

**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 #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-017833**Date Inspected:** 07-Nov-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:** Zhu Zhong Hai.**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 day CALTRANS OSM Quality Assurance Inspector (QA) Mr. Shailesh Wadkar was present during the times noted above for observations relative to the fabrication of the Self Anchored Suspension (SAS) Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island, in Shanghai, China. QA Inspector observed and/or found the following:

OBG Trial Assembly Yard:

Notification no: 007261.

OBG Segment (Seg) 11AE and Seg 11BE:

This QA inspector performed Magnetic Particle Testing (MT) of approximately 15% of an area that has been previously tested and accepted by ZPMC Quality Control (QC) personnel. This QA Inspector has generated MT report for this date. The members are identified as OBG components. The weld designations MT inspected are as follows:

- 1) SEG068B-006, 041, 043, 045, 064.
- 2) SEG066B-030.
- 3) DP704-001-015, 016.
- 4) DP705-001-009, 010.
- 5) EP155-001-009, 010.
- 6) EP156-001-011, 012.

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7) SP699-001-025, 026.

8) SP700-001-025, 026.

This QA Inspector observed the following work in progress:

OBG Seg 11AE and Seg 11BE:

This QA Inspector observed ABF personnel doing MT of weld joint nos: OBE11-003 [Deck Panel (DP) to DP – transverse splice complete joint penetration (CJP) weld] and OBE11-005 [Edge Panel (EP) to EP – transverse splice CJP weld]. See attached photo for further details.

OBG Seg 11EW:

This QA Inspector observed ZPMC personnel doing fit-up of Light Bracket LB3-001 with OBG Seg 11EW. ZPMC QC was identified as Zhu Yuan Yuan. See attached photo for further details.

OBG Seg 11AE:

This QA Inspector observed ZPMC personnel doing heat straightening of Floor Beam – FB10B, at Panel Point (PP) 96. Heat straightening was done as per heat straightening report (HSR): 9802. ZPMC QC was identified as An Qing Xiang. See attached photo for further details.

OBG Seg 11CE:

The Shielded Metal Arc Welding (SMAW) process on weld joint no: SEG070A-012 [Side Panel (SP) to Bottom Panel (BP) – E3 side; CJP hold back weld]. The welder is identified as 040265 and was observed welding in the 4G position. ZPMC QC was identified as An Qing Xiang. The welding variables recorded by QC appeared to comply with Welding Procedure Specification (WPS): B-P-2214-B-U2-FCM-1.

OBG Seg 11DE:

The SMAW process on weld joint no: SEG072A-043 (SP to BP – E3 side; CJP hold back weld). The welder is identified as 040265 and was observed welding in the 4G position. ZPMC QC was identified as An Qing Xiang. The welding variables recorded by QC appeared to comply with WPS: B-P-2214-B-U2-FCM-1.

OBG Seg 11DW and Seg 11EW:

The SMAW process on weld joint no: OBW11C-008 (BP to BP transverse splice; CJP weld). The welder is identified as 040656 and was observed welding in the 4G position. ZPMC QC was identified as Zhu Yuan Yuan. The welding variables recorded by QC appeared to comply with WPS: B-P-2214-B-U2-FCM-1.

OBG Seg 11CE and Seg 11DE:

The SMAW process on weld joint no: OBE11C-004 (SP to SP transverse splice; CJP weld). The welders are

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identified as 040484 and 044504 and were observed welding in the 4G position. ZPMC QC was identified as An Qing Xiang. The welding variables recorded by QC appeared to comply with WPS: B-P-2214-B-U2-FCM-1.

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



## Summary of Conversations:

No significant 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; phone: 15000422372., who represents the Office of Structural Materials for your project.

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**Inspected By:** Wadkar,Sailesh

Quality Assurance Inspector

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**Reviewed By:** Dsouza,Christopher

QA Reviewer