

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:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-002556**Date Inspected:** 20-May-2008**Project Name:** SAS Superstructure**OSM Arrival Time:** 1400**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 2330**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name:	N/A	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 Deck Panels	

Summary of Items Observed:

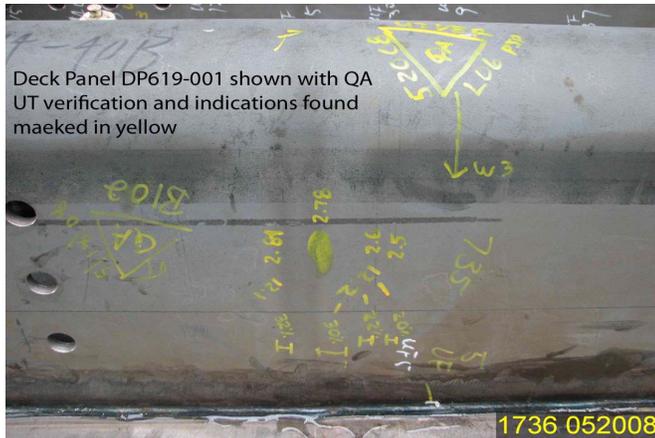
CALTRANS Quality Assurance (QA) Inspector, Erik Prue was present for the fabrication scheduled for this project at the ZPMC facility in Shanghai, China for the San Francisco Oakland Bay Self Anchored Suspension Bridge.

OBG Bay 1: QA inspector performed ultrasonic testing (UT) verification before ZPMC Quality Control (QC) UT inspections on partial penetration joints of deck panel DP619-001 weld joints 2 & 3. QA UT inspected 15% of the total weld length of weld joints listed above. QA Inspector found lack of penetration indications that result in depth of penetration less than the minimum of 9.6 mm required on weld joints for deck panel DP619-001. For details on UT inspections see modified TL-6027 UT Inspection reports dated 20 May, 2008.

Tower Bay 2: QA Inspector observed ZPMC QC UT Inspectors perform ultrasonic testing (UT) of skin plate Complete Joint Penetration (CJP) butt joints WSD1-SA653 A/F-1A and WSD1-SA653 A/F-2A. QA Inspector UT tested skin plates after QC UT acceptable inspection. QA Ultrasonic Testing (UT) was performed to verify that a minimum of 10% of the weld meets the requirements of the contract documents and AWS D1.5-2002. The weld and base metal were scanned utilizing a Krautkramer Branson USN 60 #01RN5T. QA Inspector performed a base metal lamination check using a 25mm diameter 2.25 MHz transducer and a shear wave scan using a 20mm x 15mm 2.25 MHz transducer on a 70 and 45 degree angle wedges from face A. QA Inspectors verification found QC UT inspection method and welds inspected to be in compliance with AWS D1.5 (02) and the contract documents. For details please see the ultrasonic testing report TL-6027 dated 20 May, 2008.

WELDING INSPECTION REPORT

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Summary of Conversations:

No significant conversations this day.

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 Patrick Lowry, 858 344-2712, who represents the Office of Structural Materials for your project.

Inspected By:	Prue,Erik	Quality Assurance Inspector
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Reviewed By:	Carreon,Albert	QA Reviewer
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