

**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-019735**Date Inspected:** 16-Jan-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:** Qiu Wen.**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 components.**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance Inspector (QA) Mr. Shailesh Wadkar 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 Inspector observed and/or found the following:

Bay 14:

Notification no: 008192.

OBG Seg 13AW:

This QA inspector performed Magnetic Particle Testing (MT) of approximately 15% of an area that has been previously tested and accepted by ZPMC Quality Control (QC) personnel. This QA Inspector has generated MT report for this date. The members are identified as OBG components. The weld designations MT inspected are as follows:

- 1) DP3120-001-289, 299, 298, 306, 309, 316, 319, 326, 287, 288, 294, 295, 307, 308, 314, 315, 324, 325, 296, 297, 304, 305, 317, 318, 327, 328.
- 2) DP3121-001-333, 342, 343, 352, 355, 362, 365, 372, 375, 34, 335, 346, 347, 356, 357, 366, 367, 376, 377, 336, 337, 344, 345, 353, 354, 363, 364, 373, 374, 383, 384.
- 3) DP3122-001-289, 299, 298, 306, 309, 316, 319, 326, 287, 288, 294, 295, 307, 308, 314, 315, 324, 325, 296, 297, 304, 305, 317, 318, 327.

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# WELDING INSPECTION REPORT

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This QA Inspector observed the following work in progress:

OBG Seg 14W

Repair welding of weld joint no: SEG3020E-056 [Bottom Plate (BP) 3091A to Floor Beam (FB) 3343A, Complete Joint Penetration (CJP) weld at Panel Point (PP) 128.3]. The welder is identified as 067520 and was observed welding in the 2G position. Welding process was identified as Shielded Metal Arc Welding (SMAW). ZPMC QC was identified as Sun Tian Liang. The welding variables recorded by this QC appeared to comply with WPS: 345-SMAW-2G(2F)-FCM-Repair. Repair welding was done as per Critical Welding Repair Report (CWR): B-CWR 2734 Rev-0.

Repair welding of weld joint no: SEG3020D-052 (BP3091A to FB3343A, CJP weld at PP128.3). The welder is identified as 067520 and was observed welding in the 2G position. Welding process was identified as SMAW. ZPMC QC was identified as Sun Tian Liang. The welding variables recorded by this QC appeared to comply with WPS: 345-SMAW-2G(2F)-FCM-Repair. Repair welding was done as per CWR: B-CWR 2734 Rev-0.

The Flux Cored Arc Welding (FCAW) process on weld joint no: SEG3020G-059 (FB3340A to FB3341A, CJP weld at PP128]. The welder is identified as 201215 and was observed welding in the 1G position. ZPMC CWI was identified as Mr. An Qing Xiang. The welding variables recorded by QC appeared to comply with WPS: B-T-2231-ESAB.

The FCAW process on weld joint no: SEG3020L-022, 23, 24 (FB3327A to FB3325A, CJP weld at PP127). The welder is identified as 066695 and was observed welding in the 3G position. ZPMC QC was identified as Mr. Sun Tian Liang. The welding variables recorded by QC appeared to comply with WPS: B-T-2233-ESAB.

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; phone: 15000422372., who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Wadkar,Sailesh	Quality Assurance Inspector
<b>Reviewed By:</b>	Patterson,Rodney	QA Reviewer

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