

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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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-015331**Date Inspected:** 01-Jul-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:** Mr. Gao Zhi Chun**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:** Tower**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector Shailesh Gaikwad 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 observed the following work in progress:

BAY 11: SMAW Process.

This QA Inspector observed ZPMC qualified welding personnel identified as 040655, 040611 Perform Shielded Metal Arc Welding (SMAW) on Tower strut. Joint identified as SD1-STSA4-5-119M-1-19, 20, 29, 30, 17, 18, 25, 26, ZPMC CWI Identified as Yu Dong Ping, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2112.

This QA Inspector observed ZPMC qualified welding personnel identified as 251194, 044551 Perform Shielded Metal Arc Welding (SMAW) on Tower strut. Joint identified as WD1-STSA4-5-123M-1-17, 18, 25, 26, 29, 30, 19, 20, ZPMC CWI Identified as Yu Dong Ping, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2112.

This QA Inspector observed ZPMC qualified welding personnel identified as 046769 Perform Shielded Metal Arc Welding (SMAW) on Tower strut. Joint identified as SD1-STSA4-5-131M-1-19, 20, 29, 30, ZPMC QC Identified

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as Liu Dao Feng, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2112.

This QA Inspector observed ZPMC qualified welding personnel identified as 041271, 040667 Perform Shielded Metal Arc Welding (SMAW) on Tower strut. Joint identified as WD1-STSA4-5-119M-1-31, 27, 32, 28, ZPMC QC Identified as Liu Dao Feng, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2113 and WPS-B-T-4113-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 040690, 040656 Perform Shielded Metal Arc Welding (SMAW) on Tower strut. Joint identified as SD1-STSA4-5-123M-1-27, 31, 28, 32, ZPMC QC Identified as Liu Dao Feng, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2113 and WPS-B-T-4113-1.

SMAW Process, Repair Welding.

This QA Inspector observed ZPMC qualified welding personnel identified as 044541, Perform Shielded Metal Arc Welding (SMAW) on Tower strut. Joint identified as ND1-STSA4-6-139M-2-9B, ZPMC QC Identified as Mao Bin Bin, with temporary welding repair report. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-345-SMAW-2G (2F)-Repair-1. For more information see below attached picture number 1.

This QA Inspector observed ZPMC qualified welding personnel identified as 046709, Perform Shielded Metal Arc Welding (SMAW) on Interior splice plate. Joint identified as ESD1-SPSA5-7-2A. ZPMC CWI Identified as Zhu Kai, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-3211-Tc-U5b-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 046704, Perform Shielded Metal Arc Welding (SMAW) on Interior splice plate. Joint identified as WSD1-SPSA5-12-2A. ZPMC CWI Identified as Zhu Kai, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-3211-Tc-U5b-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 046704, Perform Shielded Metal Arc Welding (SMAW) on Interior splice plate. Joint identified as WSD1-SPSA5-12-1A. ZPMC CWI Identified as Zhu Kai, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-3211-Tc-U5b-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 040614, Perform Shielded Metal Arc Welding (SMAW) on Interior splice plate. Joint identified as ESD1-SPSA5-12-1A. ZPMC CWI Identified as Zhu Kai, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-3211-Tc-U5b-1.

BAY 10: SMAW Process:

This QA Inspector observed ZPMC qualified welding personnel identified as 052493, Perform Shielded Metal Arc Welding (SMAW) on Interior splice plate. Joint identified as SSD1-SPSA5-13-1A, ZPMC QC Identified as Yuan Hai Gang, The welding parameters as measured using QC's calibrated instrument appeared to be in general

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compliance with WPS-B-T-3211-Tc-U5b-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 050289, Perform Shielded Metal Arc Welding (SMAW) on Interior splice plate. Joint identified as NSD1-SPSA5-13-1B, ZPMC QC Identified as Yuan Hai Gang, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-3211-Tc-U5b-1.

SMAW Process, Repair Welding.

This QA Inspector observed ZPMC qualified welding personnel identified as 052930 Perform Shielded Metal Arc Welding (SMAW) on North Tower lift 5 Grillage plate. Joint identified as NSD1-TL5-3B/F-41B. ZPMC QC Identified as Li Peng Fei, with temporary welding repair report. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-485-SMAW-3G (3F)-Repair. For more information see below attached picture number 2.

Heat Straightening:

This QA Inspector observed that ZPMC personnel Perform Heat Straightening on Façade channel plate, Item identified as SD1-SFSA3-20-24, SD1-SFSA3-24. ZPMC QC Identified as Yuan Hai Gang, with Heat Straightening report HSR1 (T)-11351.

BAY 11 OBG Side plate:

This QA Inspector observed ZPMC qualified welding personnel identified as 040699, Perform Submerged Arc Welding (SAW) on Side plate of OBG lift 13 east line A segment. Joint identified as SP3068-001-097, ZPMC QC Identified as Ma Qienli Ma, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2221-B-L2c-S-2.

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the applicable contract documents.



Summary of Conversations:

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

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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 Michael Ng Phone: 15921845703, who represents the Office of Structural Materials for your project.

Inspected By:	Gaikwad,Shailesh	Quality Assurance Inspector
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Reviewed By:	Clifford,William	QA Reviewer
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