

**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-019278**Date Inspected:** 18-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:** 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 Assembly Bay- 14.

The following Non Destructive Testing (NDT) Inspection carried out as per the ZPMC submitted Notification No. 08216.

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: 4 No's. The weld designation inspected was as follows:

1. DP3107-035.
2. DP3108-001-157,149,163.

This QA Inspector randomly observed the following work in progress:

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## WELDING INSPECTION REPORT

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Flux Cored Arc Welding (FCAW) Repair welding of weld joint identified as SEG3020BB-073. Welder is identified as 067949. ZPMC Quality Control (QC) is identified as Mr. Zhulin. The welding variables recorded by QC personnel observed appeared to comply with WPS: WPS-345-FCAW-2G (2F)-ESAB-Repair- FCM. The repair welding was being performed as per approved Critical Welding Repair Report (CWR) No: B-CWR2752. This weld was previously rejected by ZPMC QC personnel and recorded on UT report B787-UT-18580.

Shielded Metal Arc Welding (SMAW) Repair welding of weld joint identified as SEG3020Y-022. Welder is identified as 051348. ZPMC Quality Control (QC) is identified as Mr. Zhulin. The welding variables recorded by QC personnel observed appeared to comply with WPS: WPS-345-SMAW-3G (3F)-FCM-Repair. The repair welding was being performed as per the Welding Repair Report (WRR) No: B-WR20152. This weld was previously rejected by ZPMC QC personnel and recorded on UT report B787-UT-19154.

FCAW welding of weld joint identified as DP3171-001-131,132. Welder is identified as 045175. ZPMC Quality Control (QC) is identified as Mr. Li ping. The welding variables recorded by QC personnel observed appeared to comply with WPS: WPS-B-T-2233-ESAB.

FCAW welding of weld joint identified as DP3171-001-021. Welder is identified as 048696. ZPMC Quality Control (QC) is identified as Mr. Li ping. The welding variables recorded by QC personnel observed appeared to comply with WPS: WPS-B-T-2232-ESAB.

FCAW welding of weld joint identified as DP3171-001-022. Welder is identified as 204730. ZPMC Quality Control (QC) is identified as Mr. Li ping. The welding variables recorded by QC personnel observed appeared to comply with WPS: WPS-B-T-2232-ESAB.

SMAW welding of weld joint identified as SP3111-001-058~060. Welder is identified as 067572. ZPMC Quality Control (QC) is identified as Mr. Zheng zhi wei. The welding variables recorded by QC personnel observed appeared to comply with WPS: WPS-B-P-2213-TC-U4b-FCM-1.

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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<b>Inspected By:</b>	Prabhu,Surendra	Quality Assurance Inspector
<b>Reviewed By:</b>	Peterson,Art	QA Reviewer

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