

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-026897**Date Inspected:** 16-Dec-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:** Job Site

CWI Name:	Fred Von Hoff and Steve Jensen			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:

Caltrans Office of Structural Material (OSM) Quality Assurance Inspector (QAI) Joselito Lizardo was present at the Self Anchored Suspension (SAS) job site as requested to perform observations on the welding of components for the San Francisco Oakland Bay Bridge (SFOBB) Project.

At OBG 11E-PP100-E4-#2 and #4 lifting lug holes infill plate to top deck plate inside, ABF welder Jorge Lopez was noted excavating the welding repairs on both holes. The welder was noted excavating repair locations at Y=195mm and Y=264mm for hole #2 and Y=150mm for hole #4. The welder was using a die grinder to excavate the defects from the welds.

At OBG 13E/14E side plate 'E2' inside, QA randomly observed ABF/JV qualified welder Jin Pei Wang continuing to perform CJP groove (splice) welding fill pass on the splice butt joint. The welder was observed perform manual welding in the 3G (vertical) position utilizing a dual shield Flux Cored Arc Welding (FCAW-G) with E71T-1M, 1/16" diameter wire electrode and implementing Caltrans approved Welding Procedure Specification (WPS) ABF-WPS-D15-3042B-1. The joint being welded has a single V-groove butt joint with backing bar that will be removed then back welded. The splice joint was preheated and maintained to greater than 150 degrees Fahrenheit using Miller Proheat 35 Induction Heating System heater blankets located at the opposite side of the plate prior/during welding. During welding, ABF Quality Control (QC) Fred Von Hof was noted monitoring the welding parameters of the welder with measured working current of 255 amperes and working voltage of 23.0 volts. At the end of the shift, fill pass welding on the splice butt joint was still continuing and should remain tomorrow.

WELDING INSPECTION REPORT

(Continued Page 2 of 3)

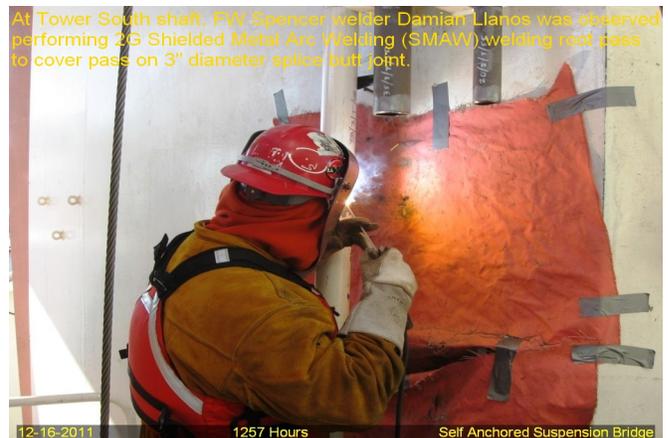
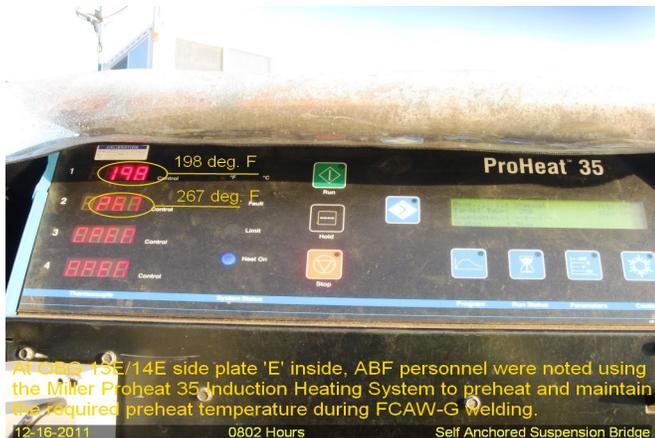
At the Tower Base, there was no work activity noted during the shift.

FW Spencer:

At Tower South shaft, this QA randomly observed FW Spencer qualified welder Damian Llanos ID-6645 continuing to perform Complete Joint Penetration (CJP) 2G (horizontal position) Shielded Metal Arc Welding (SMAW) welding root pass to cover pass on the 3" diameter domestic water line. The system line being welded is a field branch along the tower elevation. The welder was noted welding the root pass with 3/32" diameter E6010 electrode and followed by fill pass to cover pass using 3/32" diameter E7018H4R electrode implementing Caltrans approved procedure FW Spencer WPS 1-12-1. The welder was noted preheating and removing the moisture of the joint using a portable propane gas torch prior welding. During welding, ABF QC Steve Jensen was noted monitoring the parameters of the welder. At the end of the shift, the welder has completed the following 3" diameter butt joints and inspected by QC. The butt joints were also VT verified by this QA;

Weld Identification Location/elevation Remarks

1. 37/3/T/53 53 3" pipe field splice at 3" x 3" x 2" reducing tee
2. 38/3/T/48 48 3" pipe field splice
3. 39/3/T/47 47 3" pipe field splice



Summary of Conversations:

No significant conversation occurred today.

WELDING INSPECTION REPORT

(Continued Page 3 of 3)

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

Inspected By:	Lizardo, Joselito	Quality Assurance Inspector
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Reviewed By:	Levell, Bill	QA Reviewer
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