

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:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-018254**Date Inspected:** 19-Nov-2010**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:** Li Yang**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 Segment**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector Mr. M. Manikandan was present during the time noted above for observations relative to the work being performed.

OBG # TRIAL ASSEMBLY YARD (11AE)

This QA Inspector witnessed the final bolt tension verification on the X3D angle at lower chevron of segment 11AE. The torque wrench S/N was XO2-114. The QA inspector witnessed 10% of the bolts on a random basis and found the tensioning of the bolts appeared to be in general compliance with the contract specifications. The panel point and bolt size designations were as follows:

PP 95 to PP 97:

M22 X 75 – DHGM 220034 – 453 NM

M22 X 65 – DHGM 220105 – 690 NM

For additional information please reference the pictures below:

OBG # TRIAL ASSEMBLY YARD (11BE)

This QA Inspector witnessed the final bolt tension verification on the X3D angle at lower chevron of segment 11BE. The torque wrench S/N was XO2-114. The QA inspector witnessed 10% of the bolts on a random basis and found the tensioning of the bolts appeared to be in general compliance with the contract specifications. The panel

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point and bolt size designations were as follows:

PP 98 to PP 100:

M22 X 75 – DHGM 220034 – 453 NM

M22 X 65 – DHGM 220105 – 690 NM

OBG # TRIAL ASSEMBLY YARD (11CE)

This QA Inspector witnessed the final bolt tension verification on the X3D angle at lower chevron of segment 11CE. The torque wrench S/N was XO2-114. The QA inspector witnessed 10% of the bolts on a random basis and found the tensioning of the bolts appeared to be in general compliance with the contract specifications. The panel point and bolt size designations were as follows:

PP 101 to PP 103:

M22 X 75 – DHGM 220034 – 453 NM

M22 X 65 – DHGM 220105 – 690 NM

OBG # TRIAL ASSEMBLY YARD (11DE)

This QA Inspector witnessed the final bolt tension verification on the X3D angle at lower chevron of segment 11DE. The torque wrench S/N was XO2-114. The QA inspector witnessed 10% of the bolts on a random basis and found the tensioning of the bolts appeared to be in general compliance with the contract specifications. The panel point and bolt size designations were as follows:

PP 104 to PP 106:

M22 X 75 – DHGM 220034 – 453 NM

M22 X 65 – DHGM 220105 – 690 NM

OBG # TRIAL ASSEMBLY YARD (11EE)

This QA Inspector witnessed the final bolt tension verification on the X3D angle at lower chevron of segment 11EE. The torque wrench S/N was XO2-114. The QA inspector witnessed 10% of the bolts on a random basis and found the tensioning of the bolts appeared to be in general compliance with the contract specifications. The panel point and bolt size designations were as follows:

PP 107 to PP 108:

M22 X 75 – DHGM 220034 – 453 NM

M22 X 65 – DHGM 220105 – 690 NM

OBG # TRIAL ASSEMBLY YARD (12BW)

This QA Inspector along with QA inspector Mr. Manjunath S Math performed dimensional joint survey inspection after heat straightening on the floor beam to verify the flatness using 1500mm straight edge. The measurements were recorded on a separate sheet and forwarded to team leader for review and disposition. The segment and panel

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point designations were as follows:

Segment 12BW – PP 114

OBG # TRIAL ASSEMBLY YARD (11DE)

This QA Inspector along with QA inspector Mr.Manjunath S Math performed dimensional joint survey inspection after heat straightening on the floor beam to verify the flatness using 1500mm straight edge. The measurements were recorded on a separate sheet and forwarded to team leader for review and disposition. The segment and panel point designations were as follows:

Segment 11DE – PP 104, 105 and PP 106

OBG # TRIAL ASSEMBLY YARD (11EE)

This QA Inspector along with QA inspector Mr.Manjunath S Math performed dimensional joint survey inspection after heat straightening on the floor beam to verify the flatness using 1500mm straight edge. The measurements were recorded on a separate sheet and forwarded to team leader for review and disposition. The segment and panel point designations were as follows:

Segment 11EE – PP 107 and PP 108

This QA Inspector randomly observed the following work in progress:

OBG # TRIAL ASSEMBLY YARD (11CE)

The QA Inspector observed the welding operation per the SMAW process on weld joint no. 001 in the (3G) vertical position on edge panel piece mark no. OBE11A. The location was the transverse splice weld joining segment 11CE and 11DE. The welder ID was 040320. The welding was performed against welding repair report B-WR17232 Rev.0. The welding variables recorded by QC appeared to comply with the WPS-345-SMAW-3G (3F)-FCM-Repair-1.

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 were reported on 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 15000422372, who represents the Office of Structural Materials for your project.

Inspected By:	Manikandan,Murugan	Quality Assurance Inspector
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Reviewed By:	Peterson,Art	QA Reviewer
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