

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:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-022298**Date Inspected:** 16-Mar-2011**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:** Xu Le Feng**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 & TOWER Components**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials Quality Assurance Inspector, Sandeep Kumar (QA) was present during the times noted above for observations relative to the work being performed.

BAY#10

The following Non Destructive Testing (NDT) inspection carried out as per the ZPMC submitted Notification No. 08554

Magnetic Particle Testing (MT)

This QA inspector performed MT of the area previously tested and accepted by ZPMC Quality Control personnel.

This QA Inspector generated an MT report for this date. The member is identified as TOWER Component. The weld designation reviewed as follows:

LIFT-6, TOWER

NSD1-TL6-3B/D-67

NSD1-TL6-3C/D-08

The following Non Destructive Testing (NDT) inspection carried out as per the ZPMC submitted Notification No. 08555

Magnetic Particle Testing (MT)

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This QA inspector performed MT of the area previously tested and accepted by ZPMC Quality Control personnel.

This QA Inspector generated an MT report for this date. The member is identified as TOWER Component. The weld designation reviewed as follows:

LIFT-6 TOWER

NSD1-A802D/D-100~102

SSD1-A434D/D-100~102

The following Non Destructive Testing (NDT) inspection carried out as per the ZPMC submitted Notification No. 08557

Magnetic Particle Testing (MT)

This QA inspector performed MT of the area previously tested and accepted by ZPMC Quality Control personnel.

This QA Inspector generated an MT report for this date. The member is identified as TOWER Component. The weld designation reviewed as follows:

LIFT-6 TOWER

NSD1-FFSA6-3-13; 14

The following Non Destructive Testing (NDT) inspection carried out as per the ZPMC submitted Notification No. 08558

Ultrasonic Testing (UT)

This QA inspector performed UT of the area previously tested and accepted by ZPMC Quality Control personnel.

This QA Inspector generated an UT report for this date. The member is identified as OBG Component. The weld designation reviewed as follows:

BIKE PATH

BK15B-001-015; 017; 019

This QA Inspector observed the following work in progress

Shielded Metal Arc Welding (SMAW):

Repair welding of a weld joint #011 located on Bike path BK15A-001 as per the weld repair report # B-WR20424.

Welder is identified as 040581. ZPMC Quality Control (QC) Inspector is identified as Sun Zi Wang. The welding variables recorded by QC appeared to comply with the WPS-345-SMAW-3G (3F)- REPAIR.

Weld joint #016 located on Traveler Rail 29TR1. Welder is identified as 050038. ZPMC Quality Control (QC) Inspector is identified as Xu Jie. The welding variables recorded by QC appeared to comply with the WPS-B-P-2212-Tc-U5b.

Repair welding of a weld joint #013 located on Bike path BK15A-001 as per the weld repair report # B-WR20424.

Welder is identified as 040581. ZPMC Quality Control (QC) Inspector is identified as Sun Zi Wang. The welding variables recorded by QC appeared to comply with the WPS-345-SMAW-3G (3F)- REPAIR. (See attached photo)

Flux Cored Arc Welding (FCAW):

Weld joint #016 located on Bike path BK17B-001. Welder is identified as 057266. ZPMC Quality Control (QC) Inspector is identified as Sun Zi Wang. The welding variables recorded by QC appeared to comply with the WPS-B-T-2231-ESAB.

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Repair welding of a weld joint #016 located on Bike path BK16B-001 as per the weld repair report # B-WR20396. Welder is identified as 040533. ZPMC Quality Control (QC) Inspector is identified as Sun Zi Wang. The welding variables recorded by QC appeared to comply with the WPS-345-FCAW-1G (1F)-ESAB-REPAIR.

Weld joint #005 located on Bike path BK17B-001. Welder is identified as 057266. ZPMC Quality Control (QC) Inspector is identified as Sun Zi Wang. The welding variables recorded by QC appeared to comply with the WPS-B-T-2231-ESAB.

Repair welding of a weld joint #017 located on Bike path BK16B-001 as per the weld repair report # B-WR20396. Welder is identified as 040367. ZPMC Quality Control (QC) Inspector is identified as Sun Zi Wang. The welding variables recorded by QC appeared to comply with the WPS-345-FCAW-1G (1F)-ESAB-REPAIR. (See attached photo)

Weld joint #017 located on Bike path BK17B-001. Welder is identified as 057266. ZPMC Quality Control (QC) Inspector is identified as Sun Zi Wang. The welding variables recorded by QC appeared to comply with the WPS-B-T-2231-ESAB.

Weld joint #001 located on Bike path BK3001-001. Welder is identified as 040365. ZPMC Quality Control (QC) Inspector is identified as Sun Zi Wang. The welding variables recorded by QC appeared to comply with the WPS-B-T-2231-ESAB.

BAY#11

The following Non Destructive Testing (NDT) inspection carried out as per the ZPMC submitted Notification No. 08554

Magnetic Particle Testing (MT)

This QA inspector performed MT of the area previously tested and accepted by ZPMC Quality Control personnel.

This QA Inspector generated an MT report for this date. The member is identified as TOWER Component. The weld designation reviewed as follows:

TOWER SKIRT PLATE

ESD1-A63D/D-100~102

WSD1-A801D/D-100~102

ED1-A149A/C-242; 243

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

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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 Thomas Ho - 15002048250, who represents the Office of Structural Materials for your project.

Inspected By: Kumar,Sandeep

Quality Assurance Inspector

Reviewed By: Clifford,William

QA Reviewer