

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 Rte: 80 PM: 13.2/13.9File #: 1.28**WELDING INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-000805**Date Inspected:** 09-Nov-2007**Project Name:** SAS Superstructure**OSM Arrival Time:** 600**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1500**Contractor:** American Bridge/Fluor Enterprises, a JV**Location:** Benicia, Ca.**CWI Name:** William Norris**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:** PQR test**Summary of Items Observed:**

The Caltrans Quality Assurance (QA) Inspector arrived at the Ironworkers Apprenticeship Training Facility and witnessed the continued welding of a Procedure Qualification (PQR) test plate designated ABF-PQR-015-2, using gas shielded flux cored arc welding (FCAW-G) using Esab Dualshield 70 Ultraplus, class E71T-1 electrode, 0.062 in. diameter with 80% Argon/20% CO₂ shielding gas. The welding was performed by the American Bridge welding personnel Mr. Daniel Gordon and Mr. Eric Rayburn. The welding was conducted with the support of a track guided "Bug O" system in the 4G (overhead) position. The welding was performed per the AWS D1.5, 2002 Section 5.12 requirements for minimum heat input. The Smith Emery QC inspector, Mr. William Norris recorded the preheat and interpass temperatures, the average amperage, voltage, shielding gas flow and the travel speed for all weld passes. The root pass was identified as zone 1 and the remainder of the weld was identified as zone 2. The welding of this plate was completed on this date. The QA inspector noted that the welding appeared to meet the minimum requirements of AWS D1.5-2002 and the contract documents.

After completion of the Procedure Qualification (PQR) test plate designated ABF-PQR-015-2, the Procedure Qualification (PQR) test plate designated ABF-PQR-024-1 was started. The welding was performed using gas shielded flux cored arc welding (FCAW-G) using gas shielded flux cored arc welding (FCAW-G) using Lincoln Ultracore electrode, 0.062 in. diameter with 80% Argon/20% CO₂ shielding gas. The welding was performed by the American Bridge welding personnel Mr. Daniel Gordon and Mr. Eric Rayburn. The welding was conducted with the support of a track guided "Bug O" system in the 4G (overhead) position. The welding was performed per the AWS D1.5, 2002 Section 5.12 maximum heat input requirements. The Smith Emery QC inspector, Mr. William Norris recorded the preheat and interpass temperatures, the average amperage, voltage and the travel speed for all weld passes. The test plate was not completed on this date.

WELDING INSPECTION REPORT

(Continued Page 2 of 2)

Summary of Conversations:

At the start of welding the QC inspector reported that the two Procedure Qualification tests were to be performed in accordance with AWS D1.5-2002 section 5.12 heat input WPS. At the completion of the welding the QC inspector Mr. Morris reported that the test plate visual inspection would be performed at a later date.

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 Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural Materials for your project.

Inspected By:	Lanz,Joe	Quality Assurance Inspector
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Reviewed By:	Mertz,Robert	QA Reviewer
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