

**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:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-012539**Date Inspected:** 23-Feb-2010**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. You Qi Guo**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**Summary of Items Observed:**

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

IN PROCESS INSPECTION:-

TOWER TRAIL ASSEMBLY AREA:-

EAST SHAFT LIFT 1:-

This QA inspector observed the following work in progress:

ZPMC performed Base metal repair of Exterior Bearing Plate located on Skin A (ESD1-SA237 D/F-42). The base metal repair areas were approximately 3mm depth and 130mm length at 3 random locations. The material is A 709M Grade 345 Non-SPCM. Welder is identified as 066674. ZPMC CWI is identified as Mr. You Qi Guo. SMAW welding was been performed against Critical Weld repair report T-CWR578. The welding variables recorded by QC appeared to comply with the WPS-345-SMAW-3G (3F)-Repair. Please see the attached picture below.

This QA inspector observed the following work in progress:

ZPMC performed Base metal repair of Exterior Bearing Plate located on Skin B (ESD1-SA233- 34). The base metal repair areas were approximately 2mm depth and 100mm length at 2 random locations. The material is A 709M Grade 345 Non-SPCM. Welder is identified as 066674. ZPMC CWI is identified as Mr. You Qi Guo. SMAW welding was been performed against Critical Weld repair report T-CWR579. The welding variables

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recorded by QC appeared to comply with the WPS-345-SMAW-3G (3F)-Repair.

This QA inspector observed the following work in progress:

FCAW welding of weld joint no: ESD1-SA233-9 located on Skin B Interior Bearing Plate. Welder is identified as 040736.ZPMC QC is identified as Mr. Yang Ming Ming. The welding variables recorded by QC appeared to comply with the WPS-B-T-2333-TC-P4-F.

This QA inspector observed the following work in progress:

FCAW welding of weld joint no: ESD1-SA294F/G-21 located on Skin C Interior Bearing Plate. Welder is identified as 070006.ZPMC QC is identified as Mr. Yang Ming Ming. The welding variables recorded by QC appeared to comply with the WPS-B-T-2333-TC-P4-F.

This QA inspector observed the following work in progress:

FCAW welding of weld joint no: ESD1-SA237D/F-5 located on Skin A Interior Bearing Plate. Welder is identified as 049220.ZPMC QC is identified as Mr. Yang Ming Ming. The welding variables recorded by QC appeared to comply with the WPS-B-T-2333-TC-P4-F. Please see the attached picture below.

SOUTH SHAFT LIFT 1:-

This QA inspector observed the following work in progress:

FCAW welding of weld joint no: SSD1-SA18-27 located on Skin B Exterior Bearing Plate. Welder is identified as 068859.ZPMC QC is identified as Mr. Qiu Wen. The welding variables recorded by QC appeared to comply with the WPS-B-T-2333-TC-P4-F.

This QA inspector observed the following work in progress:

FCAW welding of weld joint no: SSD1-SA17F/G-65 located on Skin C Exterior Bearing Plate. Welder is identified as 070397.ZPMC QC is identified as Mr. Qiu Wen. The welding variables recorded by QC appeared to comply with the WPS-B-T-2333-TC-P4-F.

This QA inspector observed the following work in progress:

FCAW welding of weld joint no: SSD1-SA40B/E-30 located on Skin D Exterior Bearing Plate. Welder is identified as 057180.ZPMC QC is identified as Mr. Qiu Wen. The welding variables recorded by QC appeared to comply with the WPS-B-T-2333-TC-P4-F.

This QA inspector observed the following work in progress:

FCAW welding of weld joint no: SSD1-SA40B/E-38 located on Skin D Exterior Bearing Plate. Welder is identified as 068852.ZPMC QC is identified as Mr. Qiu Wen. The welding variables recorded by QC appeared to comply with the WPS-B-T-2333-TC-P4-F.

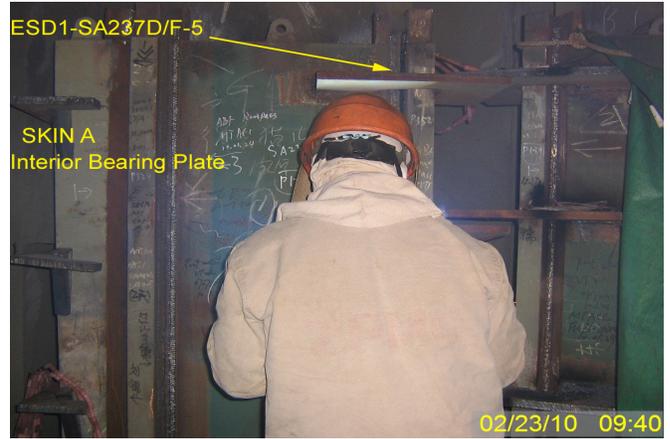
Unless otherwise noted, all work observed on this date appeared to generally comply with the applicable contract documents.

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## Summary of Conversations:

No Relevant Conversation.

## 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 Skyler Guest - 15000422360, who represents the Office of Structural Materials for your project.

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**Inspected By:** Pillai, Pandaram

Quality Assurance Inspector

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**Reviewed By:** Clifford, William

QA Reviewer