

**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-009308**Date Inspected:** 25-Aug-2009**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

<b>CWI Name:</b>	Mr. Liu yang/ Mr. Xu le feng	<b>CWI Present:</b>	<b>Yes</b>	<b>No</b>	
<b>Inspected CWI report:</b>	<b>Yes</b> <b>No</b> <b>N/A</b>	<b>Rod Oven in Use:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>Electrode to specification:</b>	<b>Yes</b> <b>No</b> <b>N/A</b>	<b>Weld Procedures Followed:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>Qualified Welders:</b>	<b>Yes</b> <b>No</b> <b>N/A</b>	<b>Verified Joint Fit-up:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>Approved Drawings:</b>	<b>Yes</b> <b>No</b> <b>N/A</b>	<b>Approved WPS:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
		<b>Delayed / Cancelled:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>Bridge No:</b>	34-0006	<b>Component:</b>	Tower		

**Summary of Items Observed:**

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

Bay no. 11

1. This QA inspector, Baskar Govindarajan, observed, ZPMC qualified welding personnel identified as 037932 perform SMAW welding on, Spare strut web to stiffener, Weld joint no. WD1-A 6001-1-7A. ZPMC CWI Identified as Mr. Xu zhen rong. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-3212-TC-U5B-1.

2. This QA inspector, Baskar Govindarajan, observed, ZPMC qualified welding personnel identified as 069469 perform FCAW welding on, Doublers plate of Skin E, Lift 4, Weld joint no. WSD1-FESA4-4 B/F- 1. ZPMC CWI Identified as Mr. Li hong fei. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-4332-TC-P4-F.

3. This QA inspector, Baskar Govindarajan, observed, ZPMC qualified welding personnel identified as 040723 perform FCAW welding on, Inter connecting splice plate of Skin E, Lift 4, Weld joint no. WSD1-SPSA3-3-2A. ZPMC CWI Identified as Mr. Li hong fei. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2331-TC-U5-F.

Bay no. 10

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## WELDING INSPECTION REPORT

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4.This QA inspector, Baskar Govindarajan, observed, ZPMC qualified welding personnel identified as 051413 perform SAW welding on, Strut splice plate, Weld joint no. ED1-A 5007-17-1A. ZPMC CWI Identified as Mr. Ma yun. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-3221-TC-U5-S1.

### Magnetic Particle Testing:

This QA inspector performed Magnetic Particle Testing (MT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated a TL-6028 MT report for this date. The member is identified as Tower façade and Step plate on skin A manhole in North tower, Lift 2. The weld designations reviewed are as follows:

SD1-A 114- 1 no.  
SD1-A 281- 1 no.  
SD1-A 226- 1 no.  
SD1-A 253- 1 no.  
SD1-A 277- 1 no.  
SD1-A 12- 1 no.  
SD1-A 579- 2 nos.  
NSD1-SA166 B/F-5  
NSD1-SA166 E/F-44, 45

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

### 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 Serge, Sinevod - 134-8257-0045, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Baskar, Govindarajan	Quality Assurance Inspector
<b>Reviewed By:</b>	Clifford, William	QA Reviewer

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