

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

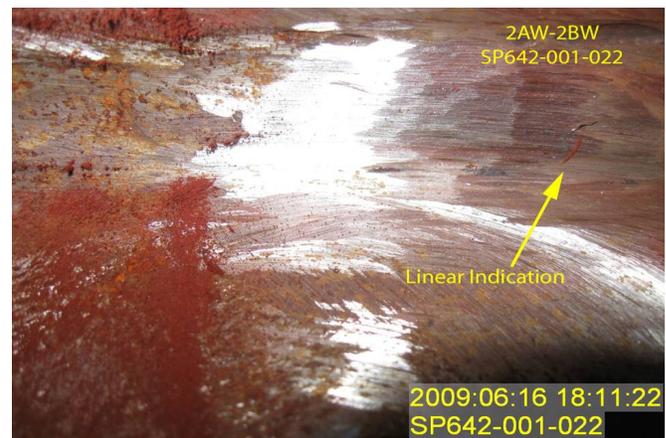
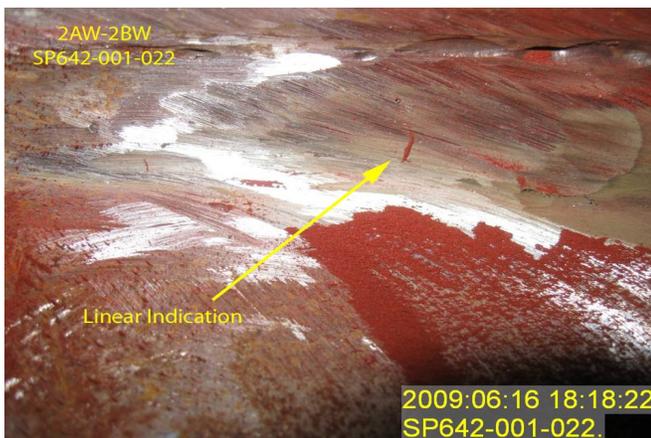
Quality Assurance and Source Inspection



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, P.R. China**Report No:** NCR-000324**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 16-Jun-2009**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0298**Type of problem:****Welding****Concrete****Other****Welding****Curing****Procedural****Bridge No:** 34-0006**Joint fit-up****Coating****Other****Component:** OBG Segment Splice 2AW/2BW**Procedural****Procedural****Description:****Reference Description:** Missed MT Indication by QC, Weld SP642-001-022, 2AW/2BW Segment Splice**Description of Non-Conformance:**

During random verification magnetic particle testing (MT) of weld SP642-001-022 (segment splice 2AW/2BW), Caltrans Quality Assurance (QA) Inspector discovered one linear indication measuring 10mm in length. This weld was previously MT tested and accepted by ZPMC Quality Control (QC) technicians (notification to perform QA Inspection for this weld was given to Caltrans on June 16, 2009).

**Applicable reference:**

Special Provisions Section 8.3 – “Quality Control (QC) shall be the responsibility of the Contractor. As a minimum, the Contractor shall perform inspection and testing of each weld joint prior to welding, during welding, and after welding as specified in this section and to ensure that materials and workmanship conform to the requirements of the contract documents.”

AWS D1.5 (02) Section 6.26.2 – “Welds that are subject to MT in addition to visual inspection shall have no cracks.”

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Who discovered the problem: M.Manikandan
Name of individual from Contractor notified: Peter Ferguson
Time and method of notification: 18:30, 06-16-09, Verbal
Name of Caltrans Engineer notified: Stanley Ku
Time and method of notification: 13:30, 06-19-09, 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 Skyler Guest, (86) 1500-042-2360, who represents the Office of Structural Materials for your project.

Inspected By:	Guest,Skyler	SMR
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: 22-Jun-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: 05.03.06-000288

Subject: NCR No. ZPMC-0298

Reference Description: Missed MT Indication by QC, Weld SP642-001-022, 2AW/2BW Segment Splice

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:** 02

Remarks:

During random verification magnetic particle testing (MT) of weld SP642-001-022 (segment splice 2AW/2BW), Caltrans Quality Assurance (QA) Inspector discovered one linear indication measuring 10mm in length. This weld was previously MT tested and accepted by ZPMC Quality Control (QC) technicians (notification to perform QA Inspection for this weld was given to Caltrans on June 16, 2009).

See attached NCR No. ZPMC-298 for details.

Action Required and/or Action Taken:

Propose a resolution for the identified recurring non-conformance which constitutes a systematic problem on both materials/workmanship and quality control issues to remedy the defected work and 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-0298

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

File: 05.03.06

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000288

Subject: NCR No. ZPMC-0298

Dated: 05-Aug-2009

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000280 **Rev:** 00

Contractor's Proposed Resolution:

Reference Resolution: ZPMC has responded to this NCR and has attached documents as evidence of completion. ZPMC requests closure of this NCR.

ZPMC has responded to this NCR and has attached documents as evidence of completion. ZPMC requests closure of this NCR.

Submitted by:

Attachment(s): ABF-NPR-000280R00;

Caltrans' comments:

Status: CLO

Date: 18-Aug-2009

The proposed resolution is acceptable. The welding inspectors have received additional training, and tests have been administered to ZPMC MT technicians to demonstrate their ability to detect MT indications. Also, the weld in question has been accepted by VT and MT as shown in the attached documents. The Department concurs that Non-Conformance ZPMC-0298 is closed.

Submitted by: Wright, Doug

Date: 18-Aug-2009

Attachment(s):



No. B-430

LETTER OF RESPONSE

TO: American Bridge/Flour

DATE: 2009-8-3

REGARDING: NCR-000324 (ZPMC-0298)

With this letter of response, ZPMC requests closure for Caltrans NCR-000324 (ZPMC-0298). We agree what describe in the non-conformance report, and instructed the QC guy to enhance the responsibility and reduce the working speed, by the way we have prepared the CWR for engineer approval prior the corresponding weld repair, As the comments of the approved documentation we have performed the weld repair and complete the with the NDT inspection.

so base on the above explanation and attached documentation . ZPMC applies to close the caltrans's report NCR-000324 (ZPMC-0298).

Please reference attached documentation for acceptance and closure the NCR-000324 (ZPMC-0298).

ATTACHMENT:

NCR-000324 (ZPMC-0298)

ZPMC internal NCR

The approved CWR

The final MT reports

Wu Shuangbao

2009.8.3



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-B-206
 NCR 编号: (NCR-000324)

Item: Missed MT indication by QC
 名称描述: MT 漏检

Item Number: N/A
 件号: N/A

Drawing: 2AW/2BW
 图号: 2AW/2BW

Location: OBG Trial Assembly Yard
 位置: OBG 总拼外场

Date: 2009-07-01
 日期: 2009-07-01

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

During random verification magnetic particle testing of weld SP642-001-022(segment splice 2AW/2BW), Caltrans Quality Assurance inspector discovered one linear indication measuring 10mm in length. This weld was previously MT tested and accepted by ZPMC Quality Control technicians (notification to perform QA inspection for this weld was given to Caltrans on June 16,2009).

加州在对 SP642-001-022 (2AW+2BW 预留焊缝) 进行 MT 检测时, 发现 10mm 长的缺陷。这条焊缝之前已被 ZPMCCQC 接受。

Work By: Li Lin Prepared by: Wang Reviewed by QCE: Zhao Shuangbo
 施工方: 2009.08.01 准备: 2009.07.01 质量工程师批准: 2009.7.1

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: MT重新确认, 出具报告及分析. Conform by use of mt and issue repair report.

Prepared by: Li Lin Approved by QCA: _____
 准备: 2009.08.01 质量经理批准

Reason for Nonconformance:
 不符合原因: 线性缺陷漏检. Discover linear indication

预防措施: 加强责任心, 放慢速度. Enhance responsibility and reduce speed.

Approved by/批准: Li Lin 2009.08.01

Technical Justification for Use-As-Is/Repair: Attachment Non-attachment
 回用或返修的技术依据:

附件 无附件

Reviewed /批准: _____

Verification: Acceptable Unacceptable
 确认: 可接受 不可接受

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

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

NON-CONFORMANCE REPORT TRANSMITTAL

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

Date: 22-Jun-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: 05.03.06-000288

Subject: NCR No. ZPMC-0298

Reference Description: Missed MT Indication by QC, Weld SP642-001-022, 2AW/2BW Segment Splice

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Material Location: OBG

Lift: 02

Remarks:

During random verification magnetic particle testing (MT) of weld SP642-001-022 (segment splice 2AW/2BW), Caltrans Quality Assurance (QA) Inspector discovered one linear indication measuring 10mm in length. This weld was previously MT tested and accepted by ZPMC Quality Control (QC) technicians (notification to perform QA Inspection for this weld was given to Caltrans on June 16, 2009).

See attached NCR No. ZPMC-298 for details.

Action Required and/or Action Taken:

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Transmitted by: Ching Chao

Attachments: ZPMC-0298

cc: Rick Morrow, Gary Pursell, Peter Siegenthaler, Stanley Ku, Brian Boal, Doug Coe, Jason Tom, Contract Files, Ching Chao
File: 05.03.06

02.02.15.04
05.03.06-000288,NCT

Received
NCR-000288 23 Jun 09 Page 1 of 1

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
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.25B

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

Location: Changxing Island, Shanghai, P.R. China

Report No: NCR-000324

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 16-Jun-2009

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

NCR #: ZPMC-0298

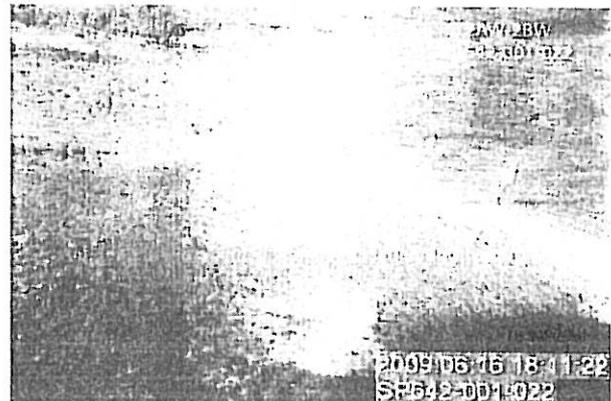
Type of problem:

Welding Concrete Other Welding Curing Procedural Bridge No: 34-0006Joint fit-up Coating Other Component: OBG Segment Splice 2AW/2BWProcedural Procedural Description:

Reference Description: Missed MT Indication by QC, Weld SP642-001-022, 2AW/2BW Segment Splice

Description of Non-Conformance:

During random verification magnetic particle testing (MT) of weld SP642-001-022 (segment splice 2AW/2BW), Caltrans Quality Assurance (QA) Inspector discovered one linear indication measuring 10mm in length. This weld was previously MT tested and accepted by ZPMC Quality Control (QC) technicians (notification to perform QA Inspection for this weld was given to Caltrans on June 16, 2009).



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QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Who discovered the problem: M.Manikandan
Name of individual from Contractor notified: Peter Ferguson
Time and method of notification: 18:30, 06-16-09, Verbal
Name of Caltrans Engineer notified: Stanley Ku
Time and method of notification: 13:30, 06-19-09, 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 Skyler Guest, (86) 1500-042-2360, who represents the Office of Structural Materials for your project.

Inspected By:	Guest, Skyler	SMR
Reviewed By:	Wahbeh, Mazen	SMR

产生原因:

Cause:

1. 火焰加热时, 水汽没有完全的去除或者这个区域预热不够;
1. Moisture wasn't completely removed during drying operation (preheating) or the area wasn't preheated sufficiently.

车间负责人 (Foreman):

Gao Jun

日期 (Date):

09.07.14

处理意见

Disposition:

1. 工程师通知到现场;
 2. 这次返修时, QC和Leader CWI到现场指导打磨, 焊接和监控的指导工作;
 3. 整个返修的过程, QC和Leader CWI应该有批准CWR的复印件;
 4. QC和Leader CWI指导返修, 以保证返修按照处理意见进行;
 5. 采用打磨的方式去除裂纹;
 6. 准备一个正确的接头型式, 具体参照相应的返修WPS;
 7. 返修前, VT和MT检测确认返修区域没有裂纹以及没有裂纹延伸到母材上;
 8. MT检测之前去除热影响区域上不小于25mm范围内的油漆;
 9. 根据批准的返修焊接工艺规程进行预热及焊接;
 10. 预热温度应不小于100°C;
 11. 预热范围在修补区域周围不应小于150mm;
 12. 将修补区域打磨与母材或相邻焊缝平齐;
 13. 按照图纸要求进行NDT检测并参照合同10-1.59“钢结构”中的“检测和试验”注释3进行附加NDT检测。
1. The Engineer shall be notified and present during this repair.
 2. QC and a Lead CWI shall be present and direct all grinding and welding operations during this repair.
 3. QC and a Lead CWI shall have an approved copy of the CWR in hand prior to the repair.
 4. QC and a Lead CWI shall direct the repair to ensure the repair is per the disposition requirements.
 5. Remove the crack by means of grinding.
 6. Prepare excavation according to the approved repair WPS.
 7. Before this repair, Verify with VT and MT to the repair areas to ensure no crack exist and no crack propagation to base metal.
 8. Remove paint ≥ 25 mm of HAZ prior to MT;
 9. Preheat and weld according to the approved repair WPS.
 10. Preheat prior to welding to a minimum temperature of 100°C.
 11. The preheat area shall be a minimum of 150mm in all directions around the repair area.
 12. Grind the repaired area flush with base metal or the adjacent weld.
 13. Perform NDT inspection according to the working drawing and perform additional NDT in accordance with Section 10-1.59 "Steel Structure", subsection "Inspection & Testing", note 3.

工艺:

Technical Engineer: *M. Tiefel*

审核:

Approved By:

C. Jambona
for Chenbin

日期:

Date:

09.07.14

This document is APPROVED
State of California
DEPARTMENT OF TRANSPORTATION
Pursuant to Section 5-1.02 of the
Standard Specifications for
Initial *CA* Date *11/15/11*

#R787-QCP-900



关键焊缝返修报告

Critical Welding Repair Report (CWR)

版本
Rev. No.:

2

项目名称 Project Name:	美国海湾大桥 SFOBB	部件图号 Drawing No.:	SP642A	报告编号 Report No.:	B-CWR593
合同号 Contract No.:	D4-0120F4	部件名称 Item Name:	2AW PLATE PANEL SPLICE	NDT 报告编号 NDT Report No.:	B787-MT-11910
项目编号 Project No.:	ZP06-787				

纠正措施:

Corrective Action to Prevent Re-occurrence:

1. 返修前, QC确认有效的预热, 以将水汽全部去除。

1. QC shall verify sufficient preheat has been applied, to remove moisture, prior to welding.

车间负责人 (Foreman): Gas Jun

日期 (Date): 09.07.14

参照的WPS编号 Repair WPS No.:	WPS-SMAW-345-1G (1F)-Repair WPS-FCAW-345-1G (1F)-Repair-1 WPS-SMAW-345-2G (2F)-Repair WPS-FCAW-345-2G (2F)-Repair-1	工艺员 Technologist:	Min Tiejaf 09.07.14
返修 (碳刨) 前预热温度 Preheat Temperature Before Gouging:	115℃	返修的缺陷 Description of Discontinuity:	裂纹
焊前处理检查 Inspection Before Welding:	Acc	焊前预热温度 Preheat Temperature Before Welding:	173℃
最大碳刨深度 Max. Depth of Gouge:	3mm	碳刨总长 Total Length of Gouge:	110mm
焊工 Welder:	069917	焊接类型 Welding Type:	SMAW
焊接电流 Current:	167A	焊接电压 Voltage:	22V
		焊接位置 Position:	2F
		焊接速度 Speed:	105mm
返修后检查 Inspection After Repair:			
外观检查 VT Result:	Acc	检验员 Inspector:	Wuzhi cheng 08021751 日期 Date: 09.07.17
NDT复检 NDT Result:	Acc	探伤员 NDT Person:	JinJianting 日期 Date: 09.07.17
见证: Witness/Review:			
备注: Remark:			

This document is APPROVED
State of California
DEPARTMENT OF TRANSPORTATION
Pursuant to Section 2-1.02 of the
Standard Specifications
Initial *SR* Date: 7/15/14

#R787-QCP-900



REPORT OF MAGNETIC PARTICLE EXAMINATION

磁粉检测报告

REPORT NO. 报告编号 B787-MT-12315 DATE日期 2009.07.17 PAGE OF页码 1/1 Revision No: 0

PROJECT NO. 工程编号: ZP06-787		CONTRACTOR: 用户: CALTRANS	
DRAWING NO. 图号: OBW2 2AW I-RIB		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 , 2009
EQUIPMENT 设备 MT YOKE	MANUFACTURER 制造商 PARKER	MODEL NO. 样式编号 B310S	SERIAL NO. 连续编号 5395 5617 5620
MAGNETIZING METHOD 磁化方法	Continuous magnetic yoke 磁轭式连续法	CURRENT 电流	AC
PARTICLE TYPE 磁粉类型	Dry magnet powder 干磁粉	YOKE SPACING 磁轭间距	70~150mm
MATERIAL TO BE EXAMINED 检测材料	<input checked="" type="checkbox"/> WELDING 焊接件 <input type="checkbox"/> CASTING 铸件 <input type="checkbox"/> FORGING 锻造	Material & thickness 母材, 厚度	A709M-345 22/18mm
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			
SP643-001-012				ACC.		AFTER GOUGING
SP642-001-022				ACC.		AFTER GOUGING
BLANK						

EXAMINED BY主探 Jin Jianting (Jin Jianting) 9.27.11	REVIEWED BY 审核 Sunpu (Sunpu) 9.27.11
LEVEL - II SIGN 签名 / DATE日期 质量经理 / QCM	LEVEL-II SIGN / DATE日期 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 B787-MT-11910R1 DATE日期 2009.07.17 PAGE OF页码 1/1 Revision No: 0

PROJECT NO. 工程编号: ZP06-787		CONTRACTOR: 用户: CALTRANS	
DRAWING NO. 图号: SP642a OBG 2AW PLATE PANEL SPLICE		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 , 2009
EQUIPMENT 设备 MT YOKE	MANUFACTURER 制造商 PARKER	MODEL NO. 样式编号 B310S	SERIAL NO. 连续编号 5395 5617 5620
MAGNETIZING METHOD 磁化方法	Continuous magnetic yoke 磁轭式连续法	CURRENT 电流	AC
PARTICLE TYPE 磁粉类型	Dry magnet powder 干磁粉	YOKE SPACING 磁轭间距	70~150mm
MATERIAL TO BE EXAMINED 检测材料	<input checked="" type="checkbox"/> WELDING 焊接件 <input type="checkbox"/> CASTING 铸件 <input type="checkbox"/> FORGING 锻造	Material & thickness 母材, 厚度	A709M-345T2 18/22/25 mm
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			
SP642A-001-022	1R1			ACC.		additional 10% MT In both side of the repair areas

AFTER B-CWR593

BLANK

EXAMINED BY 主探 Jin jian ting <i>Jin jian ting</i> LEVEL - II SIGN 签名 / DATE 日期 09.07.11 质量经理 / QCM	REVIEWED BY 审核 <i>Sun feng (hang)</i> LEVEL - II SIGN / DATE 日期 09.07.11 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, P.R. China**Report No:** NCS-000351**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:****Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0298**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: 16-Jun-2009**Description of Non-Conformance:**

During random verification magnetic particle testing (MT) of weld SP642-001-022 (segment splice 2AW/2BW), Caltrans Quality Assurance (QA) Inspector discovered one linear indication measuring 10mm in length. This weld was previously MT tested and accepted by ZPMC Quality Control (QC) technicians (notification to perform QA Inspection for this weld was given to Caltrans on June 16, 2009).

Contractor's proposal to correct the problem:

Perform repair to weld in question and submit required NDT verifying repair is in conformance with Contract requirements.

Corrective action taken:

ZPMC has completed repairs on the weld in question and provided the required NDT reports verifying that the repairs were made in conformance with the Contract requirements.

Did corrective action require Engineer's approval? Yes No**If so, name of Engineer providing approval:****Date:****Is Engineer's approval attached?** Yes No**Comments:**

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Jim Simonis, who represents the Office of Structural Materials for your project.

Inspected By: Simonis, Jim

Quality Assurance Inspector

Reviewed By: Wahbeh, Mazen

QA Reviewer