

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-010882**Date Inspected:** 30-Dec-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 700**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Gu Peng, Li Yang**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:** TOWER / OBG**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance Inspector (QA) Shrikant Utekar 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:

HEAVY DOCK

This QA Inspector randomly observed the following work in progress.

SOUTH TOWER LIFT # 1

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 054069 performing Flux Cored Arc Welding process for weld SSD1-SA15D/F-4 located on PCMK the weld between P171 and P324 on skin A of South tower lift 1. ZPMC QC Mr. He Gen monitoring this welding. The welding variables recorded by QC appeared to comply with the WPS-B-T-2333-TC-P4-F.

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 053116 performing Flux Cored Arc Welding process for weld SSD1-SA15D/F-6 located on PCMK the weld between P324 and P1144 on skin A of South tower lift 1. ZPMC QC Mr. He Gen monitoring this welding. The welding variables recorded by QC appeared to comply with the WPS-B-T-2333-TC-P4-F.

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 201825 performing Flux Cored Arc

WELDING INSPECTION REPORT

(Continued Page 2 of 3)

Welding process for weld SSD1-SA17F/G-32 located on PCMK the weld between P397 and P169 on skin C of South tower lift 1. ZPMC QC Mr. He Gen monitoring this welding. The welding variables recorded by QC appeared to comply with the WPS-B-T-2333-TC-P4-F.

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 057244 performing Flux Cored Arc Welding process for weld SSD1-SA111G/H-07 located on PCMK skin C and skin D corner of South tower lift 1. ZPMC QC Mr. He Gen monitoring this welding. The welding variables recorded by QC appeared to comply with the WPS-B-T-2333-TC-P4-F.

WEST TOWER LIFT # 1

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 040736 performing Flux Cored Arc Welding process for weld WSD1-SA225F/H-16 located on PCMK the weld between P190 and P1144 on skin E of West tower lift 1. ZPMC QC Mr. Guo Peng monitoring this welding. The welding variables recorded by QC appeared to comply with the WPS-B-T-2333-TC-P4-F.

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 040759 performing Flux Cored Arc Welding process for weld WSD1-SA225F/H-18 located on PCMK the weld between P190 and P1144 on skin E of West tower lift 1. ZPMC QC Mr. Guo Peng monitoring this welding. The welding variables recorded by QC appeared to comply with the WPS-B-T-2333-TC-P4-F.

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 062126 performing Flux Cored Arc Welding process for weld WSD1-SA279 -8 located on PCMK the weld between P397 and P1144 on skin B of West tower lift 1. ZPMC QC Mr. Guo Peng monitoring this welding. The welding variables recorded by QC appeared to comply with the WPS-B-T-2333-TC-P4-F.

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 049541 performing Flux Cored Arc Welding process for weld WSD1-SA279 -10 located on PCMK the weld between P397 and P1144 on skin B of West tower lift 1. ZPMC QC Mr. Guo Peng monitoring this welding. The welding variables recorded by QC appeared to comply with the WPS-B-T-2333-TC-P4-F.

TRIAL ASSEMBLY YARD

This QA Inspector randomly observed the following work in progress.

BIKE PATH # 23

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 220063 performing Flux Cored Arc Welding process for weld 007 located on PCMK BK023-001. ZPMC QC Mr. Wang Li Yang monitoring this welding. The welding variables recorded by QC appeared to comply with the WPS-B-T-2231-TC-U4B-F.

OBG SEGMENT 6AW -6BW

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 220069 performing Flux Cored Arc Welding process for weld CA025-005 located on PCMK weld between edge panel and side panel counter weight side. ZPMC QC Mr. Feng Ya Jun monitoring this welding. The welding variables recorded by QC appeared to comply with the WPS-B-T-2232-TC-U4B-F.

WELDING INSPECTION REPORT

(Continued Page 3 of 3)

OBG SEGMENT 5BE

This Quality Assurance (QA) Inspector observed ZPMC qualified welder 054467 performing Shielded Metal Arc Welding process for weld SEG24B-006 located on PCMK weld between longitudinal diaphragm to floor beam at PP 34 cross beam side. ZPMC QC Mr. Wang Li Yang monitoring this welding. The welding variables recorded by QC appeared to comply with the WPS-345-SMAW-4G (4F) Repair.

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

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, +(86) 1500 042 2372, who represents the Office of Structural Materials for your project.

Inspected By:	Utekar,Shrikant	Quality Assurance Inspector
----------------------	-----------------	-----------------------------

Reviewed By:	Dawson,Paul	QA Reviewer
---------------------	-------------	-------------