

**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-028236**Date Inspected:** 17-Aug-2012**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** American Bridge/Fluor Enterprises, a JV**Location:** jobsite

**CWI Name:** Fred Michaels  
**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:** OBG**Summary of Items Observed:**

Quality Assurance inspector (QA) Matthew Daggett was at the American Bridge/Fluor (ABF) job site at the San Francisco/Oakland Bay Bridge 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. Welding 12E-PP116.5-E5 Deck Access Hole Face B
2. Welding 12W-PP116.5-W5 Deck Access Hole Face B

Welding 12E-PP116.5-E5 Deck Access Hole Face B

The QA inspector in turn observed the in process Shield Metal Arc Welding being performed by ABF welding personnel Jin Pei Wang (7299) on Face B of Deck Access Hole 12E-116.5-E5. The welder spent the shift depositing the root passes and fill passes with approximately 90% being completed at the end of the shift. QC inspector Fred Michels was noted to be present in order to monitor the progress and ensure the welding was within the established Welding Procedure Specification (WPS) noted as ABF-WPS-D15-1110-A and supporting Procedure Qualification Records (PQR). Prior to initiating the welding at this location the QC inspector observed the preheat temperature, using a Raytek non-contact Thermometer, was sufficient and compliant to the above-mentioned WPS. Using a Tempil Stick, (temperature indicating crayon) the preheat and interpass temperature was then verified by this QA inspector to be greater than 150F and the parameters, using a Fluke brand Tong style meter, was verified to be 156 amps. See digital photo included in the body of this report for

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# WELDING INSPECTION REPORT

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general information.

Welding 12W-PP116.5-W5 Deck Access Hole Face B

The QA inspector at random observed the in process Shield Metal Arc Welding being performed by ABF welding personnel Roby Smith on Face B of Deck Access Hole 12W-116.5-W5. The welder spent the shift depositing the root passes and fill passes with approximately 100% being completed at the end of the shift. QC inspector Chris Concha was noted to be present in order to monitor the progress and ensure the welding was within the established Welding Procedure Specification (WPS) noted as ABF-WPS-D15-1110-A and supporting Procedure Qualification Records (PQR). Prior to initiating the welding at this location the QC inspector observed the preheat temperature, using a Raytek non-contact Thermometer, was sufficient and compliant to the above-mentioned WPS. Using a Tempil Stick, (temperature indicating crayon) the preheat and interpass temperature was then verified by this QA inspector to be greater than 150F and the parameters, using a Fluke brand Tong style meter, was verified to be 151 amps. See digital photo included in the body of this report for general information.



### Summary of Conversations:

There were general conversations with Quality Control Inspector Fred Michaels, at the start of the shift regarding the location of welding, inspection personnel scheduled for this shift. All observations were relayed to Danny Reyes and Bill Levell.

### 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>	Daggett, Matt	Quality Assurance Inspector
<b>Reviewed By:</b>	Levell, Bill	QA Reviewer

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