identified as SEG063C-11; The Welding Repair Report (WRR) was B-WR15113. ZPMC QC is identified as Mr. Zhou Peng. The welding parameters measured using QC's calibrated instrument appeared to be in general compliance with WPS-345-SMAW-3G (3F) FCM-Repair.

Segment # 10AW ~ 10BW

Repair Welding.

This QA inspector observed, ZPMC qualified welding personnel identified as 046709 perform Shielded Metal Arc Welding (SMAW), weld joint identified as SEG063C-031; The Welding Repair Report (WRR) was B-WR15114. ZPMC QC is identified as Mr. Zhou Peng. The welding parameters measured using QC's calibrated instrument appeared to be in general compliance with WPS-345-SMAW-1G (1F) FCM-Repair.

---

---

# WELDING INSPECTION REPORT

( Continued Page 2 of 3 )

---

---

## Segment # 10BE ~ 10CE

This QA inspector observed, ZPMC qualified welding personnel identified as 044504 perform Shielded Metal Arc Welding (SMAW), weld joint identified as OBE10C-004; ZPMC CWI is identified as Mr. An Qing Xing .The welding parameters measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-P-2214-B-U2-FCM-1.

## Segment # 10BE ~ 10CE

This QA inspector observed, ZPMC qualified welding personnel identified as 046960 perform Shielded Metal Arc Welding (SMAW), weld joint identified as OBE10C-005; ZPMC CWI is identified as Mr. An Qing Xing. The welding parameters measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-P-2214-B-U2-FCM-1.

## Segment # 10CW

This QA inspector observed, ZPMC qualified welding personnel identified as 044551 perform Shielded Metal Arc Welding (SMAW), weld joint identified as SEG063A-30; ZPMC QC is identified as Mr. Zhou Peng. The welding parameters measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-P-2214-TC-U4b-FCM-1. See the attached Photo.

## Segment # 10BW ~ 10CW

During random visual inspection this Caltrans Quality Assurance (QA) inspector observed that American Bridge Fluor (ABF) Quality Assurance (QA) personnel had performed Ultrasonic Testing (UT) on Side to Side Plate Transverse CJP Weld in OBG segment 10BW ~ 10CW at panel point 91 to 92. See the attached Photo.

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



## Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

---

---

## WELDING INSPECTION REPORT

( *Continued Page 3 of 3* )

---

---

### 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 phone: 15000422372, who represents the Office of Structural Materials for your project.

---

<b>Inspected By:</b>	Prabhune,Manoj	Quality Assurance Inspector
----------------------	----------------	-----------------------------

---

<b>Reviewed By:</b>	Patterson,Rodney	QA Reviewer
---------------------	------------------	-------------