

**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 #: xx.28**WELDING INSPECTION REPORT****Resident Engineer:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-022215**Date Inspected:** 02-Apr-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:** Mr. 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 Trial Assembly**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector Raghavendra Reddy was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. QA observed and/or found the following:

This QA Inspector observed the following work in progress:

Trial Assembly:-

Shielded Metal Arc (SMAW) welding of Weld Joint SEG3013AD-035 (13AW weld, CB Side ), and Welding Repair Report(WR)B-WR20534, Welder is identified as 047864; ZPMC Quality Control (QC) is identified as Mr. Shen Jian Bo, The welding variables appeared to comply with the Applicable WPS-345-SMAW-3G(3F)-FCM-Repair-1.

Shielded Metal Arc (SMAW) welding of Weld Joint SEG3013C-229 (13AW Side Panel to FL3 Stiffener weld ), and Welder is identified as 067764; ZPMC Quality Control (QC) is identified as Mr. Shen Jian Bo, The welding variables appeared to comply with the Applicable WPS-B-P-2214-TC-U4b-FCM-1.

Shielded Metal Arc (SMAW) welding of Weld Joint SEG3013K-026 (13AW weld, CB Side ), and Welder is identified as 067707; ZPMC Quality Control (QC) is identified as Mr. Shen Jian Bo, The welding variables appeared to comply with the Applicable WPS-B-P-2213-TC-U4b-FCM-1.

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Flux Cored Arc (FCAW) welding of Weld Joint SEG3013E-044 (13AW Floor Beam to I Rib Stiffener weld ), and Welder is identified as 048433; ZPMC Quality Control (QC) is identified as Mr. Shen Jian Bo, The welding variables appeared to comply with the Applicable WPS-B-T-2233-ESAB.

The following Non Destructive Testing (NDT) Inspection carried out as per the ZPMC submitted Notification No. 08716.

### Magnetic Particle Testing (MT)

This QA Inspector performed MT of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated a MT report for this date. The member is identified as OBG 12 AW+12BW Drip Plate welds, The weld designations reviewed are as follows.

1. CA3012-220~223,228~231

The following Non Destructive Testing (NDT) Inspection carried out as per the ZPMC submitted Notification No. 08710.

### Ultrasonic Testing (UT)

This QA Inspector performed 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 member is identified as OBG 13 East welds, The weld designations reviewed are as follows.

1. SEG3007N-123,128,153,148,158,163,168,173
2. SEG3007Q-311,220,277,282,284,288,291,296.
3. SEG3007AB-005,007,009,011,013

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the 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 (15000422372), who represents the Office of Structural Materials for your project.

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**Inspected By:** Tharikoppada,Reddy

Quality Assurance Inspector

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**Reviewed By:** Miller,Mark

QA Reviewer