

**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-014520**Date Inspected:** 01-Jun-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:** Li Yang.**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 day CALTRANS OSM Quality Assurance Inspector (QA) 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 observed and/or found the following:

Outside Yard:

Bay 1: CB15.

This QA Inspector observed that no significant work was being performed on the above mentioned CB at the time when this QA was present.

Bay 8: CB17.

This QA Inspector observed that no significant work was being performed on the above mentioned CB at the time when this QA was present.

CB11, CB12, CB13 &amp; CB16:

This QA Inspector observed that no significant work was being performed on the above mentioned CB's at the time when this QA was present.

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CB14:

This QA Inspector observed the following work in progress:

Repair welding of weld joint nos: FB204-044-054. Welder was identified as 043661. Welding process was identified as Shielded Metal Arc Welding (SMAW). ZPMC QC is identified as Guo Yuan Ting. The welding variables recorded by QC appeared to comply with the Applicable WPS: WPS-345-SMAW-1G(1F)-Repair [welding repair report (WRR) no: B-WR13037 Rev-0 ].

Repair welding of weld joint no: FB204-043-053. Welder was identified as 044844. Welding process was identified as SMAW. ZPMC QC is identified as Guo Yuan Ting. The welding variables recorded by QC appeared to comply with the Applicable WPS: WPS-345-SMAW-4G(4F)-Repair (WRR no: B-WR13022 Rev-0).

Trial Assembly:

CB7:

This QA Inspector observed the following work in progress:

ZPMC personnel performing Ultrasonic Testing (UT) of the hold back welds of this CB. Following welds were identified and marked for repair.

- CB201A-007-001, 003, 004, 013 & 015.

This QA Inspector also observed repair welding of weld joint no: CB201A-007-015. Welder was identified as 048659. Welding process was identified as SMAW. ZPMC QC is identified as Zhang Xiao Ming. The welding variables recorded by QC appeared to comply with the Applicable WPS: WPS-345-SMAW-2G(2F)-Repair (WRR no: B-WR13352 Rev-0 Dt: 06/01/10).

CB8:

During random inprocess inspection of this CB, this QA Inspector observed ZPMC personnel doing Ultrasonic Testing (UT) of the hold back welds. Following welds were identified for repair welding:

- CB202A-008-001, 003, 004, 006, 013, 015, 016 & 018.

Photo attached for reference.

CB9 & CB10:

This QA Inspector observed that no significant work was being performed on this CB at the time when this QA Inspector was present.

Bay 14:

No significant work was being performed in this Bay at the time when this QA Inspector was present.

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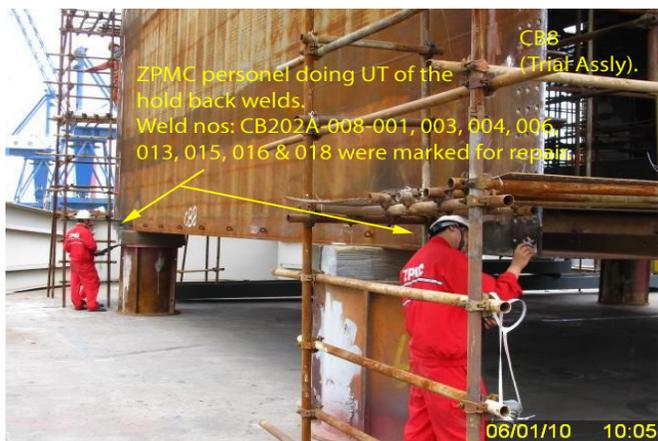
Bay 19:

Notification No: 005874.

This QA inspector performed Magnetic Particle Testing (MT) of approximately 15% of an area that has been previously tested and accepted by ZPMC QC personnel. This QA Inspector has generated MT report for this date. The member(s) are identified as OBG component – Bottom Panel. The weld designations reviewed are as follows:

1) BP026-015-014 to 019 & 049 to 052.

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



### Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

### 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:** Hall,Steven

QA Reviewer