

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-027904**Date Inspected:** 03-Jul-2012**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1930**Contractor:** American Bridge/Fluor Enterprises, a JV**Location:** Job site

CWI Name:	N/A	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:	Tower	

Summary of Items Observed:

Quality Assurance Inspector (QAI) Rodney Patterson 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:

Ultrasonic Testing (Tower ESW- E-045 #24 "F" from Y=4200~5890 Face B)

This QAI performed 100% Joint Ultrasonic Testing (UT), together with ABF QC inspector John Pagliero, on the Tower Complete Joint Penetration (CJP) Tee joint shear plate connection designated as ESW- E-045 #24 "F" from Face B. Due to a known linear indication in way of the weld toe of a previous repair, the joint inspection team was unable to accept the weld from Y=4660~4940.

The results of the QA/QC joint inspection are as follows;

Recordable Planar Longitudinal Indications (Y=4200~5890)

Y=5130, X= -10, Sound Path=104, Depth From B=37mm, Length 40mm, +5 db Rating
Y=5370, X= -10, Sound Path=104, Depth From B=37mm, Length 150mm, +7 db Rating

Transverse Indications (Y=4200~5890)

Y=4440, Sound Path=68, Depth from Face B=24, AWS db Rating = +22
Y=4490, Sound Path=82, Depth from Face B=30, AWS db Rating = +16
Y=4580, Sound Path=106, Depth from Face B=38, AWS db Rating = +18
Y=4920, Sound Path=105, Depth from Face B=38, AWS db Rating = +11

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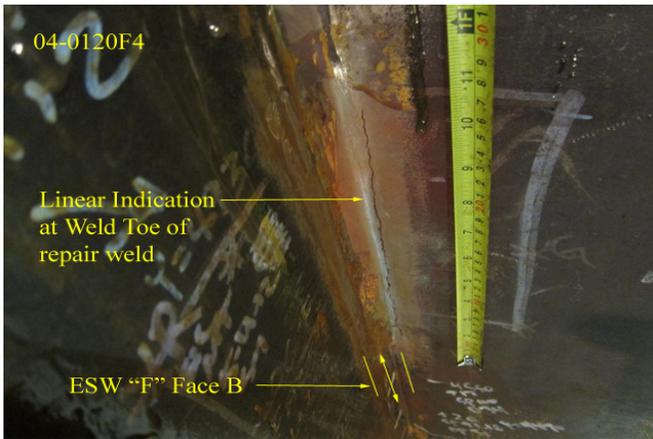
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Y=5000, Sound Path=134, Depth from Face B=48, AWS db Rating = +14
Y=5040, Sound Path=90, Depth from Face B=32, AWS db Rating = +18
Y=5220, Sound Path=111, Depth from Face B=40, AWS db Rating = +23
Y=5260, Sound Path=113, Depth from Face B=41, AWS db Rating = +16
Y=5270, Sound Path=105, Depth from Face B=38, AWS db Rating = +18
Y=5300, Sound Path=82, Depth from Face B=30, AWS db Rating = +19
Y=5325, Sound Path=86, Depth from Face B=31, AWS db Rating = +20
Y=5520, Sound Path=118, Depth from Face B=42, AWS db Rating = +17

A Grouping of multiple transverse indications was observed at Y=5260, 5270, 5300 and 5325.
Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

No relevant conversations.



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

Inspected By: Patterson,Rodney

Quality Assurance Inspector

Reviewed By: Levell,Bill

QA Reviewer