

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-010267**Date Inspected:** 31-Oct-2009**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:** Mr. You qi guo**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:** Tower**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance(QA) Inspector, Baskar Govindarajan, was present during the times noted above for observations relative to the work being performed.

Trial assembly area (Heavy dock jetty)

1. This QA inspector, Baskar Govindarajan, observed, ZPMC qualified welding personnel identified as 059525 perform FCAW welding on, base plate to Skin E stiffener, East tower, lift 1. The weld joint identified as ESD1-A167 B/H- 112. ZPMC CWI Identified as Mr. You qi guo. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS- B-T-2332-TC-P5-F

2. This QA inspector, Baskar Govindarajan, observed, ZPMC qualified welding personnel identified as 202821 perform FCAW welding on, base plate to Skin E stiffener, inside East tower, lift 1. The weld joint identified as ESD1- A167- B/H- 116. ZPMC CWI Identified as Mr. You qi guo. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2332-TC-P5-F

Machining area

3. This QA inspector, Baskar Govindarajan, observed, ZPMC qualified welding personnel identified as 037840 perform SMAW repair welding on, 109 mtr. Top diaphragm, AE corner back fill plate in North tower, Lift 3. The weld joint identified as NSTL3- 3 I/K-142. ZPMC CWI Identified as Mr. Gong giang zhu. The welding

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parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-345-SMAW- 2G(2F)-repair.

Magnetic Particle Testing:

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 a TL-6028 MT report for this date. The member is identified as south tower, Lift 3, 89, 99 and 109 mtr. Diaphragm Gusset plate, base plate and diagonal stiffeners on Skin A, B, C, D and E. The weld designations reviewed are as follows:

SSD1-FBSA3-1 B/C – Jt. nos. 15,16,3,7,5,4 – Gusset plates

SSTL3- 1 C/K–Jt.nos.- 48, 49 – web plate

SSTL3- 1 G/K–Jt.nos.- 59, 60 – web plate

SSTL3- 1 I/K–Jt.nos.- 48, 49 – web plate

SSTL3- 1 C/K-Jt. nos - 95, 105 – Diagonal stiffeners

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

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 Serge, Sinevod - 134-8257-0045, who represents the Office of Structural Materials for your project.

Inspected By:	Baskar, Govindarajan	Quality Assurance Inspector
Reviewed By:	Clifford, William	QA Reviewer
