

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 #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-015986**Date Inspected:** 17-Jul-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:** Xu Tao**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 COMPONENT**Summary of Items Observed:**

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

In process Inspection

Bay #14

This QA Inspector observed the following work in progress:

FCAW in the 2F position for the OBG Segment 13BE, weld No. SP3074-001-007~024. The welders are identified as #044774/044830. ZPMC QC is identified as Mr. Wang Xu. The welding variables recorded by QC appear to comply with WPS-B-T-2132.

SMAW in the 4G position for the OBG Segment 12AW, UT repair weld No. SEG3004*-006. The welder is identified as #037743. ZPMC QC is identified as Mr. Tang Ya Jun. The welding variables recorded by QC appear to comply with WPS-345-SMAW-4G(4F)-REPAIR.

SMAW in the 4G position for the OBG Segment 12AW, UT repair weld No. SEG3004*-027. The welder is identified as #047864. ZPMC QC is identified as Mr. Tang Ya Jun. The welding variables recorded by QC appear to comply with WPS-345-SMAW-4G(4F)-REPAIR.

SMAW in the 2G position for the OBG Segment 12BW, weld No. CA3009-004. The welder is identified as #045133. ZPMC QC is identified as Mr. Wang Wei Ming. The welding variables recorded by QC appear to

WELDING INSPECTION REPORT

(Continued Page 2 of 4)

comply with WPS-B-P-2212-Tc-U4b-FCM-1.

Bay #16

This QA Inspector observed the following work in progress:

SAW in the 1G position for the OBG Segment 13BW Longitudinal Diaphragm, weld No. LD3305-001-002. The welder is identified as #250050. ZPMC QC is identified as Mr. Li Ming Yang. The welding variables recorded by QC appear to comply with WPS-B-T-2221-B-L2c-S-2.

SAW in the 1G position for the OBG Segment 13BW Longitudinal Diaphragm, weld No. LD3032-001-002. The welder is identified as #045265. ZPMC QC is identified as Mr. Xia Chun Hui. The welding variables recorded by QC appear to comply with WPS-B-T-2221-B-L2c-S-2.

Out Side Yard

This QA Inspector observed the following work in progress:

SMAW in the 3G position for the OBG Segment 11DW, weld No. SEG071E-092. The welder is identified as #045246. ZPMC QC is identified as Mr. Li Ping. The welding variables recorded by QC appear to comply with WPS-345-SMAW-3G(3F)-FCM-REPAIR. The weld repair report is identified as B-WR-13991.

SMAW in the 4G position for the OBG Segment 11EE, weld No. SEG074A-010. The welder is identified as #054013. ZPMC QC is identified as Mr. Li Ping. The welding variables recorded by QC appear to comply with WPS-345-SMAW-4G(4F)-FCM-REPAIR. The weld repair report is identified as B-WR-11257.

SMAW in the 4F position for the OBG Segment 11DW, weld No. SEG071E-084/085. The welder is identified as #045868. ZPMC QC is identified as Mr. Li Ping. The welding variables recorded by QC appear to comply with WPS-345-SMAW-4G(4F)-REPAIR. The weld repair report is identified as B-WR-13991.

During random visual inspection at segment 12CW on Panel Point PP117, the QA Inspector found the linear transverse crack like indication on several locations at the base metal of Floor beam flange. The mention area was not welded due to tack weld crack at bay #14. Then the QA Inspector informed to ZPMC QC Personnel to perform Magnetic Particle Testing at mention area and more than 70% of the crack tack area found linear transverse indication on base metal of Floor Beam Flange. The QA inspector informed to ZPMC QC Mr. Wang wei Ming and ABF QA Mr. Wen Jian Bao to remove the indication and do Magnetic Particle Testing for confirmation at those mention area. For more information see the attached photo.

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

WELDING INSPECTION REPORT

(Continued Page 3 of 4)



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 Eric Tsang 150-0042-2372, who represents the Office of Structural Materials for your project.

WELDING INSPECTION REPORT

(Continued Page 4 of 4)

| | | |
|----------------------|---------------|-----------------------------|
| Inspected By: | Bera,Subhasis | Quality Assurance Inspector |
|----------------------|---------------|-----------------------------|

| | | |
|---------------------|------------------|-------------|
| Reviewed By: | Patterson,Rodney | QA Reviewer |
|---------------------|------------------|-------------|