

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-022875**Date Inspected:** 03-Apr-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:** Sha Zhi**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 10

This QA Inspector observed the following work in progress for Bay 10.

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

ZPMC QC is identified as Li 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: Bike Path

PCMK: BK17B-001-020

Welder: 050295

WPS-B-T-2221-TC-U4A-S-3

This QA Inspector observed the following work in progress for Bay 10.

ZPMC was using the Shield Metal Arc Welding (SMAW) process.

ZPMC QC is identified as Zhang 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

WELDING INSPECTION REPORT

(Continued Page 2 of 4)

Components: Bike Path
PCMK: BK17C-001-066
Welder: 040581
WPS-B-T-2223-TC-U4C

Heat straightening of PCMK, 25TR1& 28TR1, under approved Heat Straightening procedure, HSR 1 (B)-10254 & 10186, The in process temperature was at the time of this observation witnessed at less than 600°C. The ZPMC QC was identified as Li 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 4mm.

Bay 11

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

ZPMC was using the Shield Metal Arc Welding (SMAW) process.

ZPMC QC is identified as Wang Chuang Xin.

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: Traveler Rail
PCMK: 33TR1-001-009
Welder: 046769
WPS-B-P-2212-TC-U5b

PCMK: 33TR1-001-010
Welder: 040614
WPS-B-P-2212-TC-U5b

PCMK: 33TR1-001-011,012
Welder: 046704
WPS-B-P-2212-TC-U5b

PCMK: 28TR1-002-009
Welder: 040614
WPS-B-P-2212-TC-U5b

PCMK: 32TR1-001-009
Welder: 202354
WPS-B-P-2212-TC-U5b

PCMK: 25TR1-002-008
Welder: 044551
WPS-B-P-2212-TC-U5b

PCMK: 35TR1-001-20
Welder: 044541

WELDING INSPECTION REPORT

(Continued Page 3 of 4)

Report: B-WR20579
WPS-345-SMAW-1G (1F)-Repair

PCMK: 35TR1-001-19
Welder: 044541
Report: B-WR20579
WPS-345-SMAW-1G (1F)-Repair

PCMK: 32TR1-001-20
Welder: 044541
Report: B-WR20579
WPS-345-SMAW-1G (1F)-Repair

Trial Assembly Yard

This QA Inspector observed the following work in progress for Trial Assembly Yard.

ZPMC was using the Shield Metal Arc Welding (SMAW) process.

ZPMC QC is identified as Zhan Hai 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: 13AW
PCMK: SEG3013J-043
Welder: 069683
WPS-B-P-2214-TC-U4b-FCM-1

PCMK: SEG3013AA-110
Welder: 047864
Report: B-WR 20525
WPS-345-SMAW-4G (4F)-FCM-Repair

PCMK: SEG3013R-177
Welder: 067609
WPS-B-T-4213-TC-U4b-FCM-1

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

WELDING INSPECTION REPORT

(Continued Page 4 of 4)



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
