

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 #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-018300**Date Inspected:** 26-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, China**CWI Name:** 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:** Orthotropic Box Girder (OBG)**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector Manoj Prabhune 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 randomly observed the following work in progress:

OBG # TRIAL ASSEMBLY YARD

WELDING:**Segment 11EW**

This QA Inspector observed ZPMC qualified welding personnel identified as 046704 perform Shielded Metal Arc Welding (SMAW), weld joint identified as SEG073A-014; located On Orthotropic Box Girder (OBG) Bottom Plate to Side Plate CJP Weld; The Welding Repair Report (WRR) was B-WR17734. ZPMC Quality Control (QC) is identified as Mr. Zhou Peng. The welding variables recorded by QC appeared to comply with applicable WPS-345-FCAW -1G (1F) FCM-Repair-1. See attached photo for further details.

Segment 11DW

This QA Inspector observed ZPMC qualified welding personnel identified as 046709 perform Shielded Metal Arc Welding (SMAW), weld joint identified as SEG071A-044; located On Orthotropic Box Girder (OBG) Bottom

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Plate to Side Plate CJP Weld; The Welding Repair Report (WRR) was B-WR17735. ZPMC Quality Control (QC) is identified as Mr. Zhou Peng. The welding variables recorded by QC appeared to comply with applicable WPS-345-SMAW 4G (4F) FCM-Repair-1.

Segment 11EW

This QA Inspector observed ZPMC qualified welding personnel identified as 040611 perform Shielded Metal Arc Welding (SMAW), weld joint identified as SEG073A-013; located On Orthotropic Box Girder (OBG) Bottom Plate to Side Plate CJP Weld; The Welding Repair Report (WRR) was B-WR17735. ZPMC Quality Control (QC) is identified as Mr. Zhou Peng. The welding variables recorded by QC appeared to comply with applicable WPS-345-FCAW -1G (1F) FCM-Repair-1.

Segment 11DE

This QA Inspector observed ZPMC qualified welding personnel identified as 053486 perform Flux Core Arc Welding (FCAW), weld joint identified as TR1B-PP101-004; located On Orthotropic Box Girder (OBG) Traveler Rail PJP Weld; ZPMC Quality Control (QC) is identified as Mr. Zhu Zhong Hai. The welding variables recorded by QC appeared to comply with applicable WPS-B-T-2233-TC-U4b-F.

Segment 11EE

This QA Inspector observed ZPMC qualified welding personnel identified as 044779 perform Shielded Metal Arc Welding (SMAW), weld joint identified as CSD9-PP108-146; located On Orthotropic Box Girder (OBG) Floor Beam to Skin Plate Stiffener Fillet Weld; ZPMC Quality Control (QC) is identified as Mr. Wu Shi Gao. The welding variables recorded by QC appeared to comply with applicable WPS-B-P-2113-FCM-1.

HEAT STRAIGHTENING:

This QA Inspector observed the following work in progress:

ZPMC personnel heat straightening Orthotropic Box Girder (OBG) member identified as Segment 11DW~ 11EW Panel Point 106 to Panel Point 107 Side Plate to Side Plate Transverse Splice CJP Weld. Distortion appeared to be caused by Welding. ZPMC Quality Control (QC) inspector identified as Mr. Zhu Zhong Hai was present to monitor the heat straightening process. The heat straightening appeared to comply with Heat Straightening Report HSR1 (B) 9889. See attached photo for further details.

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

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Summary of Conversations:

No significant conversations were reported on this date.

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 phone: 15000422372, who represents the Office of Structural Materials for your project.

Inspected By: Prabhune,Manoj

Quality Assurance Inspector

Reviewed By: Peterson,Art

QA Reviewer