

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-020462**Date Inspected:** 08-Feb-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:** Qiu Wen**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:

Bay 14

WELDING:

Segment 14W

This QA Inspector observed ZPMC qualified welding personnel identified as 066038 perform Shielded Metal Arc Welding (SMAW), weld joint identified as SEG3020E-044; located On Orthotropic Box Girder (OBG) Floor Beam to Longitudinal Diaphragm CJP Weld; ABF Quality Assurance (QA) is identified as Mr. Wang Jiang Hua. The Critical Welding Repair Report (CWRR) was B-CWR2735 Rev- 0. This QA Inspector observed a welding current of approximately 220 amps and 23.5 volts and the base material appears to have been being preheated by an electrical heating elements prior to welding. ABF Quality Assurance (QA) Mr. Wang Jiang Hua was onsite monitoring the welding variables. The welding variables recorded by QA appeared to comply with applicable WPS-345-SMAW-3G (3F) FCM-Repair-1. See attached photo for further details.

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This QA Inspector observed ZPMC qualified welding personnel identified as 069683 perform Shielded Metal Arc Welding (SMAW), weld joint identified as SEG3020K-043; located On Orthotropic Box Girder (OBG) LD3051A to SA3401A CJP Weld; ZPMC Quality Control (QC) is identified as Mr. Wang Jiang Ping. The welding variables recorded by QC appeared to comply with applicable WPS-B-P-2214-TC-U4b-FCM-1. See attached photo for further details.

This QA Inspector observed ZPMC qualified welding personnel identified as 067949 perform Shielded Metal Arc Welding (SMAW), weld joint identified as SEG3020D-066; located On Orthotropic Box Girder (OBG) LD3051A to SA3401A CJP Weld; ZPMC Quality Control (QC) is identified as Mr. Wang Jiang Ping. The welding variables recorded by QC appeared to comply with applicable WPS-B-P-2214-TC-U4b-FCM-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 066421 perform Flux Cored Arc Welding (FCAW), weld joint identified as SEG3020AZ-419; located On Orthotropic Box Girder (OBG) FB3335 to EB3056 CJP Weld; ABF Quality Assurance (QA) is identified as Mr. Wang Jiang Hua. This QA Inspector observed a welding current of approximately 268 amps and 25.8 volts and the base material appears to have been being preheated by an electrical heating elements prior to welding. ABF Quality Assurance (QA) Mr. Wang Jiang Hua was onsite monitoring the welding variables. The welding variables recorded by QA appeared to comply with applicable WPS-B-T-2133-ESAB.

This QA Inspector observed ZPMC qualified welding personnel identified as 067707 perform Shielded Metal Arc Welding (SMAW), weld joint identified as DP3174-001-021; located On Orthotropic Box Girder (OBG) Deck Plate to Deck Plate Diaphragm CJP Weld; ZPMC Quality Control (QC) is identified as Mr. Wang Jiang Ping. The welding variables recorded by QC appeared to comply with applicable WPS-B-P-2212-TC-U4b-FCM-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 037779 perform Shielded Metal Arc Welding (SMAW), weld joint identified as DP3174-001-250; located On Orthotropic Box Girder (OBG) Deck Plate to Deck Plate Diaphragm CJP Weld; ZPMC Quality Control (QC) is identified as Mr. Wang Jiang Ping. The welding variables recorded by QC appeared to comply with applicable WPS-B-P-2212-TC-U4b-FCM-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 067904 perform Shielded Metal Arc Welding (SMAW), weld joint identified as DP3174-001-021; located On Orthotropic Box Girder (OBG) Deck Plate to Deck Plate Diaphragm CJP Weld; ZPMC Quality Control (QC) is identified as Mr. Wang Jiang Ping. The welding variables recorded by QC appeared to comply with applicable WPS-B-P-2212-TC-U4b-FCM-1.

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
