

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 99.28**WELDING INSPECTION REPORT****Resident Engineer:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-025167**Date Inspected:** 07-Nov-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**CWI Name:** Tian Lei**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 date Caltrans OSM Quality Assurance (QA) Inspector R. Hernandez was present during the time noted above and conducted observations relative to the work being performed.

The QA Inspector randomly observed the following work in progress:

Bay Number 1

ZPMC personnel heat straightening Orthotropic Box Girder (OBG) Traveler Rail component identified as 20TR2-032. Distortion appeared to be caused by welding. ZPMC Quality Control (QC) inspector identified as Mr. Tian Lei was present to monitor the heat straightening process. The heat straightening appeared to comply with Heat Straightening Report (HSR) no. HSR1(B)-362.

ZPMC personnel heat straightening Orthotropic Box Girder (OBG) Counter Weight assembly component identified as CW104. Distortion appeared to be caused by welding. ZPMC Quality Control (QC) inspector identified as Mr. Tian Lei was present to monitor the heat straightening process. The heat straightening appeared to comply with Heat Straightening Report (HSR) no. HSR1(B)-9262.

Bay Number 2

Performed verification VT for the component(s) and corresponding welds for component on OBG Vertical Plate component listed as VP3011-001. This QA inspector signed green tag #15345.

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Performed verification VT for the component(s) and corresponding welds for component on OBG Floor Beam component listed as FB3349B-001. This QA inspector signed green tag #15338.

Performed verification VT for the component(s) and corresponding welds for component on OBG Floor Beam component listed as FB3323B-001. This QA inspector signed green tag #15336.

Performed verification VT for the component(s) and corresponding welds for component on OBG Floor Beam component listed as FB3331-001. This QA inspector signed green tag #15339.

Performed verification VT for the component(s) and corresponding welds for component on OBG Floor Beam component listed as FB3318A-001. This QA inspector signed green tag #15334.

Performed verification VT for the component(s) and corresponding welds for component on OBG Floor Beam component listed as FB3318A-001. This QA inspector signed green tag #15333.

FCAW welding of complete joint penetration weld joint(s) located on lift 14 OBG Sub Assembly assembly identified as SA3448-001 weld number(s) 001. Welder is identified as welder no. 045265. The welding variables recorded by ZPMC QC identified as Tian Lei appeared to comply with applicable WPS(s)
WPS-B-T-2221-B-L2c-S-2.

FCAW welding of complete joint penetration weld joint(s) located on lift 14 OBG Sub Assembly assembly identified as SA3445-001 weld number(s) 001. Welder is identified as welder no. 250050. The welding variables recorded by ZPMC QC identified as Tian Lei appeared to comply with applicable WPS(s)
WPS-B-T-2221-B-L2c-S-2.

Bay Number 3

This QA inspector performed UT of approximately 10% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an UT report for this date. All components were as listed on NWIT notification no.(s) 07261. The member(s) is/are identified as OBG Vertical Plate and Flor Beams. The weld designations reviewed are as follows:

1. FB3286-001-288.
2. VP3014-001-002, 003, 026, & 044.
3. FB3272-001-002, 043, 045, 032, 033, 034.

FCAW welding of complete joint penetration weld joint(s) located on lift 14 OBG Floor Beam component identified as FB3286-001 weld number(s) 308. Welder is identified as welder no. 052696. The welding variables recorded by ZPMC QC identified as Tian Lei appeared to comply with applicable WPS(s)
WPS-B-T-2232-TC-U4c-F.

FCAW welding of complete joint penetration weld joint(s) located on lift 14 OBG Floor Beam component identified as FB3286-001 weld number(s) 209. Welder is identified as welder no. 050242. The welding variables

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recorded by ZPMC QC identified as Tian Lei appeared to comply with applicable WPS(s)
WPS-B-T-2233-TC-U4c-F.

FCAW welding of complete joint penetration weld joint(s) located on lift 14 OBG Floor Beam component identified as FB3286-001 weld number(s) 190. Welder is identified as welder no. 055491. The welding variables recorded by ZPMC QC identified as Tian Lei appeared to comply with applicable WPS(s)
WPS-B-T-2232-TC-U4c-F.

FCAW welding of complete joint penetration weld joint(s) located on lift 14 OBG Floor Beam component identified as FB3286-001 weld number(s) 314. Welder is identified as welder no. 044830. The welding variables recorded by ZPMC QC identified as Tian Lei appeared to comply with applicable WPS(s)
WPS-B-T-2232-TC-U4c-F.

FCAW welding of complete joint penetration weld joint(s) located on lift 14 OBG Floor Beam component identified as FB3286-001 weld number(s) 323. Welder is identified as welder no. 067949. The welding variables recorded by ZPMC QC identified as Tian Lei appeared to comply with applicable WPS(s)
WPS-B-T-2233-TC-U4c-F.

FCAW welding of complete joint penetration weld joint(s) located on lift 14 OBG Floor Beam component identified as FB3286-001 weld number(s) 314. Welder is identified as welder no. 044830. The welding variables recorded by ZPMC QC identified as Tian Lei appeared to comply with applicable WPS(s)
WPS-B-T-2233-TC-U4b-F.

Bay Number 4

This inspector did not observe any welding or contract work being conducted in this bay today.

Unless otherwise noted above all items observed on this day appeared to be in general compliance with the applicable contract documents



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Summary of Conversations:

Pertinent conversations are included in the body of the report.

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 1500-0042-02372, who represents the Office of Structural Materials for your project.

Inspected By:	Hernandez,Rene	Quality Assurance Inspector
Reviewed By:	Hall,Steven	QA Reviewer
