

**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-028296  
**Date Inspected:** 17-Aug-2012

**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:** 1900  
**Location:** Job Site

<b>CWI Name:</b>	See Below	<b>CWI Present:</b>	Yes	No
<b>Inspected CWI report:</b>	Yes No N/A	<b>Rod Oven in Use:</b>	Yes No N/A	
<b>Electrode to specification:</b>	Yes No N/A	<b>Weld Procedures Followed:</b>	Yes No N/A	
<b>Qualified Welders:</b>	Yes No N/A	<b>Verified Joint Fit-up:</b>	Yes No N/A	
<b>Approved Drawings:</b>	Yes No N/A	<b>Approved WPS:</b>	Yes No N/A	
		<b>Delayed / Cancelled:</b>	Yes No N/A	
<b>Bridge No:</b>	34-0006	<b>Component:</b>	OBG and Tower	

**Summary of Items Observed:**

At the start of the shift this Quality Assurance Lead Inspector (QAI) traveled to the SAS project site and observed the work and the inspection performed by American Bridge/Fluor Enterprises (AB/F) Quality Control (QC) personnel. The observations and inspections were performed as noted below:

A). This Quality Assurance Lead Inspector (QALI) assigned the QA Inspectors to the following, but not limited to the work station(s) listed, to observe the welding and the QC inspection of the following:

Joselito Lizardo-OBG W13 Drop-In Panel (Observation of welding, QC inspection and testing of longitudinal stiffeners and deck stiffener flanges).

Rodney Patterson-OBG E13 Drop-In Panel (Observation of excavations, repair welding, QC inspection and testing of the deck field splices), Observation of QC inspection and testing and QA/VT, MPT and UT verification.

Fritz Belford-OBG W12 Drop-In Assembly (Observation of repair welding, production welding, QC inspection and testing of floor beams, deck stiffener flanges and diverter plates) and QA/VT, MPT verification.

Matt Daggett-OBG W12& E12 (Observation of welding, QC inspection and testing of deck access hole).

William Clifford-Tower Shear Plates/ESW "Q" (Observation of repair welding, QC inspection and testing) and performed QA/UT verification.

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Doug Frey-OBG E12 Corner Drop-In Ass'y (Observation of excavations, repair welding, QC inspection and testing of deck plate splices), OBG E13, Drop-In Panel (Observation of welding, QC inspection and testing of floor beams) and QC/UT.

Rob DeArmand-OBG W13 Drop-In Panel (Observation of welding, QC inspection and testing of floor beams, longitudinal stiffeners and repairs welding of floor beams).

Scott Croff-Tower Shear Plates/ESW "G" (Observation of repair welding, QC inspection and testing).

NOTE: See QA daily Weld Inspection Reports (WIR) and NDE reports for additional information and details.

## Quality Assurance Lead Inspector (QALI) Summary

This QA Lead Inspector (QALI) observed the QA Inspector's Joselito Lizardo, William Clifford, Rob DeArmand, Rodney Patterson, Fritz Belford, Doug Frey and Matt Daggett monitor the work performed by the QC inspectors at random intervals and also observed the QA Inspectors verify the welding parameters, the minimum preheat and the maximum interpass temperatures for compliance with the contract specifications. The QAI's utilized a Fluke 337 clamp meter to measure the electrical welding parameters, Tempil Heat Indicators and/or a Fluke 63 IR Thermometer for verifying the preheat and interpass temperatures. At the conclusion of the shift, this QA Lead Inspector discussed and reviewed the work performed by the QAI's in regards to the various observations and the verifications of the WPS's, consumables, welding parameters, preheat and interpass temperatures. The QAI observations of the QC inspection and verification of the welding parameters performed on this date appeared to comply with the contract specifications and there were no issues noted during this shift.

This QA Lead Inspector commence the review of NDT reports, tracking of welding and developing and generating weld maps for W13 drop-in panels, E12 and W12 corner drop-in assemblies. This QA Lead Inspector also received and reviewed the following Request for Weld Repair (RWR) documents RWR 201208-052 and RWR 201208-050. Also received the Incident Report(IR) identified as number 159 the latest SAS Submittal Log Update.

## Summary of Conversations:

There were general conversations with Quality Control Lead Inspector, Bonifacio Daquinag, Jr., at the start of the shift regarding the location of welding, inspection personnel scheduled for this shift.

There were also, other pertinent conversations with QA Supervisor, William Levell, throughout the course of this shift in regards to scheduling of QA personnel, work progress and related structural steel and weld issues. There were no significant issues noted during this shift.

## 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.

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**Inspected By:** Reyes,Danny

Quality Assurance Inspector

**Reviewed By:** Levell,Bill

QA Reviewer