

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:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-017580**Date Inspected:** 11-Oct-2010**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:** See below**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 and OBG Components**Summary of Items Observed:**

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

Bay 11

This QA Inspector randomly observed the following work in progress in Bay 11:

FCAW tack welding of weld joints BK004A5-023-036, 037 located on PCMK BK004A-023. Welder was identified as 040736. QC was identified as ZPMC CWI Ye Yong Jun (QC1). Assisting QC1 at this location and appearing to be monitoring the welding and recording data was ZPMC QC Mao Bin Bin (QCA1), who was not a CWI. Welding variables recorded by QCA1 appeared to comply with WPS-B-T-2132.

SMAW tack welding of weld joints BK005A4-003-066, 067 located on PCMK BK005A-003. Welder was identified as 040724. QC was identified as QC1. Assisting QC1 at this location and appearing to be monitoring the welding and recording data was QCA1, who was not a CWI. Welding variables recorded by QCA1 appeared to comply with WPS-B-P-2112.

SMAW tack welding of weld joints BK004A6-017-002 located on PCMK BK004A-017. Welder was identified as 040724. QC was identified as QC1. Assisting QC1 at this location and appearing to be monitoring the welding and recording data was QCA1, who was not a CWI. Welding variables recorded by QCA1 appeared to comply with WPS-B-P-2112.

Bay 10

WELDING INSPECTION REPORT

(Continued Page 2 of 3)

This QA Inspector randomly observed no welding related work in progress in Bay 10.

OBG Trial Assembly Area

This QA Inspector randomly observed the following work in progress in the OBG Trial Assembly Area:

ZPMC workers were match drilling, using magnetically attached drill presses, into OBG 10CE FL3 and CB14 bottom plates through previously drilled holes in the overlapping splice plate.

SMAW tack welding of traveler rail bracket bottom flange to vertical tube steel, performing fit-up while leveling the flange, at various locations located on OBG 10BE and 10 CE. Welder was identified as 057184. QC was identified as ZPMC CWI Shi Lei (QC2). Welding variables recorded by QC2 appeared to comply with WPS-B-T-2112 as identified by QC2.

FCAW repair welding of weld joint SEG064C-006 located on PCMK 10CE, panel point 94, east side of floor beam web to longitudinal diaphragm top flange. Welder was identified as 047353. QC was identified as QC2. Welding variables recorded by QC2 appeared to comply with WPS-345-FCAW-1G(1F)-FCM-repair-1 as listed on ZPMC Weld Repair Report B-WR15764 and attached to ZPMC Ultrasonic Testing Report B787-UT-16306 as presented to this QA Inspector and verbalized by QC2.

Heavy Dock

This QA Inspector randomly observed the following on the Heavy Dock:

All 4 towers, lift 3 were connected and positioned vertically on a base pedestal at end of the Heavy Dock. East, south, west, and north towers, lift 4 were positioned on top of east, south, west, and north towers, lift 3, respectively, on the Heavy Dock. The ZPMC 4000 ton was moored to the end of the Heavy Dock and rigged to the top of the joined lifts 4. ZPMC personnel were working on the west tower, lift 3/ lift 4 joint, disconnecting and removing bolt sets connecting the splice plate and lift 4. Other ZPMC personnel were working on the south tower, 119M level, disconnecting bolt sets at both lower flange strut connection plates. The ZPMC 1300 ton floating crane was moored to the Heavy Dock and sitting idle.

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

Summary of Conversations:

As noted above.

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 Micheal Ng, 159-2184-5703, who represents the Office of Structural Materials for your project.

Inspected By: Goulet, George

Quality Assurance Inspector

WELDING INSPECTION REPORT

(Continued Page 3 of 3)

Reviewed By: Clifford, William

QA Reviewer