

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-000227**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 13-Jan-2009**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0202**Type of problem:**

Welding	Concrete	Other	
Welding	Curing	Procedural	Bridge No: 34-0006
Joint fit-up	Coating	Other	Component: West Tower-Lift 1
Procedural	Procedural	Description: Tower Strut Connection Plate Component	

Reference Description: Preheating was not observed prior to air carbon arc gouging on SPCM component**Description of Non-Conformance:**

ABF/ZPMC did not perform proper preheat prior to air carbon arc gouging in accordance with AWS D1.5-2002 "Section 12-Fracture Control Plan" subsections (12.17) and (12.17.6.3). The affected member is a plate with two joints to be cut into WD1-A467-28m-4-9, WD1-A467-33m-3-9, WD1-A467-33m-4-10, WD1-A467-33m-4-9, and WD1-A467-23m-4-10 after completion of welding. The material is SPCM, heat number 07205956N, and has a thickness of 78 mm to 45 mm. Following the weld root pass, no preheating was observed by this QA Inspector prior to air carbon arc gouging.

Applicable reference:

1) AWS D1.5, 2002, Section 12.17, "Repair Welding":

"Repair welding shall be defined as any welding, including removal of weld or base metal in preparation for welding, necessary to correct unacceptable discontinuities in materials or workmanship."

2) AWS D1.5, 2002, Section 12.17.6.3 "Repair Procedure Minimum Provisions". "The preheating temperature prior to air carbon arc gouging shall be described in the WPS. Preheat for gouging shall not be less than 65°C [150°F]."

Who discovered the problem: Mike Blair**Name of individual from Contractor notified:** Don Walton**Time and method of notification:** 0800 hours, 1-13-09, Verbal**Name of Caltrans Engineer notified:** Doug Wright**Time and method of notification:** 0900 hours, 1-13-09, verbal**QC Inspector's Name:** Li Xiu Yang**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

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

concerning repairs or remedial efforts please contact Mazen Wahbeh,(818) 292-0659, who represents the Office of Structural Materials for your project.

Inspected By:	Sinevod,Serge	ASMR
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: 15-Jan-2009

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: 05.03.06-000195

Subject: NCR No. ZPMC-0202

Reference Description: Preheating was no observed prior to air carbon arc gouging on SPCM component

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:** 01

Remarks:

Caltrans Quality Assurance(QA)Inspector observed ZPMC personnel air carbon gousing without base metal preheat on Complete Joint Penetration (CJP) root pass on a stut flange plate that will be cut into WD1-A467-28m-4-9, WD1-A467-33m-3-9, WD1-A467-33m-4-10, WD1-A467-33m-4-9, and WD1-A467-23m-4-10. The applicable Welding Procedure Specification (WPS) requires a minimum base metal preheat temperature of 65° Celsius.

Action Required and/or Action Taken:

Propose a resolution for the identified non-conformance including documentation that the weld placed is in compliance with the contract requirements. In addition to the material/workmanship non-conformance, propose a resolution that addresses the apparent failure of Quality Control to identify the non-conformance with the Welding Procedure Specification (WPS). Provide documentation of the steps taken by the Quality Control Manager to prevent future occurrences.

Transmitted by: Ken Lee Transportation Engineer

Attachments: ZPMC-0202

cc: Rick Morrow, Gary Pursell, Mark Woods, Doug Coe

File: 05.03.06

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000195

Subject: NCR No. ZPMC-0202

Dated: 19-Feb-2009

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000199 Rev: 00

Contractor's Proposed Resolution:

Reference Resolution: Purposed response to NCR ZPMC-0202

ZPMC QA department has been notified of this NCR as there should be a ZPMC CWI in the area during repair to monitor items such as pre-heat, interpass temperature and weld parameters. ABFJV has also notified our line inspectors within the workshops to monitor the repair process paying special attention to SPCM materials.

Submitted by:

Attachment(s): ABF-NPR-000199R00

Caltrans' comments:

Status: AAP

Date: 20-Mar-2009

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

Please provide the Non-Destructive Testing (NDT) documentation of the welds in question. The Department will review the Contractor's proposal to close Non-Conformance ZPMC-0202 at that time.

Submitted by: Wright, Doug

Date: 20-Mar-2009

Attachment(s):

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000195

Subject: NCR No. ZPMC-0202

Dated: 14-Dec-2009

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000199 **Rev:** 01

Contractor's Proposed Resolution:

Reference Resolution: ZPMC is submitting NDT documentation showing the welds were acceptable more than 72 hours after welding was complete. Based on this ZPMC requests closure of this NCR.

Per Caltrans' comments to ABFJV's NPR. ZPMC is submitting NDT documentation showing the welds were acceptable more than 72 hours after welding was complete. Based on this ZPMC requests closure of this NCR.

Submitted by: Ishibashi, Joshua

Attachment(s): ABF-NPR-000199R01;

Caltrans' comments:

Status: CLO

Date: 16-Dec-2009

The proposed resolution is acceptable. The Department concurs that Non-conformance ZPMC-0202 is closed.

Submitted by: Lee, Ken

Attachment(s):

Date: 16-Dec-2009



No. T-099

LETTER OF RESPONSE

TO: American Bridge/Flour JV

DATE: 2009-12-14

REGARDING: NCR-000227 (ZPMC-0202)

ZPMC received NCR-000227 (ZPMC-0202), it mentioned that preheating was no observed prior to air carbon arc gouging on SPCM component.

The situation is like this we didn't preheat about the SPCM before air carbon arc gouging as the NCR said, but it is not the repair gouging but the back gouging. If the repair is for carbon arc gouging on the SPCM we must preheat. This is just the back gouging, so we ZPMC needn't to do the preheat work.

But we will put forward the NDT report to ensure the weld be acceptable. And ZPMC hope to close the NCR.

ATTACHMENT:

NCR-000227 (ZPMC-0202)

T787-UT-1172

T787-UT-1173

T787-UT-1180

T787-MT-2644

T787-MT-2642

T787-MT-2643

Zhao Jia ren
2009-12-14



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: 15-Jan-2009

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

Dear: Mr. Charles Kanapicki
Attention: Mr. Dave Williams Consultant
Subject: NCR No. ZPMC-0202

Job Name: SAS Superstructure
Document No: 05.03.06-000195

Reference Description: Preheating was no observed prior to air carbon arc gouging on SPCM component

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: 01

Remarks:

Caltrans Quality Assurance(QA)Inspector observed ZPMC personnel air carbon gousing without base metal preheat on Complete Joint Penetration (CJP) root pass on a stut flange plate that will be cut into WD1-A467-28m-4-9, WD1-A467-33m-3-9, WD1-A467-33m-4-10, WD1-A467-33m-4-9, and WD1-A467-23m-4-10. The applicable Welding Procedure Specification (WPS) requires a minimum base metal preheat temperature of 65° Celsius.

Action Required and/or Action Taken:

Propose a resolution for the identified non-conformance including documentation that the weld placed is in compliance with the contract requirements. In addition to the material/workmanship non-conformance, propose a resolution that addresses the apparent failure of Quality Control to identify the non-conformance with the Welding Procedure Specification (WPS). Provide documentation of the steps taken by the Quality Control Manager to prevent future occurrences.

Transmitted by: Ken Lee Transportation Engineer

Attachments: ZPMC-0202

cc: Rick Morrow, Gary Pursell, Mark Woods, Doug Coe

File: 05.03.06

02.02;15.04

05.03.06-000195,NCT

Received
 NCT-000195 15 Jan 09

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-000227

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 13-Jan-2009

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

NCR #: ZPMC-0202

Type of problem:

Welding Concrete Other

Welding Curing Procedural Bridge No: 34-0006

Joint fit-up Coating Other Component: West Tower-Lift 1

Procedural Procedural Description: Tower Strut Connection Plate Component

Reference Description: Preheating was not observed prior to air carbon arc gouging on SPCM component

Description of Non-Conformance:

ABF/ZPMC did not perform proper preheat prior to air carbon arc gouging in accordance with AWS D1.5-2002 "Section 12-Fracture Control Plan" subsections (12.17) and (12.17.6.3). The affected member is a plate with two joints to be cut into WD1-A467-28m-4-9, WD1-A467-33m-3-9, WD1-A467-33m-4-10, WD1-A467-33m-4-9, and WD1-A467-23m-4-10 after completion of welding. The material is SPCM, heat number 07205956N, and has a thickness of 78 mm to 45 mm. Following the weld root pass, no preheating was observed by this QA Inspector prior to air carbon arc gouging.

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Who discovered the problem: Mike Blair

Name of individual from Contractor notified: Don Walton

Time and method of notification: 0800 hours, 1-13-09, Verbal

Name of Caltrans Engineer notified: Doug Wright

Time and method of notification: 0900 hours, 1-13-09, verbal

QC Inspector's Name: Li Xiu Yang

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

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

concerning repairs or remedial efforts please contact Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural Materials for your project.

Inspected By:	Sinevod, Serge	ASMR
Reviewed By:	Wahbeh, Mazen	SMR



REPORT OF MAGNETIC PARTICLE EXAMINATION

磁粉检测报告

REPORT NO. 报告编号 T787-MT-2644 DATE日期 2009.02.14 PAGE OF页码 1/2 Revision No: 0

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

DRAWING NO. 图号: WD1-A467 THE 1ST LIFT TOWER(W) 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. 28ST, 2009

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 A709SL-GR345/A709SL-GR485 75/45 mm

WELDING PROCESS 焊接方法 SAW TYPE OF JOINT 焊缝类型 BUTT

WELD I.D. 焊缝编号 DISCONTINUITY 不连续性 ACCEPT 接受 REJECT 拒收 REMARKS 备注

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			
WD1-A467-33M-4-10A				ACC.		100%MT
WD1-A467-33M-4-23A				ACC.		100%MT
WD1-A467-38M-3-9A				ACC.		100%MT
WD1-A467-38M-3-24A				ACC.		100%MT
WD1-A467-38M-3-10A				ACC.		100%MT
WD1-A467-38M-3-23A				ACC.		100%MT
WD1-A467-38M-4-9A				ACC.		100%MT
WD1-A467-38M-4-24A				ACC.		100%MT
WD1-A467-38M-4-10A				ACC.		100%MT
WD1-A467-38M-4-23A				ACC.		100%MT
WD1-A467-33M-4-10B				ACC.		100%MT
WD1-A467-33M-4-23B				ACC.		100%MT
WD1-A467-38M-3-9B				ACC.		100%MT

EXAMINED BY 主探 *Xultai* REVIEWED BY 审核 *Wang Wei*

LEVEL II SIGN 签名 / DATE日期 *09.02.14* LEVEL II SIGN / DATE日期 *09.02.14*

质量经理 / QCM *Huhang* 2009.02.18 用户CUSTOMER

签字 SIGN / 日期 DATE 签字 SIGN / 日期 DATE



REPORT OF MAGNETIC PARTICLE INSPECTION

磁粉检测报告

REPORT NO. 报告编号 T787-MT-2644

DATE 日期 2009.02.14

PAGE OF 页码 2/2

Revision No: 0

PROJECT NO.

ZP06-787

CONTRACTOR:

CALTRANS

DRAWING NO.

WD1-A467

用户:

图号:

THE 1ST LIFT TOWER(W)

CALTRANS CONTRACT NO.:

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. 28ST, 2009

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

A709SL-GR345/A709SL-GR485

75/45 mm

WELDING PROCESS

焊接方法

SAW

TYPE OF JOINT

焊缝类型

BUTT

WELD I.D.

焊缝编号

DISCONTINUITY 不连续性

INDICATION

指示

TYPE

类型

LENGTH IN mm

长度

ACCEPT

接受

REJECT

拒收

REMARKS

备注

WD1-A467-38M-3-24B

WD1-A467-38M-3-10B

WD1-A467-38M-3-23B

WD1-A467-38M-4-9B

WD1-A467-38M-4-24B

WD1-A467-38M-4-10B

WD1-A467-38M-4-23B

ACC.

ACC.

ACC.

ACC.

ACC.

ACC.

ACC.

100%MT

100%MT

100%MT

100%MT

100%MT

100%MT

100%MT

AFTER HSR1(T) - 7085

BLANK

EXAMINED BY 主操

Xu Hai

LEVEL-II SIGN 签名 / DATE 日期

09.02.14

REVIEWED BY 审核

Wang Wei

LEVEL-II SIGN / DATE 日期

09.02.14

质量经理 / QCM

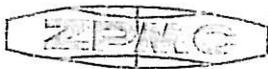
Hu Gang

2009.02.18

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-2642 DATE日期 2009.02.14 PAGE OF页码 1/2 Revision No: 0

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

DRAWING NO. 图号: WD1-A467 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. 28th, 2009

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 Material & thickness 母材, 厚度: A709SL-GR345/A709SL-GR485 75/45 mm

CASTING 铸件 FORGING 锻造

WELDING PROCESS 焊接方法: SAW TYPE OF JOINT 焊缝类型: BUTT

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			
WD1-A467-23M-3-10A				ACC.		100%MT
WD1-A467-23M-3-23A				ACC.		100%MT
WD1-A467-23M-4-9A				ACC.		100%MT
WD1-A467-23M-4-24A				ACC.		100%MT
WD1-A467-23M-4-10A				ACC.		100%MT
WD1-A467-23M-4-23A				ACC.		100%MT
WD1-A467-28M-3-9A				ACC.		100%MT
WD1-A467-28M-3-24A				ACC.		100%MT
WD1-A467-28M-3-10A				ACC.		100%MT
WD1-A467-28M-3-23A				ACC.		100%MT
WD1-A467-23M-3-10B				ACC.		100%MT
WD1-A467-23M-3-23B				ACC.		100%MT
WD1-A467-23M-4-9B				ACC.		100%MT

EXAMINED BY 主探: *Yutian*

REVIEWED BY 审核: *Wang Wei*

LEVEL-II SIGN 签名 / DATE日期: *of. 02.14*

LEVEL-II SIGN 签名 / DATE日期: *of. 02.14*

质量治理 / QCM: *Huabing 2009.02.18*

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-2642 DATE日期 2009.02.14 PAGE OF页码 2/2 Revision No: 0

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

DRAWING NO. 图号: WD1-A467 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. 28ST, 2009

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 Material & thickness 母材, 厚度: A709SL-GR345/A709SL-GR485 75/45 mm
 CASTING 铸件
 FORGING 锻造

WELDING PROCESS 焊接方法: SAW TYPE OF JOINT 焊缝类型: BUTT

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			
WD1-A467-23M-4-24B				ACC.		100%MT
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WD1-A467-28M-3-24B				ACC.		100%MT
WD1-A467-28M-3-10B				ACC.		100%MT
WD1-A467-28M-3-23B				ACC.		100%MT

AFTER HSR1(T) - 7085

BLANK

EXAMINED BY主探: Xu Hai REVIEWED BY 审核: Wang Wei

LEVEL-II SIGN 签名 / DATE日期: Xu Hai 09.02.14 LEVEL-II SIGN / DATE日期: Wang Wei 09.02.14

质量经理 / QCM: Huqiang 2009.02.18 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-2643		DATE 日期 2009.02.14	PAGE OF 页码 1/2	Revision No: 0
PROJECT NO. 工程编号: ZP06-787		CONTRACTOR: 用户: CALTRANS		
DRAWING NO. 图号: WD1-A467		CALTRANS CONTRACT NO.: 加州工程编号 04-0120F4		
REFERENCING CODE 参考规范编码		ACCEPTANCE STANDARD 接受标准	PROCEDURE NO. 程序编号	CALIBRATION DUE DATE 仪器校正有效期
AWS D1.5-2002		AWS D1.5-2002	ZPQC-MT-01	Dec. 28 ST , 2009
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	A709SL-GR345/A709SL-GR485 75/45 mm
WELDING PROCESS 焊接方法		SAW	TYPE OF JOINT 焊缝类型	BUTT

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			
WD1-A467-28M-4-9A				ACC.		100%MT
WD1-A467-28M-4-24A				ACC.		100%MT
WD1-A467-28M-4-10A				ACC.		100%MT
WD1-A467-28M-4-23A				ACC.		100%MT
WD1-A467-33M-3-9A				ACC.		100%MT
WD1-A467-33M-3-24A				ACC.		100%MT
WD1-A467-33M-3-10A				ACC.		100%MT
WD1-A467-33M-3-23A				ACC.		100%MT
WD1-A467-33M-4-9A				ACC.		100%MT
WD1-A467-33M-4-24A				ACC.		100%MT
WD1-A467-28M-4-9B				ACC.		100%MT
WD1-A467-28M-4-24B				ACC.		100%MT
WD1-A467-28M-4-10B				ACC.		100%MT

EXAMINED BY 主操 <i>Ju Hai</i>	REVIEWED BY 审核 <i>Wang Mei</i>
LEVEL-II SIGN 签名 / DATE 日期 <i>09.02.14</i>	LEVEL-II SIGN / DATE 日期 <i>09.02.14</i>
质量经理 / QCM <i>Huang</i> 2009.02.18	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-2643		DATE日期 2009.02.14	PAGE OF页码 2/2	Revision No: 0
PROJECT NO. 工程编号: ZP06-787		CONTRACTOR: 用户: CALTRANS		
DRAWING NO. 图号: WD1-A467 THE 1ST LIFT TOWER(W)		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 th , 2009	
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	A709SL-GR345/A709SL-GR485 75/45 mm	
WELDING PROCESS 焊接方法	SAW	TYPE OF JOINT 焊缝类型	BUTT	

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			
WD1-A467-28M-4-23B				ACC.		100%MT
WD1-A467-33M-3-9B				ACC.		100%MT
WD1-A467-33M-3-24B				ACC.		100%MT
WD1-A467-33M-3-10B				ACC.		100%MT
WD1-A467-33M-3-23B				ACC.		100%MT
WD1-A467-33M-4-9B				ACC.		100%MT
WD1-A467-33M-4-24B				ACC.		100%MT

AFTER HSR1(T) - 7085

BLANK

EXAMINED BY 主探 <i>Yu Hai</i>	REVIEWED BY 审核 <i>Wang Wei</i>
LEVEL-II SIGN 签名 / DATE日期 <i>09.02.14</i>	LEVEL-II SIGN / DATE日期 <i>09.02.14</i>
质量经理 / QCM <i>Huang</i> <i>2009.02.18</i>	用户 CUSTOMER
签字 SIGN / 日期 DATE	签字 SIGN / 日期 DATE

检测报告

REPORT NO. 报告编号 T767-UT-1172

DATE 2009.02.15

PAGE 1 OF 3

Revision No: 0

PROJECT NO.: 工程编号 ZP06-787

CONTRACTOR: CALTRANS

ITEMS NAME: FIRST LIFTING

DRAWING NO.: WD1-A467

CALTRANS CONTRACT NO.: 04-0120F4

部件名称 SKIN A

图号

加州工程编号

REFERENCING CODE 参考规范

ACCEPTANCE STANDARD 接受标准

PROCEDURE NO. 程序编号

AWS D1.5-2002

AWS D1.5-2002(Table 6.3)

ZPQC-UT-01

WELDING PROCESS 焊接方法

JOINT TYPE 焊缝类型

CALIBRATION DUE DATE 仪器校正有效期

SAW

BUTT

DEC. 28ST, 2009

EQUIPMENT 设备

MANUFACTURER 制造商

MODEL NO. 样式编号

SERIAL NO. 序列编号

UT SCOPE

PANAMETRICS

EPOCH-4B

071565311,061488510,

061495811, 070152011,

CALIBRATION BLOCK 试块

COUPLANT 耦合剂

MATERIAL/THICKNESS 材料厚度

WS IIW BLOCK TYPE II

C.M.C

A709SL-GR485/GR345

75/45mm

TRANSDUCER 探头

MANUFACTURER 制造商	ANGLE 角度	FREQUENCY 频率	SIZE 尺寸	MANUFACTURER 制造商	ANGLE 角度	FREQUENCY 频率	SIZE 尺寸
Changchao	70 °	2.5 MHz	18*18 mm	Changchao	60 °	2.5 MHz	18*18 mm
Changchao	0 °	2.5 MHz	20 mm	Changchao	45 °	2.5 MHz	18*18 mm

Reference Level 参考灵敏度

20dB

Base metal inspected per AWS D1.5-2002 Section 6.19.5

0 ° UT OK.

WELD IDENTIFICATION 焊缝部件编号	INDICATION NO. 指示号	PROBE ANGLE 探测角度	FROM FACE 检测面	LEG (次数)	DECIBELS 分贝				DISCONTINUITY 不连续性					Discontinuity Evaluation 缺陷估计	Remark 备注	
					Indication Level	Reference Level	Attenuation Factor	Indication Rating	LOCATION OF DISCONTINUITY							
									不连续位置(mm)							
a	b	c	d	Length 长度	Sound Path 声程	Depth from Surface 距表面深度	From X 距X	From Y 距Y								
VD1-A467-28M-4-9A/B		70				33									ACC.	100%
		60				33									ACC.	100%
		45				33									ACC.	100%
WD1-A467-28M-4-24A/B		70				33									ACC.	100%
		60				33									ACC.	100%
		45				33									ACC.	100%

EXAMINED BY 主探

Huang Jing

LEVEL - II SIGN 1

DATE 09.2.15

REVIEWED BY 审核:

Tammy Xi f shaw 59.2.15

LEVEL - II SIGN 1

DATE

质量经理 / QCM

Huqiang

2009.02.19

用户CUSTOMER

签字 SIGN / 日期 DATE

签字 SIGN / 日期 DATE

超声波报告

REPORT NO. 报告编号 T767-UT-4172

DATE 2009.02.15

PAGE 2 OF 3

Revision No: 0

WELD IDENTIFICATION 焊缝编号	INDICATION NO. 指示号	PROBE ANGLE 探测角度	FROM FACE 检测面	LEG (次数)	DECIBELS 分贝				DISCONTINUITY 不连续性					Discontinuity Evaluation 缺陷估计	Remark 备注
					Indication Level	Reference Level	Attenuation Factor	Indication Rating	LOCATION OF DISCONTINUITY						
									不连续位置(mm)						
a	b	c	d	Length 长度	Sound Path 声程	Depth from Surface 距表面深度	From X 距X	From Y 距Y							
WD1-A467-28M-4-10A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-28M-4-23A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-33M-3-9A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-33M-3-24A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-33M-3-10A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-33M-3-23A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-33M-4-9A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%

<p>EXAMINED BY 主探 <u>Huang Jihua</u></p> <p>LEVEL - II SIGN / DATE 09.2.15</p> <p>质量工程师 / QCM <u>Huang</u> 2009.02.15</p> <p>签字 SIGN / 日期 DATE</p>	<p>REVIEWED BY 审核: <u>Tang Xingshen 09.2.15</u></p> <p>LEVEL - II SIGN / DATE 11</p> <p>用户 CUSTOMER</p> <p>签字 SIGN / 日期 DATE</p>
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REPORT OF ULTRASONIC EXAMINATION

UT探伤报告

REPORT NO. 报告编号 T787-UT-1173

DATE 2009.02.14

PAGE 1 OF 3

Revision No: 0

PROJECT NO.: 工程编号 ZP06-787

CONTRACTOR: CALTRANS

ITEMS NAME: FIRST LIFTING

DRAWING NO.: WD1-A467

CALTRANS CONTRACT NO.: 04-0120F4

部件名称 SKIN A

图号

加州工程编号

REFERENCING CODE 参考规范

ACCEPTANCE STANDARD 接受标准

PROCEDURE NO. 程序编号

AWS D1.5-2002

AWS D1.5-2002(Table 6.3)

ZPQC-UT-01

WELDING PROCESS 焊接方法

JOINT TYPE 焊缝类型

CALIBRATION DUE DATE 仪器校正有效期

SAW

BUTT

DEC. 28ST, 2009

EQUIPMENT 设备

MANUFACTURER 制造商

MODEL NO. 样式编号

SERIAL NO. 序列编号

UT SCOPE

PANAMETRICS

EPOCH-4B

071565311,061488510,

061495811, 070152011,

CALIBRATION BLOCK 试块

COUPLANT 耦合剂

MATERIAL/THICKNESS 材料厚度

AWS IIW BLOCK TYPE II

C.M.C

A709SL-GR485/GR345

75/45mm

TRANSDUCER 探头

MANUFACTURER 制造商	ANGLE 角度	FREQUENCY 频率	SIZE 尺寸	MANUFACTURER 制造商	ANGLE 角度	FREQUENCY 频率	SIZE 尺寸
Changchao	70 °	2.5 MHz	18*18 mm	Changchao	60 °	2.5 MHz	18*18 mm
Changchao	0 °	2.5 MHz	20 mm	Changchao	45 °	2.5 MHz	18*18 mm

Reference Level 参考灵敏度

20dB

Base metal inspected per AWS D1.5-2002 Section 6.19.5

0 ° UT OK.

WELD IDENTIFICATION 焊缝部件编号	INDICATION NO. 指示号	PROBE ANGLE 探测角度	FROM FACE 检测面	LEG (次数)	DECIBELS 分贝				DISCONTINUITY 不连续性					Discontinuity Evaluation 缺陷估计	Remark 备注	
					Indication Level	Reference Level	Attenuation Factor	Indication Rating	LOCATION OF DISCONTINUITY							
									不连续位置(mm)							
a	b	c	d	Length 长度	Sound Path 声程	Depth from Surface 距表面深度	From 'X' 距X	From 'Y' 距Y								
WD1-A467-23M-3-10A/B		70				33									ACC.	100%
		60				33									ACC.	100%
		45				33									ACC.	100%
WD1-A467-23M-3-23A/B		70				33									ACC.	100%
		60				33									ACC.	100%
		45				33									ACC.	100%

EXAMINED BY 主探

REVIEWED BY 审核:

Huang Jing

Zshulgin

LEVEL - II SIGN / DATE 09.2.14

LEVEL - II SIGN / DATE 09.2.14

质量经理 / QCM

用户 CUSTOMER

Huang Jing

2009.02.18

签字 SIGN / 日期 DATE

签字 SIGN / 日期 DATE



REPORT OF ULTRASONIC EXAMINATION

UT探伤报告

REPORT NO. 报告编号 T787-UT-1173

DATE 2009.02.14

PAGE 2 OF 3

Revision No: 0

WELD IDENTIFICATION 焊缝部件编号	INDICATION NO. 指示号	PROBE ANGLE 探测角度	FROM FACE 检测面	LEG (次数)	DECIBELS 分贝				DISCONTINUITY 不连续性					Discontinuity Evaluation 缺陷估计	Remark 备注
					Indication Level a	Reference Level b	Attenuation Factor c	Indication Rating d	LOCATION OF DISCONTINUITY 不连续位置(mm)						
									Length 长度	Sound Path 声程	Depth from Surface 距表面深度	From X 距X	From Y 距Y		
WD1-A467-23M-4-9A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-23M-4-24A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-23M-4-10A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-23M-4-23A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-28M-3-9A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-28M-3-24A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-28M-3-10A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%

EXAMINED BY 主探

Huang Jintao

LEVEL-II SIGN /

DATE 09.2.14

质量经理 / QCM

Huang

2009.02.18

REVIEWED BY 审核:

Zhuoqin

LEVEL-II SIGN /

DATE

09.2.14

客户 CUSTOMER

签字 SIGNATURE DATE

签字 SIGNATURE DATE



REPORT OF ULTRASONIC EXAMINATION

UT探伤报告

REPORT NO. 报告编号 T787-UT-1173

DATE 2009.02.14

PAGE 3 OF 3

Revision No: 0

WELD IDENTIFICATION 焊缝部件编号	INDICATION NO. 指示号	PROBE ANGLE 探测角度	FROM FACE 检测面	LEG (次数)	DECIBELS分贝				DISCONTINUITY 不连续性					Discontinuity Evaluation 缺陷估计	Remark 备注
					Indication Level	Reference Level	Attenuation Factor	Indication Rating	LOCATION OF DISCONTINUITY						
									不连续位置(mm)						
a	b	c	d	Length 长度	Sound Path 声程	Depth from Surface 距表面深度	From X 距X	From Y 距Y							
WD1-A467-2BM-3-23A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%

AFTER HSR1(T)-7128

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EXAMINED BY 主探

Huang Jinq

LEVEL-II SIGN 1 DATE 09.02.14

质量经理 / QCM

Huang

2009.02.18

签字 SIGN / 日期 DATE

REVIEWED BY 审核:

Zshunqin

LEVEL-II SIGN 1 DATE 09.02.14

用户 CUSTOMER

签字 SIGN / 日期 DATE



REPORT OF ULTRASONIC EXAMINATION

UT探伤报告

REPORT NO. 报告编号 T787-UT-1180

DATE 2009.02.14

PAGE 1 OF 3

Revision No: 0

PROJECT NO.: 工程编号 ZP06-787

CONTRACTOR: CALTRANS

ITEMS NAME: FIRST LIFTING

DRAWING NO.: WD1-A467

CALTRANS CONTRACT NO.: 04-0120F4

部件名称 SKIN A

图号

加州工程编号

REFERENCING CODE 参考规范

ACCEPTANCE STANDARD 接受标准

PROCEDURE NO. 程序编号

AWS D1.5-2002

AWS D1.5-2002(Table 6.3)

ZPQC-UT-01

WELDING PROCESS 焊接方法

JOINT TYPE 焊缝类型

CALIBRATION DUE DATE 仪器校正有效期

SAW

BUTT

DEC. 28ST, 2009

EQUIPMENT 设备

MANUFACTURER 制造商

MODEL NO. 样式编号

SERIAL NO. 序列编号

UT SCOPE

PANAMETRICS

EPOCH-4B

071565311,061488510,

061495811, 070152011,

CALIBRATION BLOCK 试块

COUPLANT 耦合剂

MATERIAL/THICKNESS 材料厚度

AWS IIW BLOCK TYPE II

C.M.C

A709SL-GR485/GR345

75/45mm

TRANSDUCER 探头

MANUFACTURER 制造商	ANGLE 角度	FREQUENCY 频率	SIZE 尺寸	MANUFACTURER 制造商	ANGLE 角度	FREQUENCY 频率	SIZE 尺寸
Changchao	70 °	2.5 MHz	18*18 mm	Changchao	60 °	2.5 MHz	18*18 mm
Changchao	0 °	2.5 MHz	20 mm	Changchao	45 °	2.5 MHz	18*18 mm

Reference Level 参考灵敏度

20dB

Base metal inspected per AWS D1.5-2002 Section 6.19.5

0 ° UT OK.

WELD IDENTIFICATION 焊缝部件编号	INDICATION NO. 指示号	PROBE ANGLE 探测角度	FROM FACE 检测面	LEG (次数)	DECIBELS 分贝				DISCONTINUITY 不连续性					Discontinuity Evaluation 缺陷估计	Remark 备注
					Indication Level	Reference Level	Attenuation Factor	Indication Rating	LOCATION OF DISCONTINUITY						
									不连续位置(mm)						
a	b	c	d	Length 长度	Sound Path 声程	Depth from Surface 距表面深度	From X 距X	From Y 距Y							
WD1-A467-33M-4-10A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-33M-4-23A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%

EXAMINED BY 主探

Huang Jing

REVIEWED BY 审核:

Zhang Lin

LEVEL - II SIGN / DATE 09.02.14

LEVEL - II SIGN / DATE 09.02.14

质量经理 / QCM

Huang

2009.02.18

用户CUSTOMER

签字 SIGN / 日期 DATE

签字 SIGN / 日期 DATE



REPORT OF ULTRASONIC EXAMINATION

UT探伤报告

REPORT NO. 报告编号 T787-UT-1180

DATE 2009.02.14

PAGE 2 OF 3

Revision No: 0

WELD IDENTIFICATION 焊缝部件编号	INDICATION NO. 指示号	PROBE ANGLE 探测角度	FROM FACE 检测面	LEG (次数)	DECIBELS分贝				DISCONTINUITY 不连续性					Discontinuity Evaluation 缺陷估计	Remark 备注
					Indication Level a	Reference Level b	Attenuation Factor c	Indication Rating d	LOCATION OF DISCONTINUITY 不连续位置(mm)						
									Length 长度	Sound Path 声程	Depth from Surface 距表面深度	From'X 距X	From'Y 距Y		
WD1-A467-38M-3-9A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-38M-3-24A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-38M-3-10A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-38M-3-23A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-38M-4-9A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-38M-4-24A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%
WD1-A467-38M-4-10A/B		70				33								ACC.	100%
		60				33								ACC.	100%
		45				33								ACC.	100%

EXAMINED BY 主探

Huang Jinyi

LEVEL-II SIGN 1

DATE 09.02.14

REVIEWED BY 审核:

Zshulgin

LEVEL-II SIGN 1

DATE 09.02.14

质量经理 / QCN

Huhang

2009.02.18

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-000241**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 05-Aug-2009**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0202**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: 13-Jan-2009**Description of Non-Conformance:**

During in-process visual inspection, QA observed that ZPMC did not perform proper preheat prior to air carbon arc gouging in accordance with AWS D1.5-2002 "Section 12-Fracture Control Plan" subsections (12.17) and (12.17.6.3). The affected member is a strut flange plate with two joints to be cut into WD1-A467-28m-4-9, WD1-A467-33m-3-9, WD1-A467-33m-4-10, WD1-A467-33m-4-9, and WD1-A467-23m-4-10 after completion of welding.

Contractor's proposal to correct the problem:

Verify with NDT that the affected welds are sound.

Corrective action taken:

NDT results indicating sound welds have been submitted. The affected strut flange plate welds have since been green tagged.

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 Serge Sinevod, 134-8257-0045, who represents the Office of Structural Materials for your project.

Inspected By: Sinevod, Serge

Quality Assurance Inspector

Reviewed By: Wahbeh, Mazen

QA Reviewer