

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-000193

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 11-Sep-2008

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

NCR #: ZPMC-0174

Type of problem:

Welding	Concrete	Other	
Welding	Curing	Procedural	Bridge No: 34-0006
Joint fit-up	Coating	Other	Component: DP007-001
Procedural	Procedural	Descriptor: OBG Deck Panel	

Reference Description: Diaphragm Installation Unapproved Repairs

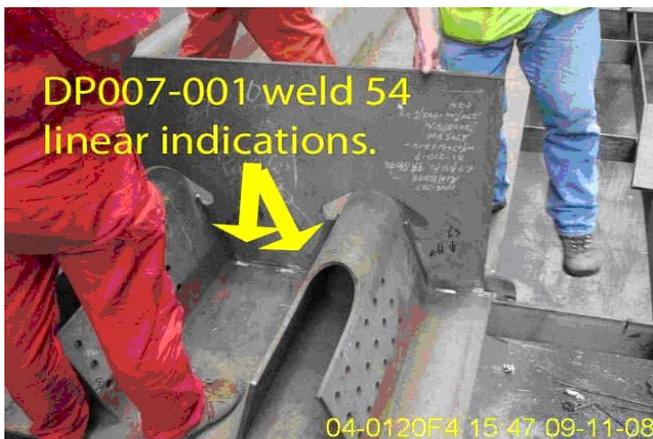
Description of Non-Conformance:

The Contractor has not complied with the written order of the Engineer to suspend work. The Contractor has welded diaphragm plates to deck panel DP007-001. Additionally, the Contractor performed unapproved repairs to cracks and base metal on the non-compliant welds. This was observed on weld joint # -0054 of deck panel DP007-001.

Applicable reference:

Temporary Suspension of Diaphragm Plate to Deck Plate Assembly Resident Engineer letter No. 05.03.
 01-002561 Dated August 15, 2008

Special Provisions, Sec. 8-3.01 Welding Quality Control (p. 154): "In addition to the provisions in AWS D1.5, Section 3.7.4 and Section 12.17, third-time repairs of welds or base metal, regardless of NDT method, and all repairs of cracks require prior approval of the Engineer."



QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Who discovered the problem: ABF representative Mr. Art Peterson
Name of individual from Contractor notified: ABF QC Inspector Peter Shaw
Time and method of notification: Verbal notification at 1715 hrs.
Name of Caltrans Engineer notified: Ching Chao
Time and method of notification: Verbal notification at 10:30 on 15-Sep-08
QC Inspector's Name: NA
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: 17-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: 05.03.06-000165

Subject: NCR No. ZPMC-0174

Reference Description: Diaphragm Installation Unapproved Repairs

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 performed unapproved repairs to cracks and base metal on the non-compliant welds. This was observed on weld joint # -0054 of deck panel DP007-001.
Please refer to the attached NCR #ZPMC-0174 for details.

Action Required and/or Action Taken:

A response for the resolution of this issue is expected within 14 days.
The contractor is only required to respond to the issue related to the repairs to the cracks and base metal on non-compliant welds.
The suspension of work regarding the diaphragm plates to beck panel has been lifted by State letter no. 05.03.01-002682, dated Sept. 11, 2008.

Transmitted by: Ching Chao

Attachments: ZPMC-0174

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: 05.03.06-000165

Subject: NCR No. ZPMC-0174

Dated: 01-Oct-2008

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000163 Rev: 00

Contractor's Proposed Resolution:

Reference Resolution: ZPMC Requests that this NCR be closed because the NCR is in conflict with the WQCP.
Please find attached.

Submitted by:

Attachment(s): ABF-NPR-000163R00;

Caltrans' comments:

Status: REJ

Date: 11-Nov-2008

The proposed resolution is not acceptable. Repairs to crater cracks and cracks in tack welds can be done without Engineer approval on non-SPCM material, but not repairs to base metal. Weld repairs to base metal, which were part of Non-Conformance ZPMC-0174, require prior approval of the Engineer.

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-0174 at that time.

Submitted by: Wright, Doug

Date: 12-Nov-2008

Attachment(s):



No. B-301

LETTER OF RESPONSE

TO: American Bridge/Flour JV

DATE: 2008-9-25

REGARDING: NCR-000193 (ZPMC-0174)

With this letter of response, ZPMC requests closure for Caltrans NCR-000193 (ZPMC-0174). It's true that there were some cracks indicated in the tack weld area during fit-up the diaphragm plates to deck panels. But according to the WQCP section 9.2.1.1 that the contractor can repairs to crater cracks and cracks in tacks without the engineer's approval. That's the normal method for ZPMC to deal with the tack weld crack in the fabrication process. And the ABF or caltrans still not have any question in the production before about this.

Besides that we will perform the MT to confirm that the crack in tack weld has been removed completely after repair. so there is not need for us to worry about the weld quality .

So ZPMC considers NCR-000193 can be closed and submits the application .

Please reference attached documentation for acceptance and closure the NCR-000193.

ATTACHMENT:

NCR-000193 (ZPMC-0174)

zhao shuangbao

2008.9.25

*ABF QCM
26 SEPT. 08*

XPW/NCR (夏下印件)

—09/22/08



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.J. Date: 17-Sep-2008
375 BURMA ROAD
OAKLAND CA 95607

Contract No: 04-0120F4
04-SF-80-13.2 / 13.9
Job Name: SAS Superstructure
Document No: 05.03.06-000165

Dear: Mr. Charles Kanapicki
Attention: Mr. Dave Williams Consultant
Subject: NCR No. ZPMC-0174

Reference Description: Diaphragm Installation Unapproved Repairs

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 performed unapproved repairs to cracks and base metal on the non-compliant welds. This was observed on weld joint # -0054 of deck panel DP007-001.

Please refer to the attached NCR #ZPMC-0174 for details.

Action Required and/or Action Taken:

A response for the resolution of this issue is expected within 14 days.

The contractor is only required to respond to the issue related to the repairs to the cracks and base metal on non-compliant welds.

The suspension of work regarding the diaphragm plates to beck panel has been lifted by State letter no. 05.03.01-002682, dated Sept. 11, 2008.

Transmitted by: Ching Chao

Attachments: ZPMC-0174

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. 15
 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-000193

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 11-Sep-2008

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

NCR #: ZPMC-0174

Type of problem:

Welding Concrete Other
 Welding Curing Procedural Bridge No: 34-0006
 Joint fit-up Coating Other Component: DP007-001
 Procedural Procedural Description: OBG Deck Panel

Reference Description: Diaphragm Installation Unapproved Repairs

Description of Non-Conformance:

The Contractor has not complied with the written order of the Engineer to suspend work. The Contractor has welded diaphragm plates to deck panel DP007-001. Additionally, the Contractor performed unapproved repairs to cracks and base metal on the non-compliant welds. This was observed on weld joint # -0054 of deck panel DP007-001.

Applicable reference:

Temporary Suspension of Diaphragm Plate to Deck Plate Assembly Resident Engineer letter No. 05.03.
 01-002561 Dated August 15, 2008

Special Provisions, Sec. 8-3.01 Welding Quality Control (p. 154): "In addition to the provisions in AWS D1.5, Section 3.7.4 and Section 12.17, third-time repairs of welds or base metal, regardless of NDT method, and all repairs of cracks require prior approval of the Engineer."



QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Who discovered the problem: ABF representative Mr. Art Peterson

Name of individual from Contractor notified: ABF QC Inspector Peter Shaw

Time and method of notification: Verbal notification at 1715 hrs.

Name of Caltrans Engineer notified: Ching Chao

Time and method of notification: Verbal notification at 10:30 on 15-Sep-08

QC Inspector's Name: NA

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

	WELDING QUALITY CONTROL PLAN	SECTION 9 PAGE: 2 OF 3
	San Francisco Oakland Bay Bridge Project	REV. 1 Sep 2007

WELD REPAIR PROCEDURES

9.1.7.2 Groove weld surface profiles that interfere with the performance of the NDT procedure or produce questionable test results shall be ground smooth and blended with the adjacent material.

9.2 Weld Repair

9.2.1 Repairs for Other Than Fracture Critical Members (SPCMs)

9.2.1.1 *Weld repairs performed in conformance with Section 3.2 or 3.7 of the AWS D1.5M/D1.5-2002 Bridge Welding Code and repairs to crater cracks and cracks in tacks may be performed without the Engineer's approval. Crater cracks, cracks in tacks and cracks in root passes shall require notification of the Engineers on site representative.*

<input checked="" type="checkbox"/>	APPROVED
<input type="checkbox"/>	APPROVED AS NOTED
<input type="checkbox"/>	NOT APPROVED

Pursuant to Section 9.2.1.1 of the Standard Specifications of the State of California

DEPARTMENT OF TRANSPORTATION

Signed *R. Rice* for RICE MORAN
Structure Representative

Date 9-27-2007

9.2.1.2 *Prior approval of the Engineer shall be obtained for repairs to other than what was identified in Section 9.2.1.1 of this section and the repair of all other cracks.*

9.2.1.3 *Prior approval shall be obtained from the Engineer for 3rd (third) time repairs in the same location.*

9.2.1.4 *Weld repair shall be in accordance with the requirements of WPS which only applied for Non-FCM.*

9.2.1 Repair of surface defects of base metal (pitting, arc strikes, compress marks)

9.2.2.1 The surface defects such as pitting, arc strikes and compress marks shall be repaired by grinding and arc gouge excavation if necessary. The ground surface shall be transitioned smoothly. If the thickness after grinding is within the allowance shall have no need for repairing weld. Magnet particle test shall be performed for the arc strike area after grinding for verifying no more defects.

9.2.2.2 When the base metal thickness is exceeding its' maximum tolerance after grinding, it shall be repair weld.

NCR PROPOSED RESOLUTION

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

Dated: 24-Nov-2008

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

Attention: Pursell, Gary
Resident Engineer

Job Name: SAS Superstructure

Document No.: ABF-NPR-000163 Rev: 01

Ref: 05.03.06-000165

Subject: NCR No. ZPMC-0174

Contractor's Proposed Resolution:

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

Please find attached.

Submitted by:

Attachment(s): ABF-NPR-000163R01; WRR & NDT reports

Caltrans' comments:

Status: CLO

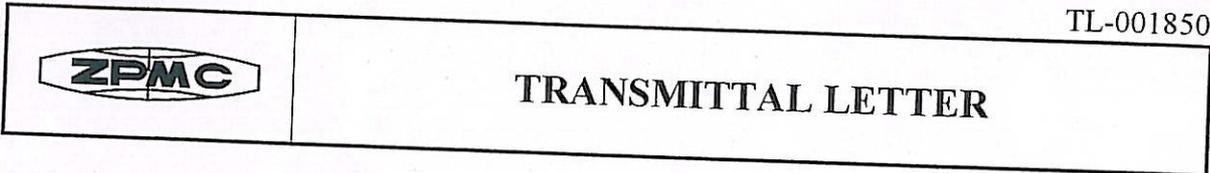
Date: 18-Jan-2009

The proposed resolution is acceptable. The weld in question has been accepted as shown in the attached VT and MT reports. The Department concurs that Non-Conformance ZPMC-0174 is closed.

Submitted by: Wright, Doug

Date: 19-Jan-2009

Attachment(s):



PROJECT: SAN FRANCISCO OAKLAND BAY BRIDGE

DATE: 11/24/2008

TO: RUBY/ ABFJV QA DEPARTMENT

FROM: ZPMC QA DEPARTMENT

SUBJECT: CALTRANS NCR FOR CLOSURE

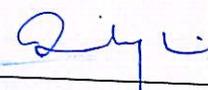
SUBMITTED FOR YOUR APPROVAL.

ENCLOSED WITH THIS TRANSMITTAL IS ONE

- (1) COPY OF LETTER OF RESPONSE WITH NO.B-301R2 FOR CLOSURE.
- (2) COPY OF NCR WITH NUMBER NCR-000193(ZPMC-0174).
- (3) COPY OF THE WELDING REPAIR REPORT
- (4) COPY OF THE CORRESPONDING VT/MT/UT REPORTS

PLEASE SIGN THIS TRANSMITTAL AND RETURN TO ME.

ACKNOWLEDGEMENT:



 PLAN HOLDER

RECEIVED: 24 NOV 2008
 1425

 DATE



 COMPANY

 PHONE NO.

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



No. B-301R2

LETTER OF RESPONSE

TO: American Bridge/Flour JV

DATE: 2008-11-24

REGARDING: NCR-000193 (ZPMC-0174)

With this letter of response, ZPMC requests closure for Caltrans NCR-000193 (ZPMC-0174). 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-000193 (ZPMC-0174) can be closed.

Please check the attached documentation for acceptance and close the NCR-000193 (ZPMC-0174).

ATTACHMENT:

NCR-000193 (ZPMC-0174)

The welding repair report

The corresponding VT/MT/UT reports

zhao shuangbao

2008.11.24.

*H. Williams
ABF
24 Nov. 08*

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICESOffice of Structural Materials
Quality Assurance and Source InspectionBay Area Branch
690 Walnut Ave., Ste. 110
Vallejo, CA 94592-1110
(707) 649-5453
(707) 649-5493Contract #: 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-000193

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 11-Sep-2008

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

NCR #: ZPMC-0174

Type of problem:

Welding Concrete Other
 Welding Curing Procedural Bridge No: 34-0006
 Joint fit-up Coating Other Component: DP007-001
 Procedural Procedural Description: OBG Deck Panel

Reference Description: Diaphragm Installation Unapproved Repairs

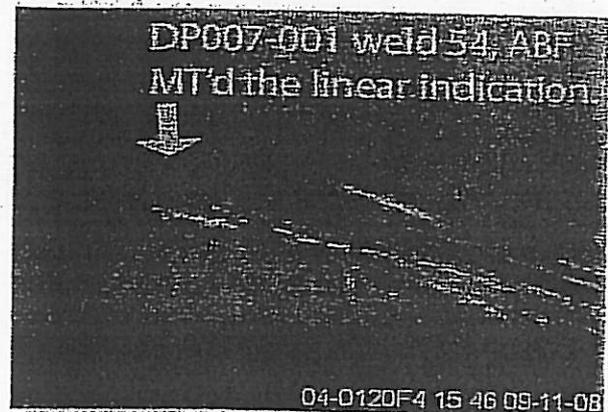
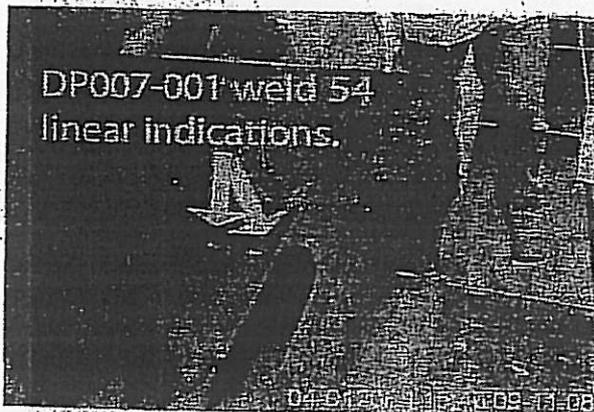
Description of Non-Conformance:

The Contractor has not complied with the written order of the Engineer to suspend work. The Contractor has welded diaphragm plates to deck panel DP007-001. Additionally, the Contractor performed unapproved repairs to cracks and base metal on the non-compliant welds. This was observed on weld joint # -0054 of deck panel DP007-001.

Applicable reference:

Temporary Suspension of Diaphragm Plate to Deck Plate Assembly Resident Engineer letter No. 05.03.
01-002561 Dated August 15, 2008

Special Provisions, Sec. 8-3.01 Welding Quality Control (p. 154): "In addition to the provisions in AWS D1.5, Section 3.7.4 and Section 12.17, third-time repairs of welds or base metal, regardless of NDT method, and all repairs of cracks require prior approval of the Engineer."





焊缝返修报告

版本 Rev. No.

Welding Repair Report

0

项目名称 Project Name	美国海湾大桥 SFOBB	部件图号 Drawing No	DP7	报告编号 Report No.	B-WR1009
合同号 Contract No.:	04-0120F4	部件名称 Items Name	顶板	NDT报告编号 Report No. of NDT	
项目编号 Project No.:	ZP06-787				

焊缝缺陷描述:

Description of welding discontinuity:

顶板DP007在烧焊隔板连接板时有两个点焊受应力影响导致点焊开裂, 在打磨开裂点焊时, 发现DP007钢板有夹层.

Two tack welds of deck plate DP007 were cracked because of the stress impact when floor beam splice plate was been welding, and then the deck plate was found to have interlayer during we were grinding the cracked tack welds.

检验员 (Inspector):

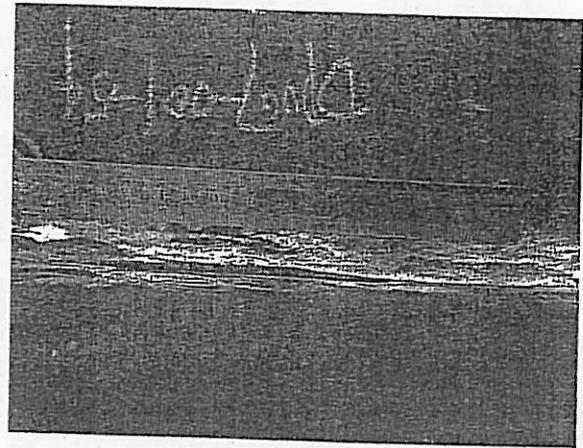
Shi Lei

日期(Date):

08.09.20

焊缝返修位置示意图:

Draft of welding discontinuity:



注: 夹层经母材探伤检测确定为照片中的两个点

Interlayer was confirmed to be at two points showed in above photo by base metal NDT

产生原因:

Caused:

- 1、由于材料经过钢板仓库报验合格后，才进入下道工序施工，母材有问题下道工序无法确认。
The base metal was checked as ACC by steel plate storehouse, and then it was sent to the workshop for fabrication, when we cannot confirm whether there was any problem.

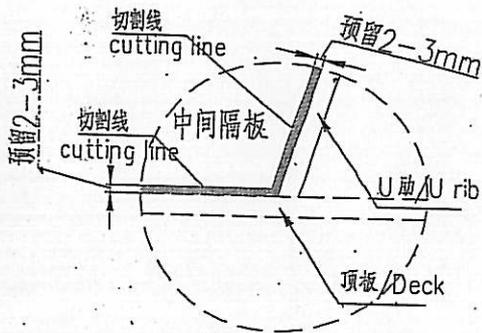
车间负责人(Foreman):zhangYanzhi 日期(Date):08.09.20.

Zhang Yanzhi 08.09.20

处理意见:

Disposition:

- 首先将隔板接板之间点焊去除，根据下图所示采用碳割或火焰切割的方式将隔板接板割除，同时按照下列方法对顶板母材进行返修。
 - 采用UT检测方法对顶板夹层1米范围内进行母探，以确定缺陷位置，并对顶板其它位置（根据现场实际情况）进行抽查，确定是否存在缺陷，若缺陷不存在，按下述步骤对夹层区域进行返修；若抽查发现缺陷，应停止返修，立即上报；
 - 根据焊接返修工艺规程（WPS）准备一个正确的接头形式；
 - 对该区域作100%VT与MT检查，确保缺陷全部去除；
 - 根据批准的焊接返修工艺规程（WPS）进行预热及焊接；
 - 将焊接区域打磨至与母材平齐；
 - 对修补区域进行NDT（VT MT UT）检测；
- 根据图纸要求重新装配隔板接板。



Disposition:

- Remove the all diaphragm by gouging or oxygen cutting according to the drawing 1 from the deck after grind the tack welding between diaphragm and diaphragm and clean the leave part by means of grinding and deal with according to the below steps.
 - Inspect base metal by use of UT in range of 1m to ensure the defects area, and random inspection the other area according to practice condition to ensure whether it is defects or not, if it is no defects, repair according to the following process, if it finds some defects, it shall stop repairing to notify technology department.
 - Prepare excavation with relevant WPS. c. 100% VT and MT to verify repair area is free of all defects.
 - Preheat and weld according to the relevant WPS.
 - Grind the weld flush with base metal after welding.
 - Perform NDT(VT MT UT) inspection of the repaired area.
- Assemble the diaphragm again according to the shop drawing.

工艺: Technical engineer NM [Signature]

审核: Approved by

日期 Date 2018.10.24



焊缝返修报告

Welding Repair Report

版本 Rev. No.

0

项目名称 Project Name	美国海湾大桥 SFOBB	部件图号 Drawing No.	DP7	报告编号 Report No.	B-WR1009
合同号 Contract No.:	04-0120F4	部件名称 Items Name	顶板	NDT报告编号 Report No. of NDT	
项目编号 Project No.:	ZP06-787				

纠正措施:

Correction action to prevent re occurrence:

1、希望上道工序严格检验材料，确认材料没有问题后再进入下道工序施工。

The material should not be sent for fabrication until it is confirmed as ACC, and check before fabrication shall be strict.

车间负责人(Foreman): Zhang Yan zhi 日期(Date): 08.09.20

参照的WPS编号 Repair WPS No.	WPS-345-FCAW-1 G-Repair-1 WPS-345-SMAW-1 G-Repair	工艺员 technologist	Niu Hefang 2008.10.24
返修(碳刨)前预热温度 Preheat temperature before gouging	N/A	返修的缺陷 Description of discontinuity	夹层
焊前处理检查 Inspection before welding	打磨	焊前预热温度 Preheat temperature before welding	300°C
最大碳刨深度 Max. depth of gouging	N/A	碳刨总长 Total length of gouging	N/A
焊工 welder Hu Yong cheng 203803	焊接类型 welding type FCAW	焊接位置 position 1G	
焊接电流 Current 265	焊接电压 Voltage 29.5	焊接速度 Speed 560	
返修后检查 Inspection After repairing:			
外观检查 VT result Acc	检验员 Inspector Sun Wei 07051331	日期 Date 08.10.20	
NDT复检 NDT result Acc	探伤员 NDT person W. Zhang	日期 Date 08-10-20	
见证: Witness/Review:			
备注: Remark:			

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-000154**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 05-Jan-2009**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0174**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: 11-Sep-2008**Description of Non-Conformance:**

The Contractor has not complied with the written order of the Engineer to suspend work. The Contractor has welded diaphragm plates to deck panel DP007-001. Additionally, the Contractor performed unapproved repairs to cracks and base metal on the non-compliant welds. This was observed on weld joint # -0054 of deck panel DP007-001.

Contractor's proposal to correct the problem:

Repair as indicated in WWR B-WR1009

Corrective action taken:

The repaired weld is acceptable based on NDT test results.

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 Eric Tsang, +(86) 150.0042.2372, who represents the Office of Structural Materials for your project.

Inspected By: Tsang, Eric

Quality Assurance Inspector

Reviewed By: Wahbeh, Mazen

QA Reviewer