

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, PRC**Report No:** NCR-000182**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 01-Sep-2008**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0165**Type of problem:****Welding****Concrete****Other****Welding****Curing****Procedural****Bridge No:** 34-0006**Joint fit-up****Coating****Other****Component:** DP049-001, DP050-001, DP051-001, DP073-001, DP074-001, DP075-001, DP076-001, DP077-001, DP078-001, DP079-001, DP080-001, DP081-001, DP082-001, DP083-001, DP084-001, DP085-001, DP086-001, DP087-001, DP088-001, DP089-001, DP090-001, DP091-001, DP092-001, DP093-001, DP094-001, DP095-001, DP096-001, DP097-001, DP098-001, DP099-001, DP100-001, DP101-001, DP102-001, DP103-001, DP104-001, DP105-001, DP106-001, DP107-001, DP108-001, DP109-001, DP110-001, DP111-001, 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The Contractor has not complied with the written order of the Engineer to suspend work. The Contractor performed fit-up and tack welding of diaphragm plates to deck panels after the issuance of a State Letter directing the Contractor to suspend such work.

**Applicable reference:**

State Letter No. 05.03.01-002561, Temporary Suspension of Diaphragm Plate to Deck Plate Assembly, dated August 15, 2008.

Standard Specifications, Sec. 8-1.05 Temporary Suspension of Work: "The Engineer shall have the authority to suspend the work wholly or in part, for any time period as the Engineer deems necessary, due to unsuitable weather, or to such other conditions considered unfavorable for the suitable prosecution of the work, or for any time period as the Engineer deems necessary due to the failure on the part of the Contractor to carry out orders given, or to perform any provision of the contract. The Contractor shall immediately comply with the written order of the Engineer to suspend the work wholly or in part. The suspended work shall be resumed when conditions are favorable and methods are corrected, as ordered or approved in writing by the Engineer."

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Who discovered the problem: Caltrans Quality Assurance Robert H. Vatcher
Name of individual from Contractor notified: ABFJV QC Inspectors Art Peterson, Peter Shaw
Time and method of notification: Verbal notification at 1030 hrs.
Name of Caltrans Engineer notified: Kannu Balan
Time and method of notification: Verbal notification at 1030 hrs.
QC Inspector's Name: ZPMC QC Inspector Mr. Wang Lu
Was QC Inspector aware of the problem: Yes No
Contractor's proposal to correct the problem:

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 Abifhram Velasco, who represents the Office of Structural Materials for your project.

Inspected By:	Velasco,Abifhram	SMR
Reviewed By:	Velasco,Abifhram	SMR



DEPARTMENT OF TRANSPORTATION - District 4 Toll Bridge
666 Feng Bin Road Room 708, Changxing Island
Shanghai 201913 PR China
Tel: 021-56856666 ext 207061 Fax:

NON-CONFORMANCE REPORT TRANSMITTAL

To: AMERICAN BRIDGE/FLUOR, A JV
375 BURMA ROAD
OAKLAND CA 95607

Date: 09-Sep-2008

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

Dear: Mr. Charles Kanapicki

Job Name: SAS Superstructure

Attention: Mr. Dave Williams Consultant

Document No: 05.03.06-000157

Subject: NCR No. ZPMC-0165

Reference Description: Installation of Diaphragms on Various DP's

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: OBG **Lift:**

Remarks:

The Contractor has not complied with the written order of the Engineer to suspend work. The Contractor performed fit-up and tack welding of diaphragm plates to deck panels after the issuance of a State Letter directing the Contractor to suspend such work. Please refer to the attached NCR #ZPMC-0165 for details.

Action Required and/or Action Taken:

Propose a resolution for the identified non-conformance with revised procedures to prevent future occurrences.

Transmitted by: Ching Chao

Attachments: ZPMC-0165

cc: Rick Morrow, Gary Pursell, Peter Siegenthaler, Stanley Ku, Brian Boal, Doug Coe, 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: 05.03.06-000157

Subject: NCR No. ZPMC-0165

Dated: 11-Sep-2008

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000152 **Rev:** 00

Contractor's Proposed Resolution:

Reference Resolution: ZPMC was instructed to suspend further work on fitting and welding diaphragm plates to deck panels.

ZPMC was instructed several times to suspend further work on fitting and welding diaphragm plates to deck panels. If Rib to Deck welds covered by this diaphragm are deemed to be unacceptable by CT, ZPMC will have to provide a plan of repair.

Submitted by:

Attachment(s): ABF-NPR-000152R00

Caltrans' comments:

Status: AAP

Date: 08-Oct-2008

The response is acceptable, but the Non-Conformance is not closed.

Please provide documentation of the weld repairs that were performed and that the repairs were acceptable. The Department will review the Contractor's proposal to close Non-Conformance ZPMC-0165 at that time.

Submitted by: Wright, Doug

Date: 08-Oct-2008

Attachment(s):

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000157

Subject: NCR No. ZPMC-0165

Dated: 25-Nov-2008

Contract No.: 04-0120F 4
04-SF-80-13.2 / 13.9

Job Name: SAS Superstructure

Document No.: ABF-NPR-000152 **Rev:** 01

Contractor's Proposed Resolution:

Reference Resolution: ZPMC requests closure of this NCR based on attached documentation.

Please see attached documents.

Submitted by:

Attachment(s): ; ABF-NPR-000152R01

Caltrans' comments:

Status: AAP

Date: 08-Dec-2008

The response is acceptable, but the Non-Conformance is not closed.

The attachment did not include any Ultrasonic Testing (UT) documentation. Please provide UT documentation of the tack weld areas at the diaphragm locations. The Department will review the Contractor's proposal to close Non-Conformance ZPMC-0165 at that time.

Submitted by: Wright, Doug

Date: 09-Dec-2008

Attachment(s):



TRANSMITTAL LETTER

PROJECT: SAN FRANCISCO OAKLAND BAY BRIDGE

DATE: 11/25/2008

TO: RUBY/ ABFJV QA DEPARTMENT

FROM: ZPMC QA DEPARTMENT

SUBJECT: CALTRANS NCR FOR CLOSURE

SUBMITTED FOR YOUR APPROVAL.

ENCLOSED WITH THIS TRANSMITTAL IS ONE

- (1) COPY OF LETTER OF RESPONSE WITH NO.B-318 FOR CLOSURE.
- (2) COPY OF NCR WITH NUMBER NCR-000182(ZPMC-0165).
- (3) COPY OF ZPMC INTERNAL NCR
- (4) COPY OF THE CORRESPONDING MT REPORTS

PLEASE SIGN THIS TRANSMITTAL AND RETURN TO ME.

ACKNOWLEDGEMENT:



 PLAN HOLDER

RECEIVED 25 NOV 2008
 1430

 DATE



 COMPANY

 PHONE NO.

PLAN NUMBER: N/A
 #R787-QCP-102



No. B-318

LETTER OF RESPONSE

TO: American Bridge/Flour JV

DATE: 2008-11-25

REGARDING: NCR-000182(ZPMC-0165)

With this letter of response, ZPMC requests closure for Caltrans NCR-000182 (ZPMC-0165). As the comments from caltrans: please provide documentation that the weld repairs were performed and that the repairs were acceptable. So we submit the documentation as follow.

So ZPMC considers NCR-000182 (ZPMC-0165) can be closed.

Please check the attached documentation for acceptance and close the NCR-000182 (ZPMC-0165).

ATTACHMENT:

NCR-000182 (ZPMC-0165)

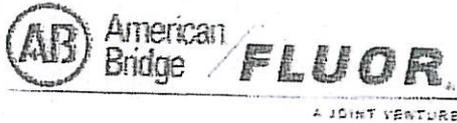
ZPMC internal NCR

The corresponding MT reports

ZhaoShuangbao

2008.11.25.

[Signature]
ABX QCM
25 Nov. 08



AMERICAN BRIDGE/FLUOR ENTERPRISES, a JV

P.O. BOX 23223 Oakland, CA 94623

Phone (510) 419-0120 / Fax (510) 839-0666

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000157

Subject: NCR No. ZPMC-0165

Dated: 11-Sep-2008

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000152 Rev: 00

Contractor's Proposed Resolution:

Reference Resolution: ZPMC was instructed to suspend further work on fitting and welding diaphragm plates to deck panels.

ZPMC was instructed several times to suspend further work on fitting and welding diaphragm plates to deck panels. If Rib to Deck welds covered by this diaphragm are deemed to be unacceptable by CT, ZPMC will have to provide a plan of repair.

Submitted by:

Attachment(s): ABF-NPR-000152R00

Caltrans' comments:

Status: AAP

Date: 08-Oct-2008

The response is acceptable, but the Non-Conformance is not closed.

Please provide documentation of the weld repairs that were performed and that the repairs were acceptable. The Department will review the Contractor's proposal to close Non-Conformance ZPMC-0165 at that time.

Submitted by: Wright, Doug

Attachment(s):

Date: 08-Oct-2008

Recommendation:

建议 部分位置通知停工要及时下发书面停工报告及时与生产沟通。

When the contractor requires suspend work, Issue suspend order immediately and communicate with production.

Prepared by: Zhang Yan Zhi
准备 08.11.10

Approved by QCA: _____
质量经理批准

Reason for Nonconformance:

不符合原因: 生产装配木模隔板时未收到书面停工报告。

Production didn't receive the order of suspend work before assembly diaphragm.

预防措施

部分位置通知停工要及时与相关人员联系确认后在进行施工。

When the contractor requires suspend work, issue suspend order immediately and communicate with production.

Approved by/批准: Zhang Yan Zhi, 08.11.10

Technical Justification for Use-As-Is/Repair:

Attachment

Non-attachment

回用或返修的技术依据:

附件

无附件

Reviewed /批准: _____

Verification:

Acceptable

Unacceptable

确认:

可接受

不可接受

Verified by QCI/质检确认: _____

Reviewed by QCA/质检主任审核: _____



DEPARTMENT OF TRANSPORTATION - District 4 Toll Bridge
666 Feng Bin Road Room 708, Changxing Island
Shanghai 201913 PR China
Tel: 021-56856666 ext 207061 Fax:

NON-CONFORMANCE REPORT TRANSMITTAL

To: AMERICAN BRIDGE/FLUOR, A JV
375 BURMA ROAD
OAKLAND CA 95607

Date: 09-Sep-2008

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

Dear: Mr. Charles Kanapicki
Attention: Mr. Dave Williams Consultant
Subject: NCR No. ZPMC-0165

Job Name: SAS Superstructure
Document No: 05.03.06-000157

Reference Description: Installation of Diaphragms on Various DP's

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: OBG

Lift:

Remarks:

The Contractor has not complied with the written order of the Engineer to suspend work. The Contractor performed fit-up and tack welding of diaphragm plates to deck panels after the issuance of a State Letter directing the Contractor to suspend such work.

Please refer to the attached NCR #ZPMC-0165 for details.

Action Required and/or Action Taken:

Propose a resolution for the identified non-conformance with revised procedures to prevent future occurrences.

Transmitted by: Ching Chao

Attachments: ZPMC-0165

cc: Rick Morrow, Gary Pursell, Peter Siegenthaler, Stanley Ku, Brian Boal, Doug Coe, 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, PRC

Report No: NCR-000182

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 01-Sep-2008

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

NCR #: ZPMC-0165

Type of problem:

Welding Concrete Other

Welding Curing Procedural

Joint fit-up Coating Other

Procedural Procedural **Descriptor:** OBG Deck Panels

Bridge No: 34-0006

Component: DP049-001, DP050-001, DP051-001, DP073-001, DPC

Reference Description: Installation of Diaphragms on Various DP's

Description of Non-Conformance:

The Contractor has not complied with the written order of the Engineer to suspend work. The Contractor performed fit-up and tack welding of diaphragm plates to deck panels after the issuance of a State Letter directing the Contractor to suspend such work.



Applicable reference:

State Letter No. 05.03.01-002561, Temporary Suspension of Diaphragm Plate to Deck Plate Assembly, dated August 15, 2008.

Standard Specifications, Sec. 8-1.05 Temporary Suspension of Work: "The Engineer shall have the authority to suspend the work wholly or in part, for any time period as the Engineer deems necessary, due to unsuitable weather, or to such other conditions considered unfavorable for the suitable prosecution of the work, or for any time period as the Engineer deems necessary due to the failure on the part of the Contractor to carry out orders given, or to perform any provision of the contract. The Contractor shall immediately comply with the written order of the Engineer to suspend the work wholly or in part. The suspended work shall be resumed when conditions are favorable and methods are corrected, as ordered or approved in writing by the Engineer."

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Who discovered the problem: Caltrans Quality Assurance Robert H. Vatcher

Name of individual from Contractor notified: ABFJV QC Inspectors Art Peterson, Peter Shaw

Time and method of notification: Verbal notification at 1030 hrs.

Name of Caltrans Engineer notified: Kannu Balan

Time and method of notification: Verbal notification at 1030 hrs.

QC Inspector's Name: ZPMC QC Inspector Mr. Wang Lu

Was QC Inspector aware of the problem: Yes No

Contractor's proposal to correct the problem:

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 Abifhram Velasco, who represents the Office of Structural Materials for your project.

Inspected By: Velasco, Abifhram

SMR

Reviewed By: Velasco, Abifhram

SMR



REPORT OF MAGNETIC PARTICLE EXAMINATION

磁粉检测报告

REPORT NO. 报告编号 B787-MT-5002		DATE日期 2008.09.20		PAGE OF页码 1/1	Revision No: 0	
PROJECT NO. 工程编号: ZP06-787			CONTRACTOR: 用户: CALTRANS			
DRAWING NO. 图号: DP051 OBG U-RIB+FLOOR BEAM			CALTRANS CONTRACT NO.: 加州工程编号 04-0120F4			
REFERENCING CODE 参考规范编码 AWS D1.5-2002	ACCEPTANCE STANDARD 接受标准 AWS D1.5-2002	PROCEDURE NO. 程序编号 ZPQC-MT-01		CALIBRATION DUE DATE 仪器校正有效期 Dec. 28 ST , 2008		
EQUIPMENT 设备 MT YOKE	MANUFACTURER 制造商 PARKER	MODEL NO. 样式编号 B310S		SERIAL NO. 连续编号 5395 5617 5620		
MAGNETIZING METHOD 磁化方法	Continuous magnetic yoke 磁轭式连续法	CURRENT 电流		AC		
PARTICLE TYPE 磁粉类型	Dry magnet powder 干磁粉	YOKE SPACING 磁轭间距		70~150mm		
MATERIAL TO BE EXAMINED 检测材料	<input checked="" type="checkbox"/> WELDING 焊接件 <input type="checkbox"/> CASTING 铸件 <input type="checkbox"/> FORGING 锻造	Material & thickness 母材, 厚度		A709M-345T2-X-S 12/14mm		
WELDING PROCESS 焊接方法	N/A	TYPE OF JOINT 焊缝类型		N/A		
WELD I.D. 焊缝编号	DISCONTINUITY不连续性			ACCEPT 接受	REJECT 拒收	REMARKS 备注
	INDICATION 指示	TYPE 类型	LENGTH IN mm 长度			
DP051+FLOOR BEAM				ACC.		TACK WELDING AREA
BLANK						
EXAMINED BY 主探 <u>Car Xin Xin</u> 2008.09.20 LEVEL - II SIGN 签名 / DATE日期			REVIEWED BY 审核 <u>[Signature]</u> 2008.09.20 LEVEL-II SIGN / DATE日期			
质量经理 / QCM <u>Hubei</u> 签字 SIGN / 日期 DATE 10.10			用户 CUSTOMER _____ 签字 SIGN / 日期 DATE			

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000157

Subject: NCR No. ZPMC-0165

Dated: 08-Jan-2009

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000152 Rev: 02

Contractor's Proposed Resolution:

Reference Resolution: ZPMC requests closure of this NCR based on attached documentation.

Please see attached documents.

Submitted by:

Attachment(s): docs to close NCR ZPMC-0165; ABF-NPR-000152R02

Caltrans' comments:

Status: RE J

Date: 18-Jan-2009

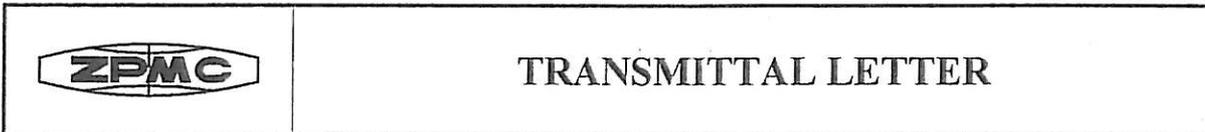
The proposed resolution is not acceptable.

The attachment did not include any Ultrasonic Testing (UT) documentation of the tack welds in the deck panel closed rib welds that may have been covered by the installed diaphragms. Please provide UT documentation of the closed rib tack weld areas at the diaphragm locations. The Department will review the Contractor's proposal to close Non-Conformance ZPMC-0165 at that time.

Submitted by: Wright, Doug

Date: 19-Jan-2009

Attachment(s):



PROJECT: SAN FRANCISCO OAKLAND BAY BRIDGE

DATE: 12/24/2008

TO: RUBY/ ABFJV QA DEPARTMENT

FROM: ZPMC QA DEPARTMENT

SUBJECT: CALTRANS NCR FOR CLOSURE

SUBMITTED FOR YOUR APPROVAL.

ENCLOSED WITH THIS TRANSMITTAL IS ONE

- (1) COPY OF LETTER OF RESPONSE WITH NO.B-318R1 FOR CLOSURE.
- (2) COPY OF NCR PROPOSED RESOLUTION.

PLEASE SIGN THIS TRANSMITTAL AND RETURN TO ME.

ACKNOWLEDGEMENT:



 PLAN HOLDER

24-DEC-2008 (14:13)

 DATE

ABFJV

 COMPANY

 PHONE NO.

PLAN NUMBER: N/A
 #R787-QCP-102



No. B-318R1

LETTER OF RESPONSE

TO: American Bridge/Flour JV

DATE: 2008-12-24

REGARDING: NCR-000182(ZPMC-0165)

With this letter of response, ZPMC requests closure for Caltrans NCR-000182 (ZPMC-0165). As the comments from caltrans: please provide UT documentation at the repair location. But that weld is a fillet weld and there is no any UT require. Therefore I think it's not necessary to use the UT inspection to prove the quality of weld and base metal. submitted the MT documentation as follow and it should be enough.

So ZPMC considers NCR-000182 (ZPMC-0165) can be closed.

Please check the attached documentation for acceptance and close the NCR-000182 (ZPMC-0165).

ATTACHMENT:

NCR-000182 (ZPMC-0165)

ZPMC internal NCR

The corresponding MT reports

A handwritten signature in cursive script, reading "Zhao Shuangbao".

2008.12.24



AMERICAN BRIDGE/FLUOR ENTERPRISES, a JV

P.O. BOX 23223 Oakland, CA 94623

Phone (510) 419-0120 / Fax (510) 839-0666

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000157

Subject: NCR No. ZPMC-0165

Dated: 25-Nov-2008

Contract No.: 04-0120F4

04-SF-80-13.2 / 13.9

Job Name: SAS Superstructure

Document No.: ABF-NPR-000152 Rev: 01

Contractor's Proposed Resolution:

Reference Resolution: ZPMC requests closure of this NCR based on attached documentation.

Please see attached documents.

Submitted by:

Attachment(s): ; ABF-NPR-000152R01

Caltrans' comments:

Status: AAP

Date: 08-Dec-2008

The response is acceptable, but the Non-Conformance is not closed.

The attachment did not include any Ultrasonic Testing (UT) documentation. Please provide UT documentation of the tack weld areas at the diaphragm locations. The Department will review the Contractor's proposal to close Non-Conformance ZPMC-0165 at that time.

Submitted by: Wright, Doug

Attachment(s):

Date: 09-Dec-2008



No. B-318

LETTER OF RESPONSE

TO: American Bridge/Flour JV

DATE: 2008-11-25

REGARDING: NCR-000182(ZPMC-0165)

With this letter of response, ZPMC requests closure for Caltrans NCR-000182 (ZPMC-0165). As the comments from caltrans: please provide documentation that the weld repairs were performed and that the repairs were acceptable. So we submit the documentation as follow.

So ZPMC considers NCR-000182 (ZPMC-0165) can be closed.

Please check the attached documentation for acceptance and close the NCR-000182 (ZPMC-0165).

ATTACHMENT:

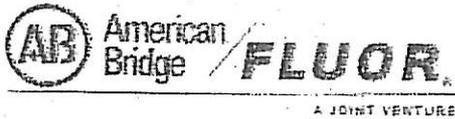
NCR-000182 (ZPMC-0165)

ZPMC internal NCR

The corresponding MT reports

Zhao Shuangbao

2008. 11. 25.



AMERICAN BRIDGE/FLUOR ENTERPRISES, a JV

P.O. BOX 23223 Oakland, CA 94623

Phone (510) 419-0120 / Fax (510) 839-0666

NCR PROPOSED RESOLUTION

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

Dated: 11-Sep-2008

Contract No.: 04-0120F4

04-SF-80-13.2 / 13.9

Job Name: SAS Superstructure

Document No.: ABF-NPR-000152 Rev: 00

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000157

Subject: NCR No. ZPMC-0165

Contractor's Proposed Resolution:

Reference Resolution: ZPMC was instructed to suspend further work on fitting and welding diaphragm plates to deck panels.

ZPMC was instructed several times to suspend further work on fitting and welding diaphragm plates to deck panels. If Rib to Deck welds covered by this diaphragm are deemed to be unacceptable by CT, ZPMC will have to provide a plan of repair.

Submitted by:

Attachment(s): ABF-NPR-000152R00

Caltrans' comments:

Status: AAP

Date: 08-Oct-2008

The response is acceptable, but the Non-Conformance is not closed.

Please provide documentation of the weld repairs that were performed and that the repairs were acceptable. The Department will review the Contractor's proposal to close Non-Conformance ZPMC-0165 at that time.

Submitted by: Wright, Doug

Date: 08-Oct-2008

Attachment(s):



Nonconformance Report

不符合项报告

Project Name: S.F.O.B.B NCR Number:
 项目名称: 美国加州海湾大桥 NCR 编号: NCR-B-110 (NCR-000160)

Item: Installation of Diaphragms on Various DP's Item Number: 件号: DP049-001, DP050-001, DP051-001, DP073-001 Drawing Number: 图号: DP49, DP50, DP51, DP73
 名称描述: OBG 顶板隔板的安装

Location: OBG Assembly Shop Date:
 位置: 桥面拼装车间 日期: 2008-09-19

Description of Nonconformance:

不符合项状态描述:

The Contractor has not complied with the written order of the Engineer to suspend work. The Contractor performed fit-up and tack welding of diaphragm plates to deck panels after the issuance of a State Letter directing the Contractor to suspend such work.

Applicable reference:

State Letter No.05.03.01-002561, Temporary Suspension of Diaphragm Plate to Deck Plate Assembly, dated August 15, 2008.

Standard Specifications, Sec.8-1.05 Temporary Suspension of work: "The Engineer shall have the authority to suspend the work wholly or in part, for any time period as the Engineer deems necessary, due to unsuitable weather, or to such other conditions considered unfavorable for the suitable prosecution of work, or for any time period as the Engineer deems necessary due to the failure on the part of the Contractor to carry out orders given, or to perform any provision of the contract. The Contractor shall immediately comply with the written order of the Engineer to suspend the work wholly or in part. The suspended work shall be resumed when conditions are favorable and methods are corrected, as ordered or approved in writing by the Engineer."

ZPMC 没有按照工程师下发的书面信的要求停止 OBG 顶板与隔板之间的装配点焊。

参考标准: 2008 年 8 月 15 日发送的编号为 05.03.01-002561 的信件, 要求暂停 OBG 顶板隔板的装配。标书 8-1.05 章节, 工程师有权利在其认为有必要的时候, 要求全面或者局部停工。承包商应该按照工程师的要求或者遵照合同标书的要求执行停工。承包商应立即按照工程师的书面要求全面或者局部停工。当条件允许和技术修正后, 或工程师批准的情况下, 停工令可以解除而恢复施工。

Work By: Hu Guoqing Prepared by: Shen Xuejun Reviewed by QCE: Zhao Zhuangbao
 施工方: 准备: 2008.9.19 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 部分位置通知停工要及时下发书面停工报告及时与生产沟通。

When the contractor requires suspend work, Issue suspend order immediately and communicate with production.

Prepared by: Zhang Yan Zhi

Approved by QCA:

准备

08.11.10

质量经理批准

Reason for Nonconformance:

不符合原因: 生产装配隔板时未收到书面停工报告。

Production didn't receive the order of suspend work before assembly diaphragm.

预防措施

部分位置通知停工要及时与相关人员联系确认后在进行施工。

When the contractor requires suspend work, issue suspend order immediately and communicate with production.

Approved by/批准: Zhang Yan Zhi, 08.11.10

Technical Justification for Use-As-Is/Repair:

Attachment

Non-attachment

回用或返修的技术依据:

附件

无附件

Reviewed /批准:

Verification:

Acceptable

Unacceptable

确认:

可接受

不可接受

Verified by QCI/质检确认:

Reviewed by QCA/质检主任审核:



DEPARTMENT OF TRANSPORTATION - District 4 Toll Bridge
666 Feng Bin Road Room 708, Changxing Island
Shanghai 201913 PR China
Tel: 021-56856666 ext 207061 Fax:

NON-CONFORMANCE REPORT TRANSMITTAL

To: AMERICAN BRIDGE/FLUOR, A JV
375 BURMA ROAD
OAKLAND CA 95607

Date: 09-Sep-2008

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

Dear: Mr. Charles Kanapicki
Attention: Mr. Dave Williams Consultant
Subject: NCR No. ZPMC-0165

Job Name: SAS Superstructure
Document No: 05.03.06-000157

Reference Description: Installation of Diaphragms on Various DP's

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: OBG

Lift:

Remarks:

The Contractor has not complied with the written order of the Engineer to suspend work. The Contractor performed fit-up and tack welding of diaphragm plates to deck panels after the issuance of a State Letter directing the Contractor to suspend such work. Please refer to the attached NCR #ZPMC-0165 for details.

Action Required and/or Action Taken:

Propose a resolution for the identified non-conformance with revised procedures to prevent future occurrences.

Transmitted by: Ching Chao

Attachments: ZPMC-0165

cc: Rick Morrow, Gary Pursell, Peter Siegenthaler, Stanley Ku, Brian Boal, Doug Coe, 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
City: SF/ALA Rte: 80 PM: 13.2/13.9
File #: 69.25B

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

Location: Changxing Island, Shanghai, PRC

Report No: NCR-000182

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 01-Sep-2008

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

NCR #: ZPMC-0165

Type of problem:

Welding Concrete Other

Welding Curing Procedural

Joint fit-up Coating Other

Procedural Procedural Descriptor: OBG Deck Panels

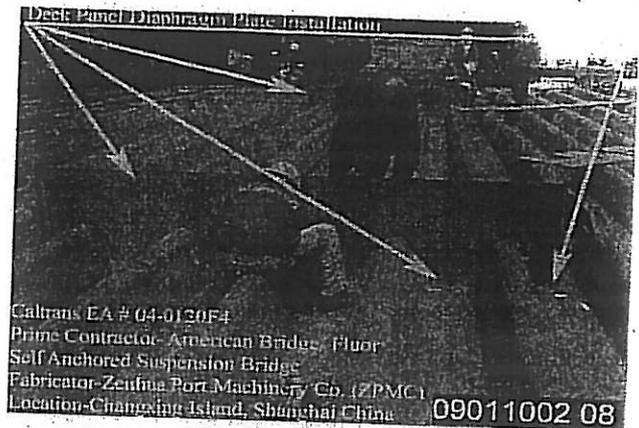
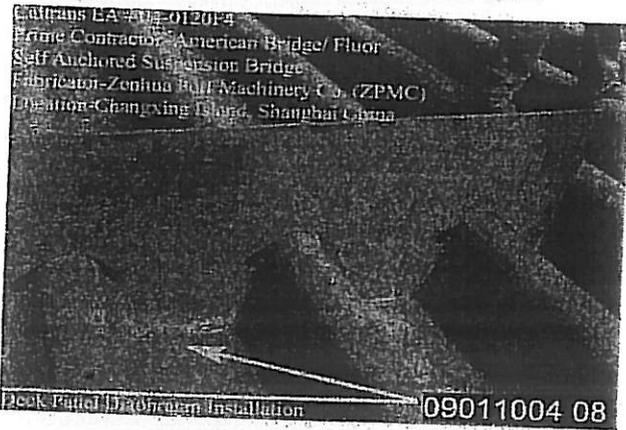
Bridge No: 34-0006

Component: DP049-001, DP050-001, DP051-001, DP073-001, DP0

Reference Description: Installation of Diaphragms on Various DP's

Description of Non-Conformance:

The Contractor has not complied with the written order of the Engineer to suspend work. The Contractor performed fit-up and tack welding of diaphragm plates to deck panels after the issuance of a State Letter directing the Contractor to suspend such work.



Applicable reference:

State Letter No. 05.03.01-002561, Temporary Suspension of Diaphragm Plate to Deck Plate Assembly, dated August 15, 2008.

Standard Specifications, Sec. 8-1.05 Temporary Suspension of Work: "The Engineer shall have the authority to suspend the work wholly or in part, for any time period as the Engineer deems necessary, due to unsuitable weather, or to such other conditions considered unfavorable for the suitable prosecution of the work, or for any time period as the Engineer deems necessary due to the failure on the part of the Contractor to carry out orders given, or to perform any provision of the contract. The Contractor shall immediately comply with the written order of the Engineer to suspend the work wholly or in part. The suspended work shall be resumed when conditions are favorable and methods are corrected, as ordered or approved in writing by the Engineer."

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Who discovered the problem: Caltrans Quality Assurance Robert H. Vatcher
Name of individual from Contractor notified: ABFJV QC Inspectors Art Peterson, Peter Shaw
Time and method of notification: Verbal notification at 1030 hrs.
Name of Caltrans Engineer notified: Kannu Balan
Time and method of notification: Verbal notification at 1030 hrs.
QC Inspector's Name: ZPMC QC Inspector Mr. Wang Lu
Was QC Inspector aware of the problem: Yes No
Contractor's proposal to correct the problem:

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 Abifhram Velasco, who represents the Office of Structural Materials for your project.

Inspected By: Velasco,Abifhram	SMR
Reviewed By: Velasco,Abifhram	SMR

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000157

Subject: NCR No. ZPMC-0165

Dated: 04-Feb-2009

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000152 **Rev:** 03

Contractor's Proposed Resolution:

Reference Resolution: ZPMC requests closure of this NCR based on attached documentation.

ZPMC is including information as requested, ZPMC requests closure of the NCR ZPMC-0165. Please see attached documents.

Submitted by:

Attachment(s): ABF-NPR-000152R03;

Caltrans' comments:

Status: REJ

Date: 17-Feb-2009

The proposed resolution is not acceptable. The attached documentation in this NPR is the same as NPR-0152R02, which was rejected.

The attachment did not include any Ultrasonic Testing (UT) documentation of the tack welds in the deck panel closed rib welds that may have been covered by the installed diaphragms. Please provide UT documentation of the closed rib tack weld areas at the diaphragm locations. The Department will review the Contractor's proposal to close Non-Conformance ZPMC-0165 at that time.

Submitted by: Wright, Doug

Date: 17-Feb-2009

Attachment(s):



TRANSMITTAL LETTER

PROJECT: SAN FRANCISCO OAKLAND BAY BRIDGE

DATE: 12/24/2008

TO: RUBY/ ABFJV QA DEPARTMENT

FROM: ZPMC QA DEPARTMENT

SUBJECT: CALTRANS NCR FOR CLOSURE

SUBMITTED FOR YOUR APPROVAL.

ENCLOSED WITH THIS TRANSMITTAL IS ONE

- (1) COPY OF LETTER OF RESPONSE WITH NO.B-318R1 FOR CLOSURE.
- (2) COPY OF NCR PROPOSED RESOLUTION.

PLEASE SIGN THIS TRANSMITTAL AND RETURN TO ME.

ACKNOWLEDGEMENT:



PLAN HOLDER

24-DEC-2008 (14:13)

DATE

ABFJV

COMPANY

PHONE NO.

PLAN NUMBER: N/A
#R787-QCP-102



No. B-318R1

LETTER OF RESPONSE

TO: American Bridge/Flour JV

DATE: 2008-12-24

REGARDING: NCR-000182(ZPMC-0165)

With this letter of response, ZPMC requests closure for Caltrans NCR-000182 (ZPMC-0165). As the comments from caltrans: please provide UT documentation at the repair location. But that weld is a fillet weld and there is no any UT require. Therefore I think it's not necessary to use the UT inspection to prove the quality of weld and base metal. submitted the MT documentation as follow and it should be enough.

So ZPMC considers NCR-000182 (ZPMC-0165) can be closed.

Please check the attached documentation for acceptance and close the NCR-000182 (ZPMC-0165).

ATTACHMENT:

NCR-000182 (ZPMC-0165)

ZPMC internal NCR

The corresponding MT reports

Zhao Shuangbao

2008.12.24



AMERICAN BRIDGE/FLUOR ENTERPRISES, a JV
P.O. BOX 23223 Oakland, CA 94623
Phone (510) 419-0120 / Fax (510) 839-0666

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000157

Subject: NCR No. ZPMC-0165

Dated: 25-Nov-2008

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000152 Rev: 01

Contractor's Proposed Resolution:

Reference Resolution: ZPMC requests closure of this NCR based on attached documentation.

Please see attached documents.

Submitted by:

Attachment(s): ; ABF-NPR-000152R01

Caltrans' comments:

Status: AAP

Date: 08-Dec-2008

The response is acceptable, but the Non-Conformance is not closed.

The attachment did not include any Ultrasonic Testing (UT) documentation. Please provide UT documentation of the tack weld areas at the diaphragm locations. The Department will review the Contractor's proposal to close Non-Conformance ZPMC-0165 at that time:

Submitted by: Wright, Doug

Attachment(s):

Date: 09-Dec-2008



No. B-318

LETTER OF RESPONSE

TO: American Bridge/Flour JV

DATE: 2008-11-25

REGARDING: NCR-000182(ZPMC-0165)

With this letter of response, ZPMC requests closure for Caltrans **NCR-000182 (ZPMC-0165)**. As the comments from caltrans: please provide documentation that the weld repairs were performed and that the repairs were acceptable. So we submit the documentation as follow.

So ZPMC considers **NCR-000182 (ZPMC-0165)** can be closed.

Please check the attached documentation for acceptance and close the **NCR-000182 (ZPMC-0165)**.

ATTACHMENT:

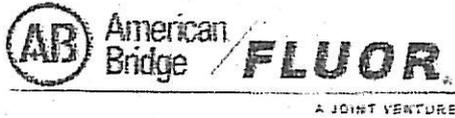
NCR-000182 (ZPMC-0165)

ZPMC internal NCR

The corresponding MT reports

Zhao Shuangbao

2008.11.25.



AMERICAN BRIDGE/FLUOR ENTERPRISES, a JV

P.O. BOX 23223 Oakland, CA 94623

Phone (510) 419-0120 / Fax (510) 839-0666

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000157

Subject: NCR No. ZPMC-0165

Dated: 11-Sep-2008

Contract No.: 04-0120F4

04-SF-80-13.2 / 13.9

Job Name: SAS Superstructure

Document No.: ABF-NPR-000152 Rev: 00

Contractor's Proposed Resolution:

Reference Resolution: ZPMC was instructed to suspend further work on fitting and welding diaphragm plates to deck panels.

ZPMC was instructed several times to suspend further work on fitting and welding diaphragm plates to deck panels. If Rib to Deck welds covered by this diaphragm are deemed to be unacceptable by CT, ZPMC will have to provide a plan of repair.

Submitted by:

Attachment(s): ABF-NPR-000152R00

Caltrans' comments:

Status: AAP

Date: 08-Oct-2008

The response is acceptable, but the Non-Conformance is not closed.

Please provide documentation of the weld repairs that were performed and that the repairs were acceptable. The Department will review the Contractor's proposal to close Non-Conformance ZPMC-0165 at that time.

Submitted by: Wright, Doug

Date: 08-Oct-2008

Attachment(s):



Nonconformance Report

不符合项报告

Project Name: S.F.O.B.B NCR Number:
 项目名称: 美国加州海湾大桥 NCR 编号: NCR-B-110 (NCR-000160)

Item: Installation of Diaphragms on Various DP's Item Number: DP049-001, DP050-001, DP051-001, DP073-001 Drawing Number: DP49, DP50, DP51, DP73
 名称描述: OBG 顶板隔板的安装

Location: OBG Assembly Shop Date:
 位置: 桥面拼装车间 日期: 2008-09-19

Description of Nonconformance:

不符合项状态描述:

The Contractor has not complied with the written order of the Engineer to suspend work .The Contractor performed fit-up and tack welding of diaphragm plates to deck panels after the issuance of a State Letter directing the Contractor to suspend such work.

Applicable reference:

State Letter No.05.03.01-002561,Temporary Suspension of Diaphragm Plate to Deck Plate Assembly, dated August 15,2008.

Standard Specifications, Sec.8-1.05 Temporary Suspension of work : "The Engineer shall have the authority to suspend the work wholly or in part, for any time period as the Engineer deems necessary, due to unsuitable weather, or to such other conditions considered unfavorable for the suitable prosecution of work, or for any time period as the Engineer deems necessary due to the failure on the part of the Contractor to carry out orders given, or to perform any provision of the contract. The Contractor shall immediately comply with the written order of the Engineer to suspend the work wholly or in part. The suspended work shall be resumed when conditions are favorable and methods are corrected, as ordered or approved in writing by the Engineer."

ZPMC 没有按照工程师下发的书面信的要求停止 OBG 顶板与隔板之间的装配点焊。

参考标准: 2008 年 8 月 15 日发送的编号为 05.03.01-002561 的信件, 要求暂停 OBG 顶板隔板的装配。标书 8-1.05 章节, 工程师有权利在其认为有必要的时候, 要求全面或者局部停工。承包商应该按照工程师的要求或者遵照合同标书的要求执行停工。承包商应立即按照工程师的书面要求全面或者局部停工。当条件允许和技术修正后, 或工程师批准的情况下, 停工令可以解除而恢复施工。

Work By: Hu Guoqing Prepared by: Shen Xuejun Reviewed by QCE: Zhao Shuangbao
 施工方: 准备: 2008.9.19 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 部分位置通知停工要及时下发书面停工报告及时与生产沟通。

When the contractor requires suspend work, Issue suspend order immediately and communicate with production.

Prepared by: Zhang Yan Zhi;

Approved by QCA: _____

准备

08.11.10

质量经理批准

Reason for Nonconformance:

不符合原因: 生产装配隔板时未收到书面停工报告。

Production didn't receive the order of suspend work before assembly diaphragm.

预防措施

部分位置通知停工要及时与相关人员联系确认后在进行施工。

When the contractor requires suspend work, issue suspend order immediately and communicate with production.

Approved by/批准: Zhang Yan Zhi; 08.11.10

Technical Justification for Use-As-Is/Repair:

Attachment

Non-attachment

回用或返修的技术依据:

附件

无附件

Reviewed /批准: _____

Verification:

Acceptable

Unacceptable

确认:

可接受

不可接受

Verified by QCI/质检确认: _____

Reviewed by QCA/质检主任审核: _____



DEPARTMENT OF TRANSPORTATION - District 4 Toll Bridge
666 Feng Bin Road Room 708, Changxing Island
Shanghai 201913 PR China
Tel: 021-56856666 ext 207061 Fax:

NON-CONFORMANCE REPORT TRANSMITTAL

To: AMERICAN BRIDGE/FLUOR, A JV
375 BURMA ROAD
OAKLAND CA 95607

Date: 09-Sep-2008

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

Dear: Mr. Charles Kanapicki

Job Name: SAS Superstructure

Attention: Mr. Dave Williams Consultant

Document No: 05.03.06-000157

Subject: NCR No. ZPMC-0165

Reference Description: Installation of Diaphragms on Various DP's

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: OBG

Lift:

Remarks:

The Contractor has not complied with the written order of the Engineer to suspend work. The Contractor performed fit-up and tack welding of diaphragm plates to deck panels after the issuance of a State Letter directing the Contractor to suspend such work.

Please refer to the attached NCR #ZPMC-0165 for details.

Action Required and/or Action Taken:

Propose a resolution for the identified non-conformance with revised procedures to prevent future occurrences.

Transmitted by: Ching Chao

Attachments: ZPMC-0165

cc: Rick Morrow, Gary Pursell, Peter Siegenthaler, Stanley Ku, Brian Boal, Doug Coe, 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, PRC

Report No: NCR-000182

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 01-Sep-2008

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

NCR #: ZPMC-0165

Type of problem:

Welding Concrete Other

Welding Curing Procedural

Joint fit-up Coating Other

Procedural Procedural Descripton: OBG Deck Panels

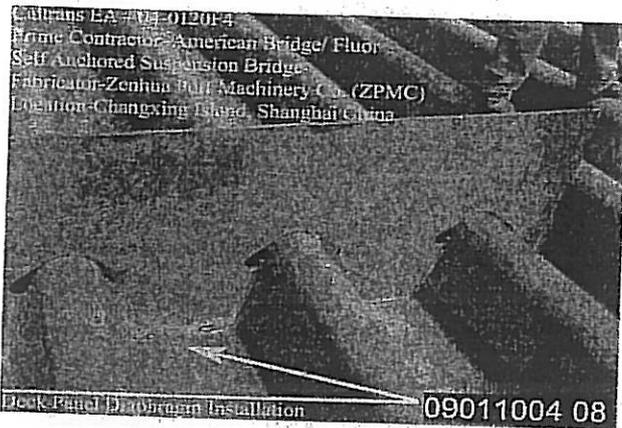
Bridge No: 34-0006

Component: DP049-001, DP050-001, DP051-001, DP073-001, DP0

Reference Description: Installation of Diaphragms on Various DP's

Description of Non-Conformance:

The Contractor has not complied with the written order of the Engineer to suspend work. The Contractor performed fit-up and tack welding of diaphragm plates to deck panels after the issuance of a State Letter directing the Contractor to suspend such work.



Applicable reference:

State Letter No. 05.03.01-002561, Temporary Suspension of Diaphragm Plate to Deck Plate Assembly, dated August 15, 2008.

Standard Specifications, Sec. 8-1.05 Temporary Suspension of Work: "The Engineer shall have the authority to suspend the work wholly or in part, for any time period as the Engineer deems necessary, due to unsuitable weather, or to such other conditions considered unfavorable for the suitable prosecution of the work, or for any time period as the Engineer deems necessary due to the failure on the part of the Contractor to carry out orders given, or to perform any provision of the contract. The Contractor shall immediately comply with the written order of the Engineer to suspend the work wholly or in part. The suspended work shall be resumed when conditions are favorable and methods are corrected, as ordered or approved in writing by the Engineer."

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Who discovered the problem: Caltrans Quality Assurance Robert H. Vatcher

Name of individual from Contractor notified: ABFJV QC Inspectors Art Peterson, Peter Shaw

Time and method of notification: Verbal notification at 1030 hrs.

Name of Caltrans Engineer notified: Kannu Balan

Time and method of notification: Verbal notification at 1030 hrs.

QC Inspector's Name: ZPMC QC Inspector Mr. Wang Lu

Was QC Inspector aware of the problem: Yes No

Contractor's proposal to correct the problem:

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 Abifhiram Velasco, who represents the Office of Structural Materials for your project.

Inspected By: Velasco, Abifhiram

SMR

Reviewed By: Velasco, Abifhiram

SMR

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000157

Subject: NCR No. ZPMC-0165

Dated: 31-Mar-2009

Contract No.: 04-0120F 4
04-SF-80-13.2 / 13.9

Job Name: SAS Superstructure

Document No.: ABF-NPR-000152 **Rev:** 04

Contractor's Proposed Resolution:

Reference Resolution:

Attached are P AUT reports for the subject deck panels DP-050-001, DP-049-001, DP-051-001 and DP-074-001 as requested. ZPMC requests closure of this NCR.

Submitted by:

Attachment(s): ABF-NPR-000152R04;

Caltrans' comments:

Status: CLO

Date: 13-Apr-2009

The proposed resolution is acceptable. The inspection documents requested in Rev 3 of NPR-0152 have been provided. Also, each of the panels in question has subsequently been green tagged. The Department concurs that Non-Conformance ZPMC-0165 is closed.

Submitted by: Wright, Doug

Date: 13-Apr-2009

Attachment(s):

DEPARTMENT OF TRANSPORTATION

CHINA FABRICATION TEAM
506 Shangcheng Rd., Pudong New District
Shanghai 200120, PRC



CALTRANS TEAM CHINA TRANSMITTAL

To: Dave Williams, American Bridge – Fluor, a Joint Venture
Gary Pursell, Resident Engineer

Review Date: 23-Oct-08

From: Pete Siegenthaler, California Department of Transportation

Contract No.: 04-0120F4

No.: 08-10-23-01

Attached find:

1. Ongoing Conventional and Phased-Array UT reports on Closed-rib tack weld cracks.

Test Date: October 22, 2008

Deck Panels: DP-405-001, DP-378-001, DP-042-001 and DP-406-001

The following Deck Panels are completed in regards with PAUT only:

Deck Panels: DP-050-001

Reviewer: Mark Wright

Date: 23-October-2008

Received by (ABVJV): Qi Date: 10/23/08 Time: 1345

Complete

U-Rib to Deck Panel - Tack Weld Assessment

14-Oct

Panel nr:	DP050-001
Panel Fab date:	(If known)
Number of Ribs:	5
Total nr of tack welds:	280
Number of Tack welds Investigated:	280

Repairs	2E
In Process	0
Comp	2E
PAUT	1 Rejec.

Conventional UT operator:	Initial: B47, B101, B70, B91 and B95	Repair: B71
Inspection date:	8/21/2008	9/15/2008

Phased Array Operator:	Initial: B71 and B102 NPI 2
Inspection date:	8/21 and 22/2008/10/13/08

UT Location		UT Indications (to be further Investigated by Phased Array [y/n])	Comments	Y-location [mm]	Phased Array Crack/No-Crack Assessment [y/n]	Comments	Repair Comp [y/n]	UT Accept/Reject Note new line for 2nd time repair
Weld Nr. [1-10]	Y-location [mm]							
1	100	Yes	None	100	Yes	Confirmed Crack, measuring 15mm in	Yes	UTPA Accepted
1	1865	Yes	None	1865	No	None	N/A	N/A
1	4900	Yes	None	4900	No	None	N/A	N/A
1	7230	Yes	None	7230	No	None	N/A	N/A
1	12680	Yes	None	12680	Yes	Confirmed Crack, measuring 20mm in	Yes	Rejected 08/14/08
				12680	2 nd Repair	Confirmed Crack, measuring 20mm in	In process	UTPA Accepted
1	15790	Yes	None	15790	No	None		UTPA Accepted
1	16300	Yes	None	16300	No	None		
2	6670	Yes	None	6670	No	None	N/A	N/A
2	7860	Yes	None	7860	No	None	N/A	N/A
2	8430	Yes	None	8430	Yes	Confirmed Crack, measuring 18mm in	Yes	UTPA Accepted
2	10300	Yes	None	10300	Yes	Confirmed Crack, measuring 10mm in	Yes	UTPA Accepted
3	1870	Yes	None	1870	No	None	N/A	N/A
3	3080	Yes	None	3080	Yes	Confirmed Crack, measuring 10mm in	Yes	UTPA Rejected
3	3080	Yes	None	3080	Yes	Confirmed Crack, measuring 10mm in	R2	Rejected
3	3080	Yes	None	3080	Yes	Confirmed Crack, measuring 10mm in	R3	Accepted
3	3670	Yes	None	3670	Yes	Confirmed Crack, measuring 15mm in	Yes	UTPA Accepted
3	7265	Yes	None	7265	Yes	Confirmed Crack, measuring 12mm in	Yes	UTPA Accepted
3	12060	Yes	None	12060	No	None	N/A	N/A
3	15870	Yes	None	15870	No	None	N/A	N/A
3	16030	Yes	None	16030	No	None	N/A	N/A
4	70	Yes	None	70	Yes	Confirmed Crack, measuring 10mm in	Yes	UTPA Accepted
4	3070	Yes	None	3070	Yes	Confirmed Crack, measuring 20mm in	Yes	UTPA Accepted
4	3125	Yes	None	3125	Yes	measuring 5mm in length	Yes	UTPA Rejected 9/14/08
				3125	2 nd Repair	Confirmed Crack, measuring 5mm in length	Yes	UTPA Accepted
4	3720	Yes	None	3720	Yes	Confirmed Crack, measuring 20mm in	Yes	UTPA Accepted
4	5480	Yes	None	5480	No	None	N/A	N/A
4	6080	Yes	None	6080	No	None	N/A	N/A
4	7245	Yes	None	7245	Yes	Confirmed Crack, measuring 15mm in	Yes	UTPA Accepted
4	11430	Yes	None	11430	Yes	Confirmed Crack, measuring 18mm in	Yes	UTPA Accepted
4	12060	Yes	None	12060	Yes	Confirmed Crack, measuring 10mm in	Yes	UTPA Accepted
4	12680	Yes	None	12680	Yes	Confirmed Crack, measuring 20mm in	Yes	UTPA Accepted
4	16330	Yes	None	16330	No	None	N/A	N/A
5	650	Yes	None	650	Yes	Confirmed Crack, measuring 10mm in	N/A	Accepted
5	3090	Yes	None	3090	Yes	Confirmed Crack, measuring 25mm in	Yes	UTPA Rejected
				3090	R2		Yes	UTPA Accepted
5	5485	Yes	None	5485	Yes	Confirmed Crack, measuring 10mm in	Yes	UTPA Accepted
5	16280	Yes	None	16280	No	None	N/A	N/A
6	5390	Yes	None	5390	No	None	N/A	N/A
6	6040	Yes	None	6040	Yes	Confirmed Crack, measuring 12mm in	Yes	UTPA Accepted
6	6110	Yes	None	6110	Yes	Confirmed Crack, measuring 11mm in	Yes	UTPA Accepted

DEPARTMENT OF TRANSPORTATION

CHINA FABRICATION TEAM
506 Shangcheng Rd, Pudong New District
Shanghai 200120, PRC



CALTRANS TEAM CHINA TRANSMITTAL

To: Dave Williams, American Bridge – Fluor, a Joint Venture
Gary Pursell, Resident Engineer

Review Date: 14-Oct-08

From: Pete Siegenthaler, California Department of Transportation

Contract No.: 04-0120F4

No.: 08-10-14-01

Attached find;

- 1. Ongoing Conventional and Phased-Array UT reports on Closed-rib tack weld cracks.

Test Date: October 13, 2008

Deck Panels: DP-026-001, DP-378-001, DP-405-001 and DP-050-001

The following Deck Panels are complete:

Deck Panels: DP-066-001, DP-067-001, DP-137-001, DP-027-001, DP-026-002, DP-038-001,
DP-075-001, DP-049-001 and DP-051-001

Reviewer: Mark Wright

Date: 14-October-2008

Received by (ABJV):

Date:

10/14/08

Time:

1410

Complete

U-Rib to Deck Panel - Tack Weld Assessment

14-00

Panel no: **DP043-B1**
 Panel Fab date: **4/7/2008**
 Number of Ribs: **1**
 Total nr of tack welds: **260**
 Number of Tack welds Investigated: **27**

Repaired: **1**
 In Process: **0**
 Lost: **0**
 PAUT Complete: **0**

Initial: **B75, B31** Recd: **B31, E71**
 Conventional UT operator: **B75, B31** Phased Array Operator: **B71/NF1**
 Inspection date: **8/21/2008** **9/15/2008**

Initial: **B71/NF1**
 Phased Array Operator: **B71/NF1**
 Inspection date: **10/14/2008**

UT Locator		UT Indications to be further investigated by Phased Array [y/n]		Phased Arr. Crack/No-Crack Assessment [y/n]		UT Accept/Reject Note new line for 2nd time repair	
Weld Nr. [1-10]	Y-location [mm]	Comments	Y-location [mm]	Comments	Repair Comp [y/n]	Notes	
1	125	None	135	Confirmed Crack, measuring 20mm in	Y 9/15/08	UT/PA Accepted	
2	1245	None	1245	None	N/A	N/A	
2	4880	None	4880	None	N/A	N/A	
2	9675	None	9675	Confirmed Crack, measuring 8mm in length	Yes 9/15/08	UT/PA Accepted	
2	10275	None	10275	Confirmed Crack, measuring 13mm in	Yes 9/13/08	UT/PA Accepted	
2	10275			Repair 2, measuring 13mm in	Yes 9/13/08	UT/PA Accepted	
3	7230	None	7230	Confirmed Crack, measuring 10mm in	Yes 9/13/08	UT/PA Accepted	
3	7230			Repair 2, measuring 10mm in	Yes 9/13/08	UT/PA Accepted	
3	9690	None	9690	None	N/A	N/A	
3	10830	None	10830	None	N/A	N/A	
3	16250	None	16250	None	N/A	N/A	
4	1310	None	1310	Confirmed Crack, measuring 12mm in	Yes 9/15/08	UT/PA Accepted	
4	8510	None	8510	Confirmed Crack, measuring 12mm in	Yes 9/13/08	UT/PA Accepted	
4	10280	None	10280	None	N/A	N/A	
4	12100	None	12100	Confirmed Crack, measuring 10mm in	Yes 9/15/08	UT/PA Accepted	
5	3600	None	3600	None	N/A	N/A	
5	10870	None	10870	Confirmed Crack, measuring 8mm in length	Yes	UT/PA Accepted	
5	11430	None	11430	Confirmed Crack, measuring 10mm in	Yes 9/15/08	UT/PA Accepted	
6	680	None	680	None	N/A	N/A	
6	1270	None	1270	Confirmed Crack, measuring 14mm in	Yes 9/15/08	UT/PA Accepted	
6	1890	None	1890	Confirmed Crack, measuring 22mm in	Yes 9/15/08	UT/PA Accepted	
6	7270	None	7270	None	N/A	N/A	
6	12650	None	12650	Confirmed Crack, measuring 8mm in length		UT/PA Accepted	
6	13260	None	13260	Confirmed Crack, measuring 20mm in	Yes 9/13/08	UT/PA Accepted	
6	13260			Repair 2, measuring 20mm in	Yes 9/15/08	UT/PA Accepted	
8	13265	None	13265	None	N/A	N/A	
8	13860	None	13860	None	N/A	N/A	
9	10260	None	10260	Confirmed Crack, measuring 15mm in	Yes 9/13/08	Reject	
9	10260		10260	Repair 2, measuring 15mm in	Yes 9/15/08	Reject	
9	10260		10260	Repair 3, CWR needed	Yes	Reject	
9	10260		10260	Repair 3, CWR needed	R3	Reject	
9	10260		10260	Yes, CWR needed	R4	Accept	

Complete

UT-Kit to Deck Panel - Tack Weld Assessment

14-01

Panel no: **DP051-01**
 Panel Fab date: **01/01/2007**
 Number of Ribs: **5**
 Total nr of tack welds: **25**
 Number of Tack Welds Investigated: **25**
 Initial: **B101, B102, BE and BE**
 Conventional UT operator: **B101, B102, BE and BE**
 Inspection date: **8/07 and 08/2007**

Repair: **ET**
 In Process: **ET**
 Comments: **PAINT**
 Location: **Comma**
 Initial: **ET**
 Phased Array Operator: **ET**
 Inspection date: **8/06 and 12/2007**

UT Location		UT Indications (to be further investigated by Phased Array [y/n])	Comments	Y-location [mm]	Phased Array Crack/No-Crack Assessment [y/n]	Comments	Repair Comp [y/n]	UT Accept/Reject After repair
Weld Nr. [1-10]	Y-location [mm]							
1	650	Yes	None	650	Yes	Confirmed Crack	Yes	Accept
1	2470	Yes	None	2470	No	None	N/A	N/A
1	4280	Yes	None	4280	No	None	N/A	N/A
1	4855	Yes	None	4855	No	None	N/A	N/A
1	5470	Yes	None	5470	Yes	Confirmed Crack	Yes	UTPA Accepted
1	9070	Yes	None	9070	Yes	Confirmed Crack	Yes	UTPA Accepted
1	9700	Yes	None	9675	No	None	N/A	N/A
2	700	Yes	None	700	No	None	N/A	N/A
2	1280	Yes	None	1280	No	None	N/A	N/A
2	1865	Yes	None	1865	No	None	N/A	N/A
2	2460	Yes	None	2460	No	None	N/A	N/A
2	5490	Yes	None	5490	No	None	N/A	N/A
2	7275	Yes	None	7275	No	None	N/A	N/A
2	7900	Yes	None	7900	Yes	Confirmed Crack	Yes	UTPA Accepted
2	8460	Yes	None	8460	No	None	N/A	N/A
2	11490	Yes	None	11490	No	None	N/A	N/A
2	12080	Yes	None	12080	No	None	N/A	N/A
2	15090	Yes	None	15090	Yes	Confirmed Crack	Yes	UTPA Accepted
3	1300	Yes	None	1300	No	None	N/A	N/A
3	1890	Yes	None	1890	No	None	N/A	N/A
3	3080	Yes	None	3080	No	None	N/A	N/A
3	3680	Yes	None	3680	No	None	N/A	N/A
3	4900	Yes	None	4900	No	None	N/A	N/A
3	6100	Yes	None	6100	No	None	N/A	N/A
3	9070	Yes	None	9070	No	None	N/A	N/A
3	9700	Yes	None	9700	No	None	N/A	N/A
3	10245	Yes	None	10245	Yes	Confirmed Crack	Yes	UTPA Accepted
3	10880	Yes	None	10880	Yes	Confirmed Crack	Yes	UTPA Accepted
3	14490	Yes	None	14490	Yes	Confirmed Crack	Yes	UTPA Accepted
3	16300	Yes	None	16300	No	None	N/A	N/A
4	100	Yes	None	100	No	None	N/A	N/A
4	700	Yes	None	700	No	None	N/A	N/A
4	1900	Yes	None	1900	Yes	Confirmed Crack	Yes	UTPA Accepted
4	2490	Yes	None	2490	No	None	N/A	N/A
4	3900	Yes	None	3900	No	None	N/A	N/A
4	6100	Yes	None	6100	Yes	Confirmed Crack, measuring 10mm length	Yes	UTPA Accepted
4	12650	Yes	None	12650	No	None	N/A	N/A
4	13880	Yes	None	13880	No	None	N/A	N/A

4	13915	Yes	None	13915	Yes	Confirmed Crack	Yes	UTPA Accepted
4	14500	Yes	None	14500	Yes	Confirmed Crack	Yes	UTPA Accepted
5	1260	Yes	None	1260	Yes	Confirmed Crack	Yes	UTPA Accepted
5	1860	Yes	None	1860	No	None	N/A	N/A
5	3060	Yes	None	3060	Yes	Confirmed Crack	Yes	UTPA Accepted
5	3655	Yes	None	3655	No	None	N/A	N/A
5	4870	Yes	None	4870	No	None	N/A	N/A
5	5500	Yes	None	5500	Yes	Confirmed Crack, measuring 12mm length	Yes	UTPA Accepted
5	8455	Yes	None	8455	Yes	Confirmed Crack	Yes	UTPA Accepted
5	8500	Yes	None	8500	No	None	N/A	N/A
5	9075	Yes	None	9075	No	None	N/A	N/A
5	13245	Yes	None	13245	Yes	Confirmed Crack	Yes	UTPA Accepted
5	13910	Yes	None	13910	No	None	N/A	N/A
5	14495	Yes	None	14495	Yes	Confirmed Crack	Yes	UTPA Accepted
5	15060	Yes	None	15060	Yes	Confirmed Crack, measuring 14mm length	Yes	UTPA Accepted
5	16270	Yes	None	16270	No	None	N/A	N/A
6	650	Yes	None	650	Yes	Confirmed Crack	Yes	Accept
6	700	Yes	None	700	No	None	N/A	N/A
6	1875	Yes	None	1875	Yes	Confirmed Crack	Yes	UTPA Accepted
6	2508	Yes	None	2508	Yes	Confirmed Crack	Yes	UTPA Accepted
6	3110	Yes	None	3110	No	None	N/A	N/A
6	3690	Yes	None	3690	Yes	Confirmed Crack	Yes	UTPA Accepted
6	4270	Yes	None	4270	No	None	N/A	N/A
6	4890	Yes	None	4890	No	None	N/A	N/A
6	6110	Yes	None	6110	Yes	Confirmed Crack	Yes	UTPA Accepted
6	7855	Yes	None	7855	Yes	Confirmed Crack	Yes	UTPA Accepted
6	7880	Yes	None	7880	No	None	N/A	N/A
6	7910	Yes	None	7910	No	None	N/A	N/A
6	8480	Yes	None	8480	No	None	N/A	N/A
6	10890	Yes	None	10890	No	None	N/A	N/A
6	16300	Yes	None	16300	No	None	N/A	N/A
7	1890	Yes	None	1890	No	None	N/A	N/A
7	3088	Yes	None	3088	Yes	Confirmed Crack	Yes	UTPA Accepted
7	4920	Yes	None	4920	No	None	N/A	N/A
7	7260	Yes	None	7260	Yes	Confirmed Crack	Yes	UTPA Accepted
7	7300	Yes	None	7300	No	None	N/A	N/A
7	14470	Yes	None	14470	No	None	N/A	N/A
7	15077	Yes	None	15077	Yes	Confirmed Crack	Yes	UTPA Accepted
7	16241	Yes	None	16241	Yes	Confirmed Crack	Yes	UTPA Accepted
8	1885	Yes	None	1885	No	None	N/A	N/A
8	2480	Yes	None	2480	No	None	N/A	N/A
8	3660	Yes	None	3660	Yes	Confirmed Crack, measuring 15mm length	Yes	UTPA Accepted
8	4240	Yes	None	4240	No	None	N/A	N/A
8	4880	Yes	None	4880	Yes	Confirmed Crack	Yes	UTPA Accepted
8	6055	Yes	None	6055	No	None	N/A	N/A
8	6680	Yes	None	6680	No	None	N/A	N/A
8	8475	Yes	None	8475	No	None	N/A	N/A
8	9060	Yes	None	9060	No	None	N/A	N/A
8	9710	Yes	None	9710	No	None	N/A	N/A

E	10270	Yes	None	10270	Yes	Confirmed Crack	Yes	UTPA Accepted
E	10850	Yes	None	10850	Yes	Confirmed Crack	Yes	UTPA Accepted
E	12045	Yes	None	12045	Yes	Confirmed Crack	Yes	UTPA Accepted
B	14470	Yes	None	14470	Yes	Confirmed Crack	Yes	UTPA Accepted
9	70	Yes	None	70	No	None	N/A	N/A
9	1280	Yes	None	1280	Yes	Confirmed Crack, measuring 10mm length	Yes	Reject
9	1280			1280	R2	Confirmed Crack	R2	Accept
9	1920	Yes	None	1920	No	None	N/A	N/A
9	2470	Yes	None	2470	No	None	N/A	N/A
9	3690	Yes	None	3690	No	None	N/A	N/A
9	5465	Yes	None	5465	No	None	N/A	N/A
9	5510	Yes	None	5510	No	None	N/A	N/A
9	5540	Yes	None	5540	No	None	N/A	N/A
9	6040	Yes	None	6040	No	None	N/A	N/A
9	6115	Yes	None	6115	No	None	N/A	N/A
9	6645	Yes	None	6645	Yes	Confirmed Crack	Yes	Accept
9	7860	Yes	None	7860	No	None	N/A	N/A
9	8460	Yes	None	8460	No	None	N/A	N/A
9	9690	Yes	None	9690	Yes	Confirmed Crack	Yes	
9	10270	Yes	None	10270	Yes	Confirmed Crack	Yes 9/14/08	Reject
9	10270			10270	R2	Confirmed Crack	Yes	Accept
9	10895	Yes	None	10895	Yes	Confirmed Crack	Yes	Accept
10	110	Yes	None	110	No	None	N/A	N/A
10	4290	Yes	None	4290	No	None	N/A	N/A
10	4870	Yes	None	4870	Yes	Confirmed Crack, measuring 10mm length	Yes	Accept
10	9080	Yes	None	9080	No	None	N/A	N/A

DEPARTMENT OF TRANSPORTATION
CHINA FABRICATION TEAM
506 Shangcheng Rd., Pudong New District
Shanghai 200120, PRC



CALTRANS TEAM CHINA TRANSMITTAL

To: Dave Williams, American Bridge – Fluor, a Joint Venture
Gary Pursell, Resident Engineer

Review Date: 8-Oct-08

From: Pete Siegenthaler, California Department of Transportation

Contract No.: 04-0120F4

No.: 08-10-08-02

Attached find:

1. Conventional and Phased-Array UT reports on Completed Closed-rib tack weld crack repairs:
DP-001-001, DP-002-001, DP-013-001, DP-015-001, DP-017-001, DP-037-001, DP057-001,
DP-058-001, DP-059-001 and **DP-074-001**

Reviewer: David McClary 

Date: 8-October-2008

Received by (ABVJV): Qi

Date: 10-08-08 Time: 1355

U-Rib to Deck Panel - Tack Weld Assessment

25-Sep

Panel nr:	DP-074-001
Panel Fab date:	3/18/2008 (Unknown)
Number of Ribs:	5
Total nr of tack welds:	260
Number of Tack welds investigated:	260

Repairs	3	1 not marked,
In Process	3	
Comr	3	
PAU	5 ecc.	

Conventional UT operator:	B86, B101, B102	Initial Repair:	B71
Inspection date:	9/1/2008		9/15/2008

Phased Array Operator:	B71
Inspection date:	9/1/2008

UT Location		UT indications (to be further investigated by Phased Array [y/n])	Comments	Y-location [mm]	Phased Array Crack/No-Crack Assessment [y/n]	Comments	Repair Comp [y/n]	UT Accept/Reject Note new line for 2nd time repair
Weld Nr. [1-10]	Y-location [mm]							
1	N/A	No	No recordable indications found	N/A	No	N/A	N/A	
2	13,370	Yes	None	13,370	Yes	Confirmed Crack measuring 16mm in	Yes	UTPA Accepted
3	13,348	Yes	None	13,348	Yes	Confirmed Crack measuring 12mm in	Yes	UTPA Accepted
3	14,870	Yes	None	14,870	No	None	N/A	
4	8,235	Yes	None	8,235	No	None	N/A	
4	9,435	Yes	None	9,435	No	None	N/A	
4	10,025	Yes	None	10,025	No	None	N/A	
4	12,435	Yes	None	12,435	No	None	N/A	
4	14,220	Yes	None	14,220	Yes	Confirmed Crack measuring 10mm in	Yes	UTPA Accepted
5	90	Yes	None	90	No	None	N/A	
5	12,725	Yes	None	12,725	No	None	N/A	
5	13,290	Yes	None	13,290	No	None	N/A	
5	14,800	Yes	None	14,220	Yes	Confirmed Crack measuring 12mm in	Yes	UTPA Accepted
6	4,850	Yes	None	4,850	No	None	N/A	
6	9,700	Yes	None	9,700	No	None	N/A	
6	14,320	Yes	None	14,320	Yes	Confirmed Crack measuring 18mm in	Yes	UTPA Accepted
7	N/A	No	No recordable indications found	N/A	No		N/A	
8	N/A	No	No recordable indications found	N/A	No		N/A	
9	N/A	No	No recordable indications found	N/A	No		N/A	
10	1,920	Yes	None	1,920	No	None	N/A	
10	14,320	Yes	None	14,320	No	None	N/A	

U-Rib to Deck Panel - Tack Weld Assessment

10-Sep

Panel nr:	DP-073-001
Panel Fab date:	
Number of Ribs:	5
Total nr of tack welds:	260
Number of Tack welds Investigated:	260

Repairs	10
In Process	0
Comp	10
PAUT	10

	Initial	Repair
Conventional UT operator:	B31/B86/B101	B71
Inspection date:	10-Aug	9/15/2008

	Initial
Phased Array Operator:	B71, B102
Inspection date:	8/12,16/2008

UT Location		UT Indications (to be further investigated by Phased Array [y/n])	Comments	Y-location [mm]	Phased Array Crack/No-Crack Assessment [y/n]	Comments	Repair Comp [y/n]	UT Accept/Reject Note new line for 2nd time repair
Weld Nr. (1-10)	Y-location [mm]							
1	700	Yes	None	1	700	Yes	Confirmed Crack measuring 15mm in	UTPA Accepted
1	9725	Yes	None	1	9725	No	None	N/A
1	10855	Yes	None	1	10855	Yes	Confirmed Crack measuring 30mm in	UTPA Accepted
2	4250	Yes	None	2	4250	No	None	N/A
2	6690	Yes	None	2	6690	No	None	N/A
2	9075	Yes	None	2	9075	Yes	Confirmed Crack measuring 12mm in	UTPA Accepted
3	732	Yes	None	3	732	Yes	Confirmed Crack measuring 10mm in	UTPA Accepted
3	6720	Yes	None	3	6720	No	None	N/A
3	8510	Yes	None	3	8510	No	None	N/A
4	3720	Yes	None	4	3720	Yes	Confirmed Crack measuring 10mm in	UTPA Accepted
5	3720	Yes	None	5	3720	Yes	Confirmed Crack measuring 10mm in	UTPA Accepted
6	N/A	No	NO RECORDABLE indications found	6	N/A	No	NO RECORDABLE indications found	N/A
7	N/A	No	NO RECORDABLE indications found	7	N/A	No	NO RECORDABLE indications found	N/A
8	4855	Yes	None	8	4855	Yes	Confirmed Crack measuring 8mm in	UTPA Accepted
9	5450	Yes	None	9	5450	No	None	N/A
10	8495	Yes	None	10	8495	No	None	N/A
10	9665	Yes	None	10	9665	Yes	Confirmed Crack measuring 12mm in	UTPA Accepted
10	9700	Yes	None	10	9700	Yes	Confirmed Crack measuring 11mm in	UTPA Accepted
10	10865	Yes	None	10	10865	Yes	Confirmed Crack measuring 8mm in	UTPA Accepted

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:** Changxing Island, Shanghai, PRC**Report No:** NCS-000344**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 30-Nov-2009**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0165**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: 01-Sep-2008**Description of Non-Conformance:**

The Contractor has not complied with the written order of the Engineer to suspend work. The Contractor performed fit-up and tack welding of diaphragm plates to deck panels after the issuance of a State Letter directing the Contractor to suspend such work.

Contractor's proposal to correct the problem:

Submit phased array ultrasonic testing data verifying that the deck panels in question are in conformance with the Contract requirements.

Corrective action taken:

ABF has submitted the Caltrans phased array ultrasonic testing results which confirm that the deck panels are in conformance. The order to stop work was removed after the non conformance was issued, and all parties agree on closing this issue.

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

Inspected By: Simonis, Jim

Quality Assurance Inspector

Reviewed By: Wahbeh, Mazen

QA Reviewer