

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
690 Walnut Ave. St. 150  
Vallejo, CA 94592-1133  
(707) 649-5453  
(707) 649-5493

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-023413**Date Inspected:** 03-May-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), Changxing Island **Location:** Shanghai, China**CWI Name:** Liu Hua Jie/Lv Li Qing**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**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector, Nagalingam Pandaram Pillai was present during the times noted above for observations relative to the work being performed.

Ultrasonic Testing:-

OBG Trial Assembly

This QA Inspector performed Ultrasonic testing (UT) of approximately 10% of the area previously tested and accepted by ZPMC Quality control personnel. This QA inspector generated a (UT) report for this date. The members are identified as 13BW Deck Panel Diaphragm & 13CW Deck Panel Diaphragm. The weld designation reviewed is as follows:

SEG3014I-001  
SEG3014H-001  
SEG3014F-001  
SEG3014G-001  
SEG3014D-001  
SEG3014E-001  
SEG3014C-001  
SEG3014B-001  
SEG3015K-001

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SEG3015L-001  
SEG3015I-001  
SEG3015H-001  
SEG3015F-001  
SEG3015G-001  
SEG3015E-001  
SEG3015D-001  
SEG3015B-001  
SEG3015C-001

In process Inspection:-

OBG Trial Assembly

This QA inspector observed the following work in progress:

SMAW welding of weld joint No: SEG3009C-241 located on OBG Segment 13BE Vertical plate stiffener. Welder is identified as #066258. ZPMC CWI is identified as Mr. Lv Li Qing. Welding was performed with the weld repair report BWR-20880. The welding variables recorded by QC appeared to comply with the WPS-345-SMAW-3G(3F)-FCM-Repair-1.

This QA Inspector observed the following work in progress:

SMAW in the 2G position for the OBG Segment 13CE Side Panel stiffener to Floor Beam. The weld joint was designated as: SEG3011G-198. The welder is identified as #051359. ZPMC CWI is identified as Mr.Lv Li Qing. The welding variables recorded by QC appear to comply with WPS-B-P-2213-B-U2-FCM-1. Please see the attached picture.

This QA Inspector observed the following work in progress:

SMAW in the 4F position for the OBG Segment 14E Floor Beam Stiffener. The weld joint was designated as: SEG3019B-065. The welder is identified as #058087. ZPMC CWI is identified as Mr.Lv Li Qing. The welding variables recorded by QC appear to comply with WPS-B-P-2114-FCM-1.

This QA inspector observed the following work in progress:

SMAW welding of weld joint No: SEG3019X-033 located on OBG Segment 14E. Welder is identified as #216086. ZPMC QC is identified as Mr. Zhu Yuan Yuan. Welding was performed with the weld repair report BWR-20899. The welding variables recorded by QC appeared to comply with the WPS-345-SMAW-4G(4F)-FCM-Repair-1.

This QA inspector observed the following work in progress:

SMAW welding of weld joint No: SEG3007AH-088 located on OBG Segment 13AE. Welder is identified as #044772. ZPMC CWI is identified as Mr. Liu Hua Jie. Welding was performed with the weld repair report BWR-20595. The welding variables recorded by QC appeared to comply with the

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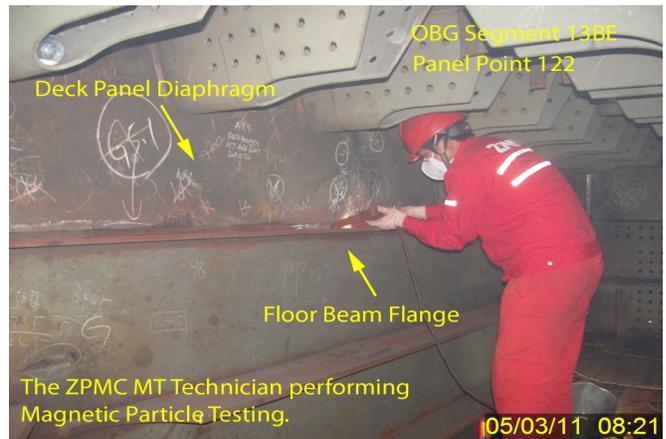
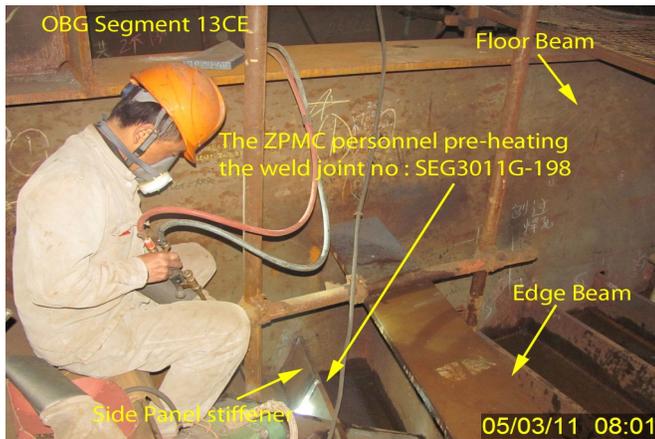
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WPS-345-SMAW-2G(2F)-FCM-Repair-1.

This QA inspector observed the following work in progress:

SMAW welding of temporary attachment removal areas located on OBG Segment 14E Bottom Panel. Welder is identified as #501946. ZPMC CWI is identified as Mr. Lv Li Qing. Welding was performed with the Critical weld repair report CWR-2944. The welding variables recorded by QC appeared to comply with the WPS-345-SMAW-4G(4F)-FCM-Repair-1.

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



## Summary of Conversations:

No Relevant Conversation.

## 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.

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**Inspected By:** Pillai,Pandaram

Quality Assurance Inspector

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**Reviewed By:** Patel,Hiranch

QA Reviewer