

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
690 Walnut Ave. St. 150  
Vallejo, CA 94592-1133  
(707) 649-5453  
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 99.28**WELDING INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-013917**Date Inspected:** 08-May-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) Chanxing Island **Location:** Shanghai, China**CWI Name:** Mr. Zhou Cheng**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 Segment 11AW**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance Inspector (QA), Vibin Kumar Selvanayaham, was present during the times noted above for observations relative to the work being performed.

**Magnetic Particle Testing (MT)**

This QA inspector performed Visual Testing (VT) on OBG Segment 11AW & 11CE and VT indications are confirmed by Magnetic Particle Testing (MT) on area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an MT report for this date. The indications are clearly marked on the material near the weld for future repair. The members are identified as OBG Segment 11AW & 11CE. The weld designations reviewed are as follows:

**OBG Segment 11CE-PP103 East side**

1. FB009-035-004
2. FB003-201-005

**OBG Segment 11CE-PP103 West side**

3. FB009-035-003
4. FB003-201-005

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OBG Segment 11AW-PP95 West side

5. FB016-043-003

6. FB003-195-004

OBG Segment 11AW-PP97 West side

7. FB003-194-004

8. FB009-040-003

Visual Inspection after Blast

OBG Segment 9DW

This QA Inspector performed a preliminary random visual inspection after the grit blast of the exterior components of the deck panel, floor beams and corner assemblies of this segment. Areas of visual weld defects that will require welding were taped and will be repaired after the coating is applied. ZPMC QC personnel are aware of these areas and were present during the inspection.

Bay 19

This QA inspector observed ZPMC qualified welding personnel identified as 062752 and 062786 perform Flux Cored Arc Welding (FCAW) welding on CB Bottom Plate, weld joint identified as BP026-015-015. ZPMC QC is identified as Mr. Zhou Cheng. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2132.

This QA inspector observed ZPMC qualified welding personnel identified as 062788 perform FCAW welding on Suspender Bracket, weld joint identified as SB012-056-004, 005, and 007. ZPMC QC is identified as Mr. Zhou Cheng. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2232-Tc-U4b-F.

This QA inspector observed ZPMC qualified welding personnel identified as 062749 perform FCAW Welding on Suspender Bracket, weld joint identified as SB013-060-004, 005 and 007. ZPMC QC is identified as Mr. Zhou Cheng. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2233-Tc-U4b-F.

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 , who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Kumar, Vibin	Quality Assurance Inspector
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<b>Reviewed By:</b>	McClendon, Timothy	QA Reviewer
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