

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:** ZPMC's fabrication shop, Changxing Island, China**Report No:** NCR-000027**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 14-Jan-2008**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0026**Type of problem:**

Welding	Concrete	Other	
Welding	Curing	Procedural	Bridge No: 34-0006
Joint fit-up	Coating	Other	Component: OBG components
Procedural	Procedural	Descriptor:	Un-approved personnel monitoring welding

Description of Non-Conformance:

ABF allowed ZPMC to perform welding without inspection by approved Quality Control inspectors. ZPMC was utilizing two individuals identified who identified themselves as the "QC" personnel for the monitoring of work in progress in Bay 7. These two individuals have not been approved as CWIs or CAWIs. (Addendum A-6 of ZPMC's WQCP).

Applicable reference:

Contract Special Provisions, Section 8-3.0-1 'Welding', page 149: "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 ..." "... The QC Inspector shall be responsible for quality control acceptance or rejection of materials and workmanship, and shall be currently certified as an AWS Certified Welding Inspector (CWI) in conformance with the requirements in AWS QC1, "Standard and Guide for Certification of Welding Inspectors."..."

Contract Special Provisions, Section 8-3.0-1 'Welding', page 150: "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: Caltrans Mets QA Inspector Scott Croff**Name of individual from Contractor notified:****Time and method of notification:****Name of Caltrans Engineer notified:** Peter Dautermann**Time and method of notification:** 1600, VIA cell phone on 01-16-2008**QC Inspector's Name:** Zhang Zhong**Was QC Inspector aware of the problem:**

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Yes No

Contractor's proposal to correct the problem:

Unknown at this time.

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 Patrick Lowry, 916-227-5719, who represents the Office of Structural Materials for your project.

Inspected By: Lowry,Patrick

Quality Assurance Inspector

Reviewed By: Lowry,Patrick

QA Reviewer



DEPARTMENT OF TRANSPORTATION
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 Enterprises, a JV
375 Burma Road
Oakland CA 94607

Date: 08-Feb-2008

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

Attention: Dave Williams Consultant

Job Name: SAS Superstructure

Document No: 05.03.06-000017

Subject: NCR No. ZPMC-0026

The attached Non-Conformance Report describes an occurrence where the contractor did not comply with a requirement of the contract document as indicated below:

Non-Conformance with quality control procedures. Please take appropriate corrective action. Recurrence may require further administrative action.

Non-Conformance with quality control. Records indicate that this is a recurring issue and constitutes a systematic problem in quality control. Within fourteen (14) days, please submit a plan to correct the deficiency.

Material or workmanship is not in compliance with contract requirements.

Enclosed please find the following items:

NCR No: ZPMC-0026

Remarks:

Please see attached Non-Conformance Report for details.

Transmitted by: Stanley Ku Sr. Bridge Engineer

cc: Rick Morrow, Gary Pursell, Stanley Ku, Brian Boal, Jason Tom, Dave Williams

File: 05.03.06

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000017

Subject: NCR No. ZPMC-0026

Dated: 23-Apr-2008

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000019 **Rev:** 00

Contractor's Proposed Resolution:

Reference Resolution: AWS is correcting ZPMC QC CWI name spelling

Please see the attached response from ZPMC. ABF JV has reviewed and concurs with this response and considers this issue resolved. ABF JV believes, based on our understanding of the NCT process that this NCR was issued closed as the top (first) box on the NCT was checked. Please confirm.

Submitted by: Kanapicki, Charles

Attachment(s): ABF-NPR-000019R00;

Caltrans' comments:

Status: CLO
Date: 24-Jul-2008

It has been verified that Mr. Xu Lefeng has passed the CWI exam (Certification Number 07031411).

The Department concurs that Non-Conformance ZPMC-0026 is closed.

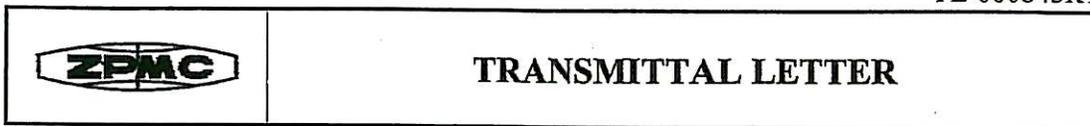
Submitted by: Wright, Doug

Attachment(s):

Date: 24-Jul-2008

NCT 171

TL-000845R1



PROJECT: SAN FRANCISCO OAKLAND BAY BRIDGE

DATE: 03/19/2008

TO: RUBY/ ABFJV QA DEPARTMENT

FROM: ZPMC QA DEPARTMENT

SUBJECT: A LETTER OF RESPONSE

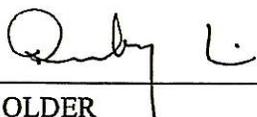
SUBMITTED FOR YOUR APPROVAL AND SUBMITTAL TO CALTRANS.

ENCLOSED WITH THIS TRANSMITTAL IS ONE

- (1) COPY OF LETTER OF RESPONSE NO.CT-107
- (2) COPY OF MOODY CONFIRMATION LETTER
- (3) COPY OF TC-20 FROM CAL TRANS
- (4) COPY OF WELDING INSPECTION REPORT FROM CAL TRANS
- (5) COPY OF PREVIOUS LETTER OF RESPONSE NO.B-40 FROM ZPMC
- (6) COPY OF NCR-000027 (ZPMC-0026)

PLEASE SIGN THIS TRANSMITTAL AND RETURN TO ME.

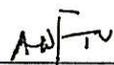
ACKNOWLEDGEMENT:



 PLAN HOLDER

3/19/08 10:26

 DATE



 COMPANY

 PHONE NO.

PLAN NUMBER: N/A
 #R787-QCP-102



No. CT-107

LETTER OF RESPONSE

TO: American Bridge/Flour JV

DATE: 2008-3-6

REGARDING: NCR -000027 (ZPMC-0026)

With this letter of response and the attached documentation, ZPMC requests closure for NCR-000027 (ZPMC-0026).

It is verified that Mr. Xu Lefeng has passed the CWI exam (Certification Number 07031411), but the CWI certification from AWS has wrongly spelled his name as Lu Lefeng. It's in process of correcting by AWS organization now.

Please see the attached formal letter from Moody China for confirmation.

ZPMC considers that the NCR-000027(ZPMC-0026) could be closed out.

ATTACHMENT:

Moody confirmation letter

TC-20 from Calatrans

Welding inspection report from Caltrans

Previous letter of response No.B-40 from ZPMC

NCR-000027 (ZPMC-0026)

Lu Jianhua
03/07/08

R. Z. W. Z. E. b
A. B. F. C. m
10 APRIL 08



Tel: +86-(0)21-50273086
Fax: +86-(0)21-50273501
E-Mail: admin@moody.com.cn
Website: www.moodyint.com

This is to verify that Mr. Xu LeFeng has passed the CWI exam organized by Moody China on February 10, 2007 and been granted as a CWI (Certification Number 07031411) by AWS.

The CWI certification from AWS has wrongly spelled his name as Lu LeFeng and the correction by AWS is in process.

Moody (Shanghai) Consulting Co., Ltd.



DEPARTMENT OF TRANSPORTATION
CHINA FABRICATION TEAM
506 Shangcheng Rd., Pudong New District
Shanghai 200120, PRC



REVIEW OF CONTRACTOR'S TRANSMITTAL

To: Dave Williams, American Bridge – Fluor, a Joint Venture
Gary Pursell, Resident Engineer

Review Date: 03-06-2008

From: Ady Velasco, SMR

Contract No.: 04-0120F4

Date/Time Submittal Received: 03-03-2008 / 10:40

China Standard Time
(GMT+08:00)

Contractor's Transmittal #: TL-08-0481 Rev. # 0

<input type="checkbox"/> substantially complies with contract requirements and is approved			
<input type="checkbox"/> substantially complies with contract requirements and is approved as noted.			
<input checked="" type="checkbox"/> Lacks sufficient information and/or contains unacceptable items that must be corrected or prior to resubmittal			
Verbal Notification		<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
Date:		Time:	
Name of individual from Contractor Notified:			
This submittal is a:	<input type="checkbox"/> Welding Report	<input type="checkbox"/> Critical Weld Repair	
	<input type="checkbox"/> Request for Information	<input type="checkbox"/> Heat Straightening Request	
	<input type="checkbox"/> Fabrication Procedures	<input checked="" type="checkbox"/> Other: Response to NCRs	
Submitting Contractor: <u>ABF</u>			
ITEMS REVIEWED	COMPLIES	COMMENTS	
1. Response to NCR-000027	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	The Contractor has not adequately addressed the non-conformance. Refer to TL-6031, Welding Inspection Report, WIR-001255 attached. Confirm that the personnel who identified themselves as QC personnel are approved CWIs for this contract or are no longer representing themselves as such.	
2. Response to NCR-000035	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The Department acknowledges the Contractor's response. No further response is required.	
3. Response to NCR-000038	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	The Department acknowledges that the Contractor's QC Inspector was not aware of the non-conformance. The Contractor has not adequately addressed the non-conformance. Provide details on corrective actions taken to prevent recurrence of the non-conformance.	
4.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
5.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
6.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
7.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
8.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
9.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
10.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Add more items here.....# - Item - Complies (Yes or No)-Comments			

Remarks:

OFFICE OF STRUCTURAL MATERIALS - REVIEW OF CONTRACTOR'S SUBMITTAL

Reviewer: Ady Velasco *AV*

Date: 03-06-2008

Construction Concurrence: SJE Initial 3/6/08 Date

DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 Office of Structural Materials
 Quality Assurance and Source Inspection



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Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary
 Address: 333 Burma Road
 City: Oakland, CA 94607

Report No: WIR-001255
 Date Inspected: 14-Jan-2008

Project Name: SAS Superstructure
 Prime Contractor: American Bridge/Fluor Enterprises, a JV
 Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island
 OSM Arrival Time: 900
 OSM Departure Time: 1830
 Location: Shanghai, China

CWI Name:	Zhang Zhong	CWI Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Inspected CWI report:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Rod Oven in Use:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Electrode to specification:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Weld Procedures Followed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Qualified Welders:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Verified Joint Fit-up:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Approved Drawings:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Approved WPS:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
		Delayed / Cancelled:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Bridge No:	34-0006	Component:	Tower mock ups and OBG components

Summary of Items Observed:

The Caltrans Quality Assurance (QA) inspector, Scott Croff, was present at Zhenhua Port Machinery Company, Ltd (ZPMC) to observe the scheduled mock up construction and production construction of the SAS Superstructure.

Bay 2: The QA inspector observed work in progress on the 77 meter mock up and noted that there appeared to be additional plates and welds than were on the approved drawings. The QA inspector showed the QA inspector Larry Viars and then asked ZPMC personnel if they were aware of what actual parts were being welded. The QA inspectors were informed that work was being done in conformance with an approved request for information (RFI) 269. The QA inspector reviewed the available documents and then verified that this RFI was approved.

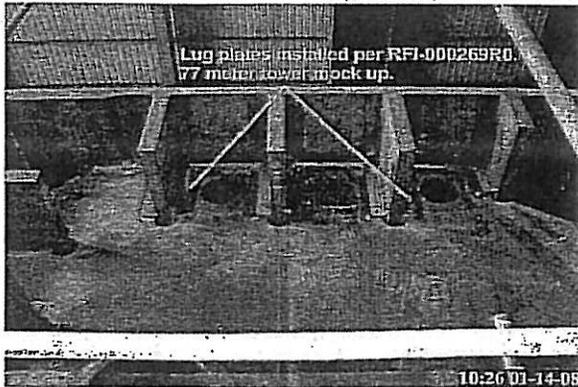
The QA inspector observed submerged arc welding (SAW) being conducted on the outside corner of the skin plates D and E of the 77 meter mock up assembly. The QA inspector noted that the welding operator is Xue Yian. As the QA inspector was making these observations, the QA inspector was informed by ZPMC person Xu Le Feng that he was the CWI and was monitoring this welding. ~~Upon review of the approved list of Quality Control (QC) personnel, the QA inspector could not identify Xu Le Feng as being an approved CWI.~~ The QA inspector was directed to write an incident report of this observation.

Bay 7: The QA inspector made random observations of work in progress on floor beam diaphragm assemblies that will be used in the Orthotropic Box Girders (OBG). The QA inspector observed shielded metal arc welding (SMAW) being performed by Wang Li, Hu Yacheng and Sun LingLing. The QA inspector noted that ZPMC workers are fitting up parts and making fillet welds between various stiffeners on assemblies FB002-02, FB007-02,

WELDING INSPECTION REPORT

(Continued Page 2 of 3)

FB016-02 and FB016-03. As the QA inspector was making these observations, the QA inspector noted that the welding is being monitored by several ZPMC persons, Xu Tao and Wang Xiang Pin. The QA inspector inquired with these persons to determine if they were approved QC inspectors. At separate occasions, the QA inspector was informed by both of the ZPMC persons that they were not approved QC inspectors and that Zhang Zhong was the CWI monitoring the welding. ~~The QA inspector made these observations for a period of more than 45 minutes and during that time, the CWI Zhang Zhong was not observed monitoring any of the welding.~~ The QA inspector was directed to write an incident report of this observation.



Summary of Conversations:

As noted above, the QA inspector Scott Croff had conversations with the QA inspector Larry Viars and ZPMC QC personnel regarding the RFI that is being used on the 77 meter mock up. The QA inspectors were informed that the work was being done in conformance with RFI-000269R00.

As noted above, the QA inspector Scott Croff had several conversations with ZPMC personnel in Bay 2 and Bay 7.

The conversations were generally regarding the observed work in progress and are described above. Also as noted above, after 45 minutes in Bay 7, when the QA inspector did not observe an approved QC inspector monitor the observed any welding, the QA inspector asked the ZPMC workers where the CWI was. The QA inspector was informed that the CWI Zhang Zhong was "in the office."

The QA inspector Scott Croff had a conversation with the QA inspector Robert Cuellar. The QA inspector Scott Croff was informed that incident reports should be written for the apparently unapproved CWI monitoring welding on the 77 meter mock up assembly and the observed lack of continuous inspection of welding in Bay 7. The QA inspector then generated a summary report to be included in the daily shift log. There were no other notable conversations during this shift.

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: Croff, Scott

Quality Assurance Inspector

WELDING INSPECTION REPORT

(Continued Page 3 of 3)

Reviewed By: Cuellar, Robert

QA Reviewer



No. B-040

LETTER OF RESPONSE

TO: American Bridge/Flour JV

DATE: 2008-2-24

REGARDING: NCR-000027 (ZPMC-0026)

With this letter of response, ZPMC requests countermand Caltrans NCR-000027 (ZPMC-0026). ZPMC considers that the description in this NCR is incorrect. The CWI of that bay pull his weight on his job all the time. The QC inspector, Zhang Zhong didn't agree with this description either.

ZPMC considers NCR-000027 can be cancelled.

Lu Jianhua
02/25/08

- APPROVED
- APPROVED AS NOTED
- NOT APPROVED

Pursuant to Section 5-1.02
of the Standard Specifications
State of California
DEPARTMENT OF TRANSPORTATION

Signed SJE S. RM
Structure Representative

Date 3/6/08



DEPARTMENT OF TRANSPORTATION
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 Enterprises, a JV
375 Burma Road
Oakland CA 94607

Date: 08-Feb-2008

Contract No: 04-0120P4
04-SF-80-13.2 / 13.9

Attention: Dave Williams Consultant

Job Name: SAS Superstructure

Document No: 05.03.06-000017

Subject: NCR No. ZPMC-0026

The attached Non-Conformance Report describes an occurrence where the contractor did not comply with a requirement of the contract document as indicated below:

- Non-Conformance with quality control procedures. Please take appropriate corrective action. Recurrence may require further administrative action.
- Non-Conformance with quality control. Records indicate that this is a recurring issue and constitutes a systematic problem in quality control. Within fourteen (14) days, please submit a plan to correct the deficiency.
- Material or workmanship is not in compliance with contract requirements.

Enclosed please find the following items:

NCR No: ZPMC-0026

Remarks:

Please see attached Non-Conformance Report for details.

Transmitted by: Stanley Ku Sr. Bridge Engineer

cc: Rick Morrow, Gary Pursell, Stanley Ku, Brian Boal, Jason Tom, Dave Williams

File: 05.03.06

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection

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Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.25B

QUALITY ASSURANCE,-- NON-CONFORMANCE REPORT

Location: ZPMC's fabrication shop, Changxing Island, China

Report No: NCR-000027

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 14-Jan-2008

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

NCR #: ZPMC-0026

Type of problem:

Welding Concrete Other
 Welding Curing Procedural Bridge No: 34-0006
 Joint fit-up Coating Other Component: OBG components
 Procedural Procedural Description: Un-approved personnel monitoring welding

Description of Non-Conformance:

ABF allowed ZPMC to perform welding without inspection by approved Quality Control inspectors. ZPMC was utilizing two individuals identified who identified themselves as the "QC" personnel for the monitoring of work in progress in Bay 7. These two individuals have not been approved as CWIs or CAWIs. (Addendum A-6 of ZPMC's WQCP).

Applicable reference:

Contract Special Provisions, Section 8-3.0-1 'Welding', page 149: "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 ..." "... The QC Inspector shall be responsible for quality control acceptance or rejection of materials and workmanship, and shall be currently certified as an AWS Certified Welding Inspector (CWI) in conformance with the requirements in AWS QC1, "Standard and Guide for Certification of Welding Inspectors." ..."

Contract Special Provisions, Section 8-3.0-1 'Welding', page 150: "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: Caltrans Mets QA Inspector Scott Croff

Name of individual from Contractor notified:

Time and method of notification:

Name of Caltrans Engineer notified: Peter Dautermann

Time and method of notification: 1600, VIA cell phone on 01-16-2008

QC Inspector's Name: Zhang Zhong

Was QC Inspector aware of the problem:

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

Yes No

Contractor's proposal to correct the problem:

Unknown at this time.

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 Patrick Lowry, 916-227-5719, who represents the Office of Structural Materials for your project.

Inspected By: Lowry,Patrick

Quality Assurance Inspector

Reviewed By: Lowry,Patrick

QA Reviewer

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:** ZPMC's fabrication shop, Changxing Island, China**Report No:** NCS-000043**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 06-May-2008**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0026**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: 14-Jan-2008**Description of Non-Conformance:**

ABF allowed ZPMC to perform welding without inspection by approved Quality Control inspectors. ZPMC was utilizing two individuals identified who identified themselves as the 'QC' personnel for the monitoring of work in progress in Bay 7. These two individuals have not been approved as CWIs or CAWIs. (Addendum A-6 of ZPMC's WQCP).

Contractor's proposal to correct the problem:

N/A

Corrective action taken:

It is verified that Mr. Xu Lefeng has passed the CWI exam (Certification Number 07031411), but the CWI certification from AWS has wrongly spelled his name as Lu Lefeng. It's in process of correcting by AWS organization now.

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 Patrick Lowry, (858) 344-2712, who represents the Office of Structural Materials for your project.

Inspected By: Liu,Chengwen

Quality Assurance Inspector

Reviewed By: Lowry,Patrick

QA Reviewer