

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-002266**Date Inspected:** 11-May-2008**Project Name:** SAS Superstructure**OSM Arrival Time:** 2300**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 800**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** See Below**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:**

The Caltrans Quality Assurance (QA) Inspector Charlie Franco was present at the time requested to randomly observe welding and associated operations being performed for the Tower and Orthotropic Box Girders (OBG).

New Tower Shop Bay 1:

The QA Inspector randomly observed ZPMC welder Yun Chuanjin ID Number 0503060, utilizing the Submerged Arc Welding (SAW) Process in the 1G Position (Flat Groove) with ZPMC Weld Procedure Specification (WPS) WPS-B-P-2221-B-U3c-S, to weld the fill pass in Weld Joint (WJ) SSD1-SA18A/E-2A on Tower Skin Plate B Sub-Assembly SA18(S) piece marks p825(S) + p824(S) + SA18(S). The QA Inspector randomly observed ZPMC CWI An Qing Xiang monitoring weld parameters. The QA Inspector also randomly monitored weld parameters and recorded them as follows: 703 amps, 33.2 volts with a travel speed of 622 millimeters (mm) per minute. The weld parameters appeared to comply with contract requirements. The attached photograph provides additional detail.

The QA Inspector randomly observed ZPMC welder Chen Hongxia ID Number 040460, utilizing the SAW Process in the 1G Position (Flat Groove) with ZPMC WPS WPS-B-P-2221-B-U3c-S, to weld the fill pass in WJ SSD1-SA178C/D-4B on Tower Skin Plate B Sub-Assembly SA178(S). The QA Inspector randomly observed ZPMC CWI An Qing Xiang monitoring weld parameters. The QA Inspector also randomly monitored weld parameters and recorded them as follows: 684 amps, 33 volts with a travel speed of 596 mm per minute. The weld parameters appeared to comply with contract requirements. The attached photograph provides additional detail.

WELDING INSPECTION REPORT

(Continued Page 2 of 3)

The QA Inspector randomly observed ZPMC welder Chen Hongxia ID Number 040460, utilizing the SAW Process in the 1G Position (Flat Groove) with ZPMC WPS WPS-B-P-2221-B-U3c-S, to weld the fill pass in WJ SSD1-SA178C/D-1A on Tower Skin Plate B Sub-Assembly SA178(S). The QA Inspector randomly observed ZPMC CWI An Qing Xiang monitoring weld parameters. The QA Inspector also randomly monitored weld parameters and recorded them as follows: 711 amps, 33.6 volts with a travel speed of 600 mm per minute. The weld parameters appeared to comply with contract requirements. The attached photograph provides additional detail.

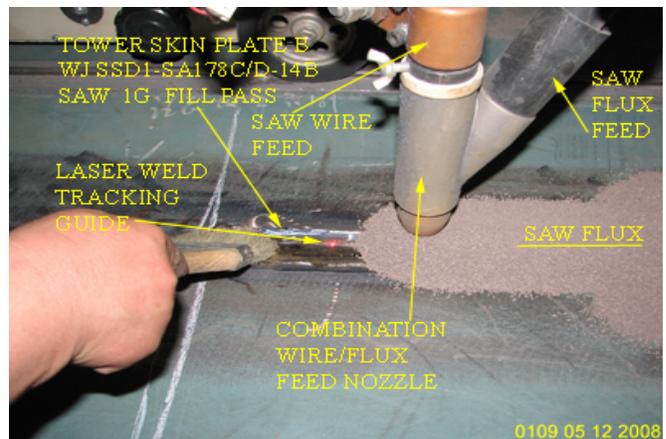
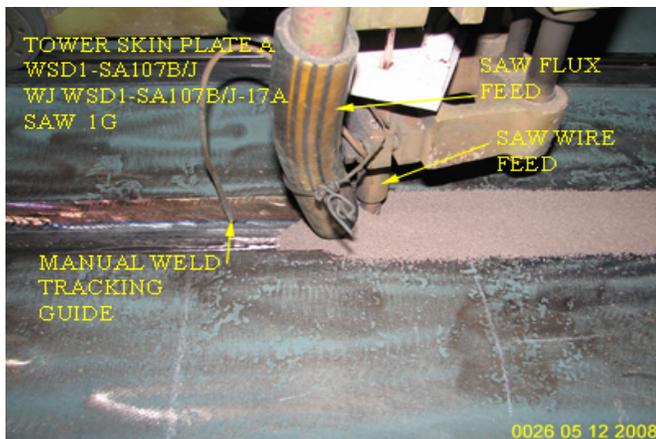
New Tower Shop Bay 2:

The QA Inspector randomly observed ZPMC welder Xia Yonglin ID Number 048882, utilizing the SAW Process in the 1G Position (Flat Groove) with ZPMC WPS WPS-B-T-2221-B-U3c-S, to weld the fill pass in WJ WSD1-SA107B/J-17A on Tower Skin Plate A Sub-Assembly SA107(A) piece marks p456(W) + p375(W) + p228(W). The QA Inspector randomly observed ZPMC CWI An Qing Xiang monitoring weld parameters. The QA Inspector also randomly monitored weld parameters and recorded them as follows: 632 amps, 32.5 volts with a travel speed of 594 mm per minute. The weld parameters appeared to comply with contract requirements. The attached photograph provides additional detail.

The QA Inspector randomly observed ZPMC welder Sun Bingfa ID Number 062046, utilizing the SAW Process in the 1G Position (Flat Groove) with ZPMC WPS WPS-B-T-2221-B-U3c-S, to weld the fill pass in WJ ESD1-SA107B/J-16A, on Tower Skin Plate A Sub-Assembly SA107(W). The QA Inspector randomly observed ZPMC CWI An Qing Xiang monitoring weld parameters. The QA Inspector also randomly monitored weld parameters and recorded them as follows: 641 amps, 32.6 volts with a travel speed of 596 mm per minute. The weld parameters appeared to comply with contract requirements. The attached photograph provides additional detail.

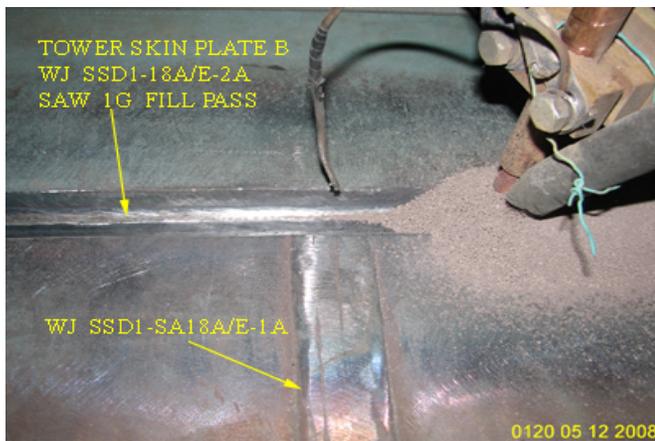
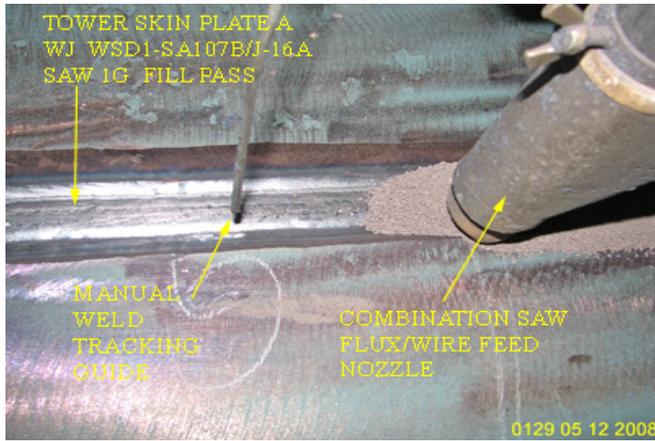
New Tower Shop Bay 3:

The QA Inspector observed no welding or other contract work being performed at this location.



WELDING INSPECTION REPORT

(Continued Page 3 of 3)



Summary of Conversations:

There were 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 Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural Materials for your project.

Inspected By: Franco,Charlie

Quality Assurance Inspector

Reviewed By: Cochran,Jim

QA Reviewer