

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave. St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

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-004652**Date Inspected:** 18-Nov-2008**Project Name:** SAS Superstructure**OSM Arrival Time:** 630**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1430**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Sun Bo / Sun Wei**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 Shop Components**Summary of Items Observed:**

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

Bay 3 – New Tower Shop

This QA Inspector randomly observed ZPMC welding and quality control personnel performing inspection, grinding, and Flux Core Arc Welding (FCAW) repairs of Orthotropic Box Girder (OBG) deck panel Partial Joint Penetration (PJP) welds. The deck panels in repair process are designated as: DP484-001, DP333-001, and DP280-001.

In process deck panel repairs appear to be progressing in compliance with Caltrans Engineer Approved Repair Procedure.

Bay 2 – New Tower Shop

This QA Inspector randomly observed ZPMC qualified welding personnel performing groove welding of weld joint WSD1-SA80 filler passes. The personnel were observed welding in the 1G (flat) position utilizing a Submerged Arc Welding (SAW) process.

This QA Inspector observed ZPMC welding personnel performing Flux Core Arc Welding (FCAW) of interior corner splice plate welds on WSD1-SA176 and WSD1-SA355. In process FCAW appears to be progressing in compliance with Caltrans Engineer Approved welding procedure.

WELDING INSPECTION REPORT

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This QA Inspector observed ZPMC welding personnel performing in gantry Flux Core Arc Welding (FCAW) of longitudinal stiffener plate welds on East Lift 2 / Skin D. In process FCAW appears to be progressing in compliance with Caltrans Engineer Approved welding procedure.

This QA Inspector observed ZPMC welding personnel performing Flux Core Arc Welding (FCAW) of Complete Joint Penetration (CJP) weld joints connecting longitudinal stiffener plates to skin plate ESD1/Skin D/Lift 2. In process FCAW appears to be progressing in compliance with Caltrans Engineer Approved welding procedure.

This QA Inspector randomly observed ZPMC qualified welding personnel performing groove welding of weld joint WSD1-SA653A/F-9 filler passes. The personnel were observed welding in the 1G (flat) position utilizing a Submerged Arc Welding (SAW) process.

This QA Inspector observed ZMPC welding personnel performing Flux Core Arc Welding (FCAW) of weld joints connecting longitudinal stiffener plates to bearing plate component East Shaft / Lift 2 / Skin A. In process FCAW appears to be progressing in compliance with Caltrans Engineer Approved welding procedure.

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 Peter Dautermann, (858) 232-6799, who represents the Office of Structural Materials for your project.

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| Inspected By: | Clifford,William | Quality Assurance Inspector |
| Reviewed By: | Cuellar,Robert | QA Reviewer |
