

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-010276**Date Inspected:** 06-Nov-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. Du zhi qua**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.

Machining area

1. This QA inspector, Baskar Govindarajan, observed, ZPMC qualified welding personnel identified as 040343 perform FCAW repair welding on, AB corner in North tower, Lift 3. The weld joint identified as NSTL3- 3 B/K-83A. ZPMC CWI Identified as Mr. Du zhi qua. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-345-SMAW- 1G (1F)-repair.

2. This QA inspector, Baskar Govindarajan, observed, ZPMC qualified welding personnel identified as 040491 perform SMAW repair welding on, 85.25 mtr. Diaphragm fit lugs, in south tower, Lift 3. The weld joint identified as SSSL3- 1 B/K-58. ZPMC CWI Identified as Mr. Lin zhong an. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-345-SMAW- 4G (4F)-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, 111.67 mtr, 105.5 mtr., 109 mtr Diaphragm fit lugs and diaphragm to Skin D. The weld designations reviewed are as follows:

WELDING INSPECTION REPORT

(Continued Page 2 of 2)

SSTL3- 1 J/K – Jt. nos. 69,70,71,72,73 – Skin D – 111.67 mtr.
SSTL3-1 H/K -Jt.nos. 144,145,146,147,148 – skin D-105.5 mtr.
SSTL3- 1 I/K- Jt. no. 74,75,76,165,166,167,167,91,157,162 –Skin D -109 mtr.
SSTL3- 1 B/K- Jt. no. 60,61,62,55,56 –Skin D -85.25 mtr
SSTL3- 1 H/K- Jt. no. 65,66,67,63,64 –Skin D -102.5 mtr

Ultrasonic Testing:

This QA inspector, Baskar Govindarajan, performed Ultrasonic Testing (UT) of approximately 10% of the area previously tested and accepted at Tower components by ZPMC Quality Control personnel. This QA Inspector generated a TL-6027 UT report for this date. The member is identified as Back fill plate at outside yard, North tower, Lift 3. The weld designation reviewed is as follows:

NSTL3- 3 I/K - Jt. no – 55 – Back fill plate
NSTL3 – 3 G/K – Jt. no. 15,142 – Back fill plate
NSTL3 – 3 D/K – Jt. no. 51 – Back fill plate
NSTL3 – 3 C/K – Jt. no. 90 – Back fill plate

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
