

**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 #: 1.28**WELDING INSPECTION REPORT****Resident Engineer:** Casey, William**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-026602**Date Inspected:** 29-Oct-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 noted below  
**Inspected CWI report:** Yes No N/A  
**Electrode to specification:** Yes No N/A  
**Qualified Welders:** Yes No N/A  
**Approved Drawings:** Yes No N/A

**CWI Present:** Yes No  
**Rod Oven in Use:** Yes No N/A  
**Weld Procedures Followed:** Yes No N/A  
**Verified Joint Fit-up:** 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:

1. 12W 13W (Exterior)
2. 11W PP100 W4 (Exterior)
3. 12E 13E (Exterior)

1. 12W 13W (Exterior)

The QA inspector randomly observed ABF welding operator Rory Hogan ID# 3186 performing Flux Core Arc Welding with gas (FCAW-G) utilizing a "Bug-O" motorized rail system with a magnetic base attached in the 4G overhead position on Side Plate "E" on the exterior of the OBG at 12W 13W. The QA inspector observed the QC inspector identified as John Pagliero monitoring the welding to ensure the welding parameters were in compliance pertaining to ABF-WPS-D15-3110-4. The parameters were noted as (A=250/V=23/TS=160/HI=2.15). The QA inspector made subsequent observations throughout the shift to monitor quality and noted that the work was completed on this date and appeared to be in general conformance to the contract requirements.

The QA inspector observed ABF welding operator Jeremy Dolman ID# 5042 utilizing a manually operated Plasma Arc Cutting system. The QA inspector randomly monitored the operator removing the backing bar from

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the weld on the bottom plate “D” on the exterior of the OBG. The QA inspector made subsequent observations throughout the shift to monitor quality and the QA inspector noted that the work was in progress and appeared to be in general conformance with the contract documents.

## 2. 11W PP100 W4 (Exterior)

The QA inspector observed ABF welder Jorge Lopez ID# 6149 performing Shielded Metal Arc Welding (SMAW) in the 1G flat position on Lifting Lug Hole (LLH) #2 located at 11W PP100 W4. The QA inspector observed the QC inspector identified as Pat Swain monitoring the progress to ensure the welding parameters were in compliance pertaining to ABF-WPS-D15-1050A-CU.

The parameters were recorded as (Amperes=135).

The QA inspector made subsequent observations throughout the shift to monitor quality and the QA inspector noted that the work was completed on this date and appeared to be in general conformance with the contract documents.

## 3. 12E 13E (Exterior)

The QA inspector randomly observed ABF welding operator Jimmy Zhen ID# 6001 performing Flux Core Arc Welding with gas (FCAW-G) utilizing a “Bug-O” motorized rail system with a magnetic base attached in the 4G overhead position on Bottom Plate “D2” on the exterior of the OBG at 12E 13E. The QA inspector observed the QC inspector identified as Fred Von Hoff monitoring the welding to ensure the welding parameters were in compliance pertaining to ABF-WPS-D15-3110-4. The parameters were noted as (A=255/V=24.9/TS=170/HI=2.25). The QA inspector made subsequent observations throughout the shift to monitor quality and noted that the work was completed on this date and appeared to be in general conformance to the contract requirements.

Note: The QAI reviewed the observations and inspection with QA Lead Inspector, Daniel Reyes, written in this report. No issues were noted by the QAI and the QA Lead Inspector concurs with the QA report.

### Summary of Conversations:

At the beginning the shift the QA inspector met with QC inspector John Pagliero 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.

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<b>Inspected By:</b>	Frey,Doug	Quality Assurance Inspector
<b>Reviewed By:</b>	Levell,Bill	QA Reviewer

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