

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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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-016380**Date Inspected:** 24-Aug-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:****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:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector Umesh Gaikwad 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:

OBG Bay 09, Deck Panel 14E-DP3163(PL3439A)-001

This QA inspector performed conventional Ultrasonic Testing (UT) Inspection on deck panel tack weld areas. The inspection is preliminary prior to using the phased array (PAUT) testing system to verify indications found with conventional Ultrasonic testing. QA inspector performed UT on deck panel 14E-DP3163(PL3439A/B)-001, 8 ribs, 16 welds, 184 total tack welds inspected.

Weld 001 scanned 23 locations with 4 indications.

Weld 002 scanned 23 locations with 2 indications.

Weld 003 scanned 23 locations with 4 indications.

Weld 004 scanned 23 locations with 4 indications.

Weld 005 scanned 23 locations with 0 indications.

Weld 006 scanned 23 locations with 1 indication.

Weld 007 scanned 23 locations with 0 indication.

Weld 008 scanned 23 locations with 1 indication.

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OBG Bay 09, Deck Panel 14E-DP3163(PL3394A/B)-001

QA Inspector performed initial Phased Array Ultrasonic Testing (PAUT) following the guide lines of UT procedure titled “Phased Array Ultrasonic Testing for the Detection and Sizing of Suspected Planar Discontinuities (Cracks) in PJP Welds, # UT 04-0120F4 PJP Rib Weld” after conventional UT was performed on tack welded areas of the Partial Joint Penetration (PJP) welds joining u-ribs to deck plate. The deck panels examined are as follows:

DP3163-001: 5 tack weld location found compliant and 13 tack weld location found non-compliant.

Tack weld locations found non-compliant are marked on U-rib and deck plate for ZPMC’s reference for repair. See Caltrans U-rib to Deck Panel- Tack Weld Assessment sheets dated 24th August, 2010 for further information on PAUT inspections.

OBG Bay 09, Deck Panel 14E-DP3167-001

QA Inspector performed initial Phased Array Ultrasonic Testing (PAUT) following the guide lines of UT procedure titled “Phased Array Ultrasonic Testing for the Detection and Sizing of Suspected Planar Discontinuities (Cracks) in PJP Welds, # UT 04-0120F4 PJP Rib Weld” after conventional UT was performed on tack welded areas of the Partial Joint Penetration (PJP) welds joining u-ribs to deck plate. The deck panels examined are as follows:

DP3167-001: 4 tack weld location found compliant and 13 tack weld location found non-compliant.

Tack weld locations found non-compliant are marked on U-rib and deck plate for ZPMC’s reference for repair. See Caltrans U-rib to Deck Panel- Tack Weld Assessment sheets dated 24th August, 2010 for further information on PAUT inspections.

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

Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

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:	Gaikwad,Umesh	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer
