

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 **Report No:** NCR-000363
Prime Contractor: American Bridge/Fluor Enterprises, a JV **Date:** 06-Jul-2009
Submitting Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0337

Type of problem:

Welding	Concrete	Other	
Welding	Curing	Procedural	Bridge No: 34-0006
Joint fit-up	Coating	Other	Component: 7CE
Procedural	Procedural	Description:	

Reference Description: Unapproved Base Metal Repair

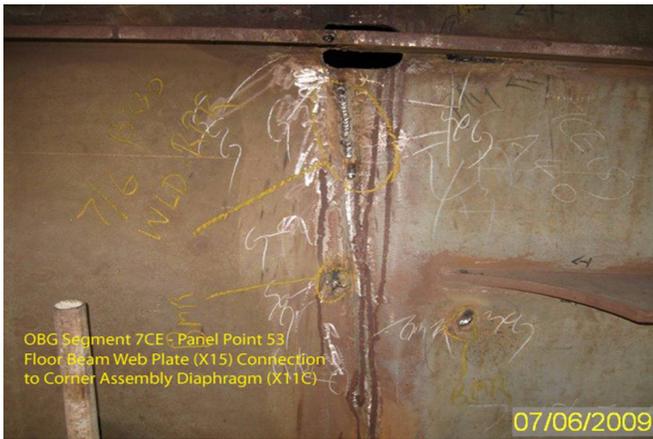
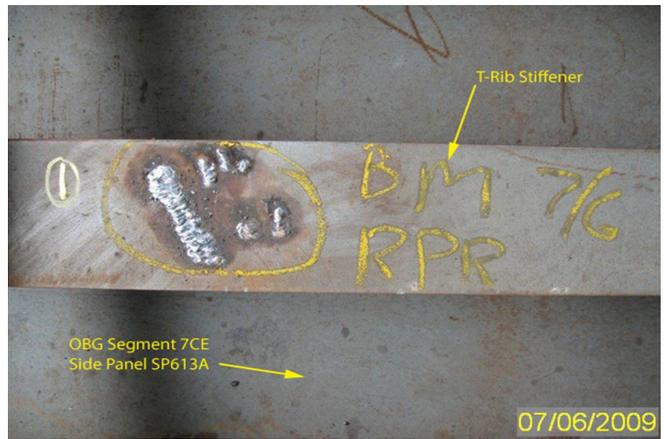
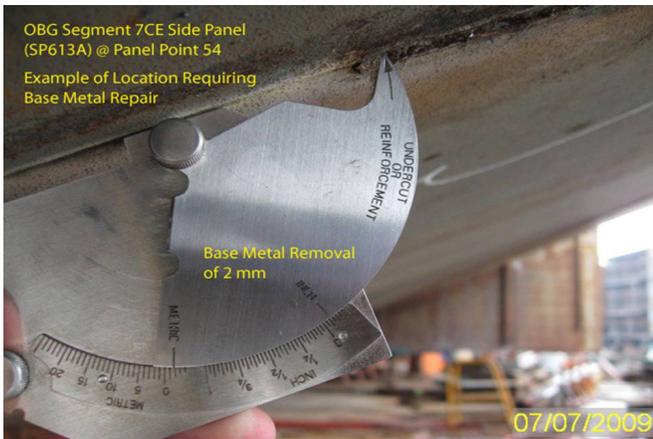
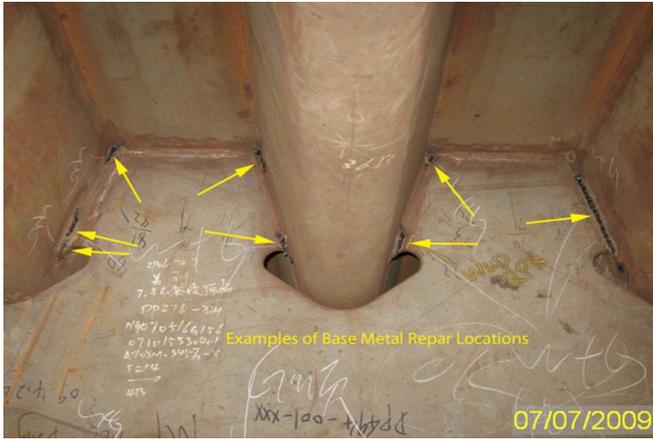
Description of Non-Conformance:

Caltrans Quality Assurance Inspector observed Unapproved Base Metal Repairs of multiple components in OBG Segment designated as 7CE. Repairs have been made at numerous locations (estimated to be in excess of one hundred) on multiple components such as Floor Beams, Deck Panels, Side Panels and Floor Panels.



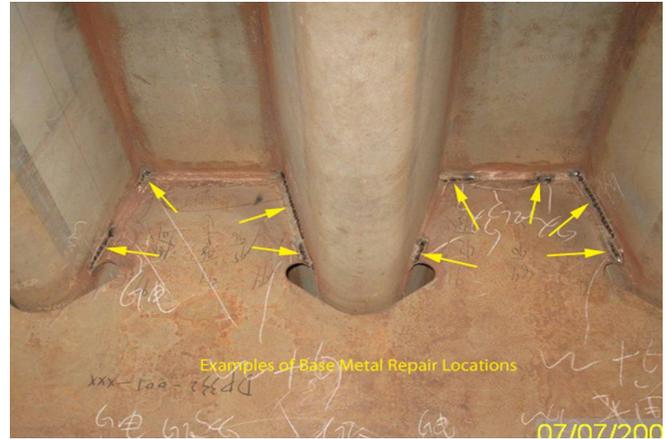
QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 3)



QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 3 of 3)



Applicable reference:

Contractor's Welding Quality Control Plan, Section 9.2.1.2: "Prior approval of the Engineer shall be obtained for repairs to base metal...."

AWS D1.5 / 2002 – Section 3.7.4 “Prior approval of the Engineer shall be obtained for repairs to base metal (other than those required by 3.2)...”

Who discovered the problem: Rory O’Kane

Name of individual from Contractor notified: Mr. CK Chan

Time and method of notification: 18:30 hours, Email

Name of Caltrans Engineer notified: Stanley Ku

Time and method of notification: 19:00 hours, Verbal

QC Inspector's Name: 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 Mazen Wahbeh,(818) 292-0659, who represents the Office of Structural Materials for your project.

Inspected By: Simonis,Jim

QA Inspector

Reviewed By: Wahbeh,Mazen

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: 04-Aug-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: 05.03.06-000316

Subject: NCR No. ZPMC-0337

Reference Description: Unapproved Base Meatal Repair

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:** 07

Remarks:

Caltrans Quality Assurance Inspector observed Unapproved Base Metal Repairs of multiple components in OBG Segment designated as 7CE. Repairs have been made at numerous locations (estimated to be in excess of one hundred) on multiple components such as Floor Beams, Deck Panels, Side Panels and Floor Panels.
See attached NCR No. ZPMC-0337 for details.

Action Required and/or Action Taken:

Propose a resolution for the identified non-conformance with revised procedures to prevent future occurrences.,A response for the resolution of this issue is expected within 14 days.

Transmitted by: Ching Chao

Attachments: ZPMC-0337

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

File: 05.03.06

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000316

Subject: NCR No. ZPMC-0337

Dated: 24-Aug-2009

Contract No.: 04-0120F4
04-SF-80-13.2 / 110

Job Name: SAS Superstructure

Document No.: ABF-NPR-000333 Rev 00

Contractor's Proposed Resolution:

Reference Resolution: ZPMC has been informed that a CWR is required for base metal repairs that are not covered as pre-approved repairs within the WQCP.

ZPMC has been informed that a CWR is required for base metal repairs that are not covered as pre-approved repairs within the WQCP. ZPMC will submit the required documents at a later date for closure of this NCR.

Submitted by:

Attachment(s): ABF-NPR-000333R00

Caltrans' comments:

Status: AAP

Date: 28-Aug-2009

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-0337 at that time.

Submitted by: Wrigley, Doug

Date: 28-Aug-2009

Attachment(s):

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000316

Subject: NCR No. ZPMC-0337

Dated: 30-Nov-2009

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000333 Rev: 01

Contractor's Proposed Resolution:

Reference Resolution: Attached is NDT documentation showing that the base metal is free of defects. ZPMC requests closure of this NCR.

ZPMC was performing base metal repairs in accordance with the agreement reached by ABFJV, ZPMC and Caltrans on September 12, 2007. All parties agreed that there was not a need to request the Engineer's approval for repairs for defects found during visual inspection. The meeting minutes and attendees of the meeting are attached. Based on that agreement ZPMC proceeded with repair of the defects found in 7CE by visual inspection. Attached is NDT documentation showing that the base metal is free of defects. ZPMC requests closure of this NCR.

Submitted by: Ishibashi, Joshua

Attachment(s): ABF-NPR-000333R01;

Caltrans' comments:

Status: REJ

Date: 03-Dec-2009

There is no NDT documentation attached with the NPR. Please re-submit for Engineer's review.

Submitted by: Chao, Ching

Attachment(s):

Date: 03-Dec-2009



No. B-507

LETTER OF RESPONSE

TO: American Bridge/Flour

DATE: 2009-11-30

REGARDING: NCR-000363(ZPMC-0337)

With this letter of response, ZPMC requests closure for Caltrans NCR-000363 (ZPMC-0337). In NCR-000363 (ZPMC-0337) it mentioned that QA observed unapproved base metal repairs of multiple components in OBG 7CE.

In accordance with Meeting Memo held on 2007-09-12 by three parties. Caltrans agreed that there is no need for record for the weld profile defects. Except the cracks. On the other hand, it could be agreed that only the defects which need carbon gouge excavations need record on the weld repair or critical weld repair. Whatever, ZPMC has finished FVT for this segment 7CE and MT was performed to warrant repairing areas' quality.

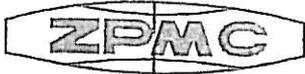
So ZPMC provided the meeting memo and Final VT Request Sheet, hoping Caltrans could take a review and consider close this NCR.

ATTACHMENT:

NCR-000363(ZPMC-0337)

Memo-012

B-FVT-033



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-234(ZPMC-0337)

Item: Unapproved Base Metal Repair Item Number: Drawing:

名称描述: 未经批准母材返修 件号: N/A 图号: 7CE

Location: OBG 7CE Date: 2009-08-18
位置: 日期:

Description of Nonconformance:

不符合项状态描述:

Caltrans Inspector observed that Unapproved Base Metal Repairs of multiple components in OBG Segment designated as 7CE. Repair have been made at numerous locations (estimated to be in excess of one hundred) on multiple components such as Floor Beam, Deck Panels, Side Plates and Floor Panels.

加州检验员发现 OBG 7CE 多处母材返修没有得到批准。这类返修发生在大量位置 (估计超过 100 处) 多种构件, 譬如横隔板、顶板、斜底板以及底板。

参考标准: WQCP 章节 9.2.1.2: 对母材进行返修前, 需事先得到工程师批准。AWS D1.5 章节 3.7.4: 母材的修补 (3.2 要求除外)。

Work By: Shijianqiang Prepared by: Lu Reviewed by QCE: Chao Shuangbao
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: 多处母材没得到批准返修。
Repair ~~base~~ base metal before approve by engineer.

预防措施: 母材返修前先得得到工程师批准。
Approve by engineer before repair base metal.

Approved by/批准: 李超

Technical Justification for Use-As-Is/Repair: Attachment Non-attachment

回用或返修的技术依据: 对修补区域进行 VT、MT 检测。加强现场管理, 严格按照流程进行, 杜绝此类事情发生。无附件

Reviewed /批准: Dai Rui 08.31/09 Perform VI and MT inspection to the repair area, Enhance site supervision, work per the flow strictly and stop happening the same thing.

Verification: Acceptable Unacceptable
确认: 可接受 不可接受

Verified by QCI/质检确认: Zhu Zhonghai Reviewed by QCA/质检主任审核: _____

2009.11.25

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Date: 06-Jul-2009

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

NCR #: ZPMC-0337

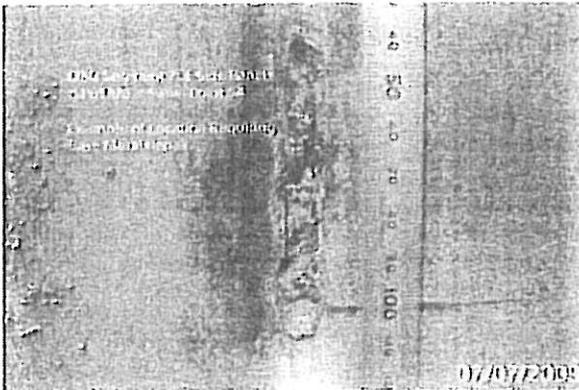
Type of problem:

Welding Concrete Other
 Welding Curing Procedural Bridge No: 34-0006
 Joint fit-up Coating Other Component: 7CE
 Procedural Procedural Description:

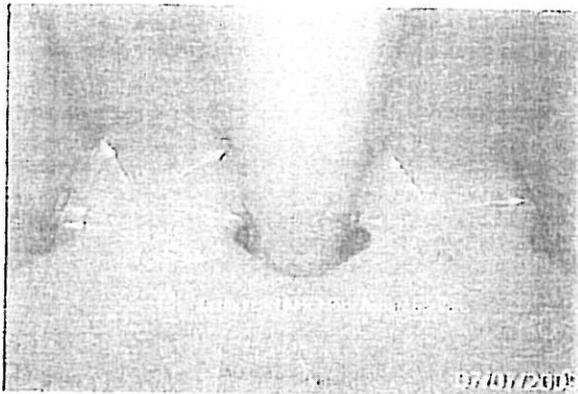
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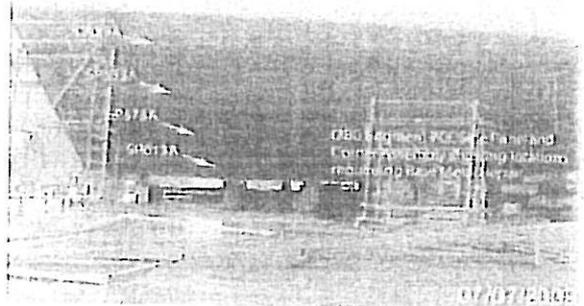
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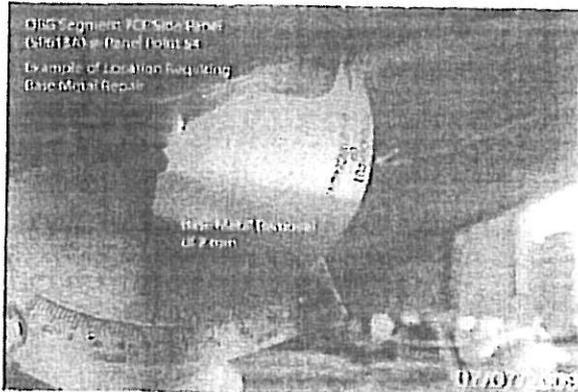
QUALITY ASSURANCE -- NON-CONFORMANCE REPORT
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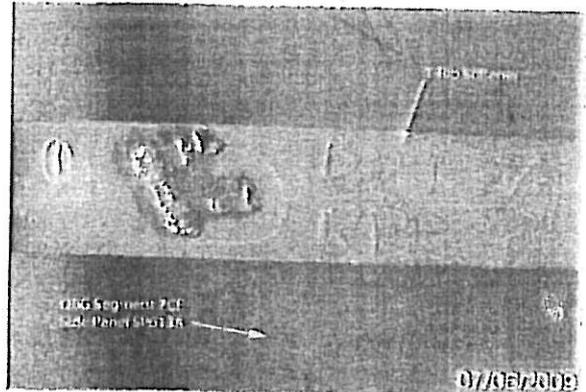
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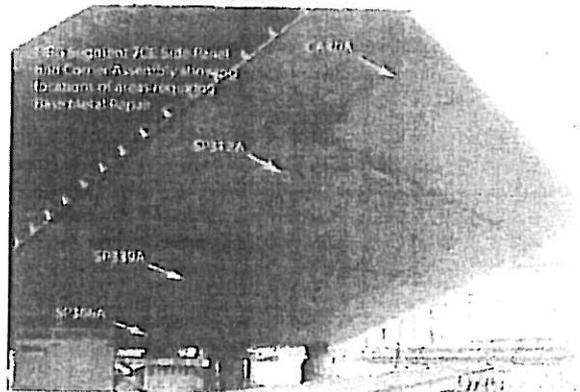
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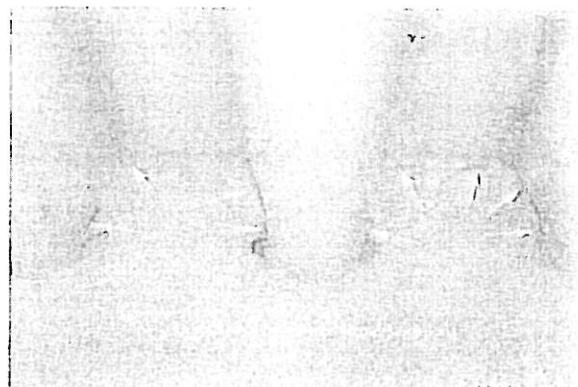
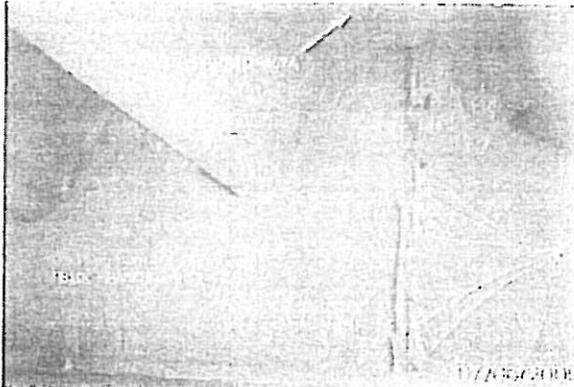
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QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

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Inspected By: Simonis, Jim

QA Inspector

Reviewed By: Wahbeh, Mazen

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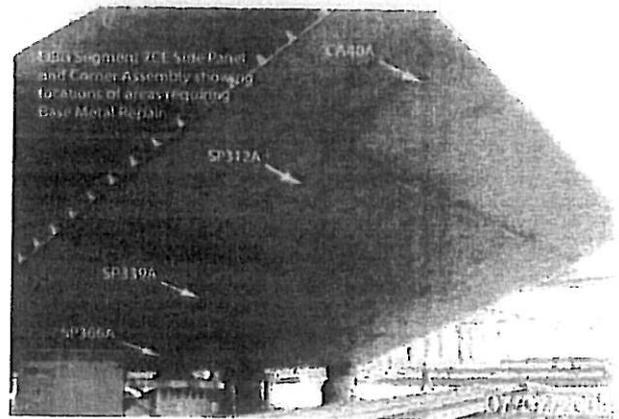
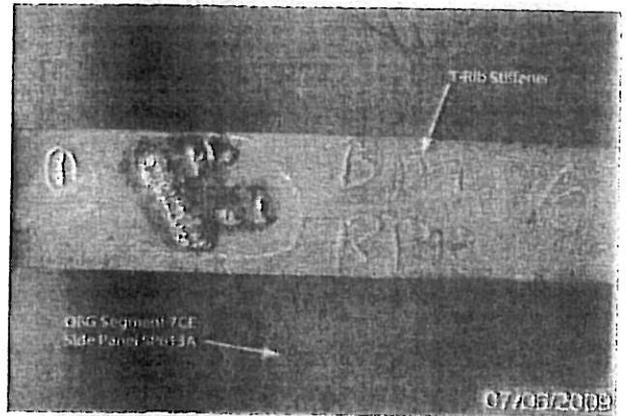
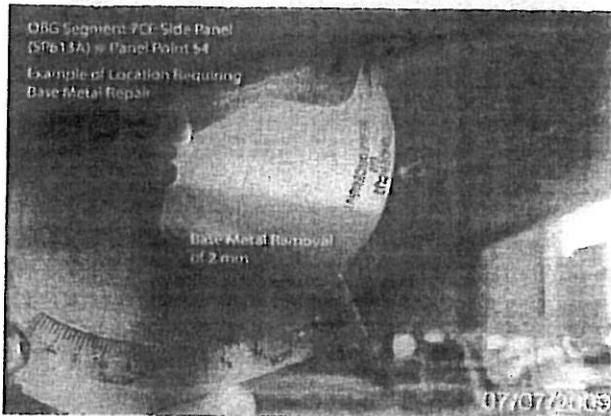
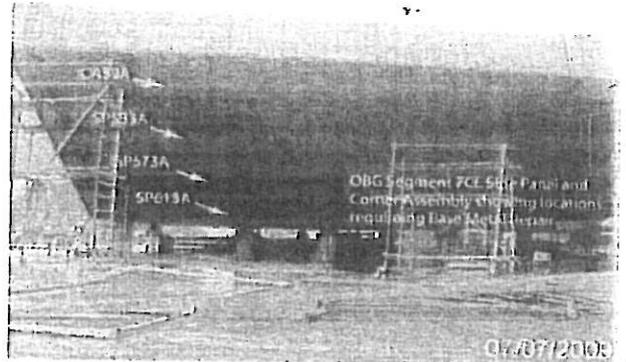
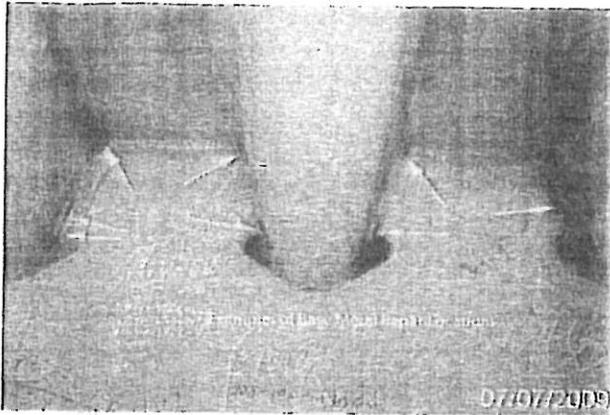
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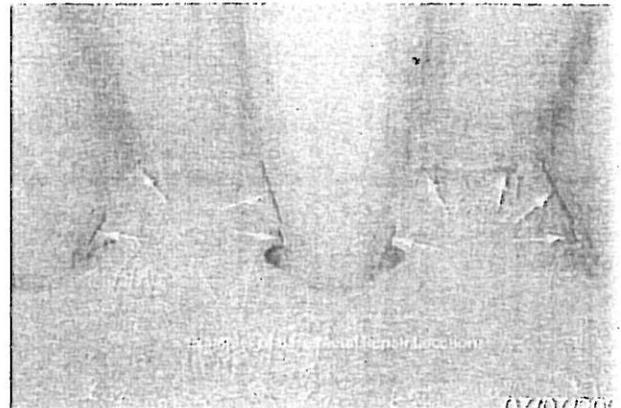
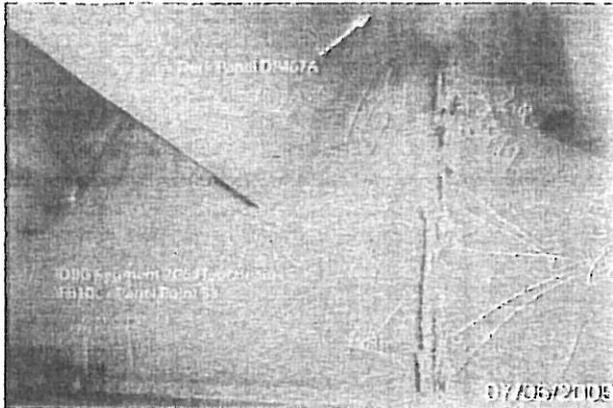
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QA Inspector

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母材探伤申请表

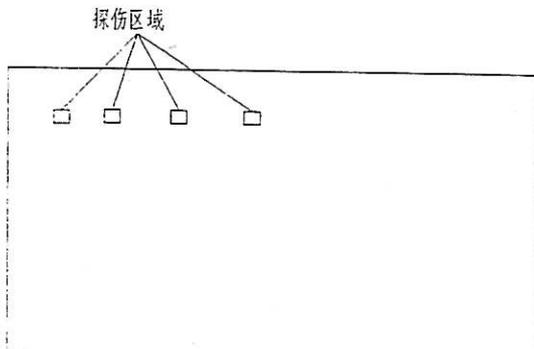
SHANGHAI ZHENHUA PORT MACHINERY CO LTD

APPLICATION FORM FOR BASE MATERIAL NDT

产品名称 Project Name		美国海湾 大桥		探伤类别 NDT type	100% MT	数量 Quantity		
序号 No.	零部件图号 Drawing No.	零部件名称 Items	件号 Item No.	数量 Quantity	板厚/尺寸 Thickness/Dimension	炉批号 Batch No.	材料 Material	结论 Result
	SEG038*	7CE 箱体所有临时构件去除处	BP 118A BP 172A BP 64A	80	300x150x12		A709M-345T 2-X A709M-345F 2-X	✓
	SEG038*	7CE 箱体所有临时构件去除处	SP 613A SP 573A	110	300x150x6		A709M-345T 2-X A709M-345F 2-X	✓

探伤位置图

Scheme showing the test part



注: 钢板表面易脚处理后灯控

备注:

- 焊后
- 校火后
- WR/CWR 碳刨后
WR/CWR NO: _____
- WR/CWR 返修后
WR/CWR NO: _____
- SPCM
- 其它
- 焊接方法 SMAW _____

车间位置 外场

申请人 Applicant	郭伟 施建刚	日期 Date	2009.11.26 ..	主探者 Inspected by	王斌	日期 Date	09.11.26
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会议纪要

第 1 页 共 1 页

MEMORANDUM

编号: Memo-012

PRODUCTION NAME: SFOBB	PROJECT NO: ZP06-787
TIME: 2007.09.12 13:30	PLACE: ROOM 718
ATTENDEES: SEE SIGN SHEET	
TOPIC: DAILY 13:30 REGULAR MEETING	

MEETING MEMO:

1. ZPMC 询问目视检查中发现的缺陷返修是否需要记录返修报告.比如表面未融合,未填满,咬边等.加州表示表面的外观可以这么认为.但裂纹应有返修报告记录.另外,可以这么认为,涉及到碳刨的工作需要记录返修报告.

ZPMC asked if ZPMC need record the weld repair for the defects which found by Visual inspection. For example, the defects like unfilled weld, insufficient fusion and undercut, etc. Caltrans agreed that there is no need for record for the weld profile defects. Except the cracks. On the other hand, it could be agreed that only the defects which need carbon gouge excavations need record on the weld repair report or critical weld repair.

2. ZPMC 询问打磨的程度,他们认为现在车间里大家要求都不一样,有些情况要求太过严格.加州回复说碳刨之后应将其打磨成圆弧,要打磨光滑,并不要求过亮.但由于坡口角度,碳刨方法不一样,光亮程度要求也不一样.ABF 建议做一些小的模板以确保打磨外形可接受,所有碳刨后氧化层都应去除且表现光滑.ZPMC 表示希望有明确答复,加州表明现场如有争议再找他们的上层一同商量.

ZPMC asked about the grinding finishing quality after gouging, they thought everyone has different ideas and requests. Also in some cases it is too strict. Caltrans responded that after gauging they should grind to smooth, it doesn't need shining. But to answer this question is case by case. Initially, all carbon deposits shall be removed And ABF suggested to make some small templates which can match the groove figuration for inspection. ZPMC still wants to be more clear on this issue. Caltrans replied that if ZPMC has the different understanding, please talk to Caltrans and confirm case by case.

3. ZPMC 询问无锡验板发运应准备些什么.加州答复在清单纸头应写上:发运到何地(可以写上无锡华光锅炉厂),何人,由 ZPMC 发出,

ZPMC inquired what they should prepare for the flange plates shipping to WuXi. Caltrans responded that it should be noted in the head of the list: deliver to where (Wuxi Huaguang Bolier), who and it was send from ZPMC. And also ZPMC should copy it and put it on file.

3. ZPMC 说现场的贴纸只是针对焊后检验,而过程中的检验,包括装配则可用记号笔在焊缝的附近标识.加州答复可以,只要确保这些标记是清晰可见,且容易找到的.

ZPMC explained that the identification sticker on site is only for the inspection after weld. And any in-process inspection is marked near the weld by mark pen. Caltrans agreed as long as these marks are clear and easily visible.

4. ZPMC 询问关键焊缝返修报告 001#的审批情况.加州拿出了修订版并希望知道更多有关其产生原因以及防止再次发生的矫正措施的等细化要求.ABF 表示会协同 ZPMC 一同来尽快完成此 CWR001#,并尽快提交加州再次审核.

ZPMC asked about status of CWR001 since ZPMC revised it as per Caltrans request. Caltrans rejected the revised CWR001# because they want to know more information about the cause and want ZPMC explain the prevention. It's so important for the same case in future. ABF will



会议纪要

第 1 页 共 1 页

MEMORANDUM

编号: Memo-012

help ZPMC to finish this CWR revised, and submit to Caltrans for approval soon.

6. ZPMC 询问第一批的钢板复试结果出来后应通知谁. Caltrans 答复会正式通过 ABF 通知 ZPMC. ZPMC hope to know the test result of the first batch of CHECK SAMPLE. Caltrans will let ZPMC know the testing result via ABF as soon as the test are finished.
7. ZPMC 将 9 月 13 日~9 月 15 日的生产安排计划复印给加州和 ABF.
ZPMC handed over the 3 days schedule (Sep. 13~15) to Caltrans and ABF.
8. ZPMC 通知明天焊工考试继续.
ZPMC informed that the welder qual. Test will be continued tomorrow.
—end—



会议签到单
MEETING ATTENDANCE

会议时间 13:30	会议地点 718室
MEETING TIME: 2007.09.12	SPOT: Room 718

姓名 NAME	职务 TITLE	邮件地址 MAIL ADDRESS
Jim Merrill	Sr. PRINCIPAL ENG	JKMERRILL@AOL.COM
ADY VELASCO	CT-SMR	
RYAN SMITH	CT-SMR	
Jason Tam	CT-Construction Manager	Jason_Tam@dot.ca.gov
ALISTAIR MELVILLE	CT-CONS.	alistair.melville@dot.ca.gov
PAUL Williams	ABF/JV Fab Mgr	
Robert Cuevas	CT TASK LEADER	
Danny McDonald	QA/ABF	DMcDonald@abfjv.com
Yang Xuehui	ZPMC	
Zhu Qindong	ZPMC/QC	Zhuqindong@zpmc.com
Hu Guang	ZPMC/QCA	Hu Guang @ zpmc.com
Art Peterson	QA/ABF	
STEVE LAWTON	QA/ABF	slawton@abfjv.com
JOHN KINSEY	Sr. CIVIL III	JKLAN@MINISIPONG.COM
Lujianhua	QA/ZPMC	
Li Jun	ZPMC/QA	

梁段最终目检通知单

Final VT Request Sheet

报验单编号

(Sheet No): B-FVT-033

ABF签收人&时间

ABF receiver & time: 20th Nov, 09, 10:45

我们要求对如下构件进行报验。请在检验完成后尽快给予批准。

We make request for inspection of the below items. Your earliest acceptance after inspection will be appreciated.

检验地点 (Inspection place)	<i>Outside Yard (near the deck plate place)</i>
构件名称 (Name of Component)	<i>TCE</i>
构件图号 (Drawing No. of Component)	<i>SEG 038</i>
检验时间 (Time)	<i>2009. 11. 20.</i>
施工队 (Sub contractor name)	<i>Shi Jian Gang</i>

	Yes No		Yes No		Yes No
焊缝区域校火是否结束? Weld Area Heat Straightening Complete?	<input checked="" type="checkbox"/> <input type="checkbox"/>	返修是否结束? Repair complete?	<input checked="" type="checkbox"/> <input type="checkbox"/>	探伤是否结束? NDT complete?	<input checked="" type="checkbox"/> <input type="checkbox"/>

检验结论:
RESULT OF INSPECTION:

接受/ACCEPT 拒收及理由/Reject and Reasons

Li Yan Hua 07120701 09. 11. 20.
ZPMC CWI signature & date:

接受/ACCEPT 拒收及理由/Reject and Reasons

** Some outstanding works to be done at T.A. yard.
Please refer to outstanding list of dated 20th Nov. 2009*

(AT) (m.k. Li)
ABF Representative Signature & date:

接受/ACCEPT 拒收及理由/Reject and Reasons

Caltrans Representative Signature & date:

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000316

Subject: NCR No. ZPMC-0337

Dated: 15-Dec-2009

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000333 **Rev:** 02

Contractor's Proposed Resolution:

Reference Resolution: Attached is the documentation requested by Caltrans. Based on this ZPMC requests closure of this NCR.
Attached is the documentation requested by Caltrans. Based on this ZPMC requests closure of this NCR.

Submitted by: Ishibashi, Joshua
Attachment(s): ABF-NPR-000333R02;

Caltrans' comments:

Status: AAP

Date: 21-Dec-2009

The NPR mentions there is still some work to be completed in the trial assembly yard. Provide documentation that this work has been done.

Submitted by: Howe, Bill
Attachment(s):

Date: 21-Dec-2009



No. B-507

LETTER OF RESPONSE

TO: American Bridge/Flour

DATE: 2009-11-30

REGARDING: NCR-000363(ZPMC-0337)

With this letter of response, ZPMC requests closure for Caltrans NCR-000363 (ZPMC-0337). In NCR-000363 (ZPMC-0337) it mentioned that QA observed unapproved base metal repairs of multiple components in OBG 7CE.

In accordance with Meeting Memo held on 2007-09-12 by three parties. Caltrans agreed that there is no need for record for the weld profile defects. Except the cracks. On the other hand, it could be agreed that only the defects which need carbon gouge excavations need record on the weld repair or critical weld repair. Whatever, ZPMC has finished FVT for this segment 7CE and MT was performed to warrant repairing areas' quality.

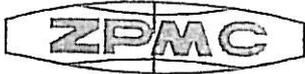
So ZPMC provided the meeting memo and Final VT Request Sheet, hoping Caltrans could take a review and consider close this NCR.

ATTACHMENT:

NCR-000363(ZPMC-0337)

Memo-012

B-FVT-033



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-234(ZPMC-0337)

Item: Unapproved Base Metal Repair Item Number: Drawing:

名称描述: 未经批准母材返修 件号: N/A 图号: 7CE

Location: OBG 7CE Date: 2009-08-18
位置: 日期:

Description of Nonconformance:

不符合项状态描述:

Caltrans Inspector observed that Unapproved Base Metal Repairs of multiple components in OBG Segment designated as 7CE. Repair have been made at numerous locations (estimated to be in excess of one hundred) on multiple components such as Floor Beam, Deck Panels, Side Plates and Floor Panels.

加州检验员发现 OBG 7CE 多处母材返修没有得到批准。这类返修发生在大量位置 (估计超过 100 处) 多种构件, 譬如横隔板、顶板、斜底板以及底板。

参考标准: WQCP 章节 9.2.1.2: 对母材进行返修前, 需事先得到工程师批准。AWS D1.5 章节 3.7.4: 母材的修补 (3.2 要求除外)。

Work By: Shijianqiang Prepared by: Lu Reviewed by QCE: Chao Shuangbao
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: 多处母材没得到批准返修。
Repair ~~base~~ base metal before approve by engineer.

预防措施: 母材返修前先得得到工程师批准。
Approve by engineer before repair base metal.

Approved by/批准: 李友刚

Technical Justification for Use-As-Is/Repair: Attachment Non-attachment

回用或返修的技术依据: 对修补区域进行 VT、MT 检测。加强现场管理, 严格按照流程进行, 杜绝此类事情发生。无附件

Reviewed /批准: Dai Rui 08.31/09 Work per the flow strictly and stop happening the same thing.

Verification: Acceptable Unacceptable
确认: 可接受 不可接受

Verified by QCI/质检确认: Zhu Zhonghai Reviewed by QCA/质检主任审核: _____

2009.11.25

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

Report No: NCR-000363

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 06-Jul-2009

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

NCR #: ZPMC-0337

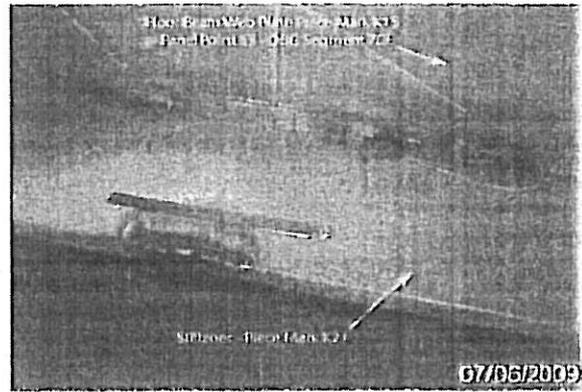
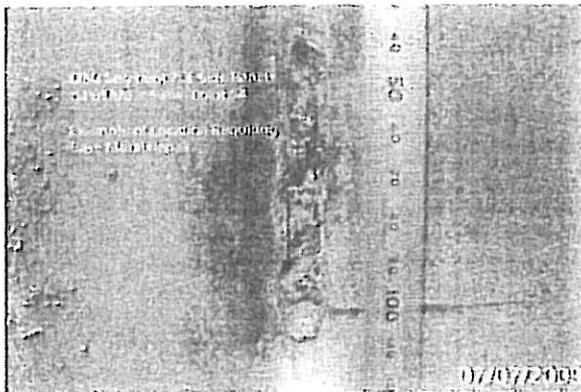
Type of problem:

Welding Concrete Other
Welding Curing Procedural Bridge No: 34-0006
Joint fit-up Coating Other Component: 7CE
Procedural Procedural Description:

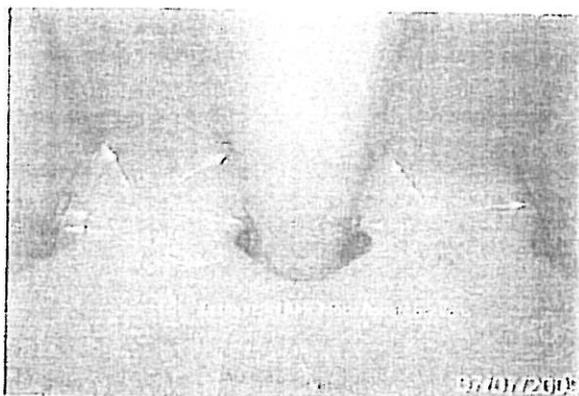
Reference Description: Unapproved Base Metal Repair

Description of Non-Conformance:

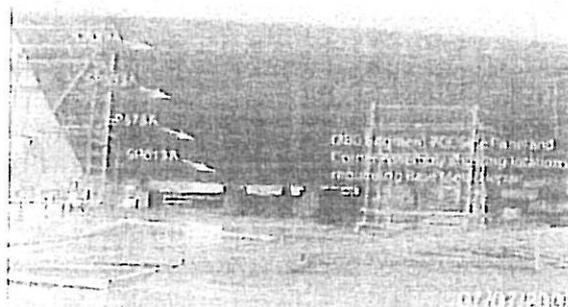
Caltrans Quality Assurance Inspector observed Unapproved Base Metal Repairs of multiple components in OBG Segment designated as 7CE. Repairs have been made at numerous locations (estimated to be in excess of one hundred) on multiple components such as Floor Beams, Deck Panels, Side Panels and Floor Panels.



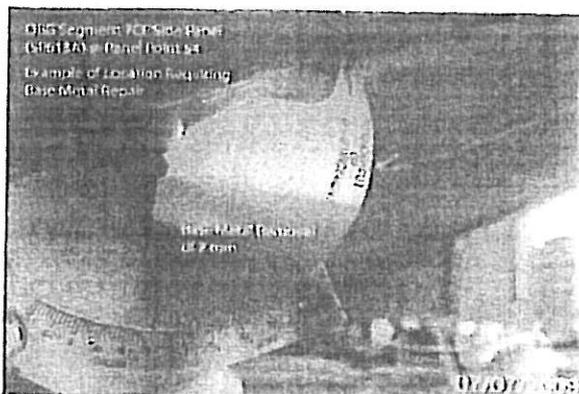
QUALITY ASSURANCE -- NON-CONFORMANCE REPORT
 (Continued Page 2 of 3)



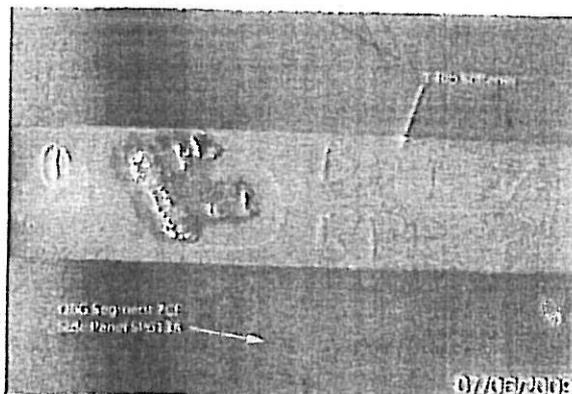
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07/03/2009



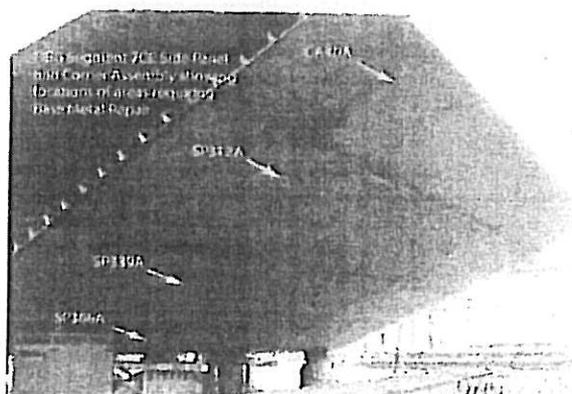
07/03/2009



07/03/2009



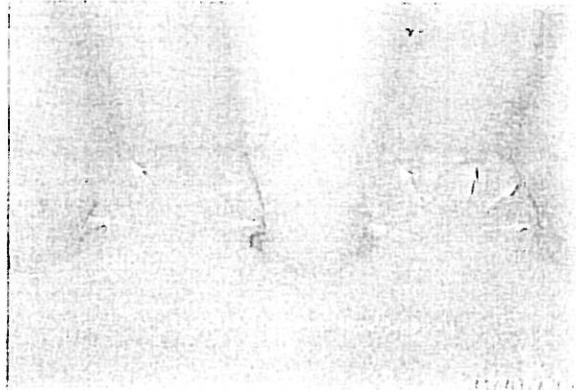
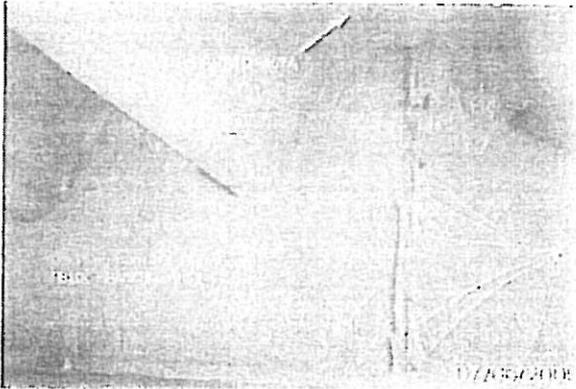
07/03/2009



07/03/2009

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 3 of 3)



Applicable reference:

Contractor's Welding Quality Control Plan, Section 9.2.1.2: "Prior approval of the Engineer shall be obtained for repairs to base metal..."

AWS D1.5 / 2002 - Section 3.7.4 "Prior approval of the Engineer shall be obtained for repairs to base metal (other than those required by 3.2)..."

Who discovered the problem: Rory O'Kane

Name of individual from Contractor notified: Mr. CK Chan

Time and method of notification: 18:30 hours, Email

Name of Caltrans Engineer notified: Stanley Ku

Time and method of notification: 19:00 hours, Verbal

QC Inspector's Name: 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 Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural Materials for your project.

Inspected By: Simonis, Jim

QA Inspector

Reviewed By: Wahbeh, Mazen

SMR



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-234(ZPMC-0337)	
Item: Unapproved Base Metal Repair	Item Number:	Drawing:	
名称描述: 未经批准母材返修	件号: N/A	图号: 7CE	
Location: OBG 7CE		Date:	
位置:		日期: 2009-08-18	

Description of Nonconformance:

不符合项状态描述:

Caltrans Inspector observed that Unapproved Base Metal Repairs of multiple components in OBG Segment designated as 7CE. Repair have been made at numerous locations (estimated to be in excess of one hundred) on multiple components such as Floor Beam, Deck Panels, Side Plates and Floor Panels.

加州检验员发现 OBG 7CE 多处母材返修没有得到批准。这类返修发生在大量位置 (估计超过 100 处) 多种构件, 譬如横隔板、顶板、斜底板以及底板。

参考标准: WQCP 章节 9.2.1.2: 对母材进行返修前, 需事先得到工程师批准。AWS D1.5 章节 3.7.4: 母材的修补 (3.2 要求除外)。

Work By: <u>Shijiangang</u>	Prepared by: <u>Lin Lu 8/18/09</u>	Reviewed by QCE: <u>Shao Shuangbao</u>
施工方: <u>Shijiangang</u>	准备: <u>Lin Lu 8/18/09</u>	质量工程师批准: <u>Shao Shuangbao</u>
<input type="checkbox"/> Drawing Error <u>8.18</u>	<input type="checkbox"/> Material Defect	<input checked="" type="checkbox"/> Fabrication Error
图纸错误	材料缺陷	制作错误
		<input type="checkbox"/> Other <u>8.18</u>
		其他原因

Disposition: <input type="checkbox"/> Use as is	<input type="checkbox"/> Repair	<input type="checkbox"/> 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:

多处母材没有得到批准返修。

预防措施:

Repair ~~base~~ base metal before approve by engineer.
母材返修前先得得到工程师批准。
Approve by engineer before repair base metal.

Approved by/批准: 李友刚

Technical Justification for Use-As-Is/Repair: <input type="checkbox"/> Attachment	<input type="checkbox"/> Non-attachment
回用或返修的技术依据:	
附件	无附件

Reviewed /批准: _____

Verification: <input type="checkbox"/> Acceptable	<input type="checkbox"/> 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
DIVISION OF ENGINEERING SERVICESOffice of Structural Materials
Quality Assurance and Source InspectionBay Area Branch
690 Walnut Ave. St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493Contract #: 04-0120F4City: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.25B**QUALITY ASSURANCE -- NON-CONFORMANCE REPORT****Location:** Changxing Island**Report No:** NCR-000363**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 06-Jul-2009**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0337**Type of problem:**

Welding **Concrete** **Other**
Welding **Curing** **Procedural** **Bridge No:** 34-0006
Joint fit-up **Coating** **Other** **Component:** 7CE
Procedural **Procedural** **Description:**

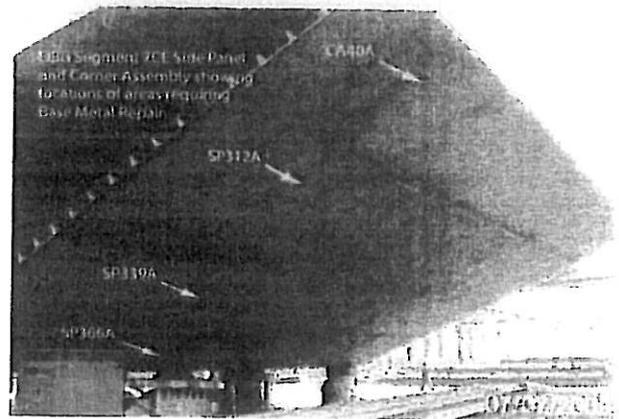
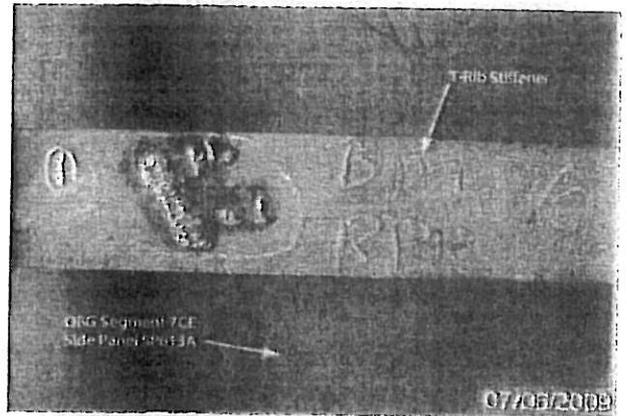
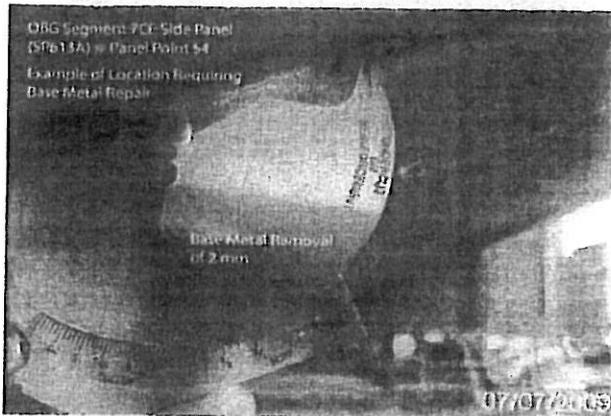
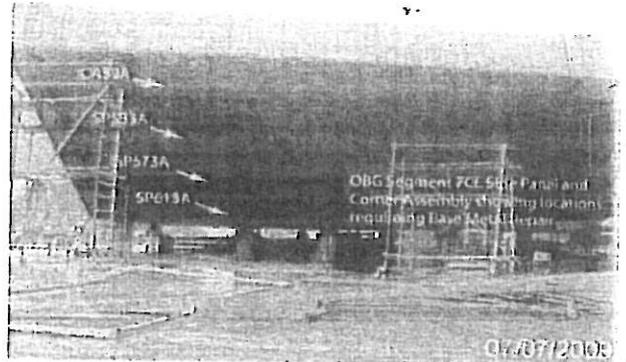
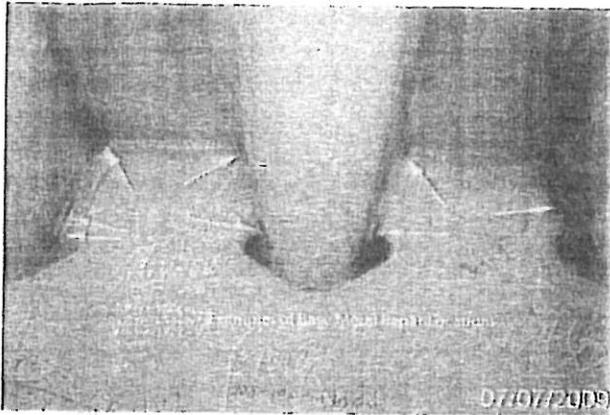
Reference Description: Unapproved Base Metal Repair**Description of Non-Conformance:**

Caltrans Quality Assurance Inspector observed Unapproved Base Metal Repairs of multiple components in OBG Segment designated as 7CE. Repairs have been made at numerous locations (estimated to be in excess of one hundred) on multiple components such as Floor Beams, Deck Panels, Side Panels and Floor Panels.



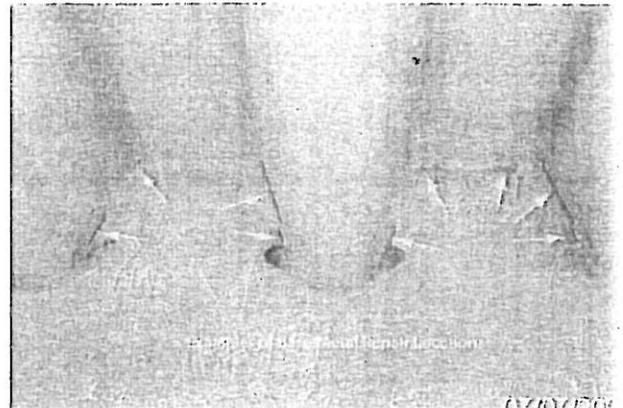
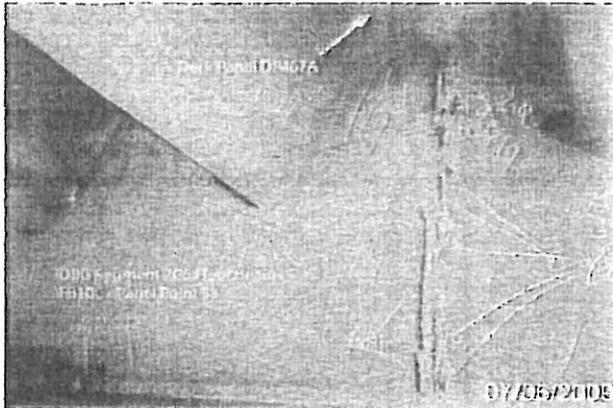
QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 3)



QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 3 of 3)



Applicable reference:

Contractor's Welding Quality Control Plan, Section 9.2.1.2: "Prior approval of the Engineer shall be obtained for repairs to base metal..."

AWS D1.5 / 2002 – Section 3.7.4 "Prior approval of the Engineer shall be obtained for repairs to base metal (other than those required by 3.2)..."

Who discovered the problem: Rory O'Kane

Name of individual from Contractor notified: Mr. CK Chan

Time and method of notification: 18:30 hours, Email

Name of Caltrans Engineer notified: Stanley Ku

Time and method of notification: 19:00 hours, Verbal

QC Inspector's Name: 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 Mazen Wahbeh,(818) 292-0659, who represents the Office of Structural Materials for your project.

Inspected By: Simonis,Jim

QA Inspector

Reviewed By: Wahbeh,Mazen

SMR



母材探伤申请表

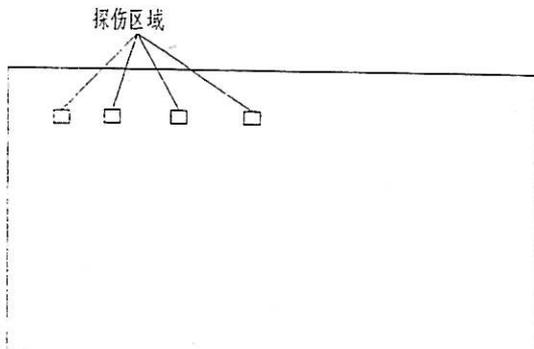
SHANGHAI ZHENHUA PORT MACHINERY CO LTD

APPLICATION FORM FOR BASE MATERIAL NDT

产品名称 Project Name		美国海湾 大桥		探伤类别 NDT type	100% MT	数量 Quantity		
序号 No.	零部件图号 Drawing No.	零部件名称 Items	件号 Item No.	数量 Quantity	板厚/尺寸 Thickness/Dimension	炉批号 Batch No.	材料 Material	结论 Result
	SEG038*	7CE 箱体所有临时构件去除处	BP 118A BP 172A BP 64A	80	300x150x12		A709M-345T 2-X A709M-345F 2-X	✓
	SEG038*	7CE 箱体所有临时构件去除处	SP 613A SP 573A	110	300x150x6		A709M-345T 2-X A709M-345F 2-X	✓

探伤位置图

Scheme showing the test part



注: 钢板表面易脚处理后灯控

备注:

- 焊后
- 校火后
- WR/CWR 碳刨后
WR/CWR NO: _____
- WR/CWR 返修后
WR/CWR NO: _____
- SPCM
- 其它
- 焊接方法 SMAW _____

车间位置 外场

申请人 Applicant	郭伟 施建刚	日期 Date	2009.11.26 ..	主探者 Inspected by	王斌	日期 Date	09.11.26
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会议纪要

第 1 页 共 1 页

MEMORANDUM

编号: Memo-012

PRODUCTION NAME: SFOBB	PROJECT NO: ZP06-787
TIME: 2007.09.12 13:30	PLACE: ROOM 718
ATTENDEES: SEE SIGN SHEET	
TOPIC: DAILY 13:30 REGULAR MEETING	

MEETING MEMO:

1. ZPMC 询问目视检查中发现的缺陷返修是否需要记录返修报告.比如表面未融合,未填满,咬边等.加州表示表面的外观可以这么认为.但裂纹应有返修报告记录.另外,可以这么认为,涉及到碳刨的工作需要记录返修报告.

ZPMC asked if ZPMC need record the weld repair for the defects which found by Visual inspection. For example, the defects like unfilled weld, insufficient fusion and undercut, etc. Caltrans agreed that there is no need for record for the weld profile defects. Except the cracks. On the other hand, it could be agreed that only the defects which need carbon gouge excavations need record on the weld repair report or critical weld repair.

2. ZPMC 询问打磨的程度,他们认为现在车间里大家要求都不一样,有些情况要求太过严格.加州回复说碳刨之后应将其打磨成圆弧,要打磨光滑,并不要求过亮.但由于坡口角度,碳刨方法不一样,光亮程度要求也不一样.ABF 建议做一些小的模板以确保打磨外形可接受,所有碳刨后氧化层都应去除且表现光滑.ZPMC 表示希望有明确答复,加州表明现场如有争议再找他们的上层一同商量.

ZPMC asked about the grinding finishing quality after gouging, they thought everyone has different ideas and requests. Also in some cases it is too strict. Caltrans responded that after gauging they should grind to smooth, it doesn't need shining. But to answer this question is case by case. Initially, all carbon deposits shall be removed And ABF suggested to make some small templates which can match the groove figuration for inspection. ZPMC still wants to be more clear on this issue. Caltrans replied that if ZPMC has the different understanding, please talk to Caltrans and confirm case by case.

3. ZPMC 询问无锡验板发运应准备些什么.加州答复在清单纸头应写上:发运到何地(可以写上无锡华光锅炉厂),何人,由 ZPMC 发出,

ZPMC inquired what they should prepare for the flange plates shipping to WuXi. Caltrans responded that it should be noted in the head of the list: deliver to where (Wuxi Huaguang Bolier), who and it was send from ZPMC. And also ZPMC should copy it and put it on file.

3. ZPMC 说现场的贴纸只是针对焊后检验,而过程中的检验,包括装配则可用记号笔在焊缝的附近标识.加州答复可以,只要确保这些标记是清晰可见,且容易找到的.

ZPMC explained that the identification sticker on site is only for the inspection after weld. And any in-process inspection is marked near the weld by mark pen. Caltrans agreed as long as these marks are clear and easily visible.

4. ZPMC 询问关键焊缝返修报告 001#的审批情况.加州拿出了修订版并希望知道更多有关其产生原因以及防止再次发生的矫正措施的等细化要求.ABF 表示会协同 ZPMC 一同来尽快完成此 CWR001#,并尽快提交加州再次审核.

ZPMC asked about status of CWR001 since ZPMC revised it as per Caltrans request. Caltrans rejected the revised CWR001# because they want to know more information about the cause and want ZPMC explain the prevention. It's so important for the same case in future. ABF will



会议纪要

第 1 页 共 1 页

MEMORANDUM

编号: Memo-012

help ZPMC to finish this CWR revised, and submit to Caltrans for approval soon.

6. ZPMC 询问第一批的钢板复试结果出来后应通知谁. Caltrans 答复会正式通过 ABF 通知 ZPMC. ZPMC hope to know the test result of the first batch of CHECK SAMPLE. Caltrans will let ZPMC know the testing result via ABF as soon as the test are finished.
7. ZPMC 将 9 月 13 日~9 月 15 日的生产安排计划复印给加州和 ABF.
ZPMC handed over the 3 days schedule (Sep. 13~15) to Caltrans and ABF.
8. ZPMC 通知明天焊工考试继续.
ZPMC informed that the welder qual. Test will be continued tomorrow.
—end—



会议签到单
MEETING ATTENDANCE

会议时间 13:30	会议地点 718室
MEETING TIME: 2007.09.12	SPOT: Room 718

姓名 NAME	职务 TITLE	邮件地址 MAIL ADDRESS
Jim Merrill	Sr. PRINCIPAL ENG	JKMERRILL@AOL.COM
ADY VELASCO	CT-SMR	
RYAN SMITH	CT-SMR	
Jason Tam	CT-Construction Manager	Jason_Tam@dot.ca.gov
ALISTAIR MELVILLE	CT-CONS.	alistair.melville@dot.ca.gov
PAUL Williams	ABF/JV Fab Mgr	
Robert Cuevas	CT TASK LEADER	
Danny McDonald	QA/ABF	DMcDonald@abfjv.com
Yang Xuehui	ZPMC	
Zhu Qindong	ZPMC/QC	Zhuqindong@zpmc.com
Hu Guang	ZPMC/QCA	Hu Guang @ zpmc.com
Art Peterson	QA/ABF	
STEVE LAWTON	QA/ABF	slawton@abfjv.com
JOHN KINSEY	Sr. CIVIL III	JKLAN@MINI.SP.RONG.COM
Lujianhua	QA/ZPMC	
Li Jun	ZPMC/QA	

梁段最终目检通知单

Final VT Request Sheet

报验单编号

(Sheet No): B-FVT-033

ABF签收人&时间

ABF receiver & time: 20th Nov. 09. 10:45

我们要求对如下构件进行报验。请在检验完成后尽快给予批准。

We make request for inspection of the below items. Your earliest acceptance after inspection will be appreciated.

检验地点 (Inspection place)	<i>Outside Yard (near the deck plate place)</i>
构件名称 (Name of Component)	<i>TCE</i>
构件图号 (Drawing No. of Component)	<i>SEG 038</i>
检验时间 (Time)	<i>2009. 11. 20.</i>
施工队 (Sub contractor name)	<i>Shi Jian Gang</i>

	Yes No		Yes No		Yes No
焊缝区域校火是否结束? Weld Area Heat Straightening Complete?	<input checked="" type="checkbox"/> <input type="checkbox"/>	返修是否结束? Repair complete?	<input checked="" type="checkbox"/> <input type="checkbox"/>	探伤是否结束? NDT complete?	<input checked="" type="checkbox"/> <input type="checkbox"/>

检验结论:
RESULT OF INSPECTION:

接受/ACCEPT 拒收及理由/Reject and Reasons

Li Yan Hua 07120701 09. 11. 20.
ZPMC CWI signature & date:

接受/ACCEPT 拒收及理由/Reject and Reasons

** Some outstanding works to be done at T.A. yard.
Please refer to outstanding list of dated 20th Nov. 2009*

(AT) (m.k. Li)
ABF Representative Signature & date:

接受/ACCEPT 拒收及理由/Reject and Reasons

Caltrans Representative Signature & date:

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000316

Subject: NCR No. ZPMC-0337

Dated: 30-Mar-2010

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000333 **Rev:** 03

Contractor's Proposed Resolution:

Reference Resolution: The base metals repairs documented in this NCR are general in nature and this specific segment has been accepted by all three parties and the final visual inspection has been performed.

The issue of the requirements for base metal repairs has been clarified by the Department, ABFJV and ZPMC. The base metals repairs documented in this NCR are general in nature and this specific segment has been accepted by all three parties and the final visual inspection has been performed. ZPMC is clear about the procedure for conducting base metal repairs and since this NCR was issued the number of base metal repair NCRs for not having Engineer approval has stopped. Based on this ZPMC requests closure of this NCR.

Submitted by: Ishibashi, Joshua

Attachment(s): ABF-NPR-000333R03;

Caltrans' comments:

Status: CLO

Date: 06-Apr-2010

This proposed resolution is acceptable. The Department concurs that Non-Conformance ZPMC-0337 is closed.

Submitted by: Eagen, Sean

Attachment(s):

Date: 06-Apr-2010



No. B-718

LETTER OF RESPONSE

TO: American Bridge/Flour

DATE: 2010-3-31

REGARDING: NCR-000363(ZPMC-0337)

ABF QCM has issued official letter to clarify the base metal repair procedure to ZPMC production department and ZPMC quality department. ZPMC QA department has released the internal note to production department on this issue. Please be notice Segment 7CE has been achieved with green tags and the FVT was accepted. For this case, all repairs in NCR have been finished before blasting. Based on this clarification and previously submitted responses, ZPMC requests that this NCR be closed.

ATTACHMENT:

NCR-000363(ZPMC-0337)

sq

3/31/10



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: 04-Aug-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: 05.03.06-000316

Subject: NCR No. ZPMC-0337

Reference Description: Unapproved Base Meatal Repair

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: 07

Remarks:

Caltrans Quality Assurance Inspector observed Unapproved Base Metal Repairs of multiple components in OBG Segment designated as 7CE. Repairs have been made at numerous locations (estimated to be in excess of one hundred) on multiple components such as Floor Beams, Deck Panels, Side Panels and Floor Panels.

See attached NCR No. ZPMC-0337 for details.

Action Required and/or Action Taken:

Propose a resolution for the identified non-conformance with revised procedures to prevent future occurrences. A response for the resolution of this issue is expected within 14 days.

Transmitted by: Ching Chao

Attachments: ZPMC-0337

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

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 **Report No:** NCR-000363
Prime Contractor: American Bridge/Fluor Enterprises, a JV **Date:** 06-Jul-2009
Submitting Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0337

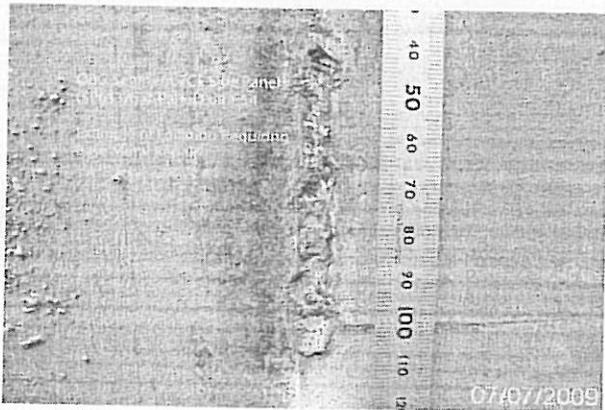
Type of problem:

- Welding Concrete Other
 Welding Curing Procedural **Bridge No:** 34-0006
 Joint fit-up Coating Other **Component:** 7CE
 Procedural Procedural Description:

Reference Description: Unapproved Base Metal Repair

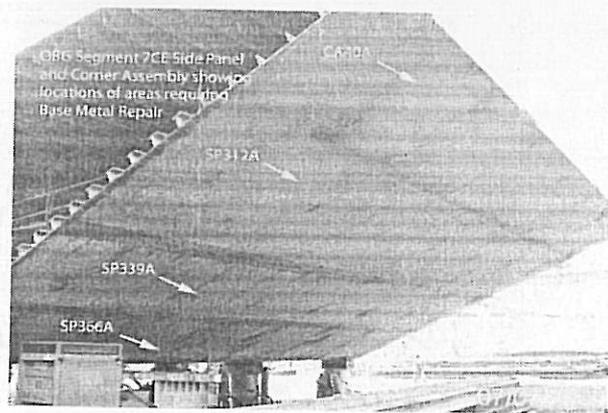
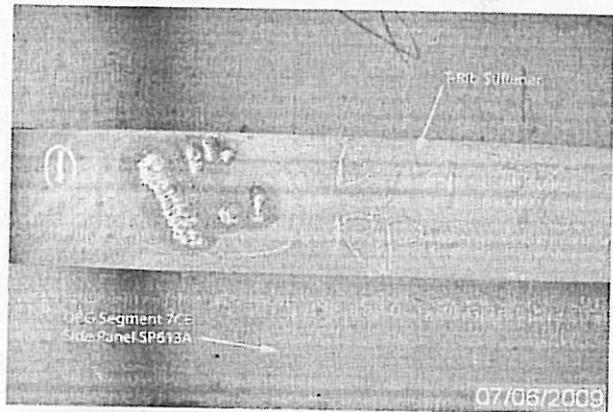
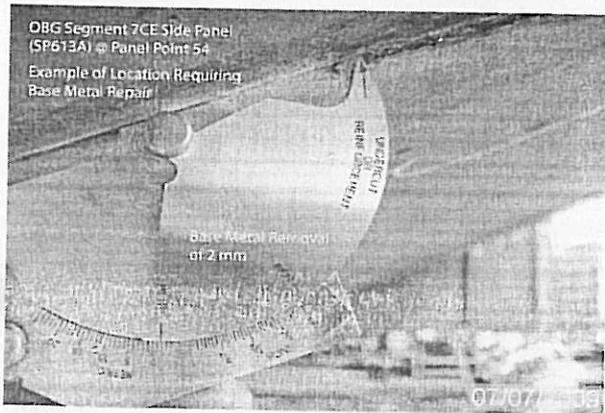
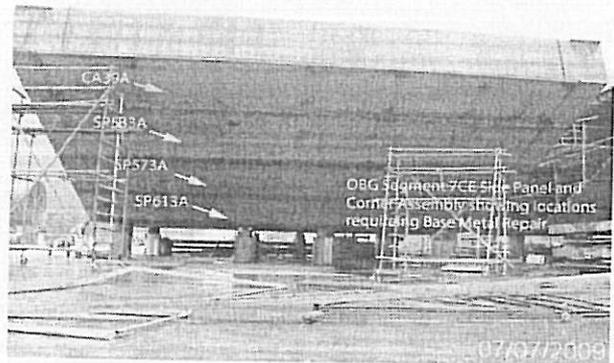
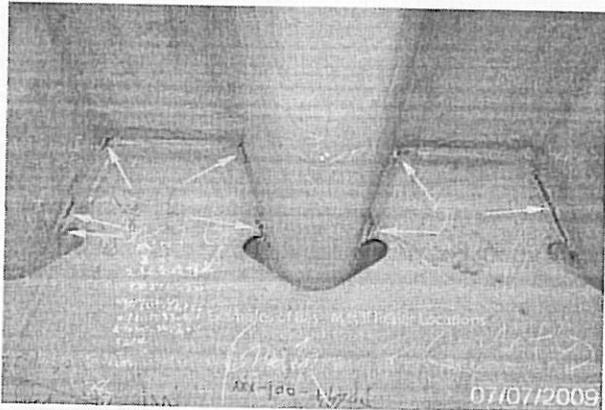
Description of Non-Conformance:

Caltrans Quality Assurance Inspector observed Unapproved Base Metal Repairs of multiple components in OBG Segment designated as 7CE. Repairs have been made at numerous locations (estimated to be in excess of one hundred) on multiple components such as Floor Beams, Deck Panels, Side Panels and Floor Panels.



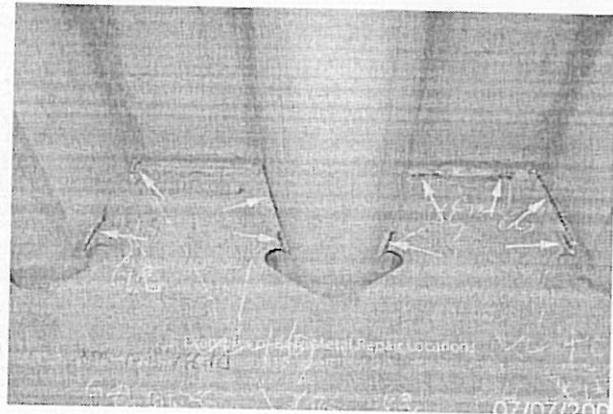
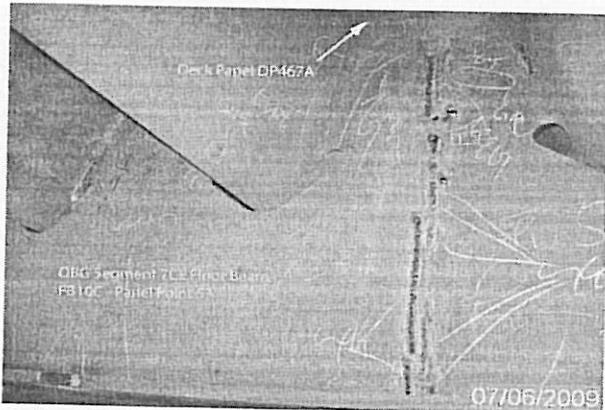
QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 3)



QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 3 of 3)



Applicable reference:

Contractor's Welding Quality Control Plan, Section 9.2.1.2: "Prior approval of the Engineer shall be obtained for repairs to base metal..."

AWS D1.5 / 2002 – Section 3.7.4 "Prior approval of the Engineer shall be obtained for repairs to base metal (other than those required by 3.2)..."

Who discovered the problem: Rory O'Kane

Name of individual from Contractor notified: Mr. CK Chan

Time and method of notification: 18:30 hours, Email

Name of Caltrans Engineer notified: Stanley Ku

Time and method of notification: 19:00 hours, Verbal

QC Inspector's Name: 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 Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural Materials for your project.

Inspected By: Simonis, Jim

QA Inspector

Reviewed By: Wahbeh, Mazen

SMR

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**Report No:** NCS-000618**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 13-Apr-2010**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0337**Type of problem:**

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

Date the Non-Conformance Report was written: 06-Jul-2009**Description of Non-Conformance:**

Caltrans Quality Assurance Inspector observed Unapproved Base Metal Repairs of multiple components in OBG Segment designated as 7CE. Repairs have been made at numerous locations (estimated to be in excess of one hundred) on multiple components such as Floor Beams, Deck Panels, Side Panels and Floor Panels.

Contractor's proposal to correct the problem:

Perform future base metal repairs in accordance with agreements made between the Contractor and the Department during discussions held in China.

Corrective action taken:

Agreements have been made between the Department and the Contractor to document base metal repairs for non SPCM material via the Contractor's internal WRR process. Base metal repairs to SPCM material will require approval of the Engineer via the CWR process.

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