

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-000493

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 20-Oct-2009

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

NCR #: ZPMC-0466

Type of problem:

Welding	Concrete	Other	
Welding	Curing	Procedural	Bridge No: 34-0006
Joint fit-up	Coating	Other	Component: OBG Lift 5E Cantilever Bike Path Bracket
Procedural	Procedural	Description:	

Reference Description: Repair of cracks without CWR on Cantilever Bike Path Bracket for Lift 5E

Description of Non-Conformance:

During random visual inspection the Caltrans Quality Assurance (QA) Inspector observed weld repairs were performed on cracks in the fillet welds on the top cope hole cover plates on plates BKX4A and BKX4B of BK001-017. Carbon air arc gouging was used to remove the cracks. NDT was not performed on the excavated area to insure the defect was completely removed. The weld repair was performed with the Flux Cored Arc Welding (FCAW) process. The fillet welds of the cover plate do not have a designated weld numbers for identification. These repairs were performed without an approved welding procedure and the Engineer's approval. These cracks were found on Oct 15, 2009. (see NCR ZPMC-0452)



Applicable reference:

Special Provisions: SECTION 8-3 WELDING

“The Engineer shall be notified immediately in writing when welding problems, deficiencies, base metal repairs, or any other type of repairs not submitted in the WQCP are discovered and also of the proposed repair procedures to correct them. For requests to perform repairs, the Contractor shall include an engineering evaluation of the proposed repair. The engineering evaluation, at a minimum, shall include what is causing the

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

defects, why the repairs will not degrade the material properties, and what steps are being taken to prevent similar defects from happening again in the future.”

Who discovered the problem: Dan Hernandez

Name of individual from Contractor notified: Kevin Chang

Time and method of notification: 1430 hours, Verbal

Name of Caltrans Engineer notified: Ching Chao

Time and method of notification: 1600 hours, verbal

QC Inspector's Name: Xu Yumin

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.

Inspected By: Carreon,Albert

Lead Reviewer/Task Leader

Reviewed By: Wahbeh,Mazen

SMR



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: 04-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: 05.03.06-000456

Subject: NCR No. ZPMC-0466

Reference Description: Repair of cracks without CWR on Cantilever Bike Path Bracket for Lift 5E

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: Bike Path **Lift:** 05

Remarks:

During random visual inspection the Caltrans Quality Assurance (QA) Inspector observed weld repairs were performed on cracks in the fillet welds on the top cope hole cover plates on plates BKX4A and BKX4B of BK001-017. Carbon air arc gouging was used to remove the cracks. NDT was not performed on the excavated area to insure the defect was completely removed. The weld repair was performed with the Flux Cored Arc Welding (FCAW) process. The fillet welds of the cover plate do not have a designated weld numbers for identification. These repairs were performed without an approved welding procedure and the Engineer's approval. These cracks were found on Oct 15, 2009. (see NCR ZPMC-0452)

Action Required and/or Action Taken:

Submit a repair procedure to the engineer for approval.

Transmitted by: Bill Howe

Attachments: ZPMC-0466

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: 05.03.06-000456

Subject: NCR No. ZPMC-0466

Dated: 25-Jan-2010

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000540 Rev: 00

Contractor's Proposed Resolution:

Reference Resolution: ZPMC will provide explanation of measures that they took to correct the issue documented in the NCR. In addition, NDT documentation will be provided to show the repairs in question are acceptable.

ZPMC will provide explanation of measures that they took to correct the issue documented in the NCR. In addition, NDT documentation will be provided to show the repairs in question are acceptable. Based on this ZPMC requests that this course of action be approved with action pending. When documents become available ZPMC will request closure of this NCR.

Submitted by: Ishibashi, Joshua

Attachment(s): ABF-NPR-000540R00

Caltrans' comments:

Status: AAP

Date: 26-Jan-2010

The proposed resolution provided by the contractor is accepted. The NCR will be closed once the required preventative measures are taken and repair documentation are submitted for the Engineer's review and acceptance.

Submitted by: Chao, Ching

Attachment(s):

Date: 26-Jan-2010

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000456

Subject: NCR No. ZPMC-0466

Dated: 18-Mar-2010

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000540 Rev: 01

Contractor's Proposed Resolution:

Reference Resolution: ZPMC is providing the NDT of the fillet welds to show that they are acceptable. In addition, ZPMC has issued an internal NCR to notify the QC to monitor the cover plates welds more closely.

ZPMC is providing the NDT of the fillet welds to show that they are acceptable. In addition, ZPMC has issued an internal NCR to notify the QC to monitor the cover plates welds more closely. Based on this ZPMC requests closure of this NCR.

Submitted by: Ishibashi, Joshua

Attachment(s): ABF-NPR-000540R01;

Caltrans' comments:

Status: CLO

Date: 24-Mar-2010

This proposed resolution is acceptable. The documentation received is sufficient and the Department concurs that Non-Conformance ZPMC-0466 is closed.

Submitted by: Eagen, Sean

Attachment(s):

Date: 24-Mar-2010



No. B-695

LETTER OF RESPONSE

TO: American Bridge/Flour

DATE: 2010-3-18

REGARDING: NCR-000479(ZPMC-0452) NCR-000493(ZPMC-0466)

Visual cracks were found on the fillet welds of cover plates near the end of X4A & X4B. These cover plates are welded over the cope to seal the inner space. ZPMC acknowledged this problem and has instructed the QC/CWI to enhance to monitor of the welding for the cover plates. ZPMC is providing the NDT record shows the soundness of these fillet welds. Based on this, ZPMC is requesting closure of this NCR.

ATTACHMENT:

NCR-000479(ZPMC-0452)

NCR-000493(ZPMC-0466)

B787-MT-20831

A handwritten signature in black ink, appearing to be "J. M. W.", is written over the attachment list.

3/18/10



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: 04-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: 05.03.06-000456

Subject: NCR No. ZPMC-0466

Reference Description: Repair of cracks without CWR on Cantilever Bike Path Bracket for Lift 5E

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: Bike Path

Lift: 05

Remarks:

During random visual inspection the Caltrans Quality Assurance (QA) Inspector observed weld repairs were performed on cracks in the fillet welds on the top cope hole cover plates on plates BKX4A and BKX4B of BK001-017. Carbon air arc gouging was used to remove the cracks. NDT was not performed on the excavated area to insure the defect was completely removed. The weld repair was performed with the Flux Cored Arc Welding (FCAW) process. The fillet welds of the cover plate do not have a designated weld numbers for identification. These repairs were performed without an approved welding procedure and the Engineer's approval. These cracks were found on Oct 15, 2009. (see NCR ZPMC-0452)

Action Required and/or Action Taken:

Submit a repair procedure to the engineer for approval.

Transmitted by: Bill Howe

Attachments: ZPMC-0466

cc: Rick Morrow, Gary Pursell, Peter Siegenthaler, Stanley Ku, Brian Boal, Jason Tom, Contract Files, Ching Chao
File: 05.03.06

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 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-000479

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 15-Oct-2009

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

NCR #: ZPMC-0452

Type of problem:

Welding Concrete Other

Welding Curing Procedural Bridge No: 34-0006

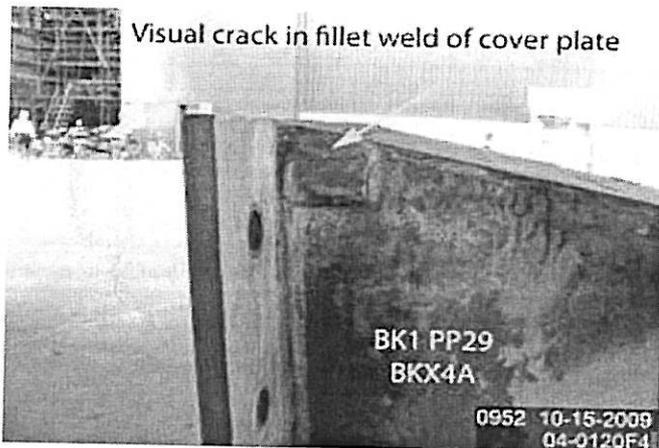
Joint fit-up Coating Other Component: 5AE Bike Path Cantilever Brackets BK1 @ PP29

Procedural Procedural Description: Visual Cracks on Bike Path Cantilever Brackets

Reference Description: Visual Cracks found on fillet welds of Bike Path Cantilever Brackets on 5AE PP29

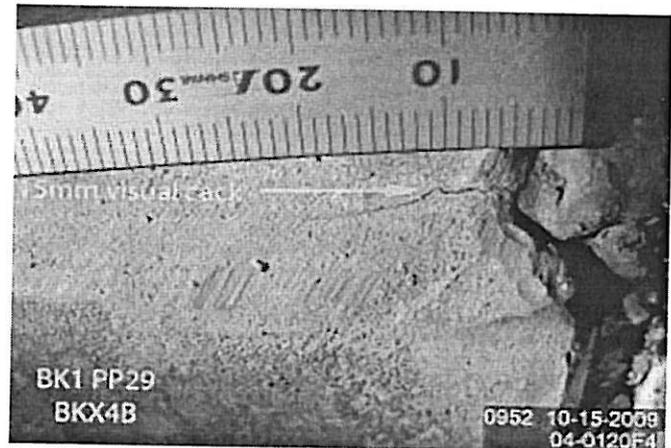
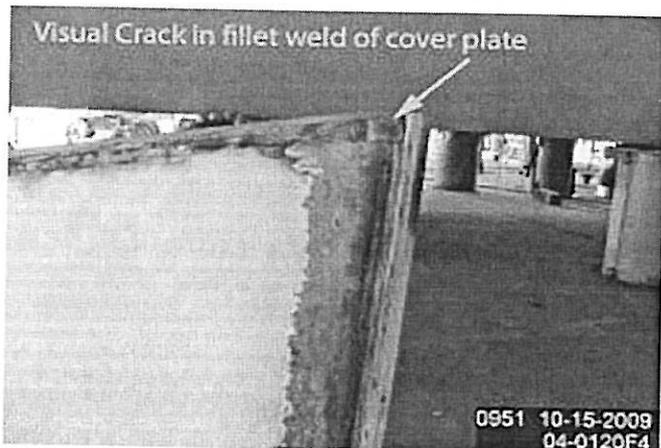
Description of Non-Conformance:

During a random visual inspection of OBG Segment 5AE Bike Path Cantilever Brackets (BK1), Caltrans Quality Assurance (QA) Inspector discovered visual cracks in the fillet welds on the top cope hole cover plates BKX4A and BKX4B at panel point 29. The visual crack observed on BKX4A measured 13mm in length and 15mm in length on BKX4B.



QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)



Applicable reference:

Special Provisions Section 8-3; "Quality Control (QC) shall be the responsibility of the Contractor. As a minimum, the Contractor shall perform inspection and testing of each weld joint prior to welding, during welding, and after welding as specified in this section and to ensure that materials and workmanship conform to the requirements of the contract documents."

AWS D1.5-2002 Section 6.26.1.1; The weld shall have no cracks.

Who discovered the problem: Daniel Hernandez

Name of individual from Contractor notified: Kevin Chen

Time and method of notification: 0930 hours, Verbal

Name of Caltrans Engineer notified: Ching Chao

Time and method of notification: 1030 hours, Email

QC Inspector's Name: Xu Yumin

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.

Inspected By: Carreon, Albert

Lead Reviewer/Task Leader

Reviewed By: Wahbeh, Mazen

SMR



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: 04-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: 05.03.06-000456

Subject: NCR No. ZPMC-0466

Reference Description: Repair of cracks without CWR on Cantilever Bike Path Bracket for Lift 5E

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: Bike Path **Lift:** 05

Remarks:

During random visual inspection the Caltrans Quality Assurance (QA) Inspector observed weld repairs were performed on cracks in the fillet welds on the top cope hole cover plates on plates BKX4A and BKX4B of BK001-017. Carbon air arc gouging was used to remove the cracks. NDT was not performed on the excavated area to insure the defect was completely removed. The weld repair was performed with the Flux Cored Arc Welding (FCAW) process. The fillet welds of the cover plate do not have a designated weld numbers for identification. These repairs were performed without an approved welding procedure and the Engineer's approval. These cracks were found on Oct 15, 2009. (see NCR ZPMC-0452)

Action Required and/or Action Taken:

Submit a repair procedure to the engineer for approval.

Transmitted by: Bill Howe

Attachments: ZPMC-0466

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

File: 05.03.06

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 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-000493

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 20-Oct-2009

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

NCR #: ZPMC-0466

Type of problem:

Welding Concrete Other

Welding Curing Procedural

Joint fit-up Coating Other

Procedural Procedural Description:

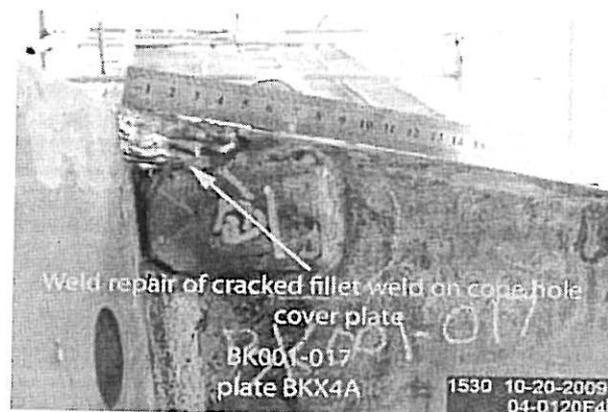
Bridge No: 34-0006

Component: OBG Lift 5E Cantilever Bike Path Bracket

Reference Description: Repair of cracks without CWR on Cantilever Bike Path Bracket for Lift 5E

Description of Non-Conformance:

During random visual inspection the Caltrans Quality Assurance (QA) Inspector observed weld repairs were performed on cracks in the fillet welds on the top cope hole cover plates on plates BKX4A and BKX4B of BK001-017. Carbon air arc gouging was used to remove the cracks. NDT was not performed on the excavated area to insure the defect was completely removed. The weld repair was performed with the Flux Cored Arc Welding (FCAW) process. The fillet welds of the cover plate do not have a designated weld numbers for identification. These repairs were performed without an approved welding procedure and the Engineer's approval. These cracks were found on Oct 15, 2009. (see NCR ZPMC-0452)



Applicable reference:

Special Provisions: SECTION 8-3 WELDING

"The Engineer shall be notified immediately in writing when welding problems, deficiencies, base metal repairs, or any other type of repairs not submitted in the WQCP are discovered and also of the proposed repair procedures to correct them. For requests to perform repairs, the Contractor shall include an engineering evaluation of the proposed repair. The engineering evaluation, at a minimum, shall include what is causing the

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

defects, why the repairs will not degrade the material properties, and what steps are being taken to prevent similar defects from happening again in the future.”

Who discovered the problem: Dan Hernandez

Name of individual from Contractor notified: Kevin Chang

Time and method of notification: 1430 hours, Verbal

Name of Caltrans Engineer notified: Ching Chao

Time and method of notification: 1600 hours, verbal

QC Inspector's Name: Xu Yumin

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.

Inspected By: Carreon,Albert

Lead Reviewer/Task Leader

Reviewed By: Wahbeh,Mazen

SMR



Nonconformance Report

不符合项报告

Project Name: S.F.O.B.B
项目名称: 美国加州海湾大桥

NCR Number:
NCR 编号: NCR-B-312(ZPMC-0466)

Item: Repair of cracks without CWR on cantilever bike path bracket
名称描述: 返修悬索支架上的裂纹没有开 CWR

Item Number:
件号: 5E BK

Drawing:
图号: N/A

Location: Assembly yard
位置: 外场

Date:
日期: 2009-12-18

Description of Nonconformance:

不符合项状态描述:

During random visual inspection the Caltrans Quality Assurance inspector observed weld repairs were performed on Cracks in the fillet welds on the top cope hole cover plates on plates BKX4A and BKX4B of BK001-017. Carbon air arc gouging was used to remove the cracks, NDT was not performed on the excavated area to insure the defect was completely removed, The weld repair was performed with the Flux Cored Arc Welding process, The fillet welds of of the cover plate do not have a designated weld numbers for identification. These repairs were performed without an approved welding procedure and the Engineer's approval, These cracks were found on Oct 15, 2009 (See NCR ZPMC-0452)

加州检验员发现 ZPMC 在去除悬臂梁上部靠近封板位置附近的过焊孔上的裂纹去除后并未作探伤用来保证裂纹完全消除。另外裂纹返修前也并未提交关键返修报告给加州工程师批准。

Work By: _____ **Prepared by:** _____ **Reviewed by QCE:** _____
施工方: _____ **准备:** _____ **质量工程师批准:** _____

Drawing Error **Material Defect** **Fabrication Error** **Other**
图纸错误 **材料缺陷** **制作错误** **其他原因**

Disposition: **Use as is** **Repair** **Reject**
处理措施: **回用** **返修** **拒收**

Recommendation:

建议:

Prepared by: _____ **Approved by QCA:** _____
准备 **质量经理批准**

Reason for Nonconformance:

不符合原因:

Prevention of Re-occurrence:

预防措施:

Approved by/批准: _____		
Technical Justification for Use-As-Is/Repair: 回用或返修的技术依据:	<input type="checkbox"/> Attachment 附件	<input type="checkbox"/> Non-attachment 无附件
Reviewed /批准: _____		
Verification: 确认:	<input type="checkbox"/> Acceptable 可接受	<input type="checkbox"/> Unacceptable 不可接受
Verified by QCI/质检确认: _____ Reviewed by QCA/质检主任审核: _____		

#R787-QCP-1300



Nonconformance Report

不符合项报告

Project Name: S.F.O.B.B 项目名称: 美国加州海湾大桥		NCR Number: NCR 编号: NCR-B-304(ZPMC-0452)	
Item: Visual Cracks found on BK 名称描述: 悬臂梁目检发现裂纹	Item Number: 件号: N/A	Drawing: 图号: BKX4A/BKX4B	
Location: OBG Trial assembly yard 位置: OBG 总拼场地		Date: 日期: 2009-11-27	

Description of Nonconformance:

不符合项状态描述:

During a random visual inspection of OBG 5AE bike path cantilever brackets (BK1), CT inspector discovered visual cracks in the fillet welds on the top cope hole cover plates BKX4A and BKX4B at panel point 29. The visual crack observed on BKX4A measured 13mm in length and 15mm in length on BKX4B.

在对 OBG 5AE 自行车道悬臂梁 (BK1) 的随机目检中, 加州检验员发现在 PP29 位置, BKX4A 和 BKX4B 顶部角焊缝过焊孔处目检发现裂纹。BKX4A 处目检裂纹长度 13mm, BKX4B 处目检裂纹长度 15mm。

参考标准: 标书章节 8-3, AWS D1.5 章节 6.26.1.1

Work By: 施工方:	Prepared by: 准备:	Reviewed by QCE: 质量工程师批准:	
<input type="checkbox"/> Drawing Error 图纸错误	<input type="checkbox"/> Material Defect 材料缺陷	<input type="checkbox"/> Fabrication Error 制作错误	<input type="checkbox"/> Other 其他原因

Disposition: 处理措施:	<input type="checkbox"/> Use as is 回用	<input type="checkbox"/> Repair 返修	<input type="checkbox"/> Reject 拒收
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Recommendation:

建议:

Prepared by: _____ 准备	Approved by QCA: _____ 质量经理批准
---------------------------------	---

Reason for Nonconformance:

不符合原因:

Prevention of Re-occurrence:

预防措施:

Approved by/批准: _____		
Technical Justification for Use-As-Is/Repair: 回用或返修的技术依据:	<input type="checkbox"/> Attachment 附件	<input type="checkbox"/> Non-attachment 无附件
Reviewed /批准: _____		
Verification: 确认:	<input type="checkbox"/> Acceptable 可接受	<input type="checkbox"/> Unacceptable 不可接受
Verified by QCI/质检确认: _____ Reviewed by QCA/质检主任审核: _____		

#R787-QCP-1300

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave. St. 150
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(707) 649-5453
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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-000577**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 23-Mar-2010**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0466**Type of problem:**

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

Date the Non-Conformance Report was written: 20-Oct-2009**Description of Non-Conformance:**

During random visual inspection the Caltrans Quality Assurance (QA) Inspector observed weld repairs were performed on cracks in the fillet welds on the top cope hole cover plates on plates BKX4A and BKX4B of BK001-017. Carbon air arc gouging was used to remove the cracks. NDT was not performed on the excavated area to insure the defect was completely removed. The weld repair was performed with the Flux Cored Arc Welding (FCAW) process. The fillet welds of the cover plate do not have a designated weld numbers for identification. These repairs were performed without an approved welding procedure and the Engineer's approval. These cracks were found on Oct 15, 2009. (see NCR ZPMC-0452)

Contractor's proposal to correct the problem:

Provide NDT documentation verifying weld quality

Corrective action taken:

Contractor submitted NDT report verifying welds are now in conformance with Contract specifications.

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 Simonis 152. 1675.3703, who represents the Office of Structural Materials for your project.

Inspected By: Simonis, Jim

Quality Assurance Inspector

Reviewed By: Wahbeh, Mazen

QA Reviewer