

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-006614**Date Inspected:** 23-Apr-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1845**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 645**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

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|------------------------------------|------------|----------------------------------|---------------|----|
| 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 and Tower | |

Summary of Items Observed:

Summary of Items Observed: On this date Caltrans OSM Quality Assurance (QA) Inspector, Larry Viars was present during the times noted above for observations relative to the work being performed.

OBG repair area west of Bay 19-

This QA Inspector performed Phased Array Ultrasonic Testing (PAUT) of OBG deck panel u-rib Partial Joint Penetration (PJP) welds at tack weld locations after weld repair. Testing was performed in accordance with Caltrans UT procedure "Phased Array Testing for detection of planar discontinuities (cracks) in PJP welds.

Results of Deck Panels evaluated are as follows:

DP120-001 (8BW): 48 locations tested with 6 rejected (R1).

DP336-002 (8BE): 2 locations tested with 1 rejected (R1).

This QA inspector performed Magnetic Particle Testing (MT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an MT report for this date. The members are identified as OBG Deck panels, DP364-001, DP146-001, DP228-001, DP119-002, DP335-002 and DP119-001. The weld identification numbers were DP364-001 welds 001 through 010, DP146-001 welds 001 through 010, DP228-001 welds 001 through 010, DP119-002 welds 001 through 008, DP335-002 welds 001 through 008 and DP119-001 welds 001 through 008.

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Bay 5-

This QA inspector performed Ultrasonic Testing (UT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an UT report for this date. The member are identified as BK001-008, BK001-009, BK001-010, BK001-011 and BK001-014. The weld identification number is as follows: BK001-008-002, BK001-009-001, BK001-010-002, BK001-011-002, 003 and BK001-014-001.

Bay 10-

This QA inspector performed Visual Testing (VT) of welds previously accepted by ZPMC and ABF Quality Control personnel. The member is identified South Tower Lift 1 of angle and channel beam welds at the 9 and 13 meter mark.

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

Summary of Conversations:

Only general conversations between QC and QA 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 Eric Tsang 150 0042 2372, who represents the Office of Structural Materials for your project.

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| Inspected By: | Viars,Larry | Quality Assurance Inspector |
| Reviewed By: | Carreon,Albert | QA Reviewer |
