

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 #: 99.28**WELDING INSPECTION REPORT****Resident Engineer:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-019628**Date Inspected:** 28-Jan-2011**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) Chanxing Island**Location:** Shanghai, China**CWI Name:** Mr. SHAU JIAN YUAN**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:** OBG Segment**Summary of Items Observed:**

On this date CALTRANS OSM Quality Assurance (QA) Inspector Santhosh Ramakrishna was present during the times noted above for observations relative to fabrication work of the Self Anchored Suspension (SAS) Superstructure being performed.

This QA inspector randomly observed the following work:

1. INPROCESS:

Bay-14

ZPMC welding personnel performing Shielded Metal Arc Welding (SMAW) of Complete Joint Penetration (CJP) welds joining the deck panel diaphragm to deck panel longitudinal diaphragm weld joint located on 13BW at Panel Point (PP-122.5). The weld is designated as DP3148-001-244. The welder is identified as 037840. ABF QA Mr. SHAU JIAN YUAN was onsite monitoring the welding variables. The inprocess SMAW appears to be progressing in compliance with WPS-B-P-2213-TC-U4b-FCM-1.

ZPMC welding personnel performing Shielded Metal Arc Welding (SMAW) of Repair weld for the floor beam plate to bottom plate weld joint located on 14W. The weld is designated as SEG3020D-052. The welder is identified as 066038. ZPMC QC Mr. QIU WEN was onsite monitoring the welding variables. The inprocess SMAW appears to be progressing in compliance with WPS-345-SMAW-2G (2F)-FCM-Repair-1. The weld repair report number is named as CWR-2734 R1.

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ZPMC welding personnel performing Shielded Metal Arc Welding (SMAW) of Repair weld for the deck plate to deck plate weld joint located on LIFT 13. The weld is designated as SA3231-026. The welder is identified as 067904. ABF QA Mr. SHAU JIAN YUAN was onsite monitoring the welding variables. The inprocess SMAW appears to be progressing in compliance with WPS-345-SMAW-1G (1F)-FCM-Repair-1. The weld repair report number is named as WR-20209.

ZPMC welding personnel performing Shielded Metal Arc Welding (SMAW) of Repair weld for the floor beam plate to bottom plate weld joint located on 14W. The weld is designated as SEG3020E-056. The welder is identified as 066398. ZPMC QC Mr. QIU WEN was onsite monitoring the welding variables. The inprocess SMAW appears to be progressing in compliance with WPS-345-SMAW-2G (2F)-FCM-Repair-1. The weld repair report number is named as CWR-2734 R1.

ZPMC welding personnel performing Shielded Metal Arc Welding (SMAW) of Complete Joint Penetration (CJP) welds joining the deck plate to deck panel diaphragm weld joint located on 14W. The weld is designated as DP3169-001-022. The welder is identified as 069493. ZPMC QC Mr. SHEN JIAN was onsite monitoring the welding variables. The inprocess SMAW appears to be progressing in compliance with WPS-B-P-2212-TC-U4b-FCM-1.

ZPMC welding personnel performing Shielded Metal Arc Welding (SMAW) of Complete Joint Penetration (CJP) welds joining the deck plate to deck panel diaphragm weld joint located on 14W. The weld is designated as DP3171-001-030. The welder is identified as 037779. ABF QA Mr. SHEN JIAN was onsite monitoring the welding variables. The inprocess SMAW appears to be progressing in compliance with WPS-B-P-2212-TC-U4b-FCM-1.

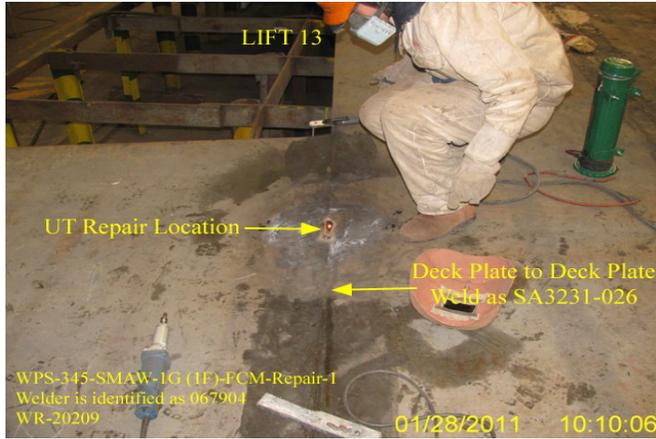
ZPMC welding personnel performing Flux Core Arc Welding (FCAW) of Complete Joint Penetration (CJP) welds joining the deck panel diaphragm to floor beam weld joint located on 13CW at Panel Point (PP-122.5). The weld is designated as SEG3014D-004. The welder is identified as 066734. ZPMC QC Mr. CAO HAI ZHOU was onsite monitoring the welding variables. The inprocess FCAW appears to be progressing in compliance with WPS-B-T-2232-ESAB.

ZPMC Quality Control (QC) personnel performing Magnetic Particle Testing (MT) for back gouged weld of Complete Joint Penetration (CJP) welds joining the deck panel diaphragm to floor beam weld joint located on 13BW at Panel Point (PP-122) East side. The weld is designated as SEG3014B-016. After back gouging & grinding linear longitudinal crack found by Magnetic Particle Testing (MT) & measured 40mm in length of gouged area. The information passed over the ABF QA Mr. CAO HAI ZHOU for to perform the magnetic particle testing after grind the full length of weld & repair the weld. Further weld detail mention in attached picture.

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 were reported on this date.

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 Eric Tsang 150-0042-2372, who represents the Office of Structural Materials for your project.

Inspected By: Pillai,Santosh

Quality Assurance Inspector

Reviewed By: Miller,Mark

QA Reviewer