

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-007185**Date Inspected:** 22-May-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**CWI Name:** Wan Wen Zhong**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 Components**Summary of Items Observed:**

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

Bay 11

This QA Inspector, George Goulet, proceeded to the Bay 11 in response to a ZPMC notification of witness inspection #3109 for MT inspection of the following:

This QA Inspector, George Goulet, performed random VT and then MT of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector, George Goulet, generated an MT report for this date. The member is identified as ESD1-SA388C/D. The weld designations reviewed are as follows: 13, 14, 15, 16.

Bay 10

This QA Inspector, George Goulet, randomly observed the following work in progress in Bay 10:

FCAW welding of weld joints NSD1-FCSA3-1B/C-62, 61 located on PCMK north tower, lift 3, skin C, using the northeast gantry. Welders were identified respectively as 201825, 203977. ZPMC QC was identified as CWI Wan Wen Zhong (QC1). Assisting QC1 at this location and appearing to be monitoring the welding and recording data was ZPMC QC Inspector Wang Hao, who was not a CWI. The welding variables recorded by QC1 and his assistant appeared to comply with WPS-B-T-2332-Tc-P5-F.

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FCAW welding of weld joint NSD1-A166E/J-124A located on PCMK north tower shaft interior, lift 1, skin C to skin D, at diaphragm 47.6M. Welder was identified as 040533. ZPMC QC was identified as QC1. Also at this location and appearing to be monitoring the welding was ABF Representative Li Nan. The welding variables recorded by QC1 appeared to comply with WPS-B-T-2232-Tc-U2b-F.

FCAW welding of weld joint NSD1-A166E/J-97B located on PCMK north tower shaft interior, lift 1, skin D to skin E, at diaphragm 43M. Welder was identified as 040345. ZPMC QC was identified as QC1. Also at this location and appearing to be monitoring the welding was ABF Representative Li Nan. The welding variables recorded by QC1 appeared to comply with WPS-B-T-2232-Tc-U2b-F.

FCAW welding of weld joint NSD1-A166E/J-124A located on PCMK north tower shaft interior, lift 1, skin C to skin D, at diaphragm 38M. Welder was identified as 050041. ZPMC QC was identified as QC1. Also at this location and appearing to be monitoring the welding was ABF Representative Li Nan. The welding variables recorded by QC1 appeared to comply with WPS-B-T-2232-Tc-U2b-F.

FCAW welding of weld joint NSD1-A166E/J-97B located on PCMK north tower shaft interior, lift 1, skin D to skin E, at diaphragm 33M. Welder was identified as 057244. ZPMC QC was identified as QC1. Also at this location and appearing to be monitoring the welding was ABF Representative Li Nan. The welding variables recorded by QC1 appeared to comply with WPS-B-T-2232-Tc-U2b-F.

FCAW welding of weld joint NSD1-A112B/H-2A located on PCMK north tower shaft interior, lift 1, skin C to skin D, at diaphragm 28M. Welder was identified as 040291. ZPMC QC was identified as QC1. Also at this location and appearing to be monitoring the welding was ABF Representative Li Nan. The welding variables recorded by QC1 appeared to comply with WPS-B-T-2232-Tc-U2b-F.

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

Summary of Conversations:

As noted above, and this QA Inspector, George Goulet, asked each QC if all the welding variables observed by him appeared to comply with the appropriate WPS, including the preheat requirements according to thickness of the thickest member being welded. Each QC showed this QA Inspector, George Goulet, that he was carrying the proper temperature sticks to monitor the minimum and maximum preheat and interpass temperatures and replied that all he observed did appear to comply.

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:	Goulet,George	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer
