

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-028210**Date Inspected:** 18-Aug-2012**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:** John Pagliero and Barry Drake**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 13W-PP122.5-W2.1 BF1 drop-in floor beam inside, QA randomly observed ABF/JV qualified welder Rick Clayborn continuing to perform CJP groove welding repair from location Y=0mm to Y=460mm (whole length of the flange). Prior welding, the welder was noted excavating the repair using carbon air arc gouging and after its completion, the groove of the excavation was ground smooth by the same welder and then MT'd by ABF QC John Pagliero. The welder was observed welding in the 1G (flat) position utilizing Shielded Metal Arc Welding (SMAW) with 3.2mm diameter E7018H4R electrode implementing welding procedure ABF-WPS-D15-1000-Repairs. During the shift, ABF QC Barry Drake was noted monitoring the welder with measured working current of 130 amperes on 3.2mm E7018H4R electrode. At the end of the shift, repair welding at location mentioned above was completed.

At OBG 13W-PP123.5-W2.1 BF2 drop-in floor beam inside, ABF welder Gue Wu Chen was observed continuing to perform repair welding. Prior to perform the repair, another welder was noted excavating the UT detected defects using carbon air arc gouging then ground smooth the groove of the excavation. ABF QC John Pagliero was noted performing the Magnetic Particle Testing (MT) on the defect removal with no relevant defect noted during the test. After the completion of the MT, welder Gue Wu Chen was observed welding in the 4G (overhead) position utilizing Shielded Metal Arc Welding (SMAW) with 3.2mm diameter E7018H4R electrode implementing welding procedure ABF-WPS-D15-1000-Repairs. During the shift, ABF QC Barry Drake was noted monitoring

WELDING INSPECTION REPORT

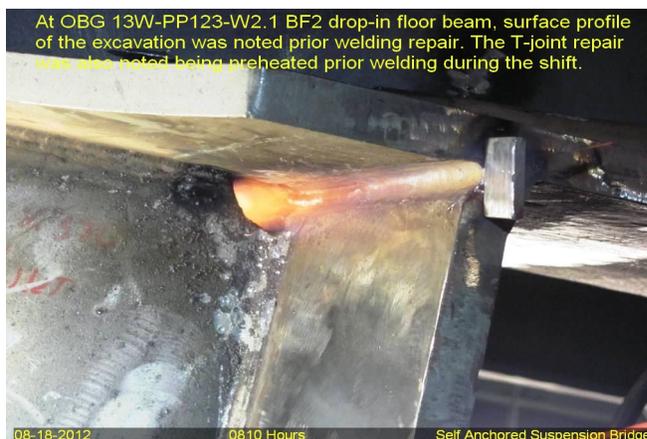
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the welder with measured working current of 130 amperes on the 3.2mm E7018H4R electrode. Listed below is a first time repair that was noted excavated and welded during the shift;

Y-location	Length	Width	Depth	Remarks
1.0mm	460mm	15mm	10mm	In progress.

At OBG 13W-PP123-W2.1 BF2 drop-in floor beam inside, ABF welder Gue Wu Chen was observed continuing to perform repair welding. Prior to perform the repair, another welder was noted excavating the UT detected defects using carbon air arc gouging then ground smooth the groove of the excavation. ABF QC John Pagliero was noted performing the Magnetic Particle Testing (MT) on the defect removal with no relevant defect noted during the test. After the completion of the MT, welder Gue Wu Chen was observed welding in the 4G (overhead) position utilizing Shielded Metal Arc Welding (SMAW) with 3.2mm diameter E7018H4R electrode implementing welding procedure ABF-WPS-D15-1000-Repairs. During the shift, ABF QC Barry Drake was noted monitoring the welder with measured working current of 128 amperes on the 3.2mm E7018H4R electrode. Listed below is a first time repair that was noted excavated and welded during the shift;

Y-location	Length	Width	Depth	Remarks
2.0mm	460mm	16mm	6mm	In progress.



Summary of Conversations:

No significant conversation occurred today.

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

Reviewed By: Levell, Bill

QA Reviewer