

**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-019103**Date Inspected:** 22-Dec-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:** 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.

Magnetic Particle Testing:-

BAY#14

This QA inspector performed Magnetic Particle Testing (MT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control Personnel. This QA Inspector generated an MT report for this date. The member is identified as OBG Segment 12CE Floor Beam. The weld designation reviewed is as follows:

SEG3011B-10,11,12,13,14,15

SEG3011C-10,11,13,14,15,16,17

SEG3011D-10,11,12,13,14,15

SEG3011E-10,11,13,14,15,16,17

SEG3011F-10,11,12,13,14,15

SEG3011G-10,11,13,14,15,16,17

SEG3011H-10,11,12,13,14,15

SEG3011J-10,11,13,14,15,16,17

SEG3011K-10,11,12,13,14,15

SEG3011L-10,11,13,14,15,16,17

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In process Inspection:-

BAY#14

This QA Inspector observed the following work in progress:

SMAW in the 2G position for the OBG Segment 14E Longitudinal Diaphragm to Bottom panel. The weld joint was designated as: SEG3019Z-13. The welder is identified as #066413. ZPMC QC is identified as Mr. Zhong Guo Hui. The welding variables recorded by QC appear to comply with WPS-B-P-2212-TC-U4B-FCM-1.

This QA Inspector observed the following work in progress:

SMAW in the 3F position for the OBG Segment 14E Floor Beam to Bottom plate "I" rip. The weld joint was designated as: SEG3019N-246/247. The welder is identified as #048047. ZPMC QC is identified as Mr. Zhong Guo Hui.. The welding variables recorded by QC appear to comply with WPS-B-P-2113-FCM-1.

This QA Inspector observed the following work in progress:

FCAW in the 2F position for the OBG Segment 14E Vertical Shear plate. The weld joint was designated as: SEG3019BC-007. The welder is identified as #217805. ZPMC QC is identified as Mr. Zhong Guo Hui. The welding variables recorded by QC appear to comply with WPS-B-T-2132-ESAB.

This QA Inspector observed the following work in progress:

SMAW in the 4G position for the OBG Segment 13CE Side panel to Vertical plate. The weld joint was designated as: SEG3011U-002. The welder is identified as #067765. ZPMC QC is identified as Mr. Wang Xu. The welding variables recorded by QC appear to comply with WPS-B-P-2214-TC-U4B-FCM-1.

This QA Inspector observed the following work in progress:

FCAW in the 3G position for the OBG Segment 13BE Vertical plate to 13CE Vertical plate. The weld joint was designated as: OBE13AD-002. The welder is identified as #052696. ZPMC QC is identified as Mr. Wang Xu. The welding variables recorded by QC appear to comply with WPS-B-T-2233-ESAB. Please see the attached picture.

This QA Inspector observed the following work in progress:

FCAW in the 3G position for the OBG Segment 13AE Bottom plate "I" rip. The weld joint was designated as: SEG3007Q-143. The welder is identified as #050242. ZPMC QC is identified as Mr. Wang Xu. The welding variables recorded by QC appear to comply with WPS-B-T-2233-ESAB.

This QA Inspector observed the following work in progress:

FCAW in the 2G position for the OBG Segment 14E Bottom plate to Floor Beam. The weld joint was designated as: SEG3019E-1-182. The welder is identified as #044830. ZPMC QC is identified as Mr. Zhong Guo Hui. The welding variables recorded by QC appear to comply with WPS-B-T-2232-ESAB. Please see the attached picture.

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

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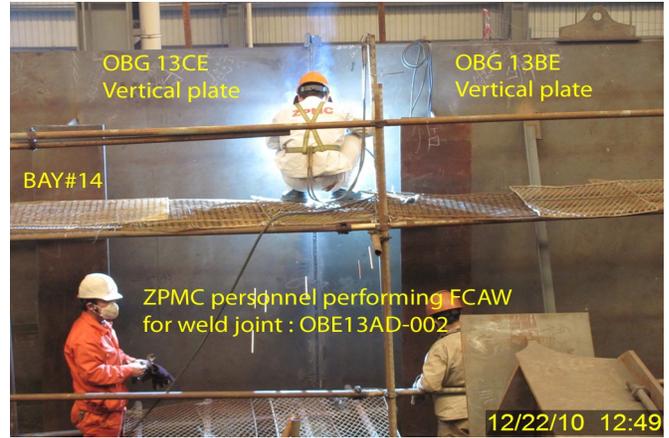
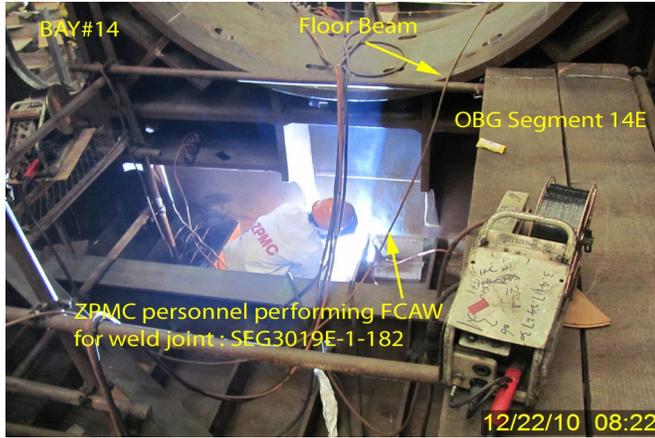
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# WELDING INSPECTION REPORT

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## 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

**Reviewed By:** Patel,Hiranch

QA Reviewer