

**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-023798**Date Inspected:** 13-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:** Xu Le Feng**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 & TOWER Components**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials Quality Assurance Inspector, Sandeep Kumar (QA) was present during the times noted above for observations relative to the work being performed.

BAY#10

The following Non Destructive Testing (NDT) inspection carried out as per the ZPMC submitted Notification No. 08810

Ultrasonic Testing (UT)

This QA inspector performed UT of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an UT report for this date. The member is identified as OBG Component. The weld designation reviewed as follows:

TRAVLER RAIL

28TR1-001-013

This QA Inspector observed the following work in progress

Shielded Metal Arc Welding (SMAW):

Weld joint #046 located on Traveler Rail 31TR3-001. Welder is identified as 050038. ZPMC Quality Control (QC) Inspector is identified as Sun Zi Wang. The welding variables recorded by QC appeared to comply with the WPS-B-P-2212-Tc-U5b. (See attached Photo)

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Weld joint #034 located on Traveler Rail 31TR3-001. Welder is identified as 500363. ZPMC Quality Control (QC) Inspector is identified as Sun Zi Wang. The welding variables recorded by QC appeared to comply with the WPS-B-P-2212-Tc-U5b.

Flux Cored Arc Welding (FCAW):

Weld joint #080 located on Bike path BK010A8-001. Welder is identified as 054069. ZPMC Quality Control (QC) Inspector is identified as Li Jun. The welding variables recorded by QC appeared to comply with the WPS-B-T-2232-ESAB.

Weld joint #061 located on Bike path BK010A6-001. Welder is identified as 040302. ZPMC Quality Control (QC) Inspector is identified as Shang Hai Lang. The welding variables recorded by QC appeared to comply with the WPS-B-T-2232-ESAB.

BAY#11

This QA Inspector observed the following work in progress

Flux Cored Arc Welding (FCAW):

Weld joint #027 located on Lift-6 Tower head component ESD1-FGSA6-2. Welder is identified as 040582. ZPMC Quality Control (QC) Inspector is identified as Yu Zhi Lai. The welding variables recorded by QC appeared to comply with the WPS-B-P-2313-Tc-P4.

Weld joint #029 located on Lift-6 Tower head component WSD1-FGSA6-2. Welder is identified as 040614. ZPMC Quality Control (QC) Inspector is identified as Mao Bin Bin. The welding variables recorded by QC appeared to comply with the WPS-B-P-2313-Tc-P4. (See attached photo)

Weld joint #029 located on Lift-6 Tower head component ESD1-FGSA6-2. Welder is identified as 052493. ZPMC Quality Control (QC) Inspector is identified as Yu Zhi Lai. The welding variables recorded by QC appeared to comply with the WPS-B-P-2313-Tc-P4.

Weld joint #027 located on Lift-6 Tower head component WSD1-FGSA6-2. Welder is identified as 040611. ZPMC Quality Control (QC) Inspector is identified as Mao Bin Bin. The welding variables recorded by QC appeared to comply with the WPS-B-P-2313-Tc-P4.

Weld joint #001 located on Traveler Rail 3011TR1-001. Welder is identified as 202354. ZPMC Quality Control (QC) Inspector is identified as Wang Chuang Xin. The welding variables recorded by QC appeared to comply with the WPS-B-P-2111.

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

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## Summary of Conversations:

No Relevant Conversations.

## 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 Thomas Ho - 15002048250, who represents the Office of Structural Materials for your project.

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**Inspected By:** Kumar,Sandeep

Quality Assurance Inspector

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**Reviewed By:** Clifford,William

QA Reviewer