

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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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-018655**Date Inspected:** 25-Oct-2010**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:** Tian Lei**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 was using the Flux Core Arc Welding (FCAW) process.

ZPMC QC is identified as Xiang Feng Feng.

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: Barrier Rail

PCMK: E2-SB5-025-126~131

Welder: 203716

WPS-B-T-2132-3

PCMK: E2-SB1-035-001~012

Welder: 216575

WPS-B-T-2133

PCMK: E2-SB1-035-001~012

Welder: 215082

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WPS-B-T-2133

Bay 2

This QA Inspector observed the following work in progress for Bay 2.

ZPMC was using the Flux Core Arc Welding (FCAW) process.

ZPMC QC is identified as Zhu Jun.

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: Floor Beam

PCMK: FB3049-001-119,120,

Welder: 201583

WPS-B-T-2132-3

PCMK: FB3343-001-246

Welder: 045175

Report: B-WR16134

WPS-345-FCAW-2G (2F)-Repair-1

PCMK: FB3343-001-025

Welder: 045240

Report: B-WR16152

WPS-345-FCAW-2G (2F)-Repair-1

This QA Inspector observed the following work in progress for Bay 2.

ZPMC was using the Submerged Arc Welding (SAW) process.

ZPMC QC is identified as Zhu Jun.

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: Floor Beam

PCMK: LD3048-001-007

Welder: 045265

Report: B-CWR2073

WPS-345-SAW-1G (1F)-Repair

Heat straightening of PCMK, LD3051-001, under approved Heat Straightening procedure,

HSR1(B)-9506, The in process temperature was at the time of this observation witnessed at less than 600°C. The

ZPMC QC was identified as Zhu Jun. 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 17mm.

Bay 3

This QA Inspector observed the following work in progress for Bay 3.

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ZPMC was using the Flux Core Arc Welding (FCAW) process.

ZPMC QC is identified as Wang Lian.

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.

PCMK: RS3064A-001-001

Welder: 050242

WPS-B-T-2231-TC-U4b-F

PCMK: RS3064A-002-001

Welder: 055564

WPS-B-T-2231-TC-U4b-F

This QA inspector performed Ultrasonic Testing (UT) and Visual Inspection (VT) of approximately 10 % of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an UT report for this date. The member(s) is/are identified as follows; FB3286-001, for item number 1 of NWIT tracker document # 07097.

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.

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Inspected By:	Shin,DJ	Quality Assurance Inspector
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Reviewed By:	Carreon,Albert	QA Reviewer
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