

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-013754**Date Inspected:** 16-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:** Xu Le Feng**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 Components**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials Quality Assurance Inspector, Sandeep Kumar (QA) was present during the times noted above for observations relative to the work being performed.

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The following Non Destructive Testing (NDT) inspection carried out as per the ZPMC submitted Notification No. 005355

Visual Inspection Testing (VT)

This QA inspector performed VT of the area previously tested and accepted by ZPMC Quality Control personnel. The member is identified as Tower Component. The identified component and weld designations reviewed as follows:

NORTH TOWER LIFT 4, TRIANGULAR PLATE WITH SKIN B&C

1. NSTL4 – 3B/L – 51; 52 – 116.33M
2. NSTL4 – 3C/L – 62; 65; 126; 127 – 119M
3. NSTL4 – 3F/L – 62; 64; 124; 126 – 123M
4. NSTL4 – 3G/L – 57; 59; 121; 125 – 127M
5. NSTL4 – 3H/L – 57; 59; 118; 120 – 129M
6. NSTL4 – 3I/L – 60; 61; 121; 123 – 131M
7. NSTL4 – 3J/L – 57; 61; 119; 123 – 135M
8. NSTL4 – 3K/L – 58; 62; 119; 123 – 143M

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This QA Inspector observed the following work in progress:

Flux Core Arc Welding (FCAW):

Weld joint # 03 located on Façade Seal Angle SD1 – SFSA3 – 78 – 1. Welder is identified as 057180. ZPMC Quality Control (QC) Inspector is identified as Zhu Zhong Jie. The welding variables recorded by QC appeared to comply with the WPS – B – T – 2132 – 2. (See attached photo)

Shielded Metal Arc Welding (SMAW):

Repair welding of a weld joint # 39B according to the weld repair report #T-WR-3096 located on South Tower Lift-5 C/D corner. Welder is identified as 500373. ZPMC Quality Control (QC) Inspector is identified as Deng Zhi Bing. The welding variables recorded by QC appeared to comply with the WPS –485– SMAW – 2G (2F) – Repair – 1.

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This QA Inspector observed the following work in progress:

Shielded Metal Arc Welding (SMAW):

Weld joint # 3-1A located on Strut Connection plate SD1 – SA4– 56 – 127M. Welder is identified as 040656. ZPMC Quality Control (QC) Inspector is identified as Mao Bin Bin. The welding variables recorded by QC appeared to comply with the WPS – B – T – 3211 – Tc – U5b – 1.
(See attached photo)

Sub-Merged Arc Welding (SAW):

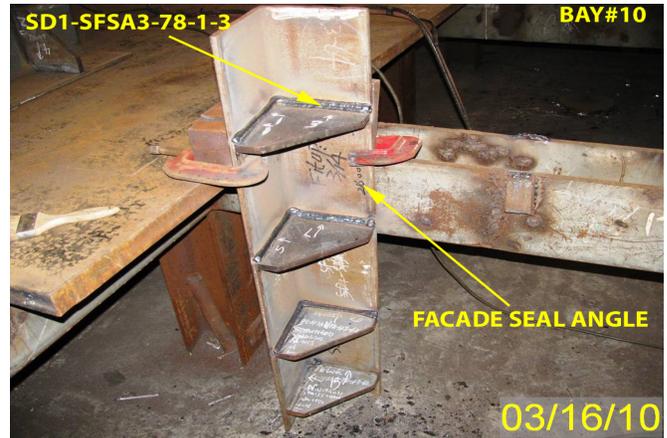
Weld joint # 4-1B located on Strut Connection Plate SD1 – SA4 – 56 – 119M. Welder is identified as 042915. ZPMC Quality Control (QC) Inspector is identified as Yu Dong Ping. The welding variables recorded by QC appeared to comply with the WPS – B – T – 3221 – Tc – U5 – S – 1.

Weld joint # 2-3B located on Strut Plate SD1 – SA4 – 56 – 119M. Welder is identified as 040699. ZPMC Quality Control (QC) Inspector is identified as Yu Dong Ping. The welding variables recorded by QC appeared to comply with the WPS – B – T – 4221 – Tc – U3c – S – 1.

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

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Summary of Conversations:

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

Inspected By: Kumar,Sandeep

Quality Assurance Inspector

Reviewed By: Clifford,William

QA Reviewer