

**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 #: 69.25B**QUALITY ASSURANCE -- NON-CONFORMANCE REPORT****Location:** Changxing Island, Shanghai, P.R. China**Report No:** NCR-000505**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 12-Nov-2009**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0478**Type of problem:**

<b>Welding</b>	<b>Concrete</b>	<b>Other</b>	
<b>Welding</b>	<b>Curing</b>	<b>Procedural</b>	<b>Bridge No:</b> 34-0006
<b>Joint fit-up</b>	<b>Coating</b>	<b>Other</b>	<b>Component:</b> OBG Crossbeam CB5
<b>Procedural</b>	<b>Procedural</b>	<b>Description:</b>	

**Reference Description:** Longitudinal Linear Indication was discovered by UT in CB5 after the contractor's NDT acceptance

**Description of Non-Conformance:**

Caltrans Quality Assurance (QA) Inspector performed Ultrasonic Testing (UT) of the FCW corner joints of OBG crossbeam designated CB5, weld joint CB202A-005-017. The QA inspector discovered one (1) class "A" rejectable Longitudinal Linear Indication in the CB202A-005-017 weld. This weld has been previously tested and accepted by the contractor.

The Y location of the Class "A" rejectable Longitudinal Linear Indication is at Y location = 3940mm. This location was taken from the north end of the Crossbeam.

**Applicable reference:**

1. AWS D1.5-02 Section 6.6.2: "The Contractor shall be responsible for visual inspection and NDT described in 6.7 and necessary correction of all deficiencies in materials and workmanship in conformance with the requirements of Clause 3 and 6.26 and as specified elsewhere in the contract documents."

2. AWS D1.5-02 Section 6.26.3.1: "Welds that are subject to UT in addition to visual inspection shall be acceptable if they meet the following requirements:

(1) Welds subject to tensile stress under any condition of loading shall conform to the requirements of Table 6.3.

3. AWS D1.5-02 Section 6.26.1.1: "The welds shall have no Cracks."

**Who discovered the problem:** Steve Hall**Name of individual from Contractor notified:** Steve Lawton**Time and method of notification:** 1000 hours, Verbal**Name of Caltrans Engineer notified:** Ching Chao and Bill Howe**Time and method of notification:** 1200 hours, Verbal

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## QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

( Continued Page 2 of 2 )

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**QC Inspector's Name:** Lay Tao

**Was QC Inspector aware of the problem:** Yes No

**Contractor's proposal to correct the problem:**

N/A

**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, +(86) 134.7247.7571, who represents the Office of Structural Materials for your project.

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**Inspected By:** Carreon,Albert

Lead Reviewer/Task Leader

**Reviewed By:** Wahbeh,Mazen

SMR

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**DEPARTMENT OF TRANSPORTATION - District 4 Toll Bridge**

333 Burma Road  
Oakland CA 94607  
Tel: Fax:

**NON-CONFORMANCE REPORT TRANSMITTAL**

<b>To:</b>	AMERICAN BRIDGE/FLUOR, A JV 375 BURMA ROAD OAKLAND CA 95607	<b>Date:</b>	11-Dec-2009
<b>Dear:</b>	Mr. Charles Kanapicki	<b>Contract No:</b>	04-0120F4 04-SF-80-13.2 / 13.9
<b>Attention:</b>	Mr. Thomas Nilsson Project/Fabrication Manager	<b>Job Name:</b>	SAS Superstructure
<b>Subject:</b>	NCR No. ZPMC-0478	<b>Document No:</b>	05.03.06-000468

**Reference Description:** Longitudinal Linear Indication was discovered by UT in CB5 after the contractor's NDT acceptance

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.

**Material Location:** Xbeam **Lift:** 05

**Remarks:**

Caltrans Quality Assurance (QA) Inspector performed Ultrasonic Testing (UT) of the FCW corner joints of OBG crossbeam designated CB5, weld joint CB202A-005-017. The QA inspector discovered one (1) class "A" rejectable Longitudinal Linear Indication in the CB202A-005-017 weld. This weld has been previously tested and accepted by the contractor. The Y location of the Class "A" rejectable Longitudinal Linear Indication is at Y location = 3940mm. This location was taken from the north end of the Crossbeam.

**Action Required and/or Action Taken:**

Submit a repair procedure to the engineer for approval.

**Transmitted by:** Bill Howe

**Attachments:** ZPMC-0478

**cc:** Rick Morrow, Gary Pursell, Peter Siegenthaler, Stanley Ku, Brian Boal, Jason Tom, Contract Files, Ching Chao

**File:** 05.03.06

## NCR PROPOSED RESOLUTION

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

**Attention:** Pursell, Gary  
Resident Engineer

**Ref:** 05.03.06-000468

**Subject:** NCR No. ZPMC-0478

**Dated:** 18-Jan-2010

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

**Job Name:** SAS Superstructure

**Document No.:** ABF-NPR-000513 Rev: 00

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### Contractor's Proposed Resolution:

**Reference Resolution:** As a means of preventing future occurrences, the ABF QCM has performed refresher UT training. See attached UT training agenda and attendance roster.

As it is necessary to respond to the NCR with a proposed plan of action, ABF is doing so without all of the repair documentation at this time. As a means of preventing future occurrences, the ABF QCM has performed refresher UT training. See attached UT training agenda and attendance roster. The ABF QCM has been discussing missed UT indications with the ZPMC QCM and related NDT supervisory personnel. The ZPMC level III is in the process of assessing personnel, techniques and equipment. ABF has purchased GE Technology transducers to distribute to both ZPMC and ABF UT personnel in a cooperative effort to match the equipment of CT. These transducers will arrive to the job site approximately the end of January 10 at which time they will be put into immediate use. ZPMC requests this NCR be placed in the Approved Action Pending status category until such time that all the repair documents have been assembled and submitted.

**Submitted by:** Lawton, Steve

**Attachment(s):** ABF-NPR-000513R00;

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### Caltrans' comments:

**Status:** AAP

**Date:** 25-Jan-2010

The preventative measures taken by the QCM and the proposed resolution for closing NCR submitted by the contractor are acceptable. The NCR will be closed upon completion of the repair and review of the repair documents by the Engineer when submitted by the contractor.

**Submitted by:** Chao, Ching

**Attachment(s):**

**Date:** 25-Jan-2010

# UT Refresher Training Agenda

**Subject:** UT Techniques

**Reason for Training:** Several CT NCR's for missed UT indications

**1. Safety**

- a. Safety Glasses
- b. Gloves (if required)
- c. Knee Pads
- d. Electrical Shock

**2. Tools**

- a. Calibrated UT Machine      condition of machine
- b. Coaxial cable                      condition of cable
- c. Transducer                      condition of transducer
- d. IIW Block
- e. Scraper
- f. UT couplant

**3. Inspection Techniques**

- a. Surface preparation
- b. Location of weld                      UT from beveled plate
- c. Scanning patterns
- d. Correct choice of Angles
- e. Calibration                      per ZPMC procedure at regular intervals
- f. Scanning speed
- g. Know where your sound is at.... First leg, second leg etc...

**4. Inspection Criteria**

- a. Table 6.3 or Table 6.4
- b. Are surface inspections complete    VT and or MT should always occur before UT
- c. Scanning Levels
- d. Criteria dictated by the thinner of the two members
- e. Planar flaws



教育培训纪录

培训编号:

培训内容:	UT复习培训教程 UT Techniques
培训对象:	ZPMC UT GUYS
授课人员:	STEVE LAWTON
培训类型:	UT Refresher Training Agenda
培训时间:	2009. 12. 24. 16:30
计划培训地点:	ZPMC NDT OFFICE

人员签到:

姓名	部门	姓名	部门
戴建 dai jian	江江 Jiang Jiang		
薛宇 xuellanyong	黄廷 Huang Ting		
马志长 Majizhang	黄廷 Huang Ting		
谭善 Tanxingshan	李黎明 Li Liming		
马健 Majian	李黎明 Li Liming		
王福 Wangfu	徐军 Xu Jun		
沈健 Shen Jian	李黎明 Li Liming		
黄宇 Huang Yu			
金峰 Jin Feng			
吴文 Wu Wen			
解建 Xie Jian			
周海周 Zhou Hai			
徐峰 Xu Feng			

## NCR PROPOSED RESOLUTION

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

**Attention:** Pursell, Gary  
Resident Engineer

**Ref:** 05.03.06-000468

**Subject:** NCR No. ZPMC-0478

**Dated:** 12-Apr-2010

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

**Job Name:** SAS Superstructure

**Document No.:** ABF-NPR-000513 Rev: 01

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### Contractor's Proposed Resolution:

**Reference Resolution:** ZPMC is providing documents to show that the non conformance documented has been rectified. Based on this ZPMC requests closure of this NCR.

ZPMC is providing documents to show that the non conformance documented has been rectified. Based on this ZPMC requests closure of this NCR.

**Submitted by:** Ishibashi, Joshua

**Attachment(s):** ABF-NPR-000513R01;

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### Caltrans' comments:

**Status:** AAP

**Date:** 20-Apr-2010

This proposed resolution is acceptable. Closing of NCR ZPMC 0478 is pending on documentations that support the claim that "The UT rejection has been removed, repaired, retested, and accepted.

**Submitted by:** Ku, Stanley

**Date:** 20-Apr-2010

**Attachment(s):**



No. B-617

## LETTER OF RESPONSE

**TO: American Bridge/Flour**

**DATE: 2010-2-23**

**REGARDING: NCR-000505(ZPMC-0478)**

With this letter of response, ZPMC requests closure of CT NCR-000505(ZPMC-0478) what mentioned that CT inspector observed missed UT indication by ZPMC QC.

- The UT rejection has been removed, repaired, retested and accepted.
- Related Punch List Item 171 has been confirmed and closed by CT.

Base on the taken actions and responses above, ZPMC requests closure of this NCR.

**ATTACHMENT:**

NCR-000505(ZPMC-0478)

*[Handwritten signature]*  
2/23/10



DEPARTMENT OF TRANSPORTATION - District 4 Toll Bridge  
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:** 11-Dec-2009

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

**Dear:** Mr. Charles Kanapicki

**Job Name:** SAS Superstructure

**Attention:** Mr. Thomas Nilsson Project/Fabrication Manager

**Document No:** 05.03.06-000468

**Subject:** NCR No. ZPMC-0478

**Reference Description:** Longitudinal Linear Indication was discovered by UT in CB5 after the contractor's NDT acceptance

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.

**Material Location:** Xbeam **Lift:** 05

### Remarks:

Caltrans Quality Assurance (QA) Inspector performed Ultrasonic Testing (UT) of the FCW corner joints of OBG crossbeam designated CB5, weld joint CB202A-005-017. The QA inspector discovered one (1) class "A" rejectable Longitudinal Linear Indication in the CB202A-005-017 weld. This weld has been previously tested and accepted by the contractor.

The Y location of the Class "A" rejectable Longitudinal Linear Indication is at Y location = 3940mm. This location was taken from the north end of the Crossbeam.

### Action Required and/or Action Taken:

Submit a repair procedure to the engineer for approval.

**Transmitted by:** Bill Howe

**Attachments:** ZPMC-0478

**cc:** Rick Morrow, Gary Pursell, Peter Siegenthaler, Stanley Ku, Brian Boal, Jason Tom, Contract Files, Ching Chao

**File:** 05.03.06

**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 #: 04-0120F4  
 Cty: SF/ALA Rte: 80 PM: 13.2/13.9  
 File #: 69.25B

## QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

**Location:** Changxing Island, Shanghai, P.R. China

**Report No:** NCR-000505

**Prime Contractor:** American Bridge/Fluor Enterprises, a JV

**Date:** 12-Nov-2009

**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island

**NCR #:** ZPMC-0478

### Type of problem:

**Welding**  **Concrete**  **Other**

**Welding**  **Curing**  **Procedural**  **Bridge No:** 34-0006

**Joint fit-up**  **Coating**  **Other**  **Component:** OBG Crossbeam CB5

**Procedural**  **Procedural**  **Description:**

**Reference Description:** Longitudinal Linear Indication was discovered by UT in CB5 after the contractor's NDT acceptance

### Description of Non-Conformance:

Caltrans Quality Assurance (QA) Inspector performed Ultrasonic Testing (UT) of the FCW corner joints of OBG crossbeam designated CB5, weld joint CB202A-005-017. The QA inspector discovered one (1) class "A" rejectable Longitudinal Linear Indication in the CB202A-005-017 weld. This weld has been previously tested and accepted by the contractor.

The Y location of the Class "A" rejectable Longitudinal Linear Indication is at Y location = 3940mm. This location was taken from the north end of the Crossbeam.

### Applicable reference:

1. AWS D1.5-02 Section 6.6.2: "The Contractor shall be responsible for visual inspection and NDT described in 6.7 and necessary correction of all deficiencies in materials and workmanship in conformance with the requirements of Clause 3 and 6.26 and as specified elsewhere in the contract documents."

2. AWS D1.5-02 Section 6.26.3.1: "Welds that are subject to UT in addition to visual inspection shall be acceptable if they meet the following requirements:

(1) Welds subject to tensile stress under any condition of loading shall conform to the requirements of Table 6.3.

3. AWS D1.5-02 Section 6.26.1.1: "The welds shall have no Cracks."

**Who discovered the problem:** Steve Hall

**Name of individual from Contractor notified:** Steve Lawton

**Time and method of notification:** 1000 hours, Verbal

**Name of Caltrans Engineer notified:** Ching Chao and Bill Howe

**Time and method of notification:** 1200 hours, Verbal

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## QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

( Continued Page 2 of 2 )

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**QC Inspector's Name:** Lay Tao

**Was QC Inspector aware of the problem:**  Yes  No

**Contractor's proposal to correct the problem:**

N/A

**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, +(86) 134.7247.7571, who represents the Office of Structural Materials for your project.

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**Inspected By:** Carreon,Albert

Lead Reviewer/Task Leader

**Reviewed By:** Wahbeh,Mazen

SMR

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## NCR PROPOSED RESOLUTION

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

**Attention:** Pursell, Gary  
Resident Engineer

**Ref:** 05.03.06-000468

**Subject:** NCR No. ZPMC-0478

**Dated:** 06-May-2010

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

**Job Name:** SAS Superstructure

**Document No.:** ABF-NPR-000513 **Rev:** 02

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**Contractor's Proposed Resolution:**

**Reference Resolution:** ZPMC has repaired the missed indication and is providing the NDT to show the weld is now acceptable. Based on this, ZPMC requests closure of this NCR.

ZPMC has repaired the missed indication and is providing the NDT to show the weld is now acceptable. Based on this, ZPMC requests closure of this NCR.

**Submitted by:** Ishibashi, Joshua

**Attachment(s):** ABF-NPR-000513R02;

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**Caltrans' comments:**

**Status:** CLO

**Date:** 10-May-2010

This proposed resolution is acceptable. The documentation received is sufficient and the Department concurs that Non-Conformance ZPMC-0478 is closed.

**Submitted by:** Eagen, Sean

**Attachment(s):**

**Date:** 10-May-2010



No. B-746

## LETTER OF RESPONSE

**TO:** American Bridge/Flour

**DATE:** 2010-5-6

**REGARDING:** NCR-000505(ZPMC-0478)

ZPMC is providing the NDT record as Engineer's request. Please review and close this NCR.

**ATTACHMENT:**

NCR-000505(ZPMC-0478)

B787-UT-10683 R1

A handwritten signature in black ink, appearing to be 'J. W.' with a stylized flourish.

5/6/10



DEPARTMENT OF TRANSPORTATION - District 4 Toll Bridge  
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:** 11-Dec-2009

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

**Dear:** Mr. Charles Kanapicki  
**Attention:** Mr. Thomas Nilsson Project/Fabrication Manager

**Job Name:** SAS Superstructure

**Subject:** NCR No. ZPMC-0478

**Document No:** 05.03.06-000468

**Reference Description:** Longitudinal Linear Indication was discovered by UT in CB5 after the contractor's NDT acceptance

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

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- Non-Conformance Resolved.

**Material Location:** Xbeam

**Lift:** 05

### Remarks:

Caltrans Quality Assurance (QA) Inspector performed Ultrasonic Testing (UT) of the FCW corner joints of OBG crossbeam designated CB5, weld joint CB202A-005-017. The QA inspector discovered one (1) class "A" rejectable Longitudinal Linear Indication in the CB202A-005-017 weld. This weld has been previously tested and accepted by the contractor.

The Y location of the Class "A" rejectable Longitudinal Linear Indication is at Y location = 3940mm. This location was taken from the north end of the Crossbeam.

### Action Required and/or Action Taken:

Submit a repair procedure to the engineer for approval.

**Transmitted by:** Bill Howe

**Attachments:** ZPMC-0478

**cc:** Rick Morrow, Gary Pursell, Peter Siegenthaler, Stanley Ku, Brian Boal, Jason Tom, Contract Files, Ching Chao

**File:** 05.03.06

**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 #: 69.25B**QUALITY ASSURANCE -- NON-CONFORMANCE REPORT****Location:** Changxing Island, Shanghai, P.R. China**Report No:** NCR-000505**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 12-Nov-2009**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0478**Type of problem:**Welding  Concrete  Other Welding  Curing  Procedural  Bridge No: 34-0006Joint fit-up  Coating  Other  Component: OBG Crossbeam CB5Procedural  Procedural  Description:**Reference Description:** Longitudinal Linear Indication was discovered by UT in CB5 after the contractor's NDT acceptance**Description of Non-Conformance:**

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3. AWS D1.5-02 Section 6.26.1.1: "The welds shall have no Cracks."

**Who discovered the problem:** Steve Hall**Name of individual from Contractor notified:** Steve Lawton**Time and method of notification:** 1000 hours, Verbal**Name of Caltrans Engineer notified:** Ching Chao and Bill Howe**Time and method of notification:** 1200 hours, Verbal

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## QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

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( Continued Page 2 of 2 )

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QC Inspector's Name: Lay Tao

Was QC Inspector aware of the problem:  Yes  No

Contractor's proposal to correct the problem:

N/A

**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, +(86) 134.7247.7571, who represents the Office of Structural Materials for your project.

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Inspected By: Carreon,Albert

Lead Reviewer/Task Leader

Reviewed By: Wahbeh,Mazen

SMR

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**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

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Quality Assurance and Source Inspection



Bay Area Branch  
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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:** Changxing Island, Shanghai, P.R. China**Report No:** NCS-000651**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 10-May-2010**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0478**Type of problem:**

<b>Welding</b>	<b>Concrete</b>	<b>Other</b>	
<b>Welding</b>	<b>Curing</b>	<b>Procedural</b>	<b>Bridge No:</b> 34-0006
<b>Joint fit-up</b>	<b>Coating</b>	<b>Other</b>	<b>Component:</b>
<b>Procedural</b>	<b>Procedural</b>	<b>Descriptor:</b>	

**Date the Non-Conformance Report was written:** 12-Nov-2009**Description of Non-Conformance:**

Caltrans Quality Assurance (QA) Inspector performed Ultrasonic Testing (UT) of the FCW corner joints of OBG crossbeam designated CB5, weld joint CB202A-005-017. The QA inspector discovered one (1) class "A" rejectable Longitudinal Linear Indication in the CB202A-005-017 weld. This weld has been previously tested and accepted by the contractor.

The Y location of the Class "A" rejectable Longitudinal Linear Indication is at Y location = 3940mm. This location was taken from the north end of the Crossbeam.

**Contractor's proposal to correct the problem:**

Repair said indication and perform NDT required to verify weld quality, and provide refresher training to NDT technicians.

**Corrective action taken:**

Contractor submitted NDT data verifying weld is now in conformance with Contract weld quality requirements and said indication has been repaired. Supplemental training was provided to NDT technicians to prevent future occurrences.

**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 Jim Simoinis, who represents the Office of Structural Materials for your project.

**Inspected By:** Simonis, Jim

Quality Assurance Inspector

**Reviewed By:** Wahbeh, Mazen

QA Reviewer