

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-024234**Date Inspected:** 03-Jun-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 1500**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 300**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** ShangHai, China**CWI Name:** Shi Yu**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:**

Summary of Items Observed: On this date Caltrans OSM Quality Assurance(QA) Inspector, DJ Shin was present during the times noted above for observations relative to the work being performed.

Bay 1

This QA Inspector observed the following work in progress for Bay 1.

ZPMC perform FCAW welding on lifting lug and grinding work on the hand rail and lifting lug,

Bay 6

This QA Inspector observed the following work in progress for Bay 6.

ZPMC perform grinding work on the Bike Path BK3003 and BK3004,

Bay 9

This QA Inspector observed the following work in progress for Bay 9

ZPMC perform grinding work on U-Rib splice channel.

Bay 11

This QA Inspector observed the following work in progress for Bay 11

ZPMC performed fit up in process on BK012A.

Bay 14

Heat straightening of PCMK, TR3001TR2, TR3021TR1 under approved Heat Straightening procedure, HSR 1

WELDING INSPECTION REPORT

(Continued Page 2 of 3)

(B)-10294, 10278, The in process temperature was at the time of this observation witnessed at less than 600°C. The ZPMC QC was identified as Jang Lin. The approved HSR procedure stated that a maximum temperature of 650°C with 1-3 applications. The distortion that was previously measured and recorded on the HSR was Maximum 8mm.

This QA inspector performed Magnetic Particle Testing (MT) and Visual Inspection (VT) of approximately 15 % of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an MT report for this date. The member(s) is/are identified as follows; U-Rib splice channel on item number 1 of NWIT tracker document # 09353,

Bay 16

This QA Inspector observed the following work in progress for Bay 16. ZPMC was using the Shield Metal Arc Welding (SMAW) process on lifting lug and Grind work on steel barrier.

Bay 19

This QA Inspector observed the following work in progress for Bay 19. ZPMC was using the Shield Metal Arc Welding (SMAW) process. ZPMC QC is identified as Jang Lin. Welding variables recorded by QC appeared to comply with the approved Welding Procedure Specification (WPS). Listed below are the locations that were identified by this QA inspector

Components: Suspender Bracket
PCMK: SA6031-seal plate
Welder: 259629
WPS-B-P-2112

This QA Inspector observed the following work in progress for Bay 19. ZPMC was using the Flux Core Arc Welding (FCAW) process. ZPMC QC is identified as Jang Lin. Welding variables recorded by QC appeared to comply with the approved Welding Procedure Specifications (WPS). Listed below are the locations that were identified by this QA inspector.

Components: Bike Path
PCMK: BK25A4-001-125,126
Welder: 062806
WPS-B-T-2132-ESAB

PCMK: BK25A4-001-038,039
Welder: 062757
WPS-B-T-2132-ESAB

PCMK: BK25A4-001-003,004
Welder: 500909

WELDING INSPECTION REPORT

(Continued Page 3 of 3)

WPS-B-T-2134-ESAB

Unless otherwise noted, all work observed on this date 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 15000422372, who represents the Office of Structural Materials for your project.

Inspected By:	Shin,DJ	Quality Assurance Inspector
Reviewed By:	Riley,Ken	QA Reviewer
