

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave. St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

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-029213
Date Inspected: 29-Jan-2013

Project Name: SAS Superstructure
Prime Contractor: American Bridge/Fluor Enterprises, a JV
Contractor: American Bridge/Fluor Enterprises, a JV

OSM Arrival Time: 700
OSM Departure Time: 1730
Location: Job Site

CWI Name:	As noted 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:

This QA observed the following welders working on the OBG at various locations:

ABF welder Wai Kit Lai #2953 was observed performing SMAW welding on the Deck Access Hole at 14E PP126. 5-E2-DAH. The welder was observed utilizing WPS ABF-D1.5-1040C-CU for SMAW. The welder was observed preheating the welds prior to welding. Other welding parameters as inspected by the QC Inspector appeared to be in compliance with the WPS noted above. This QA Inspector made subsequent observations throughout the shift to monitor quality and noted that the work at this location is in progress and appeared to be in general conformance with the contract documents. The work is in progress.

FW Spencer welder Damien Llamas # 6645 was observed performing SMAW welding on pipe brackets to PS12 Channel at 4W PP27-W5 on the exterior of the OBG. Weld numbers have not been assigned due to the work is in progress. The welder was observed utilizing WPS FWS-Fillets Murex for SMAW. The welder was observed preheating the welds prior to welding. Other welding parameters as inspected by the QC Inspector appeared to be in compliance with the WPS noted above. RFI-003098R00 was referenced during observation.

ABF welder Mike Jimenez #4671 was observed performing FCAW seal welding on the 6mm x 75mm plates on the threaded holes of counterweight number 10 located at 1W PP8. The welder was observed utilizing WPS

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ABF-D1.5-F2200-2 for the Partial Penetration Joint. The welder was observed preheating the welds prior to welding. Other welding parameters as inspected by the QC Inspector appeared to be in compliance with the WPS noted above. RFI-002670R00 was referenced during this observation.

This QA assisted Assistant SMR Pari Aghili and Cal-Trans Construction Engineer Thanh Le in conducting an item survey to develop a punch list on the conditions of Crossbeams 11- 19.

This QA observed QC Inspector Steve Jensen and Salvador Merino performing welding parameter checks such as voltage, amps, electrodes and preheats throughout the day. This QA also observed QC Inspector's John Hays performing various Non-Destructive Testing (NDT) on completed weld repairs as they became available for testing. Non-Destructive Testing methods utilized by the QC Inspectors were Visual Testing (VT), Magnetic Particle Testing (MPT) and Ultrasonic Testing Shear Wave (UTSW). QC Inspectors were observed performing inspection per applicable code and or contract criteria. Unless otherwise noted, all work observed on this date appeared to generally comply with the contract documents.

Summary of Conversations:

Conversations were relevant to work performed.



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 Gary Thomas 916-764-6027 , who represents the Office of Structural Materials for your project.

Inspected By:	Frey,Doug	Quality Assurance Inspector
Reviewed By:	Reyes,Danny	QA Reviewer
