

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-000590**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 04-Jan-2010**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0563**Type of problem:**

| | | | |
|---------------------|-------------------|---|-------------------------------|
| Welding | Concrete | Other | |
| Welding | Curing | Procedural | Bridge No: 34-0006 |
| Joint fit-up | Coating | Other | Component: North Tower |
| Procedural | Procedural | Description: North Tower, Lift 2, 65m Grating Brackets | |

Reference Description: Lapse in QC Inspection during welding**Description of Non-Conformance:**

During in-process Visual Testing (VT) of North Tower, Lift 2, 65m Grating Bracket welds, QA observed welding being performed with a lapse in Quality Control (QC) Inspection exceeding 30 minutes. Welder # 215620 was performing Flux Cored Arc Welding (FCAW) with no ZPMC QC present between 7:50 and 8:40.

Applicable reference:

Caltrans Special Provision Section 8-3.01 - "QC inspections shall be provided to ensure continuous inspection when any welding is being performed. Continuous inspection, as a minimum, shall include (1) having QC Inspectors continually present on the shop floor or project site when any welding operation is being performed, and (2) having a QC Inspector within such close proximity of all welders or operators so that inspections by the QC Inspector of each operation, at each welding location, shall not lapse for a period exceeding 30 minutes."

Who discovered the problem: Umesh Gaikwad**Name of individual from Contractor notified:** Steve Lawton**Time and method of notification:** 1/4/2010, 10:30; E-mail**Name of Caltrans Engineer notified:** Scott Kennedy**Time and method of notification:** 1/4/2010, 11:00; Verbal**QC Inspector's Name:** Zhu Feng**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 Serge Sinevod, 139-1686-1597, who represents the Office of Structural Materials for your project.

Inspected By: Sinevod, Serge

ASMR

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Reviewed By: Wahbeh,Mazen

SMR



DEPARTMENT OF TRANSPORTATION - District 4 Toll Bridge
 333 Burma Road
 Oakland CA 94607
 Tel: 510-808-4618 Fax:

NON-CONFORMANCE REPORT TRANSMITTAL

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

Date: 05-Jan-2010

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: 05.03.06-000557

Subject: NCR No. ZPMC-0563

Reference Description: Lapse in QC Inspection during welding/ North Tower Lift 2/ Grating Bracket

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: Tower **Lift:** 02

Remarks:

During in-process Visual Testing (VT) of North Tower, Lift 2, 65m Grating Bracket welds, QA observed welding being performed with a lapse in Quality Control (QC) Inspection exceeding 30 minutes. Welder # 215620 was performing Flux Cored Arc Welding (FCAW) with no ZPMC QC present between 7:50 and 8:40.

Caltrans Special Provision Section 8-3.01 - "QC inspections shall be provided to ensure continuous inspection when any welding is being performed. Continuous inspection, as a minimum, shall include (1) having QC Inspectors continually present on the shop floor or project site when any welding operation is being performed, and (2) having a QC Inspector within such close proximity of all welders or operators so that inspections by the QC Inspector of each operation, at each welding location, shall not lapse for a period exceeding 30 minutes."

Action Required and/or Action Taken:

Propose a resolution for the identified non-conformance. Provide documentation of the steps/ actions taken by the Quality Control Manager to prevent future occurrences.

The response for the resolution of this issue is requested within 7 days.

Transmitted by: Ken Lee Transportation Engineer

Attachments: ZPMC-0563

cc: Rick Morrow, Gary Pursell, Mark Woods, Scott Kennedy

File: 05.03.06

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000557

Subject: NCR No. ZPMC-0563

Dated: 09-Feb-2010

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000581 Rev: 00

Contractor's Proposed Resolution:

Reference Resolution: ZPMC is providing documentation of inspection to show that the welds are acceptable. Based on this ZPMC requests closure of this NCR.

ZPMC acknowledges the lapse in coverage and has discussed this with the work crews involved with this incident. ZPMC is providing documentation of inspection to show that the welds are acceptable. These pieces were later inspected by Caltrans during their QA verification and found to be acceptable. Based on this ZPMC requests closure of this NCR.

Submitted by: Ishibashi, Joshua

Attachment(s): ABF-NPR-000581R00;

Caltrans' comments:

Status: CLO

Date: 10-Feb-2010

The proposed resolution is acceptable. The Department concurs that Non-conformance ZPMC-0563 is closed.

Submitted by: Lee, Ken

Attachment(s):

Date: 10-Feb-2010



No. T-123

LETTER OF RESPONSE

TO: American Bridge/Flour JV

DATE: 2010-2-08

REGARDING: NCR-000590(ZPMC-0563)

ZPMC received NCR-000590(ZPMC-0563), it mentioned that QA observed ZPMC perform welding with a lapse in Quality Control Inspection exceeding 30 minutes.

ZPMC realized this problem and put forward ZPMC's internal NCR-T-082 as warning. Also we had already educated this work team to perform work according to the requirements of related criterion. And ZPMC also inculcated the foreman to enhance the management and control of welding and it must be checked by QC before and during welding. As a result, these welds were checked by ZPMC and finally green tagged by CT. Here attached the NDT report to show the weld is sound.

So ZPMC hope Caltrans could take a review and close this NCR.

ATTACHMENT:

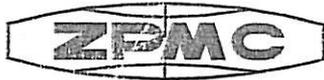
NCR-T-082

NCR-000590(ZPMC-0563)

T-787-MT-7980

Zhang Jindi

2010.2.08



Nonconformance Report

不符合项报告

Project Name: S.F.O.B.B
 项目名称: 美国加州海湾大桥
 NCR Number:
 NCR 编号: NCR-T-082(ZPMC-0563)

Item: Welding without QC present
 名称描述: 焊接没有通知 QC
 Item Number:
 件号: Lift 2 North Tower 65m Grating Brackets
 北二吊 65m 隔板处 隔栅支架
 Drawing: 图号:

Location: Bay 10
 位置: 10# 车间
 Date:
 日期: 2010-01-07

Description of Nonconformance:
 不符合项状态描述:

During in-process VT of North Tower Lift 2 65m Grating Bracket welds, QA observed welding being performed with a lapse in Quality Control Inspection exceeding 30 minutes. Welder # 215620 was performing FCAW with no ZPMC QC present between 7:50 and 8:40.

Special Provision Section 8-3.01: QC inspections shall be provided to ensure continuous inspection when any welding is being performed. Continuous inspection, as a minimum, shall include having QC inspectors continually present on the shop floor or project site when any welding operation is being performed, and having a QC inspector within such close proximity of all welders or operators so that inspections by the QC inspector of each operation, at each welding location, shall not lapse for a period exceeding 30 minutes.

加州检验员发现 ZPMC 焊工 # 215620 在对北塔第二吊装段 65m 隔板处隔栅支架进行焊接时, 没有通知现场 QC, 导致了 QC 不在场时间段为上午 7:50-8:40, 违反了标书规定。

根据标书 8-3.01 规定: 当进行任何焊接作业时, QC 检验员在必须在项目现场, 并且 QC 检验员在接近所有的焊工或操作员的进距离内, 使其检验每一作业、对每一焊接部位的检验间隔不超过 30 分钟。

Work By: 施工方: 于建辉队
 Prepared by: 准备: Zhang Jianhui 2010.1.7
 Reviewed by QCE: 质量工程师批准: Zhao Shuanghao
 Drawing Error 图纸错误
 Material Defect 材料缺陷
 Fabrication Error 制作错误
 Other 其他原因

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

Recommendation:
 建议:

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

Reason for Nonconformance: -

不符合原因:

该队在制作焊接过程中, 没有按照公司持有制作要项程序监督过程完成, 导致违反规定.

During welding process, the workteam didn't follow the contract and AWS requirements, this caused such situation.

Prevention of Re-occurrence: -

预防措施:

加强对施工队思想教育, 严格处罚违规人员, 杜绝类似事件发生.

Enhance the management of the workteam, and educate the fireman and related welder, avoid such situation happen again.

Approved by/批准: _____

Technical Justification for Use-As-Is/Repair: _____

回用或返修的技术依据:

Attachment

附件

Non-attachment

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: _____

liuyang

Reviewed by QCA/质检主任审核: _____

#R787-QCP-1300



DEPARTMENT OF TRANSPORTATION - District 4 Toll Bridge
333 Burma Road
Oakland CA 94607
Tel: 510-808-4618 Fax:

NON-CONFORMANCE REPORT TRANSMITTAL

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

Date: 05-Jan-2010

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: 05.03.06-000557

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Transmitted by: Ken Lee Transportation Engineer
Attachments: ZPMC-0563

cc: Rick Morrow, Gary Pursell, Mark Woods, Scott Kennedy
File: 05.03.06

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch

690 Walnut Ave.St. 150

Vallejo, CA 94592-1133

(707) 649-5453

(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.25B**QUALITY ASSURANCE -- NON-CONFORMANCE REPORT****Location:** Changxing Island, Shanghai, PRC**Report No:** NCR-000590**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 04-Jan-2010**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0563**Type of problem:**Welding Concrete Other Welding Curing Procedural **Bridge No:** 34-0006Joint fit-up Coating Other **Component:** North TowerProcedural Procedural **Description:** North Tower, Lift 2, 65m Grating Brackets**Reference Description:** Lapse in QC Inspection during welding**Description of Non-Conformance:**

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Inspected By: Sinevod,Serge

ASMR

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Reviewed By: Wahbeh, Mazen

SMR



REPORT OF MAGNETIC PARTICLE EXAMINATION

磁粉检测报告

REPORT NO. 报告编号 T787-MT-7980 DATE日期 2010.02.02 PAGE OF页码 2/3 Revision No: 0

| | | | |
|---|---|--|---|
| PROJECT NO. 工程编号: ZP06-787 | | CONTRACTOR: 用户: CALTRANS | |
| DRAWING NO. 图号: GGSA-43PLAN-65M/GGSA-41PLAN-65M GRATING BRACKET | | 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 , 2010 |
| EQUIPMENT 设备 MT YOKE | MANUFACTURER 制造商 PARKER | MODEL NO. 样式编号 B310S | SERIAL NO. 连续编号 5620 5395 5617 |
| 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/A709M-345T2-Z 10/60mm |
| WELDING PROCESS 焊接方法 | SMAW | TYPE OF JOINT 焊缝类型 | T-JOINT |

| 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 | | | |
| GGSA-43PLAN-65M-3-4-N | | | | | | * |
| GGSA-43PLAN-65M-3-5-N | | | | | | * |
| GGSA-43PLAN-65M-3-6-N | | | | | | * |
| GGSA-41PLAN-65M-1-1-N | | | | | | * |
| GGSA-41PLAN-65M-1-2-N | | | | | | * |
| GGSA-41PLAN-65M-1-3-N | | | | | | * |
| GGSA-41PLAN-65M-1-4-N | | | | | | * |
| GGSA-41PLAN-65M-1-5-N | | | | | | * |
| GGSA-41PLAN-65M-1-6-N | | | | | | * |
| GGSA-41PLAN-65M-2-1-N | | | | | | * |
| GGSA-41PLAN-65M-2-2-N | | | | | | * |
| GGSA-41PLAN-65M-2-3-N | | | | | | * |
| GGSA-41PLAN-65M-2-4-N | | | | | | * |
| GGSA-41PLAN-65M-2-5-N | | | | | | * |
| GGSA-41PLAN-65M-2-6-N | | | | | | * |

| | |
|---|--------------------------------------|
| EXAMINED BY 主探 Wang Wei <i>Wang Wei</i> | REVIEWED BY 审核 <i>Xu Hai</i> |
| LEVEL - II SIGN 签名 / DATE日期 <i>Wang Wei</i> | LEVEL-II SIGN / DATE日期 <i>Xu Hai</i> |
| 质量经理 / QCM | 用户 CUSTOMER |
| 签字 SIGN / 日期 DATE | 签字 SIGN / 日期 DATE |



REPORT OF MAGNETIC PARTICLE EXAMINATION

磁粉检测报告

REPORT NO. 报告编号 T787-MT-7980 DATE日期 2010.02.02 PAGE OF页码 3/3 Revision No: 0

PROJECT NO. 工程编号: ZP06-787 CONTRACTOR: 用户: CALTRANS

DRAWING NO. 图号: GGSA-43PLAN-65M/GGSA-41PLAN-65M CALTRANS CONTRACT NO.: 加州工程编号 04-0120F4
GRATING BRACKET

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. 28ST, 2010

EQUIPMENT 设备: MT YOKE MANUFACTURER 制造商: PARKER MODEL NO. 样式编号: B310S SERIAL NO. 连续编号: 5620 5395 5617

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: WELDING 焊接件 CASTING 铸件 FORGING 锻造 Material & thickness 母材,厚度: A709M-345T2/A709M-345T2-Z 10/60mm

WELDING PROCESS 焊接方法: SMAW TYPE OF JOINT 焊缝类型: T-JOINT

| 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 | | | |
| GGSA-41PLAN-65M-3-1-N | | | | ACC. | | 100%MT |
| GGSA-41PLAN-65M-3-2-N | | | | ACC. | | 100%MT |
| GGSA-41PLAN-65M-3-3-N | | | | ACC. | | 100%MT |
| GGSA-41PLAN-65M-3-4-N | | | | ACC. | | 100%MT |
| GGSA-41PLAN-65M-3-5-N | | | | ACC. | | 100%MT |
| GGSA-41PLAN-65M-3-6-N | | | | ACC. | | 100%MT |

* GGSA-41PLAN-65M-3-1-N, GGSA-41PLAN-65M-3-2-N, GGSA-41PLAN-65M-3-3-N, GGSA-41PLAN-65M-3-4-N, GGSA-41PLAN-65M-3-5-N, GGSA-41PLAN-65M-3-6-N were MT inspection and ACC, which is the result of required 10% MT.
* GGSA-41PLAN-65M-3-1-N, GGSA-41PLAN-65M-3-2-N, GGSA-41PLAN-65M-3-3-N, GGSA-41PLAN-65M-3-4-N, GGSA-41PLAN-65M-3-5-N, GGSA-41PLAN-65M-3-6-N 焊缝经MT检测合格, 累积检测长度已经达到了此批要求的10%检测长度。

BLANK

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EXAMINED BY 主探: Wang Wei REVIEWED BY 审核: Xu Hai SIGN 签名 / DATE日期: [Signature] LEVEL-II SIGN / DATE日期: [Signature] 质量经理 / QCM: _____ 用户CUSTOMER: _____ 签字 SIGN / 日期 DATE: _____ 签字 SIGN / 日期 DATE: _____



REPORT OF MAGNETIC PARTICLE EXAMINATION

磁粉检测报告

REPORT NO. 报告编号 T787-MT-7980 DATE日期 2010.02.02 PAGE OF页码 1/3 Revision No: 0

PROJECT NO. ZP06-787 CONTRACTOR: CALTRANS
 工程编号: 用户:

DRAWING NO. GGSA-43PLAN-65M/GGSA-41PLAN-65M CALTRANS CONTRACT NO.: 04-0120F4
 图号: GRATING BRACKET 加州工程编号

REFERENCING CODE ACCEPTANCE STANDARD PROCEDURE NO. CALIBRATION DUE DATE
 参考规范编码 接受标准 程序编号 仪器校正有效期
 AWS D1.5-2002 AWS D1.5-2002 ZPQC-MT-01 Dec. 28ST, 2010

EQUIPMENT 设备 MANUFACTURER 制造商 MODEL NO. 样式编号 SERIAL NO. 连续编号
 MT YOKE PARKER B310S 5620 5395 5617

MAGNETIZING METHOD Continuous magnetic yoke CURRENT AC
 磁化方法 磁轭式连续法 电流

PARTICLE TYPE Dry magnet powder YOKE SPACING 70~150mm
 磁粉类型 干磁粉 磁轭间距

MATERIAL TO BE EXAMINED √ WELDING 焊接件 Material & thickness A709M-345T2/A709M-345T2-Z
 检测材料 CASTING 铸件 母材, 厚度 10/60mm
 FORGING 锻造

WELDING PROCESS SMAW TYPE OF JOINT T-JOINT
 焊接方法 焊缝类型

| 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 | | | |
| GGSA-43PLAN-65M-1-1-N | | | | | | * |
| GGSA-43PLAN-65M-1-2-N | | | | | | * |
| GGSA-43PLAN-65M-1-3-N | | | | | | * |
| GGSA-43PLAN-65M-1-4-N | | | | | | * |
| GGSA-43PLAN-65M-1-5-N | | | | | | * |
| GGSA-43PLAN-65M-1-6-N | | | | | | * |
| GGSA-43PLAN-65M-2-1-N | | | | | | * |
| GGSA-43PLAN-65M-2-2-N | | | | | | * |
| GGSA-43PLAN-65M-2-3-N | | | | | | * |
| GGSA-43PLAN-65M-2-4-N | | | | | | * |
| GGSA-43PLAN-65M-2-5-N | | | | | | * |
| GGSA-43PLAN-65M-2-6-N | | | | | | * |
| GGSA-43PLAN-65M-3-1-N | | | | | | * |
| GGSA-43PLAN-65M-3-2-N | | | | | | * |
| GGSA-43PLAN-65M-3-3-N | | | | | | * |

EXAMINED BY 主探 Wang Wei REVIEWED BY 审核 Xu Hai
 LEVEL - II SIGN 签名 10.2.2 LEVEL-II SIGN / DATE日期 10.2.2
 质量经理 / QCM 用户CUSTOMER

签字 SIGN / 日期 DATE 签字 SIGN / 日期 DATE

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-000513**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 11-Feb-2010**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0563**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: 04-Jan-2010**Description of Non-Conformance:**

During in-process Visual Testing (VT) of North Tower, Lift 2, 65m Grating Bracket welds, QA observed welding being performed with a lapse in Quality Control (QC) Inspection exceeding 30 minutes. Welder # 215620 was performing Flux Cored Arc Welding (FCAW) with no ZPMC QC present between 7:50 and 8:40.

Contractor's proposal to correct the problem:

Provide NDT documentation to show that welds performed during the lapse in QC are acceptable.

Corrective action taken:

MT documentation showing the welds to be acceptable was provided (T787-MT-7980) and an internal ZPMC NCR (NCR-T-082) was issued.

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 Skyler Guest, 15000422360, who represents the Office of Structural Materials for your project.

Inspected By: Guest, Skyler

Quality Assurance Inspector

Reviewed By: Wahbeh, Mazen

QA Reviewer