

**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-006999**Date Inspected:** 03-Jun-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 645**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1845**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Zhao Chen Sun**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 components**Summary of Items Observed:**

On this date CALTRANS OSM Quality Assurance (QA) Inspector, Dilip Chakrabarti was present during the times noted above for observations relative to the work being performed.

Bay# 6-OBG Assembly

This QA Inspector randomly observed the following work in progress:

Magnetic Particle Testing (MT):

For Green Tag:

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 a TL-6028 MT report on this date.

The member and the weld designations are as follows:

SI # Section # Weld # Green Tag # Location

1. DP 203-015 002,004,006,008 008480 11 B
2. DP 203-014 002,004,006,008 008481 10 C
3. DP 204-015 002,004 008483 11 B
4. DP 205-015 002,004 008482 11 B

Bay# 6-Tower Assembly

This QA Inspector randomly observed the following work in progress:

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## SMAW Process:

Welding of weld joints# B/B-7 located on PCMK ESD1 DPSA4-12. Welder is identified as 069493. ZPMC QC is identified as Zhang Bao Bo. The welding variables recorded by QC appeared to comply with the specified WPS no. B-T-3312-TC-P5.

Welding of weld joints# B/B-6 located on PCMK ESD1 DPSA4-12. Welder is identified as 066459. ZPMC QC is identified as Zhang Bao Bo. The welding variables recorded by QC appeared to comply with the specified WPS no. B-T-3312-TC-P5.

## SAW Process:

Welding of weld joints# 1A located on PCMK WD1 A305-77M-1,2. Welder is identified as 054458. ZPMC QC is identified as Shi Yu. The welding variables recorded by QC appeared to comply with the specified WPS no. B-T-4221-B-U3c-S.

## Bay # 7-OBG Assembly:

This QA Inspector randomly observed the following work in progress:

## FCAW Process:

Welding of weld joints# 1&2 located on PCMK BP 205-014. Welder is identified as 062447. ZPMC QC is identified as Sheng Jian Guo. The welding variables recorded by QC appeared to comply with the specified WPS no. B-T-2132-3.

Welding of weld joints# 1&2 located on PCMK BP 205-015. Welder is identified as 062447. ZPMC QC is identified as Sheng Jian Guo. The welding variables recorded by QC appeared to comply with the specified WPS no. B-T-2132-3.

## SAW Process:

Welding of weld joints# 67 located on PCMK SP 3036-001. Welder is identified as 046830. ZPMC QC is identified as Zhong Chong Biao. The welding variables recorded by QC appeared to comply with the specified WPS no. B-T-2221-B-L2c-S-2.

## Ultrasonic Testing (UT):

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 TL-6027 UT report on this date.

The member and the weld designations are as follows:

Sl # Section # Weld # Green Tag # Location

1. BP 3019-001 115,116 NA NA

2. BP 3021-001 115,116 NA NA

3. BP 3020-001 115,116 NA NA

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

## Summary of Conversations:

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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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| <b>Inspected By:</b> | Chakrabarti,Dilip Kumar | Quality Assurance Inspector |
| <b>Reviewed By:</b>  | Clifford,William        | QA Reviewer                 |

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