

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 #: 1x.25B

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

Location: Job Site**Report No:** NCR-000722**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 27-Apr-2010**Submitting Contractor:** American Bridge/Fluor Enterprises, a JV**NCR #:** ABF-0010**Type of problem:**

Welding	Concrete	Other	
Welding	Curing	Procedural	Bridge No: 34-0006
Joint fit-up	Coating	Other	Component: OBG
Procedural	Procedural	Description:	

Reference Description: Repairs Performed Without Engineer's Approval**Description of Non-Conformance:**

This NCR addresses repairs performed without engineer approval at the following locations:

QA Inspector observed ABF welding personnel welding over gaps @ F.S 2W/3W where the gap between the backing bar and the underside of the deck plate exceeded 2mm (3-7mm, and 3-9mm) without requesting prior approval from the engineer, as required in ABF-RFI-002112R00.

QA inspector observed that the Contractor repaired a 15mm crack in weld 3E/4E-A5 without the prior approval of the Engineer.

Applicable reference:

Section 8-3.01 of the Special Provisions:

"... all repairs of cracks require prior approval of the Engineer."

"No remedial work shall begin until the repair procedures are approved in writing by the Engineer."

ABF-RFI-002112R00 "...gaps over this amount will require the Engineer's review and approval prior to start of welding."

Contract Special Provisions, Section 8-3 (page 154) "...all repairs of cracks require prior approval of the Engineer."

ABF's Approved Welding Quality Control Plan, Section 4.5.2.5 "The approval of the Engineer shall be obtained for repairs to all cracks in the weld or base metal."

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Who discovered the problem: QA Inspectors

Name of individual from Contractor notified: WQCM-Jim Bowers

Time and method of notification: Various

Name of Caltrans Engineer notified:

Time and method of notification:

QC Inspector's Name: Jim Bowers

Was QC Inspector aware of the problem: Yes No

Contractor's proposal to correct the problem:

Unknown

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 Mohammad Fatemi, 916-813-3677, who represents the Office of Structural Materials for your project.

Inspected By: Bozorgnia,Behrouz

QA Inspector

Reviewed By: Lowry,Patrick

SMR



DEPARTMENT OF TRANSPORTATION

333 Burma Road
Oakland CA 94607
Tel: Fax:

NON-CONFORMANCE REPORT TRANSMITTAL

To: AMERICAN BRIDGE/FLUOR, A JV
375 BURMA ROAD
OAKLAND CA 95607
Date: 29-Apr-2010

Dear: Mr. Charles Kanapicki
Attention: Mr. James Bowers
Subject: NCR No. ABF-0010
Contract No: 04-0120F4
04-SF-80-13.2 / 13.9
Job Name: SAS Superstructure
Document No: 05.03.06-000680

Reference Description: Repairs Performed Without Engineer's Approval

The Attached Non-Conformance Report describes an occurrence where the contractor did not comply with a requirement of the contract document as indicated below:

- Material or Workmanship not in conformance with contract documents.
- Quality Control (QC) not performed in conformance with contract documents.
- Recurring QC issue that constitutes a systematic problem in quality control.
- Non-Conformance Resolved.

Remarks:

Material Location: OBG Field Splice Locations **Lift:** 2W/3W and 3E/4E

This NCR addresses repairs performed without engineer approval at the following locations:

QA Inspector observed ABF welding personnel welding over gaps @ F.S 2W/3W where the gap between the backing bar and the underside of the deck plate exceeded 2mm (3-7mm, and 3-9mm) without requesting prior approval from the engineer, as required in ABF-RFI-002112R00.

QA inspector observed that the Contractor repaired a 15mm crack in weld 3E/4E-A5 without the prior approval of the Engineer.

Action Required and/or Action Taken:

Propose a resolution for the identified non-conformance with revised procedures to prevent future occurrences. A response for the resolution of this issue is expected within 7 days.

Transmitted By: Tai-Lin Liu Transportation Engineer

Attachments: ABF-0010

cc: Gary Pursell, Peter Siegenthaler, Stanley Ku, Jason Tom, Bill Casey

File: 05.03.06, 09.001.0015

NCR PROPOSED RESOLUTION

To: CALTRANS - SAS Superstructure
333 Burma Road
Oakland CA 94607

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000680

Subject: NCR No. ABF-0010

Dated: 13-Aug-2010

Contract No.: 04-0120F4
04-SF-80-13.2 / 13.9

Job Name: SAS Superstructure

Document No.: ABF-NPR-000741 Rev: 00

Contractor's Proposed Resolution:

Reference Resolution: Attached are the final VT and NDE reports for the weld in question.

Attached are the final VT and NDE reports for the weld in question. Concerning welding without requesting prior permission of the Engineer, ABFJV QC has clarified with welding production that in such cases the prior permission of the Engineer is required.

Submitted by: Kanapicki, Charles

Attachment(s): ABF-NPR-000741R00;

Caltrans' comments:

Status: REJ

Date: 29-Oct-2010

NPR has no reference to CT-Incident report 22 for the gap at 2W/3W. Please provide resolution for this incident.

Submitted by: Liu, Tai-Lin

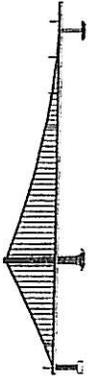
Attachment(s):

Date: 29-Oct-2010



FLUOR
A JOINT VENTURE

Smith-Emery Company



Project: SFOBB Self-Anchored Suspension Bridge

Contract No.: 04-0120F4

Weld #	Date	Start Weld	End Weld	Shift	Fit Up	PreHeat	Verify WPS
3E/4E A5	3.31.10	7:00 Am	9:40 Am	Day	Accept	65 °C	1000 repair Rev. 2
Weld Process	Electrode & Diameter	Welder I.D.	Weld Type & Weld Length	% Completion	Interpass Temp.	Weld in Process	Final Inspection
SMAW	E7018 3.2MM	6001	CJP 150MM L	100%	230 °C	No	Accept VT UT After 24 Hours

Comments: $\gamma = 5055$ to 5205

Inspector's Signature Tom Pasqualone Date 3.31.10

Inspector's Name (Print) Tom Pasqualone

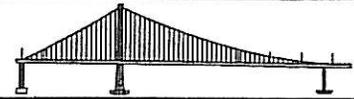
Note: 1) Attach this report with all daily inspection reports.

2) This report attachment is to be used for each individual weld. Do not include additional weld numbers on this report.

SE-VT-CT-D1.5-102

Form VT-102-3

WELD REPAIR REPORT



Project: SFOBB Self-Anchored Suspension Bridge
Contract No.: 04-0120F4
Rev: 0

Inspector: Tom Pasqualone	Date: 31-Mar-2010	Report No.: WRR-201003-033	Repair No.: R-1
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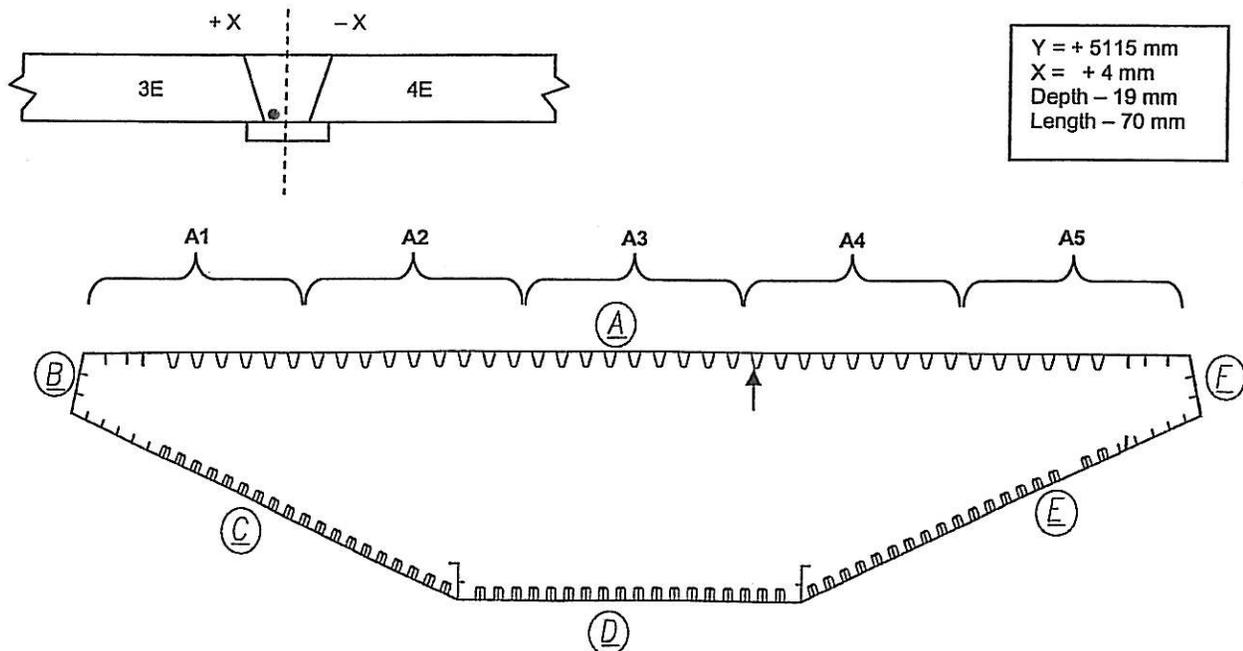
Repair Type Weld Metal <input checked="" type="checkbox"/> Base Metal <input type="checkbox"/>	SPCM Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Critical <input type="checkbox"/> Non-Critical <input checked="" type="checkbox"/>
Engineer Approval Required Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Form ABF-QC-117 Issued ¹ Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
NCR Issued Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Hold Tag Issued Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
NDT Report No.: UT-725	NDT Method: UT <input checked="" type="checkbox"/> RT <input type="checkbox"/> MT <input type="checkbox"/> Other <input type="checkbox"/> VT <input type="checkbox"/>

Original Weld					
Drawing No.	n/a	Part No.	OBG 3E-4E	Weld No.	3E-4E-A5
Welder ID	3232	Welder ID	---	Welder ID	---
Process(es)	SMAW <input checked="" type="checkbox"/> FCAW <input type="checkbox"/> GMAW <input type="checkbox"/> SAW <input checked="" type="checkbox"/> ESW <input type="checkbox"/>			Date Welded	03/26/2010
Layer	Root <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Other <input type="checkbox"/>			Date Inspected	03/30/2010
Position	1G	Joint	Standard <input checked="" type="checkbox"/> Non-Standard <input type="checkbox"/>	Designation	B-U2a / B-U2-S

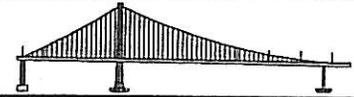
DESCRIPTION of DISCONTINUITY

Incomplete fusion of weld metal to base metal @ root

LOCATION SKETCH



WELD REPAIR REPORT



Project: SFOBB Self-Anchored Suspension Bridge | Contract No.: 04-0120F4 | Rev: 0

Report No: WRR-201003-033 | Repair No: R-1

REPAIR PROCEDURE			
Repair Process(es):	SMAW <input checked="" type="checkbox"/> FCAW <input type="checkbox"/> GMAW <input type="checkbox"/> SAW <input type="checkbox"/> ESW <input type="checkbox"/>		
Repair WPS	ABF-WPS-D15-1000-Repair	Repair WPS	---
Total Weld Length	5280 mm	Total Repair Length Indicated	70mm
Excavation Method(s)	Grinding Only <input checked="" type="checkbox"/> Carbon Arc Gouge (CAG) <input type="checkbox"/> Other <input type="checkbox"/>		
Excavation Preheat Required	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Minimum Temp. Required	n/a
Excavation Dimensions	Maximum Depth 20 mm	Maximum Width 29 mm	Maximum Length 150 mm
Defect Type	Linear ² <input checked="" type="checkbox"/> Porosity <input type="checkbox"/> Slag Inclusion <input type="checkbox"/> Other ³ <input type="checkbox"/>		
	Incomplete Fusion <input checked="" type="checkbox"/> Incomplete Penetration (Fillet and PJP) <input type="checkbox"/>		
MT of Excavation Performed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> MT-744	Defect Removed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Repair Weld Preheat	Per Repair WPS <input checked="" type="checkbox"/>	Additional <input type="checkbox"/>	Temp: n/a
Post Weld Heat	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temp n/a	Time: n/a
Welder ID	6001	Welder ID	---
Date Repair Started	03/31/2010	Date Repair Completed	03/31/2010

REPAIR INSPECTION				
VT Inspection	Inspector	Tom Pasqualone	Inspection Date	04/01/2010
Re-Inspection Method	NDT Method	UT <input checked="" type="checkbox"/> RT <input type="checkbox"/> MT <input type="checkbox"/> Other <input type="checkbox"/>		
NDT Report No.	UT-762	Repair Acceptable	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Original Defect Cleared	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Additional Repair Required	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Engineer Approval Required	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Form ABF-QC-117 Issued ¹	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

¹ Form ABF-QC-117 Request for Weld Repair Approval

² fusion type discontinuity, crack

³ undersize, underfill, undercut, unfilled crater, overlap

James S Bowers SIGN
Weld Repair Report Closed

05-April-2010 DATE

Print Name: JAMES S BOWERS
Title: WRCM

NCR PROPOSED RESOLUTION

To: CALTRANS - SAS Superstructure
333 Burma Road
Oakland CA 94607

Attention: Siegenthaler, Peter
Resident Engineer

Ref: 05.03.06-000680

Subject: NCR No. ABF-0010

Dated: 01-Mar-2011

Contract No.: 04-0120F4
04-SF-80-13.2 / 13.9

Job Name: SAS Superstructure

Document No.: ABF-NPR-000741 **Rev:** 01

Contractor's Proposed Resolution:

Reference Resolution:

Please see the attached ABFJV responses to the Caltrans incident report items.

Concerning welding without requesting prior permission of the Engineer, ABFJV QC has clarified with welding production that in such cases the prior permission of the Engineer is required.

Submitted by: Kanapicki, Charles

Attachment(s): ABF-NPR-000741R01;;

Caltrans' comments:

Status: CLO

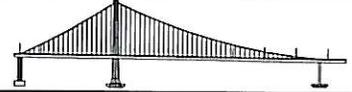
Date: 01-Mar-2011

Department has reviewed and accepted ABFJV response to CT-022 and CT-040 two incident reports which related to this NCR. Since ABF-NPR-000741R01 addresses the corrective action required to ensure Engineer's approval is obtained before similar weld repairs are done in the future. Therefore, NCR #ABF-0010 can be closed out.

Submitted by: Liu, Tai-Lin

Date: 01-Mar-2011

Attachment(s):



Project: SFOBB Self-Anchored Suspension Bridge		Contract No.: 04-0120F4	
Initiated by: Caltrans/METS		Date: 3/26/10	NCR No. CT- 022 <i>CTL</i>
<input type="checkbox"/> American Bridge/Fluor		<input type="checkbox"/> Supplier	
<input type="checkbox"/> Other			
Hold Tag Yes No	Tag Description:	Tag No.:	
Area/Location 3E/4E-A5	Piece No. NA	Discipline/Responsibility: Welding	
DWG. No./Rev. NA	Spec./Rev. SP 8-3 "Welding"	Audit No. (If Applicable) NA	

DESCRIPTION OF NONCONFORMANCE

The Contractor repaired a 15mm crack in weld 3E/4E-A5 without the prior approval of the Engineer.
NOTE: This document is NOT an ABFJV NCR (see disposition below)

ROOT CAUSE	CAUSE CODE(S) _____
NA	

DISPOSITION	Use as is	Rework	Repair	Other
<p>NOTE: This document is being issued to address a CT incident report (CT - 022) by providing supporting NDE reports showing that the weld in question is complete and accepted by ABFJV QC. These reports are also included in the ABFJV Weekly Weld Report.</p>				

DISPOSITION BY _____ NA _____ Area Project and Operations Date Manager	Engineer Approval Req. Yes No _____ NA _____ Design Engineer Date
DISPOSITION COMPLETED BY _____ ABFJV QC _____ Contractor Date	

ACTION VERIFIED AND NON-CONFORMANCE CLOSED

VERIFICATION METHOD	INSPECTION	OTHER
DOC REVIEW		

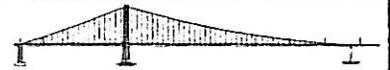
American Bridge/Fluor REPRESENTATIVE Charles J. Kanapicki, ABFJV QCM	DATE January 31, 2011
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AMERICAN BRIDGE/FLUOR-VERIFIED DISPOSITION AND RECOMMENDED CLOSURE OF NCR	
American Bridge/FLUOR QUALITY CONTROL DEPARTMENT Charles J. Kanapicki, ABFJV QCM	DATE January 31, 2011





SMITH-EMERY COMPANY



Project: SFOBB Self-Anchored Suspension Bridge

Contract No.: 04-0120F4

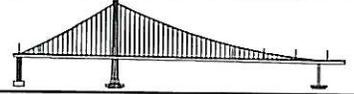
REPORT OF MAGNETIC PARTICLE EXAMINATION OF WELDS

PROJECT NO.: 64023-2	PROJECT NAME: SFOBB - SAS
LOCATION: Y.B.I., Oakland, CA	PROJECT ADDRESS: Y.B.I., Oakland, CA
Report #: MT-762	

DATE	Location	Weld I.D #	INTERPRETATION		REPAIRS		REMARKS
			ACCEPT	REJECT	ACCEPT	REJECT	
4.1.10	3E/4E	A5	✓				Y= +5055 to +5205
							(MTRK Y10-5280)
<p>Reviewed By J. S. Bowers - WQCM American Bridge / Fluor Joint Venture</p>							
<p>SIGN <u><i>[Signature]</i></u></p>							
<p>DATE APR 05 2010</p>							

We, the undersigned, certify that the statements in this record are correct and that the welds were prepared and tested in accordance with the requirements of the American Welding Society AWS D1.5, 2002 Bridge Welding Code.

Inspector: <u>TOM PASQUALONE</u>	Client: ABFJV
Test Date: <u>4.1.10</u>	Equipment Serial #: <u>15310</u>
Yoke Spacing: <u>2" - 4"</u>	Particle Mfg & Color: <u>Parker # 8 Red</u>
Method of Inspection: <u>AC Yoke- Continuous</u>	Calibration Due Date: <u>Calibrated Daily</u>
Welder I.D. Number: <u>A5</u>	Signature: <u><i>[Signature]</i></u>
<input checked="" type="checkbox"/> Dry	<input type="checkbox"/> Wet
<input type="checkbox"/> Residual	<input checked="" type="checkbox"/> AC
	<input type="checkbox"/> DC
	<input type="checkbox"/> Half-Wave



Project: SFOBB Self-Anchored Suspension Bridge

Contract No.: 04-0120F4

Initiated by: Caltrans/METS

Date: 4/21/10

NCR No: CT- 040
CJK

American Bridge/Fluor

Supplier

Other

Hold Tag

Yes No

Tag Description:

Tag No.:

Area/Location

2W/34-A1

Piece No. NA

Discipline/Responsibility: Welding

DWG. No./Rev. NA

Spec./Rev. SP 8-3 "Welding"

Audit No. (If Applicable) NA

DESCRIPTION OF NONCONFORMANCE

QA Inspector observed and noted, ABF welding personnel welded over the gaps identified in the Incident Report # CT-037 without requesting prior approval from the engineer, as required in ABF-RFI-002112R00.

NOTE: This document is NOT an ABFJV NCR (see disposition below)

ROOT CAUSE

CAUSE CODE(S)

NA

DISPOSITION

Use
as is

Rework

Repair

Other

NOTE: This document is being issued to address a CT incident report (CT - 040) by providing supporting NDE reports showing that the weld in question is complete and accepted by ABFJV QC. These reports are also included in the ABFJV Weekly Weld Report.

DISPOSITION BY

NA

Area Project and Operations
Manager

Date

Engineer Approval Req.

Yes

No

DISPOSITION

COMPLETED BY

ABFJV QC

1/31/11

Contractor

Date

NA

Design Engineer

Date

ACTION VERIFIED AND NON-CONFORMANCE CLOSED

VERIFICATION METHOD

DOC REVIEW

INSPECTION

OTHER

American Bridge/Fluor REPRESENTATIVE

Charles J. Kanapicki, ABFJV QCM

DATE

January 31, 2011

AMERICAN BRIDGE/FLUOR-VERIFIED DISPOSITION AND RECOMMENDED CLOSURE OF NCR

American Bridge/FLUOR QUALITY CONTROL DEPARTMENT

Charles J. Kanapicki, ABFJV QCM

DATE

January 31, 2011

2/3



SMITH-EMERY COMPANY



Project: SFOBB Self-Anchored Suspension Bridge

Contract No.: 04-0120F4

REPORT OF MAGNETIC PARTICLE EXAMINATION OF WELDS

PROJECT NO.: 64023-2	PROJECT NAME: SFOBB - SAS
LOCATION: Y.B.I., Oakland, CA	PROJECT ADDRESS: Y.B.I., Oakland, CA
Report #: MT- 1702	

DATE	Location	Weld I.D. #	INTERPRETATION		REPAIRS		REMARKS
			ACCEPT	REJECT	ACCEPT	REJECT	
4.26.10	2W/3W	A1	✓				R1@Y+3600MM @cover
4.26.10	2W/3W	A1	✓				R1@Y+4400MM @cover
4.26.10	2W/3W	A1	✓				R1@Y+4950MM @cover
							(MTCR Y40-5500) ^{WLA}
<p>Reviewed By J. S. Bowers - WQCM American Bridge / Fluor Joint Venture</p>							
SIGN <u><i>[Signature]</i></u>							
DATE <u>MAY 03 2010</u>							

We, the undersigned, certify that the statements in this record are correct and that the welds were prepared and tested in accordance with the requirements of the American Welding Society AWS D1.5, 2002 Bridge Welding Code.

Inspector:	STEVEN MCCONNELL	Client:	ABFJV
Test Date:	4.26.10	Equipment Serial #	15310
Yoke Spacing	2" - 4"	Particle Mfg & Color	Parker # 8 Red
Method of Inspection:	AC Yoke- Continuous	Calibration Due Date	Calibrated Daily
Welder I.D. Number:	A1	Signature	
<input checked="" type="checkbox"/> Dry	<input type="checkbox"/> Wet	<input checked="" type="checkbox"/> AC	<input type="checkbox"/> Half-Wave
<input type="checkbox"/> Residual	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> DC	

3/3



Smith-Emery Company



Project: SFOBB Self-Anchored Suspension Bridge

Contract No.: 04-0120F4

ULTRASONIC TESTING REPORT

Location of Testing: 2W/3W - A1
 Transducer Brand and Serial #: KRAUTKRAMER - OONDWB
 Transducer Dimensions: 16MM X 19MM
 U.T. Scope Brand and Serial #: USM 35 - 8517a
 Calibration Due Date: VERIFIED DAILY

Date: 4-26-10
 Technician: STEVEN MCCONNELL
 Welding Process: S.M.A.W.
 Acceptance Criteria Section: AWS D1.5, Tbl. 6.3
 Material Type and Thickness: A709-345 / 14 mm thk.

Report #: UT- 1257

Welder I.D.	Weld Number	Transducer angle	Front Face	Leg	Decibels				Discontinuity				Accept/Reject	Remarks	
					Indication Level	Reference Level	Attenuation factor	Indication rating	Length	Angular distance (south path)	Depth from "A" surface	Distance			
												a			b
0315	2W/3W-A1	70	A			51							A	R1@Y+3600MM	
0315	2W/3W-A1	70	A			51							A	R1@Y+4400MM	
0315	2W/3W-A1	70	A			51							A	R1@Y+4950MM	
														(UTOK Y+0-5500) ^{unit}	

Reviewed By
J. S. Bowers - WQCM
American Bridge / Fluor
Joint Venture

SIGN [Signature]

DATE MAY 03 2010

SE-UT-D1.5-CT-100 | UT-100-2

Signature: [Signature]

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 #: xx.25A**QUALITY ASSURANCE -- NON-CONFORMANCE RESOLUTION****Location:** Job Site**Report No:** NCS-000977**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 11-Mar-2011**Submitting Contractor:** American Bridge/Fluor Enterprises, a JV**NCR #:** ABF-0010**Type of problem:**

Welding	Concrete	Other	
Welding	Curing	Procedural	Bridge No: 34-0006
Joint fit-up	Coating	Other	Component:
Procedural	Procedural	Description:	

Date the Non-Conformance Report was written: 27-Apr-2010**Description of Non-Conformance:**

This NCR addresses repairs performed without engineer approval at the following locations:

QA Inspector observed ABF welding personnel welding over gaps @ F.S 2W/3W where the gap between the backing bar and the underside of the deck plate exceeded 2mm (3-7mm, and 3-9mm) without requesting prior approval from the engineer, as required in ABF-RFI-002112R00.

QA inspector observed that the Contractor repaired a 15mm crack in weld 3E/4E-A5 without the prior approval of the Engineer.

Contractor's proposal to correct the problem:

NDE was performed for welds from Incidents CT-22 and CT-40 and were approved by QC. All supporting documentation was provided. Contractor's QC has clarified with welding production that in such cases the prior permission of the Engineer is required.

Corrective action taken:**Did corrective action require Engineer's approval?** Yes No**If so, name of Engineer providing approval:****Date:****Is Engineer's approval attached?** Yes No**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: Dagher, Bahjat

Quality Assurance Inspector

QUALITY ASSURANCE -- NON-CONFORMANCE RESOLUTION

(Continued Page 2 of 2)

Reviewed By: Choy,Nina

QA Reviewer