

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-000371

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 29-Jun-2009

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

NCR #: ZPMC-0345

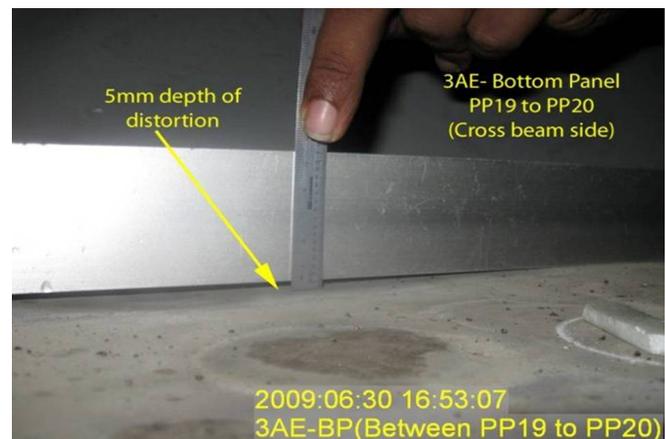
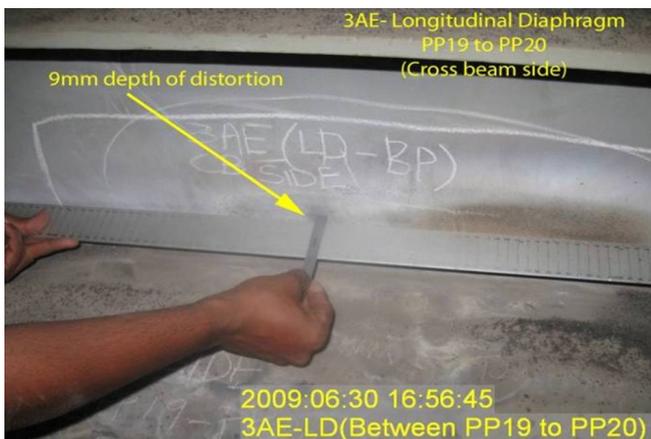
Type of problem:

Welding	Concrete	Other	
Welding	Curing	Procedural	Bridge No: 34-0006
Joint fit-up	Coating	Other	Component: OBG 3AW
Procedural	Procedural	Description:	

Reference Description: Longitudinal Diaphragm & Deck Plate

Description of Non-Conformance:

During in process visual inspection of the OBG Trial Assembly of Segment 3AE, Caltrans Quality Assurance (QA) Inspector discovered isolated distortion damage at Longitudinal Diaphragm and Bottom Plate between Panel Point 19 and 20 (Cross Beam Side). The distortion damage appears as a viable bulge in the Diaphragm and Bottom Plate at a location where an external support was positioned. The bulge appears to be related to heat straightening repairs. The heat straightening was performed without submitting a Heat Straightening Request to the Engineer. See the below photos for further information.



Applicable reference:

AWS D1.5 2002, Section 3.7.3: "Members distorted by welding shall be straightened by mechanical means or by carefully supervised application of a limited amount of localized heat as approved by the Engineer."

Who discovered the problem: Joe Alaniz

Name of individual from Contractor notified: Zhang Xiao Bui

Time and method of notification: 1550 / verbal

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Name of Caltrans Engineer notified: Ching Chao

Time and method of notification: 1630 / 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
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Reviewed By:	Wahbeh,Mazen	SMR
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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: 05.03.06-000324

Subject: NCR No. ZPMC-0345

Reference Description: Longitudinal Diaphragm & Deck Plate

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:** 03

Remarks:

During in process visual inspection of the OBG Trial Assembly of Segment 3AE, Caltrans Quality Assurance (QA) Inspector discovered isolated distortion damage at Longitudinal Diaphragm and Bottom Plate between Panel Point 19 and 20 (Cross Beam Side). The distortion damage appears as a viable bulge in the Diaphragm and Bottom Plate at a location where an external support was positioned. The bulge appears to be related to heat straightening repairs. The heat straightening was performed without submitting a Heat Straightening Request to the Engineer. See attached NCR No. ZPMC-0345 for details.

Action Required and/or Action Taken:

Propose a resolution for the identified non-conformance with revised procedures to remedy defect work, address QC issue and prevent future occurrences.

Transmitted by: Ching Chao

Attachments: ZPMC-0345

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: 05.03.06-000324

Subject: NCR No. ZPMC-0345

Dated: 17-Aug-2009

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000300 Rev: 00

Contractor's Proposed Resolution:

Reference Resolution: ZPMC has provided the necessary documents for closure of this NCR. Please note that the remedial is verified closed out on the Punch list.

ZPMC has provided the necessary documents for closure of this NCR. Please note that the remedial is verified closed out on the Punch list.

Submitted by:

Attachment(s): ABF-NPR-000300R00;

Caltrans' comments:

Status: CLO

Date: 20-Aug-2009

The proposed resolution is acceptable. The welds in question have been accepted by VT and MT as shown in the attached documents. The Department concurs that Non-Conformance ZPMC-0345 is closed.

Submitted by: Wright, Doug

Date: 20-Aug-2009

Attachment(s):



No. B-449

LETTER OF RESPONSE

TO: American Bridge/Flour

DATE: 2009-8-15

REGARDING: NCR-000371 (ZPMC-345)

With this letter of response, ZPMC requests closure for Caltrans **NCR-000371 (ZPMC-345)**. We agree what are submitted the FCN for the engineer approval that change one part of the LD in the middle to replace the distorted position, and also perform the round CJP weld per the WPS and drawing require, right now we provide the documentation to prove that the repair have been conducted and the weld were acceptable by NDT and visual inspection, by the way remind here that the corresponding item in the punchlist have been closed out by caltrans and ABF.

so base on the above explanation and attached documentations, ZPMC applies to close the caltrans's report **NCR-000371 (ZPMC-345)**.

Please reference attached document for acceptance and closure the **NCR-000371 (ZPMC-345)**.

ATTACHMENT:

NCR-000371 (ZPMC-345)

The splice round weld VT/NDT report of the LD

The side plate and bottom plate VT/NDT reports after repairing

Thao Strongbow

2009. 8. 15

ZPMC		探伤申请表 APPLICATION FORM FOR NDT			产品名称 NAME OF PRODUCT 美国海湾大桥		
零部件图号 Drawing No	OBE3	探伤类别 Test type	100%UT	编号 No	ZP06-787		
零部件名称 Items	3AE	材料 Material	A709M-345	数量 Quantit			
序号 No.	探伤编号 NDT No.	焊缝类型 Weld type	板厚/直径 thickness/diameter	焊工姓名 Welder name	焊工编号 Welder No.	结论 Result	备注 remark
1	LD019-001-013	对接	14*14*350		220066	✓	
2	LD019-001-014	对接	14*14*1100		220066	✓	
3	LD019-001-015	对接	14*14*350		220066	✓	
4							
5							
6							
7							
8							
9							

探伤位置图 Scheme showing the test part				备注:			
<p>3AE 碳刨后 PP19</p> <p>PP20</p>				<input type="checkbox"/> 焊后 <input type="checkbox"/> 校火后 <input checked="" type="checkbox"/> WR/CWR 碳刨后 WR/CWR NO: <u>WR8866</u> <input type="checkbox"/> WR/CWR 返修后 WR/CWR NO: _____ <input type="checkbox"/> SPCM <input type="checkbox"/> 其它 车间: <u>外场拼装场地</u> 焊接方法: <u>SMAW</u>			
申请人 Applicant	潘文龙 郑喜芝	日期 Date	09.8.11	主探者 Inspected by	孙宝	日期 Date	09.8.11



周数	93
日期	2009.08.11

Visual Weld Inspection Report

焊缝目视检查报告

Girder/梁:
Tower/塔:

OBG Plate Panel Splice

Caltrans Contract No. 04-0120F4
加州合同编号

Quality Control Representative:
质检代表:

Project No.: San Francisco Oakland Bay Bridge
项目名称 美国海湾大桥

CWI:
检验员:

Project No.: ZP06-787
项目编号:

Quality Assurance Manager ~ Approval
质量控制经理:

Gu Yong Jian 7/20/09

Project No.: 项目编号:	Welder I.D.# 焊工识别号	Location 位置	Welding consumables 焊接材料	Undercut 咬边	Porosity 气孔	Over lap 焊瘤	Crater 弧坑	Arc strike 电弧擦伤	Spatters 飞溅	Crack 裂纹	Accept or Reject 接受或拒收	Repair 返修	Accept or Reject after repair 修后接受或拒
LD019-001-013	220066	3G	supercore71H(Φ1.4)	√	√	√	√	√	√	√	ACC	NA	NA
LD019-001-014	220066	2G	supercore71H(Φ1.4)	√	√	√	√	√	√	√	ACC	NA	NA
LD019-001-015	220066	3G	supercore71H(Φ1.4)	√	√	√	√	√	√	√	ACC	NA	NA
<input type="checkbox"/> After root weld <input checked="" type="checkbox"/> After CWR or WRR No.: <i>Weld 8/15</i> <input type="checkbox"/> After cover pass <input type="checkbox"/> After HSR No.: <input type="checkbox"/> Others													

#R787-QCP-603

"√" is no defects. "X" is defects. "NA" is not applicable.



REPORT OF ULTRASONIC EXAMINATION

UT探伤报告

REPORT NO. 报告编号 B787-UT-8154 DATE 2009.08.11 PAGE 1 OF 1 Revision No: 0

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

ITEMS NAME: 3AE PLATE PANEL DRAWING NO.: OBE3 CALTRANS CONTRACT NO.: 04-0120F4
 部件名称 SPLICE 图号 加州工程编号

REFERENCING CODE 参考规范 AWS D1.5-2002 ACCEPTANCE STANDARD 接受标准 AWS D1.5-2002(Table 6.3) PROCEDURE NO. 程序编号 ZPQC-UT-01

WELDING PROCESS 焊接方法 SMAW JOINT TYPE 焊缝类型 BUTT CALIBRATION DUE DATE 仪器校正有效期 Dec. 28ST, 2009

EQUIPMENT 设备 MANUFACTURER 制造商 PANAMETRICS MODEL NO. 样式编号 EPOCH-4B SERIAL NO. 序列编号 071565311, 061488510, 061495811, 070152011

CALIBRATION BLOCK 试块 AWS IIV BLOCK TYPE II COUPLANT 耦合剂 C.M.C MATERIAL/THICKNESS 材料厚度 A709M-345 14mm

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°	2.5MHz	18×18mm				
Changchao	0°	2.5MHz	20mm	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
LD019-001-013		70					32								ACC.	100%
LD019-001-014		70					32								ACC.	100%
LD019-001-015		70					32								ACC.	100%

AFTER B-WR6866

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EXAMINED BY 主探 Sun yin LEVEL - II SIGN / DATE 9.08.11 质量经理 / QCM 签字 SIGN / 日期 DATE	REVIEWED BY 审核 Zouhuimin LEVEL - II SIGN / DATE 9.08.11 用户 CUSTOMER 签字 SIGN / 日期 DATE
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ZPMC		探伤申请表 APPLICATION FORM FOR NDT				产品名称 NAME OF PRODUCT 美国海湾大桥	
零部件图号 Drawing No	OBE3	探伤类别 Test type	100%MT	编号 No	ZP06-787		
零部件名称 Items	3AE	材料 Material	A709M-345	数量 Quantit			
序号 No.	探伤编号 NDT No.	焊缝类型 Weld type	板厚/直径 thickness/diameter	焊工姓名 Welder name	焊工编号 Welder No.	结论 Result	备注 remark
1	LD019-001-013	对接	14*14*350*2		220066	✓	
2	LD019-001-014	对接	14*14*1100*2		220066	✓	
3	LD019-001-015	对接	14*14*350*2		220066	✓	
4							
5							
6							
7							
8							
9							
探伤位置图 Scheme showing the test part					备注:		
<p>3AE 联字梁刚 PP19</p> <p>PP20</p>					<input type="checkbox"/> 焊后 <input type="checkbox"/> 校火后 <input checked="" type="checkbox"/> WR/CWR 碳刨后 WR/CWR NO: <u>WR6866</u> <input type="checkbox"/> WR/CWR 返修后 WR/CWR NO: _____ <input type="checkbox"/> SPCM <input type="checkbox"/> 其它 车间: <u>外场拼装场地</u> 焊接方法: <u>SMAW</u>		
申请人 Applicant	潘文龙 郑喜芝	日期 Date	09.8.11	主探者 Inspected by	3827	日期 Date	09.8.11



Visual Weld Inspection Report
焊缝目视检查报告

Caltrans Contract No.
加州合同编号

04-0120F4

Project No.:
项目名称

San Francisco Oakland Bay Bridge
美国海湾大桥

Project No.:
项目编号

ZP06-787

Project No.:
项目编号

ZP06-787

Weld No.
焊缝编号

Welder I.D.#
焊工识别号

Location
位置

Welding consumables
焊接材料

Undercut
咬边

Porosity
气孔

Over lap
焊瘤

Crater
弧坑

Arc strike
电弧擦伤

Spatters
飞溅

Crack
裂纹

Accept or Reject
接受或拒收

Repair
返修

Accept or Reject after repair
修后接受或拒

LD019-001-013

220066

3G

supercore71H(Φ1.4)

√

√

√

√

√

√

√

ACC

NA

NA

LD019-001-014

220066

2G

supercore71H(Φ1.4)

√

√

√

√

√

√

√

ACC

NA

NA

LD019-001-015

220066

3G

supercore71H(Φ1.4)

√

√

√

√

√

√

√

ACC

NA

NA

After root weld

After cover pass

After CWR or WRR No.: **PAR6866**

After HSR No.:

Others

#R787-QCP-603

周数 93

日期 2009.08.11

Girder/ 梁: **OBG PlatePanelSplice**

Tower/ 塔:

Quality Control Representative:
质检代表:

CWI:
检验员:

Yu Tony Jim 07/2007

Quality Assurance Manager -Approval
质量控制经理:

Quality Assurance

"√" is no defects. "X" is defects. "NA" is not applicable.



REPORT OF MAGNETIC PARTICLE EXAMINATION

磁粉检测报告

REPORT NO. 报告编号 B787-MT-12934		DATE日期 2009.08.11		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: OBE3 OBG 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 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 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 20/14mm			
WELDING PROCESS 焊接方法			SMAW		TYPE OF JOINT 焊缝类型			BUTT/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						
SEG014B-020				ACC.		after excavation			
SEG014B-021				ACC.		after excavation			
LD019-001-013				ACC.		after excavation			
LD019-001-014				ACC.		after excavation			
LD019-001-015				ACC.		after excavation			
BLANK									
EXAMINED BY主探 Sun Gongchang <i>Sun Gongchang</i>				REVIEWED BY 审核 <i>Su Wei</i>					
LEVEL - II SIGN 签名 / DATE日期 <i>08.11</i>				LEVEL-II SIGN / DATE日期 <i>08.11</i>					
质量经理 / QCM				用户CUSTOMER					
签字 SIGN / 日期 DATE				签字 SIGN / 日期 DATE					



探伤申请表

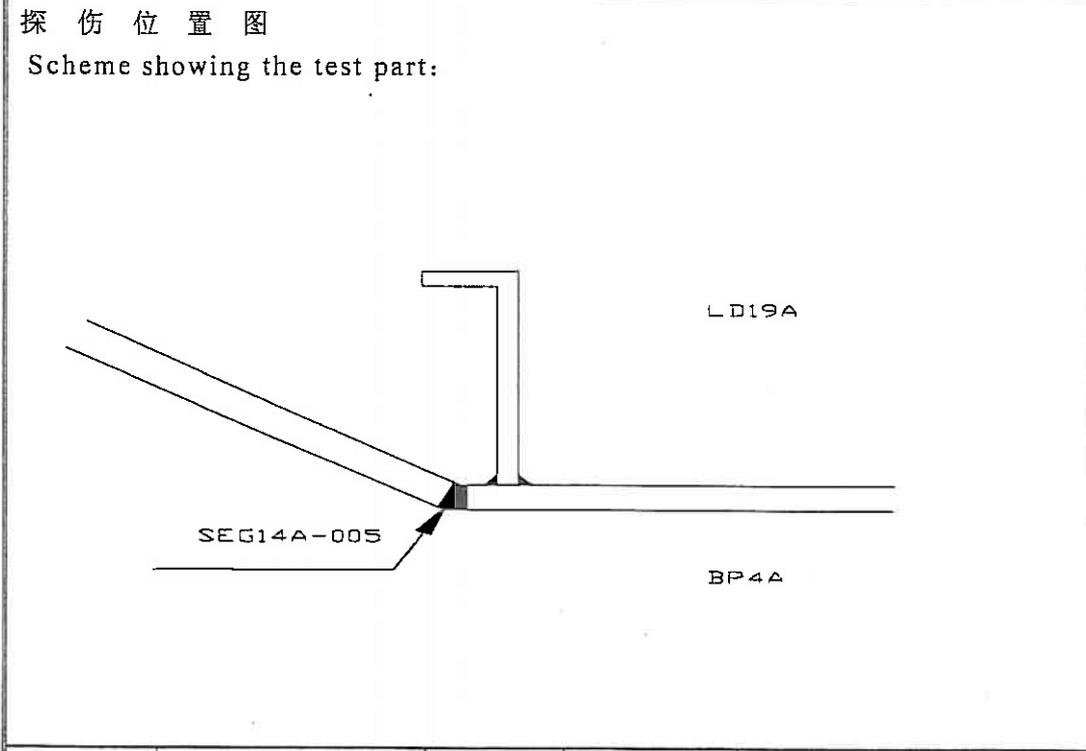
APPLICATION FORM FOR NDL

产品名称
NAME OF PRODUCT
美国海湾大桥

零部件图号 CBRawing	3AE 08E3	探伤类别 Test type	100%MT	编号 No	ZP06-787
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零部件名称 Items	底板/斜底板	材 料 Material	A709M-345T2	数 量 Quantit	
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序号 No.	探伤编号 NDL No.	焊缝类型 Weld type	板厚/直径 thickness/diameter	焊工姓名 Welder name	焊工编号 Welder No.	结 论 Result	备注 remark
1	SEG14A-005	对接	22*20*900		220063 066571	✓	
2							



备注:

焊后

校火后

WR/CWR 碳刨后
WR/CWR NO: _____

WR/CWR 返修后
WR/CWR NO: B-wr-6492

SPCM

其它

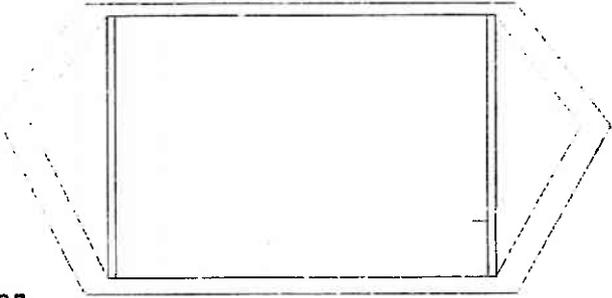
焊接方法 FCAW, SMAW

车间位置 外场

申请人 Applicant	王立洋 郑喜之队	日期 Date	2009.07.30	主探者 Inspected by	丁 研 明	日期 Date	09.8.13
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探伤报告编号:

8151

ZPMC		探伤申请表 APPLICATION FORM FOR NDT			产品名称 NAME OF PRODUCT 美国海湾大桥		
零部件图号 Drawing No	OBE3	探伤类别 Test type	100%UT	编号 No	ZP06--787		
零部件名称 Items	3AE	材料 Material	A709M-345	数量 Quantity			
序号 No.	探伤编号 NDT No.	焊缝类型 Weld type	板厚/直径 thickness/diameter	焊工姓名 Welder name	焊工编号 Welder No.	结论 Result	备注 remark
1	SEG014A-005	对接	20*20*1000		220063+066571	✓	
2							
3							
4							
5							
6							
7							
8							
9							
探伤位置图 Scheme showing the test part					备注:		
3AE联系案例  SEG041A-005					<input type="checkbox"/> 焊后 <input checked="" type="checkbox"/> 校火后 HSR(B)-306 <input type="checkbox"/> WR/CWR 碳刨后 WR/CWR NO: _____ <input type="checkbox"/> WR/CWR 返修后 WR/CWR NO: _____ <input type="checkbox"/> SPCM <input type="checkbox"/> 其它 车间: 外场拼装场地 焊接方法: SMAW		
申请人 Applicant	潘文龙 郑喜芝	日期 Date	09.8.11	主探者 Inspected by	孙宇	日期 Date	09.8.11



REPORT OF ULTRASONIC EXAMINATION

UT探伤报告

REPORT NO. 报告编号 B787-UT-8153 DATE 2009.08.11 PAGE 1 OF 1 Revision No: 0

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

ITEMS NAME: 3AE PLATE PANEL DRAWING NO.: OBE3 CALTRANS CONTRACT NO.: 04-0120F4
 部件名称 SPLICE 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
 SMAW 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 IIV BLOCK TYPE II C.M.C A709M-345 20mm

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°	2.5MHz	18×18mm				
Changchao	0°	2.5MHz	20mm	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
SEG014A-005		70					32								ACC.	100%

AFTER HSR1(B)-306

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EXAMINED BY 主探 Sun yin <i>Sun Yin</i> LEVEL - II SIGN / DATE <i>09.08.11</i>	REVIEWED BY 审核 <i>Zhang Jin</i> LEVEL - II SIGN / DATE <i>09.08.11</i>
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
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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-000257**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:****Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0345**Type of problem:**

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

Date the Non-Conformance Report was written: 29-Jun-2009**Description of Non-Conformance:**

During in process visual inspection of the OBG Trial Assembly of Segment 3AE, Caltrans Quality Assurance (QA) Inspector discovered isolated distortion damage at Longitudinal Diaphragm and Bottom Plate between Panel Point 19 and 20 (Cross Beam Side). The distortion damage appears as a viable bulge in the Diaphragm and Bottom Plate at a location where an external support was positioned. The bulge appears to be related to heat straightening repairs. The heat straightening was performed without submitting a Heat Straightening Request to the Engineer. See the below photos for further information.

Contractor's proposal to correct the problem:

Contractor has acknowledged that this item must be addressed, and the item was added to the Master Punchlist.

Corrective action taken:

Work was completed and item was cleared on Master Punchlist by Caltrans on 8-12-2009. Submittal of documentation by Contractor being tracked on Documentation Punchlist.

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