

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-023855**Date Inspected:** 16-May-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:** Mr. An Qing Xiang**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:** Orthotropic Box Girder (OBG)**Summary of Items Observed:**

This CALTRANS OSM Quality Assurance Inspector (QA) Surendra Prabhu was present during the times noted above for observations relative to the fabrication of the Self Anchored Suspension (SAS) Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island, in Shanghai, China. QA observed and/or found the following:

OBG Trial Assembly open yard.

Segment: 13BW/CW

The following Non Destructive Testing (NDT) Inspection was carried out as per the ZPMC submitted Notification No.09142.

Ultrasonic Testing (UT)

This QA performed UT of approximately 10% of the area previously tested and accepted by ZPMC Quality Control (QC) personnel. This QA generated a UT report for this date. The members are identified as OBG weld Components. Total number of welds UT tested: (34). The weld designations inspected were as follows:

1. DP3153-001-125~139,141~144,146~149
2. DP3154-001-023,026,034,037,045,048
3. DP3152-001-031,057,083,109,135

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This QA Inspector randomly observed the following work in progress:

Flux Cored Arc Welding (FCAW) repair welding of weld joint identified as SEG3014C-090. Welder is identified as 066695. ZPMC QC is identified as Mr. Sun tian liang. The welding variables recorded by QC personnel observed appeared to comply with Welding Procedure Specification (WPS): WPS-345-FCAW-3G (3F)-ESAB-repair. The repair welding was being performed as per Welding Repair Report (WRR) No: B-WR21005.

FCAW repair welding of weld joint identified as SEG3014L-091. Welder is identified as 045240. ZPMC QC is identified as Mr. Sun tian liang. The welding variables recorded by QC personnel observed appeared to comply with Welding Procedure Specification (WPS): WPS-345-FCAW-3G (3F)-ESAB-repair. The repair welding was being performed as per Welding Repair Report (WRR) No: B-WR21005.

Shielded Metal Arc Welding (SMAW) welding of weld joint identified as SEG3014S-020. Welder is identified as 040270. ZPMC QC is identified as Mr. Sun tian liang. The welding variables recorded by QC personnel observed appeared to comply with WPS: B-P-2214-TC-U4b-FCM-1.

Segment:13AW

ZPMC personnel performing flush grinding for the base metal repaired areas on deck panel. See attached photos for further details.

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



Summary of Conversations:

No significant 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.

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Inspected By:	Prabhu,Surendra	Quality Assurance Inspector
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Reviewed By:	Peterson,Art	QA Reviewer
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