

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:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-017435**Date Inspected:** 29-Sep-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 & OBG 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.

TOWER JETTY

This QA Inspector observed the following work in progress

Shielded Metal Arc Welding (SMAW):

Repair welding of a weld joint # 28 as per the weld repair report T-WR 3682 located on West tower Lift-3, 109 M backfill plate WSD1 – FASA3 – 2B/E. Welder is identified as 040610. ZPMC Quality Control (QC) Inspector is identified Fu Wei Min. The welding variables recorded by QC appeared to comply with the WPS – 345+485 – SMAW – 2G (2F) – FCM – REPAIR.

Weld joint # 11 located on South Tower 89 M elevation skin ‘A’ to Façade plate SSD1 – FASA3 – 1C/E. Welder is identified as 040365. ZPMC Quality Control (QC) Inspector is identified as Zhu Feng. The welding variables recorded by QC appeared to comply with the WPS – B – T – 4113 – 2.

Weld joint # 10 located on South Tower 89 M elevation skin ‘A’ to Façade plate SSD1 – FASA3 – 1C/E. Welder is identified as 057266. ZPMC Quality Control (QC) Inspector is identified as Zhu Feng. The welding variables recorded by QC appeared to comply with the WPS – B – T – 4113 – 2.

WELDING INSPECTION REPORT

(Continued Page 2 of 3)

MEASUREMENTS ON VERTICAL TRIAL ASSEMBLY WEST TOWER LIFT-3&4

This QA Inspector carried out the dimensional verification on West Tower lift-3 & 4 to check the misalignment and gap between the interior splice plates and longitudinal stiffeners of skin 'A', 'B', 'C', 'D' & 'E'.

Measurements were recorded on the data sheet and submitted to the assigned task leader.

BAY#10

This QA Inspector observed the following work in progress

Witness of Ultrasonic Testing (UT)

This QA inspector Witnessed UT performed by ABF personnel as per the tensile stress criteria (table 6.3). The member is identified as TOWER Component. The component identified as follows:

SOUTH AND NORTH TOWER LIFT-5 GRILLAGE WELDS

(See attached photo)

BAY#11

This QA Inspector observed the following work in progress

Shielded Metal Arc Welding (SMAW):

Weld joint # 11B located on Lift-5 Bracket ND1 – BRSA5 – 2. Welder is identified as 054460. 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 – 3213 – Tc – U4b.

Weld joint # 13A located on Lift-5 Bracket SD1 – BRSA5 – 1. Welder is identified as 046769. 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 – 3213 – Tc – U4b.

Weld joint # 11B located on Lift-5 Bracket ND1 – BRSA5 – 2. Welder is identified as 044541. 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 – 3213 – Tc – U4b.

Weld joint # 09A located on Lift-5 Bracket SD1 – BRSA5 – 1. Welder is identified as 041271. 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 – 3213 – Tc – U4b. (See attached photo)

ORTHOTROPIC BOX GIRDER (OBG) AT BAY#11

This QA Inspector observed the following work in progress

Fluxcored Arc Welding (FCAW):

Weld joint # 27 located on Bike Path BK004A4 – 023. Welder is identified as 040723. ZPMC Quality Control (QC) Inspector is identified as Shang Hai Long. The welding variables recorded by QC appeared to comply with the WPS – B – T – 2131.

WELDING INSPECTION REPORT

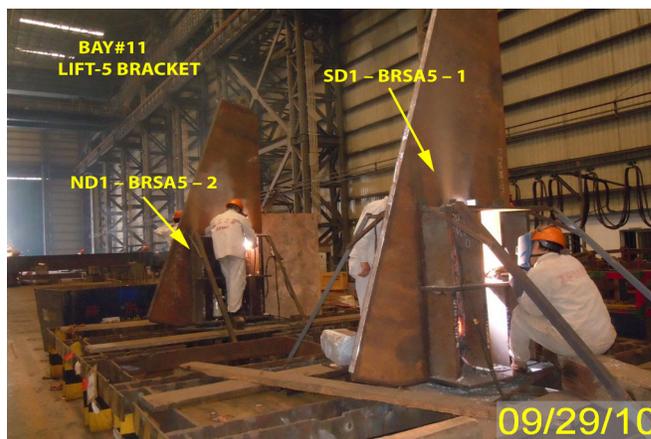
(Continued Page 3 of 3)

Weld joint # 40 located on Bike Path BK004A4 – 020. Welder is identified as 067138. ZPMC Quality Control (QC) Inspector is identified as Shang Hai Long. The welding variables recorded by QC appeared to comply with the WPS – B – T – 2132.

Weld joint # 47 located on Bike Path BK004C3 – 024. Welder is identified as 040690. ZPMC Quality Control (QC) Inspector is identified as Shang Hai Long. The welding variables recorded by QC appeared to comply with the WPS – B – T – 2131.

Weld joint # 15 located on Bike Path BK004A4 – 020. Welder is identified as 042218. ZPMC Quality Control (QC) Inspector is identified as Shang Hai Long. The welding variables recorded by QC appeared to comply with the WPS – B – T – 2132.

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



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

Inspected By: Kumar,Sandeep

Quality Assurance Inspector

Reviewed By: Clifford,William

QA Reviewer