

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-014419**Date Inspected:** 24-May-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:** You Qi Guo.**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 A22 Shear Plate. The weld designations reviewed are as follows.

WD1-A22A/B-16, 17, 19, 22, 23, 24

NDT Notification No-005811

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 Skirt Plate. The weld designations reviewed are as follows.

SD1-A440D/E-10, 11

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NDT Notification No-005815

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 Shear Plate A24. The weld designations reviewed are as follows.

ND1-A24A/B-27, 28, 31, 32, 48, 49, 52, 53

NDT Notification No-005816

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 Shear plate A20. The weld designations reviewed are as follows.

SD1-A20B/B-39, 42, 41

NDT Notification No-005817

This QA Inspector observed the following work in progress:

BAY 11:

SMAW Process:

This QA Inspector observed ZPMC qualified welding personnel identified as 040690, 040619. Perform Shielded Metal Arc Welding (SMAW) on Tower Strut. Joint identified as SD1-STSA4-5-139M-1-8B. 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-2212-Tc-U5b. For more information see below attach photo.

This QA Inspector observed ZPMC qualified welding personnel identified as 040690, 040619. Perform Shielded Metal Arc Welding (SMAW) on Tower Strut. Joint identified as SD1-STSA4-5-139M-1-48B, 6A. 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-3212-Tc-U5b-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 040614, 040611. Perform Shielded Metal Arc Welding (SMAW) on Tower Strut. Joint identified as ND1-STSA4-6-139M-1-73B, 6A. 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-3212-Tc-U5b-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 206189. Perform Shielded Metal Arc Welding (SMAW) on Tower Strut. Joint identified as ED1-STSA4-6-139M-2-42, 29, 30. 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.

This QA Inspector observed ZPMC qualified welding personnel identified as 041271. Perform Shielded Metal Arc

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Welding (SMAW) on Tower Strut. Joint identified as ED1-STSA4-6-139M-2-43, 31, 32, 17, 18. 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.

SAW Process:

This QA Inspector observed ZPMC qualified welding personnel identified as 044550, 042195. Perform Submerged Arc Welding (SAW) on Saddle grillage plate. Joint identified as GTSA5-B/G-6A, 3A, ZPMC QC Identified as Shao Hao Long, The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2221-B-U3c-S-2.

BAY 10:

FCAW Process:

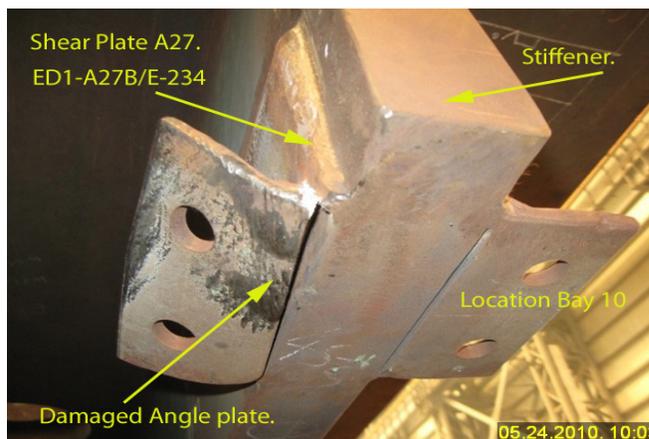
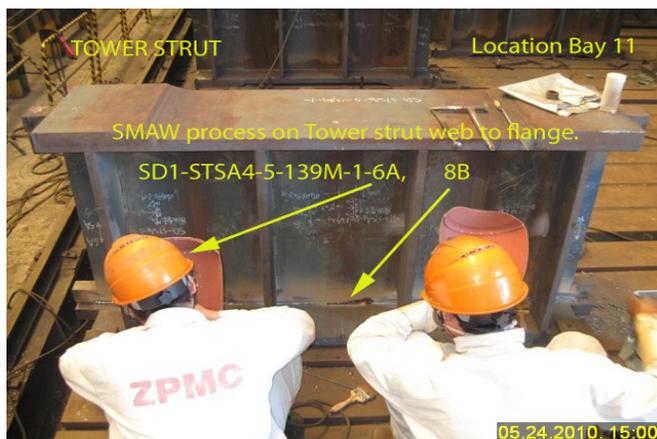
This QA Inspector observed ZPMC qualified welding personnel identified as 057266, Perform Flux Core Arc Welding (FCAW) on Shear plate bearing stiffener weld. Joint identified as ED1-A27B/E-80, 81. ZPMC QC Identified as Lu Wei Chao. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2331-Tc-P4-F.

This QA Inspector observed ZPMC qualified welding personnel identified as 057244, Perform Flux Core Arc Welding (FCAW) on Shear plate bearing stiffener weld. Joint identified as ED1-A27B/E-67, 69, 72, 73. ZPMC QC Identified as Lu Wei Chao. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2331-Tc-P4-F.

BAY 10:

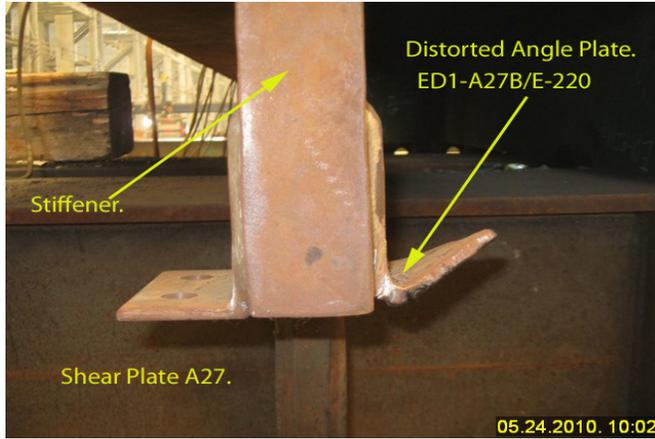
During random visual inspection in Bay 10, this Quality Assurance Inspector (QA) discovered the following issue: Two (2) angle plates in the top elevation of Shear Plate were damaged and distorted. The welds are identified as ED1-A27B/E-234, 220; fillet weld. Tower Lift 1 Shear Plate ED1-A27. The member is located in Bay#10. These angle plates were previously VT and MT tested. The Notice of Witness Inspection Number (NWIT) is 005737. Incident report to be generated, For more information see below attach photo.

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



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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
