

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-015998**Date Inspected:** 31-Jul-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 700**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** See below**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 and OBG Components**Summary of Items Observed:**

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

Bay 11

This QA Inspector randomly observed the following work in progress in Bay 11:

SMAW welding of weld joint WSD1-TL5-4F/F-12A located on PCMK west tower, lift 5, internal connection plates. Alternating welders were identified as 067500, 066261. QC was identified as ZPMC CWI Qiu Wen (QC1).

Assisting QC1 at this location and appearing to be monitoring the welding and recording data was ZPMC QC Ma Qian Li (QCA1), who was not a CWI. Welding variables recorded by QCA1 appeared to comply with WPS-B-T-3213-TC-U5b. Also at this location and appearing to be monitoring the welding operation was ABF Representative Cui Zheng Hua.

SMAW welding of weld joint WSD1-TL5-4F/F-5B located on PCMK west tower, lift 5, internal connection plates.

Alternating welders were identified as 068924, 066416. QC was identified as QC1. Assisting QC1 at this location and appearing to be monitoring the welding and recording data was QCA1, who was not a CWI. Welding variables recorded by QCA1 appeared to comply with WPS-B-T-3213-TC-U5b. Also at this location and appearing to be monitoring the welding operation was ABF Representative Cui Zheng Hua.

SMAW welding of weld joint ESD1-TL5-2B/F-12B located on PCMK east tower, lift 5, internal connection plates.

Alternating welders were identified as 202100, 040690. QC was identified as QC1. Assisting QC1 at this

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location and appearing to be monitoring the welding and recording data was ZPMC QC Liu Dao Feng (QCA2), who was not a CWI. Welding variables recorded by QCA2 appeared to comply with WPS-B-T-3213-TC-U5b. Also at this location and appearing to be monitoring the welding operation was ABF Representative Cui Zheng Hua.

SMAW welding of weld joint ESD1-TL5-2E/F-27B located on PCMK east tower, lift 5, internal connection plates.

Alternating welders were identified as 040614, 040667. QC was identified as QC1. Assisting QC1 at this location and appearing to be monitoring the welding and recording data was QCA2, who was not a CWI. Welding variables recorded by QCA2 appeared to comply with WPS-B-T-3213-TC-U5b. Also at this location and appearing to be monitoring the welding operation was ABF Representative Cui Zheng Hua.

Bay 10

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

SMAW welding of weld joint SSD1-TL5-1B-F-14 located on PCMK south tower, lift 5, internal connection plates.

Alternating welders were identified as 057258, 050289, 500363. QC was identified at QC1. Welding variables recorded by QC1 appeared to comply with WPS-B-T-3213-TC-U4c. Also at this location and appearing to be monitoring the welding operation was ABF Representative Chi Zheng Hua.

SMAW welding of weld joint SSD1-TL5-1B-F-32B located on PCMK south tower, lift 5, internal connection plates. Welder was identified as 050289. QC was identified at QC1. Welding variables recorded by QC1 appeared to comply with WPS-B-T-3213-TC-U5b. Also at this location and appearing to be monitoring the welding operation was ABF Representative Chi Zheng Hua.

SMAW welding of weld joint SSD1-TL5-1B-F-28 located on PCMK south tower, lift 5, internal connection plates.

Welder was identified as 040581. QC was identified at QC1. Welding variables recorded by QC1 appeared to comply with WPS-B-T-3313-TC-P5. Also at this location and appearing to be monitoring the welding operation was ABF Representative Chi Zheng Hua.

SMAW welding of weld joints SSD1-TL5-1B-F-31A, 34A located on PCMK south tower, lift 5, external connection plate to skin E. Welder was identified as 057266. QC was identified at QC1. Welding variables recorded by QC1 appeared to comply with WPS-B-T-3213-TC-U5b. Also at this location and appearing to be monitoring the welding operation was ABF Representative Chi Zheng Hua.

SMAW welding of weld joint NSD1-TL5-3E-F-9B located on PCMK north tower, lift 5, internal connection plates. Alternating welders were identified as 037780, 037998. QC was identified at QC1. Welding variables recorded by QC1 appeared to comply with WPS-B-T-3213-TC-U5b. Also at this location and appearing to be monitoring the welding operation was ABF Representative Chi Zheng Hua.

SMAW welding of weld joint NSD1-TL5-3E-F-15A located on PCMK north tower, lift 5, internal connection plates. Alternating welders were identified as 066418, 066763. QC was identified at QC1. Welding variables recorded by QC1 appeared to comply with WPS-B-T-3213-TC-U5b. Also at this location and appearing to be monitoring the welding operation was ABF Representative Chi Zheng Hua.

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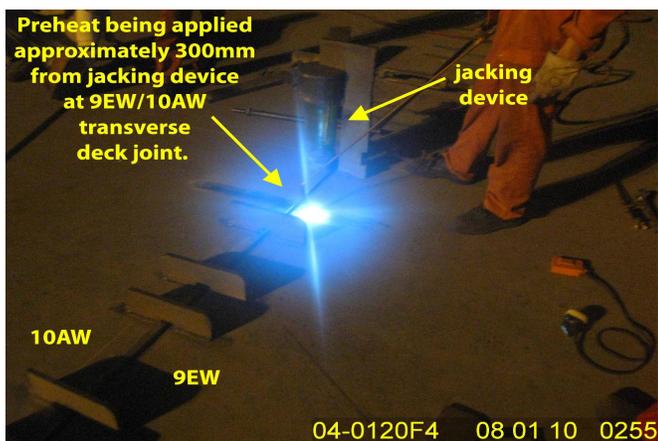
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OBG Trial Assembly Area

This QA Inspector randomly observed the following work in progress in the OBG Trial Assembly Area:

FCAW welding of temporary alignment plates located outside, across PCMK 9EW/10AW transverse joint, deck plate to deck plate. See photos below. Welders were identified as 040609, 202384. QC was identified as ZPMC CWI Liu Hua Jie (QC2). Welding variables recorded by QC2 appeared to comply with WPS-B-T-2132.

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



Summary of Conversations:

Summary of Conversations: No significant 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 Micheal Ng, 159-2184-5703, who represents the Office of Structural Materials for your project.

Inspected By: Goulet, George

Quality Assurance Inspector

Reviewed By: Dawson, Paul

QA Reviewer