

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-002012**Date Inspected:** 17-Apr-2008**Project Name:** SAS Superstructure**OSM Arrival Time:** 2300**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 730**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Island**CWI Name:** Chen Xi**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 and Tower**Summary of Items Observed:**

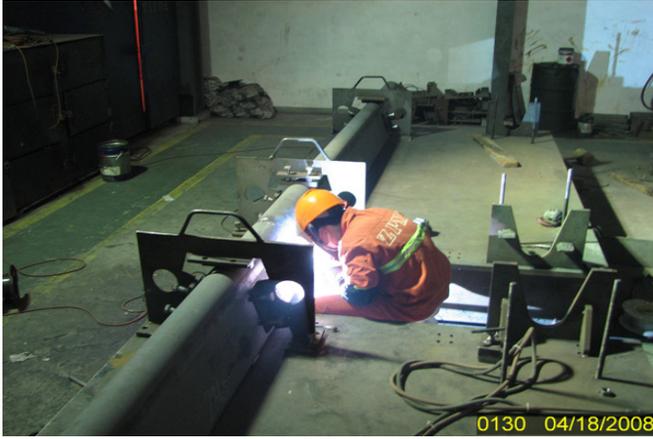
Caltrans Quality Assurance (QA) Inspector, Larry Viars was present observe production welding of the deck plate U-rib splice welds and perform random Visual Testing (VT) of the Orthotropic Box Girder (OBG) and Tower components, for the San Francisco Oakland Bay Self Anchored Suspension Bridge, at Zhenhua Port Machinery Company (ZPMC) facility on Changxing Island.

The Caltrans QA Inspector observed ZPMC welder Mr. Zhao Chengshuang performing Flux Cored Arc Welding (FCAW) on U-rib Complete Joint Penetration (CJP) splice welds DP219-001-192 and DP219-001-193 in the 1G position. Splice welds were back gouged to sound metal, ground smooth, and welding completed. The following parameters were recorded from weld DP219-001-193, amperage 210, voltage 24, travel speed of 110 mm/min., with a heat input of 2.75 kJ/mm. The above mentioned welding appeared to be in conformance with the posted welding procedure specification, WPS-B-T-2233-B-U2-F. Please see the attached photo of the above mentioned welding.

The Caltrans QA Inspector observed ZPMC welder Mr. Xue Yian performing Submerged Arc Welding (SAW) in the 1G position on east tower skin plate Complete Joint Penetration (CJP) weld joint ESD1-SA216 A/K-16 "B" side P1303E to P1318E. The following parameters were recorded, amperage 687, voltage 32.8, travel speed of 660 with a heat input of 2.04 kJ/mm. The above mentioned welding appeared to be in conformance with the posted welding procedure specification, WPS-B-T-2221-B-U3C-S.

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Summary of Conversations:

No relevant conversations occurred this date.

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 Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural Materials for your project.

Inspected By:	Viars,Larry	Quality Assurance Inspector
Reviewed By:	Cuellar,Robert	QA Reviewer
