

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-013239**Date Inspected:** 14-Mar-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:** Gang Liang Zhu**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:

BAY 10:

This QA Inspector performed Randomly Visual Inspection and Magnetic Particle Testing (MT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated a TL- 6028 (MT) report for this date. The member is identified as Tower Lift 4 Strut. The weld designations reviewed are as follows.

ED1-STSA4-6-135M-1-7A/B, 8A/B. ED1-STSA4-6-135M-2-7A/B, 8A/B. ND1-STSA4-6-135M-1-7A/B, 8A/B.
NDT Notification No-005338

This QA Inspector observed the following work in progress:

BAY 10**Repair Welding**

This QA Inspector observed ZPMC qualified welding personnel identified as 500363. Perform Shielded Metal Arc Welding (SMAW) on North Tower Lift 4 C/D corner joint. Joint identified as NSTL4-3B/L-1B.

Near 116M single diaphragm, ZPMC QC Identified as Li Peng Fei, with Critical welding repair report CWR-T-CWR604. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-345-SMAW-1G (1F)-Repair.

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Repair Welding

This QA Inspector observed ZPMC qualified welding personnel identified as 052930, 050289. Perform Shielded Metal Arc Welding (SMAW) on Grillage Beam Plate. Joint identified as NSD1-TL5-3B-F-19A/B. ZPMC QC Identified as Yu Zhi Lai, 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-1G (1F)-Repair. For more information see below attached photo.

Repair Welding

This QA Inspector observed ZPMC qualified welding personnel identified as 040268. Perform Shielded Metal Arc Welding (SMAW) on I Ribs of skirt plate. Joint identified as SSD1-A683A/B. ZPMC QC Identified as Zhu Zhong Jie, with Temporary welding repair report, WRR-T-WR3082. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-345-SMAW-3G (3F)-Repair. For more information see below attached photo.

This QA Inspector observed ZPMC qualified welding personnel identified as 0503060. Perform Submerged Arc Welding (SAW) on South Tower lift 5 A/E corner joint. Joint identified SSD1-TL5-1B-F-3A, ZPMC QC Identified Sun Tian Liang. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-3221-Tc-U5-S-1.

BAY 11:

This QA Inspector observed ZPMC qualified welding personnel identified as 040699. Perform Submerged Arc Welding (SAW) on Tower web, flange plate. Joint identified ED1-STSA4-6-131M-2-1B, ED1-STSA4-6-127M-2-1B, ND1-STSA4-6-127M-1- 1B. ZPMC CWI Identified Yu Dong Ping. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-4221-B-U3c-S-1.

Repair Welding

This QA Inspector observed ZPMC qualified welding personnel identified as 040733. Perform Shielded Metal Arc Welding (SMAW) on West Tower Lift 4 D/E corner joint. Joint identified as WSTL4-2B/L-61B. ZPMC CWI Identified as An Qing Xiang, with Temporary welding repair report WRR-T-WR3072. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-345-SMAW-4G (4F)-Repair. For more information see below attached photo.

This QA Inspector observed ZPMC qualified welding personnel identified as 046704, 040690, 040614, Perform Shielded Metal Arc Welding (SMAW) on West Tower lift 5 D/E corner joint. Joint identified, as WSD1-TL5-4B/F-6A, 37A. ZPMC QC Identified as Lijun, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-3211-TC -U4b-1.

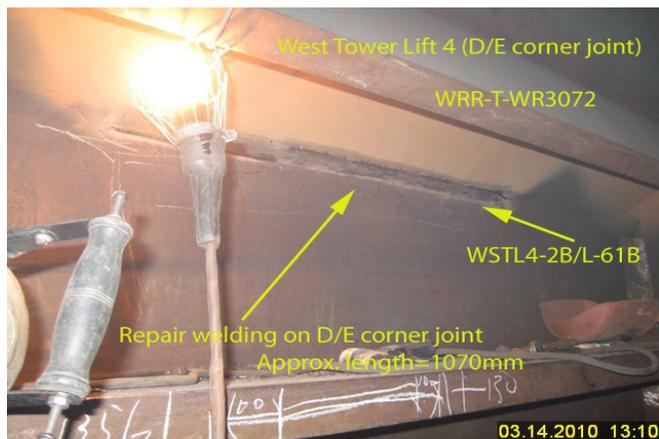
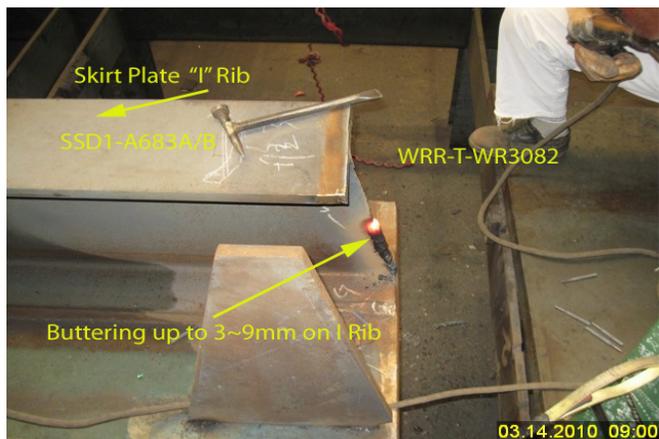
This QA Inspector observed ZPMC qualified welding personnel identified as 040655, 041271, 040667, Perform Shielded Metal Arc Welding (SMAW) on West Tower lift 5 C/D corner joint. Joint identified, as

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WSD1-TL5-4B/F-2A, 38B. ZPMC QC Identified as Lijun, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-3212-TC -U4b-1.

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.

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 Skyler Guest phone: 15000422360, who represents the Office of Structural Materials for your project.

Inspected By: Gaikwad,Shailesh

Quality Assurance Inspector

Reviewed By: Clifford,William

QA Reviewer
