

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 1.28**WELDING INSPECTION REPORT****Resident Engineer:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-024921**Date Inspected:** 29-Jun-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1530**Contractor:** American Bridge/Fluor Enterprises, a JV**Location:** Jobsite**CWI Name:** As listed below**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:** SAS OBG**Summary of Items Observed:**

Quality Assurance inspector (QA) Douglas Frey was at the American Bridge/Fluor (ABF) job site at Yerba Buena Island in California between the times noted above in order to monitor Quality Control functions and the in process work being performed by ABF personnel. The following items were observed:

- 10W PP88 W3 Lifting Lug Hole #4
- 9W PP79 W4 Lifting Lug Hole #4
- 9W PP80 W4 Lifting Lug Hole #3
- 10W 11W E
- 9W PP79 W3 Lifting Lug Holes #2 and 4 VT, MT and UT

- 10W PP88 W3 Lifting Lug Hole #4

The QA Inspector made periodic observations of ABF welder Darcel Jackson ID# 9967 performing Shielded Metal Arc Welding (SMAW) in the 4G overhead position on Lifting Lug Hole (LLH) #4 located at 10W PP88 W3. The QA Inspector observed the QC Inspector Pat Swain as being present in order to monitor the progress and ensure the welding parameters were in compliance pertaining to ABF-WPS-D15-1110A Rev. 1. The QA Inspector observed the QC Inspector perform Magnetic Particle Testing (MT) on the completed welds and found them to be acceptable. The QA Inspector verified the testing and found it to be acceptable. The work was completed on this date and the QA Inspector noted that the work appeared to be in general conformance with the contract documents.

- 9W PP79 W4 Lifting Lug Hole #4

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The QA Inspector made periodic observations of ABF welder Fred Kaddu ID# 2188 performing SMAW in the 1G flat position on LLH #4 located at 9W PP79 W4. The QA Inspector observed the QC Inspector Pat Swain monitor the progress and ensure the welding parameters were in compliance pertaining to ABF-WPS-D15-1050A-CU. The work was completed on this date and the QA Inspector noted that the work appeared to be in general conformance with the contract documents.

3. 9W PP80 W4 Lifting Lug Hole #3

The QA Inspector made periodic observations of ABF welder Fred Kaddu ID# 2188 performing SMAW in the 1G flat position on LLH #3 located at 9W PP80 W4. The QA Inspector observed the fit up and it to be acceptable. The QA Inspector observed the QC Inspector Pat Swain monitor the progress and ensure the welding parameters were in compliance pertaining to ABF-WPS-D15-3042-B1. The work is in progress and the QA Inspector noted that the work appeared to be in general conformance with the contract documents.

4. 10W 11W E

The QA Inspector periodically observed ABF welding operator James Zhen ID# 4671 perform Plasma Arc Cutting (PAC) on the Side Plate Splice at 10W 11W E outside of the OBG. The QA Inspector observed the removal of the backing bar and clean up in preparation for welding. The QA Inspector noted that the work was in progress and appeared to be in general conformance with the contract documents.

5. 9W PP79 W3 Lifting Lug Holes #2 and 4 VT, MT and UT

The QA Inspector performed a Magnetic Particle Test (MT) on LLH's #2 and 4 at 9W PP79 W3. The QA Inspector tested 10% of the weld to verify the weld and testing by QC meet the requirements of the contract documents. . The QA Inspector noted that the work appeared to be free of defects and was found to be acceptable and in general conformance with the contract documents. Upon completion of the MT, the QA Inspector performed Ultrasonic Testing utilizing a G.E./Krautkramer USN 60. The QA Inspector also utilized the UT Procedure identified as SE-UT-D1.5-CT-100 Rev.4 during the examination. Upon completion of the testing, it was noted by the QA Inspector that no indications were present and the work was found to be acceptable.

Summary of Conversations:

At the beginning the shift the QA Inspector met with QC Inspector William Sherwood and discussed the welders assignments and locations for the shift to include pending issues, ongoing work and required testing.

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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 Nina Choy 510-385-5910, who represents the Office of Structural Materials for your project.

Inspected By: Frey,Doug

Quality Assurance Inspector

Reviewed By: Levell,Bill

QA Reviewer