

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-000534**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 10-Dec-2009**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0507**Type of problem:**

| | | | |
|---------------------|-------------------|---------------------|---|
| Welding | Concrete | Other | |
| Welding | Curing | Procedural | Bridge No: 34-0006 |
| Joint fit-up | Coating | Other | Component: Segment 7DW Floor Beam FL3 Stiffeners |
| Procedural | Procedural | Description: | |

Reference Description: ZPMC performed base metal repairs without the Engineer's approval for Segment 7DW

Description of Non-Conformance:

During a random visual inspection at OBG Segment 7DW of Floor Beam FL3 stiffeners, the Quality Assurance (QA) Inspector observed ZPMC performing un-approved base metal repairs on two (2) horizontal stiffeners located at FL3 Floor Beam PP58. Additional information about the non-conforming base metal repairs are listed below.

- 1) The Floor Beam is identified as: FB027-004
- 2) The 2 horizontal stiffeners are identified as: X82T and X82V
- 3) The welds were identified as: FB027-001,038/039 and FB027-001,040/041
- 4) ZPMC performed base metal repairs without the prior approval of the Engineer.

**Applicable reference:**

Special Provisions 8-3.01: "The Engineer shall be notified immediately in writing when welding problems, deficiencies, base metal repairs, or any other type of repairs not submitted in the WQCP are discovered and also of the proposed repair procedures to correct them. For requests to perform repairs,

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

The contractor shall include an engineering evaluation of the proposed repair.”

ZPMC Welding Quality Control Plan, Section 9.2.1.2: “Prior approval of the Engineer shall be obtained for repairs to base metal other than what was identified in Section 9.2.1.1 of this manual and the repair of all other cracks.”

AWS D1.5/2002, Section 3.7.4: “Prior approval of the Engineer shall be obtained for repairs to base metal, repair of major or delayed cracks, repairs to ESW and EGW welds with internal defects, or for revised design to compensate for deficiencies.”

Who discovered the problem: Larry Viars

Name of individual from Contractor notified: Lee Man Kit

Time and method of notification: 1300 hours, Verbal

Name of Caltrans Engineer notified: Ching Chao and Bill Howe

Time and method of notification: 1400 hours, Email

QC Inspector's Name: Li Ping

Was QC Inspector aware of the problem: Yes No

Contractor's proposal to correct the problem:

N/A

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, +(86) 134.7247.7571, who represents the Office of Structural Materials for your project.

Inspected By: Carreon,Albert

Lead Reviewer/Task Leader

Reviewed By: Wahbeh,Mazen

SMR



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

NON-CONFORMANCE REPORT TRANSMITTAL

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

Date: 24-Dec-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: 05.03.06-000495

Subject: NCR No. ZPMC-0507

Reference Description: ZPMC performed base metal repairs without the Engineer's approval for Segment 7DW

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:** 07

Remarks:

During a random visual inspection at OBG Segment 7DW of Floor Beam FL3 stiffeners, the Quality Assurance (QA) Inspector observed ZPMC performing un-approved base metal repairs on two (2) horizontal stiffeners located at FL3 Floor Beam PP58. Additional information about the non-conforming base metal repairs are listed below.

- 1) The Floor Beam is identified as: FB027-004
- 2) The 2 horizontal stiffeners are identified as: X82T and X82V
- 3) The welds were identified as: FB027-001,038/039 and FB027-001,040/041
- 4) ZPMC performed base metal repairs without the prior approval of the Engineer.

Action Required and/or Action Taken:

Submit a repair plan to the engineer for approval. A response for the resolution of this issue is expected within 7 days.

Transmitted by: Bill Howe

Attachments: ZPMC-0507

cc: Rick Morrow, Gary Pursell, Peter Siegenthaler, Stanley Ku, Brian Boal, 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: 05.03.06-000495

Subject: NCR No. ZPMC-0507

Dated: 11-Jan-2010

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000468 Rev: 00

Contractor's Proposed Resolution:

Reference Resolution: ZPMC has performed repairs to base metal without engineers approval based on AWS D1.5 paragraph 12.17.2 (1) which is a non-critical weld repair that does not require engineers approval.

ZPMC has performed repairs to base metal without engineers approval based on AWS D1.5 paragraph 12.17.2 (1) which is a non-critical weld repair that does not require engineers approval. ZPMC requests closure of this NCR.

Submitted by: Lawton, Steve

Attachment(s): ABF-NPR-000468R00;

Caltrans' comments:

Status: REJ

Date: 11-Jan-2010

Special provision 8-3.01 is the governing specification and engineers approval is required. Please provide the requested documentation.

Submitted by: Howe, Bill

Attachment(s):

Date: 11-Jan-2010



No. B-563

LETTER OF RESPONSE

TO: American Bridge/Flour

DATE: 2010-1-8

REGARDING: NCR-000534(ZPMC-0507)

With this letter of response, ZPMC requests **withdraw** of CT NCR-000534(ZPMC-0507), what mentioned that QA observed base metal repairs without the prior approval of the Engineer. ZPMC thought this was caused by flame cutting at the free edge of stiffeners. Refer to AWS D1.5 section 12.17.2 what identified the **Noncritical Repair Welds** included "Gouges in cut edges that are 10 mm [3/8 in.] deep or less". So it's not required approval of engineer prior to welding repair.

So ZPMC hopes CALTRANS could take a review and consider **withdraw** this NCR.

ATTACHMENT:

NCR-000534(ZPMC-00507)

Zhang Wei.

2010.1.8.



DEPARTMENT OF TRANSPORTATION - District 4 Toli Bridge
 333 Burma Road
 Oakland CA 94607
 Tel: Fax:

NON-CONFORMANCE REPORT TRANSMITTAL

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

Date: 24-Dec-2009

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

Dear: Mr. Charles Kanapicki
 Attention: Mr. Thomas Nilsson Project/Fabrication Manager
 Subject: NCR No. ZPMC-0507

Job Name: SAS Superstructure
 Document No: 05.03.06-000495

Reference Description: ZPMC performed base metal repairs without the Engineer's approval for Segment 7DW

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: 27

Remarks:

During a random visual inspection at OBG Segment 7DW of Floor Beam FL3 stiffeners, the Quality Assurance (QA) Inspector observed ZPMC performing un-approved base metal repairs on two (2) horizontal stiffeners located at FL3 Floor Beam PP58. Additional information about the non-conforming base metal repairs are listed below:

- 1) The Floor Beam is identified as: FB027-004
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- 4) ZPMC performed base metal repairs without the prior approval of the Engineer.

Action Required and/or Action Taken:

Submit a repair plan to the engineer for approval. A response for the resolution of this issue is expected within 7 days.

Transmitted by: Bill Howe

Attachments: ZPMC-0507

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

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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: Changxing Island, Shanghai, P.R. China

Report No: NCR-000534

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 10-Dec-2009

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

NCR #: ZPMC-0507

Type of problem:

- Welding Concrete Other
- Welding Curing Procedural
- Joint fit-up Coating Other
- Procedural Procedural Description:

Bridge No: 34-0006

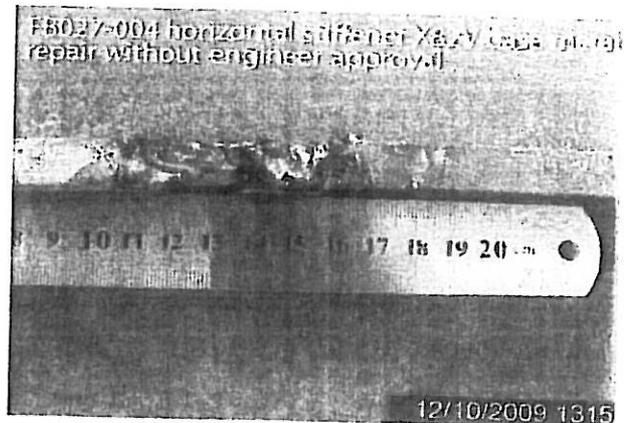
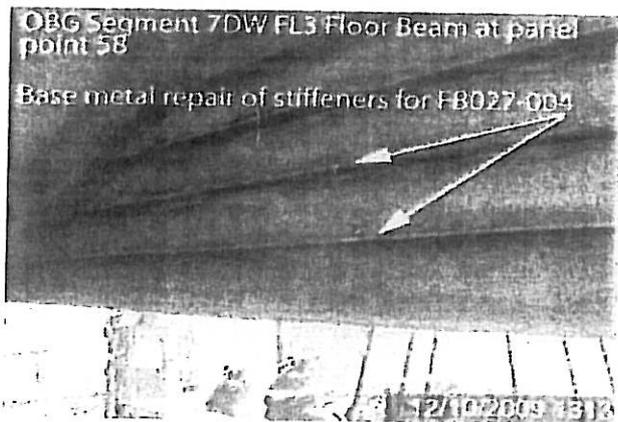
Component: Segment 7DW Floor Beam FL3 Stiffeners

Reference Description: ZPMC performed base metal repairs without the Engineer's approval for Segment 7DW

Description of Non-Conformance:

During a random visual inspection at OBG Segment 7DW of Floor Beam FL3 stiffeners, the Quality Assurance (QA) Inspector observed ZPMC performing un-approved base metal repairs on two (2) horizontal stiffeners located at FL3 Floor Beam PP58. Additional information about the non-conforming base metal repairs are listed below.

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- 4) ZPMC performed base metal repairs without the prior approval of the Engineer.



Applicable reference:

Special Provisions 8-3.01: "The Engineer shall be notified immediately in writing when welding problems, deficiencies, base metal repairs, or any other type of repairs not submitted in the WQCP are discovered and also of the proposed repair procedures to correct them. For requests to perform repairs,

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

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ZPMC Welding Quality Control Plan, Section 9.2.1.2: “Prior approval of the Engineer shall be obtained for repairs to base metal other than what was identified in Section 9.2.1.1 of this manual and the repair of all other cracks.”

AWS D1.5/2002, Section 3.7.4: “Prior approval of the Engineer shall be obtained for repairs to base metal, repair of major or delayed cracks, repairs to ESW and EGW welds with internal defects, or for revised design to compensate for deficiencies.”

Who discovered the problem: Larry Viars

Name of individual from Contractor notified: Lee Man Kit

Time and method of notification: 1300 hours, Verbal

Name of Caltrans Engineer notified: Ching Chao and Bill Howe

Time and method of notification: 1400 hours, Email

QC Inspector's Name: Li Ping

Was QC Inspector aware of the problem: Yes No

Contractor's proposal to correct the problem:

N/A

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, +(86) 134.7247.7571, who represents the Office of Structural Materials for your project.

Inspected By: Carreon, Albert

Lead Reviewer/Task Leader

Reviewed By: Wahbeh, Mazen

SMR

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000495

Subject: NCR No. ZPMC-0507

Dated: 09-Jun-2010

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000468 **Rev:** 01

Contractor's Proposed Resolution:

Reference Resolution: ZPMC is providing NDT to show that the repair performed is acceptable.

ZPMC is providing NDT to show that the repair performed is acceptable. Based on previous letters issues by the ABFJV QCM which were issued with the consent of the Department these repairs did not require Engineer approval. Based on this ZPMC is requesting closure of this NCR.

Submitted by: Ishibashi, Joshua

Attachment(s): ABF-NPR-000468R01;

Caltrans' comments:

Status: CLO

Date: 13-Jun-2010

This proposed resolution is acceptable. The documentation received is sufficient and the Department concurs that Non-Conformance ZPMC-0507 is closed.

Submitted by: Eagen, Sean

Date: 13-Jun-2010

Attachment(s): NPR CT Comments



No. B-780

LETTER OF RESPONSE

TO: American Bridge/Flour

DATE: 2010-6-7

REGARDING: NCR-000534(ZPMC-0507)

According to pervious letter regarding the requirement of base metal repair, ZPMC is allowed to finish such case of repair without Engineer's approval. ZPMC is providing the NDT record after repair and is requesting closure of this NCR.

ATTACHMENT:

NCR-000534(ZPMC-0507)

Reply to: SL-ABF-08-0142

AFC-ZPM-LTR-000621

B787-MT-23782

A handwritten signature in black ink, appearing to be 'Jey' followed by a flourish.

6/7/10



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

NON-CONFORMANCE REPORT TRANSMITTAL

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

Date: 24-Dec-2009

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

Dear: Mr. Charles Kanapicki
 Attention: Mr. Thomas Nilsson Project/Fabrication Manager
 Subject: NCR No. ZPMC-0507

Job Name: SAS Superstructure
 Document No: 05.03.06-000495

Reference Description: ZPMC performed base metal repairs without the Engineer's approval for Segment 7DW

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

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- Recurring QC issue that constitutes a systematic problem in quality control.
- Non-Conformance Resolved.

Material Location: OBG

Lift: 07

Remarks:

During a random visual inspection at OBG Segment 7DW of Floor Beam FL3 stiffeners, the Quality Assurance (QA) Inspector observed ZPMC performing un-approved base metal repairs on two (2) horizontal stiffeners located at FL3 Floor Beam PP58. Additional information about the non-conforming base metal repairs are listed below:

- 1) The Floor Beam is identified as: FB027-004
- 2) The 2 horizontal stiffeners are identified as: X82F and X82V
- 3) The welds were identified as: FB027-001, 038, 039 and FB027-001, 040, 041
- 4) ZPMC performed base metal repairs without the prior approval of the Engineer.

Action Required and/or Action Taken:

Submit a repair plan to the engineer for approval. A response for the resolution of this issue is expected within 7 days.

Transmitted by: Bill Howe

Attachments: ZPMC-0507

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

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



Bay Area Branch
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 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, P.R. China

Report No: NCR-000534

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 10-Dec-2009

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

NCR #: ZPMC-0507

Type of problem:

- Welding Concrete Other
 Welding Curing Procedural
 Joint fit-up Coating Other
 Procedural Procedural Description:

Bridge No: 34-0006

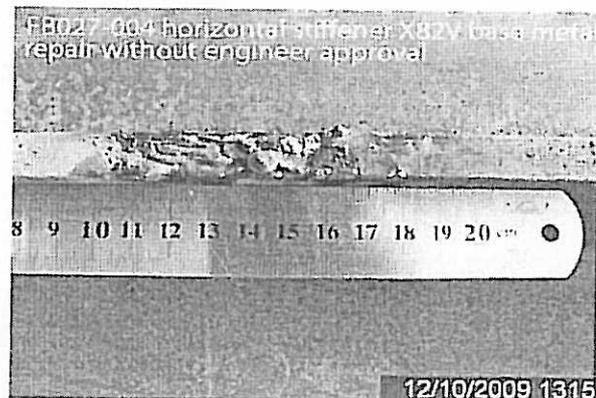
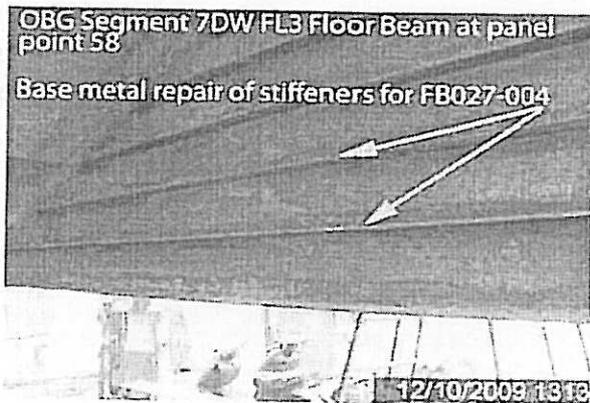
Component: Segment 7DW Floor Beam FL3 Stiffeners

Reference Description: ZPMC performed base metal repairs without the Engineer's approval for Segment 7DW

Description of Non-Conformance:

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- 3) The welds were identified as: FB027-001,038/039 and FB027-001,040/041
- 4) ZPMC performed base metal repairs without the prior approval of the Engineer.



Applicable reference:

Special Provisions 8-3.01: "The Engineer shall be notified immediately in writing when welding problems, deficiencies, base metal repairs, or any other type of repairs not submitted in the WQCP are discovered and also of the proposed repair procedures to correct them. For requests to perform repairs,

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

The contractor shall include an engineering evaluation of the proposed repair.”

ZPMC Welding Quality Control Plan, Section 9.2.1.2: “Prior approval of the Engineer shall be obtained for repairs to base metal other than what was identified in Section 9.2.1.1 of this manual and the repair of all other cracks.”

AWS D1.5/2002, Section 3.7.4: “Prior approval of the Engineer shall be obtained for repairs to base metal, repair of major or delayed cracks, repairs to ESW and EGW welds with internal defects, or for revised design to compensate for deficiencies.”

Who discovered the problem: Larry Viars

Name of individual from Contractor notified: Lee Man Kit

Time and method of notification: 1300 hours, Verbal

Name of Caltrans Engineer notified: Ching Chao and Bill Howe

Time and method of notification: 1400 hours, Email

QC Inspector's Name: Li Ping

Was QC Inspector aware of the problem: Yes No

Contractor's proposal to correct the problem:

N/A

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, +(86) 134.7247.7571, who represents the Office of Structural Materials for your project.

Inspected By: Carreon, Albert

Lead Reviewer/Task Leader

Reviewed By: Wahbeh, Mazen

SMR



American
Bridge

FLUOR

A JOINT VENTURE

July 28, 2008

Zhenhua Port Machinery Co.,LTD
3470 Pudong Nanlu
Shanghai, China 200125

Reply to: SL-ABF-08-0142

Attention: Mr. Hugang

Reference: San Francisco Oakland Bay SAS Bridge Superstructure
Caltrans Contract No. 04-0120F4
ABF Job No. 660110

Subject: Repair of Flame Cut Edges

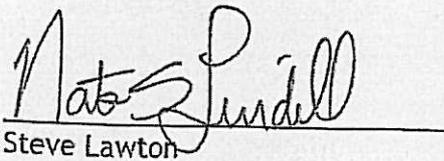
Mr. Hugang

ZPMC is allowed to repair Non-SPCM Base Metal flame cut edges without Engineers approval per the requirements of AWS D1.5 paragraph 3.2 and 3.7 as outlined in Section 9 paragraph 9.2.1.1 of the approved ZPMC WQCP. Weld repairs shall be documented on a Weld Repair Report and submitted as part of the Weekly Welding Reports. Weld repairs shall be completed using an approved weld repair procedure. In the event that a weld repair procedure does not exist for a particular type of thermal gouge to be repaired, a procedure shall be developed and submitted prior to conducting the repair. Third time repairs to Non-SPCM Base Metal will require approval of the Engineer.

Be advised that the above interpretation only applies to gouges in thermal cut edges of non-SPCM Base material. Other types of Non-SPCM Base Metal repairs, such as, misplaced holes or copes require approval of the Engineer.

If further comments or clarifications are needed, please contact me.

Kindest Regards



for Steve Lawton
ABFJV
Foreign QA Manager



American
Bridge

FLUOR

A JOINT VENTURE

375 Burma Road
Oakland, CA 94607 USA
Phone 510-808-4600
Fax 510-808-5601

February 22, 2010

AFC-ZPM-LTR-000621

Attention: Mr. Lujianhua
Mr. XuJun

ZPMC
Steel Structure Department
Room 203, Building 2
Shanghai, China 200125

PROJECT: San Francisco Oakland Bay SAS Bridge Superstructure
Caltrans Contract No. 04-0120F4
ABF Job No. 660110

SUBJECT: Clarification letter regarding use of CWR or WRR for base metal repairs of temporary attachment removal areas and plate edge weld build up areas

Mr. Lujianhua, Mr. XuJun

The following clarifications shall apply for completing WRR or CWR for base metal repair of Tower and OBG temporary attachment removal areas and plate edge weld build up areas.

1. Base metal repair – After removal of temporary attachments
 - a. SPCM
 - i. CWR required for SPCM temporary attachment removal areas requiring repair by welding.
 - b. Non SPCM
 - i. WRR is required for Non SPCM materials. CT onsite inspector must be notified prior to performing any weld repair then the CT inspector name noted on the WRR, the WRR and WPS must be present at the jobsite.
2. Base metal repair - Plate edge weld build up areas.
 - a. SPCM
 - i. WRR is required for weld build up of plate edges or to correct weld joint geometry if the deposition of weld metal up to 10mm or ¼ the base –metal thickness, whichever is less. CWR is required if these limitations are exceeded.
 - b. Non SPCM
 - i. WRR is required for Non SPCM materials as long as the weld build up does not exceed ½ the base metal thickness or 20mm whichever is less. CT onsite inspector must be notified prior to performing any weld repair then the CT inspector name noted on the WRR, the WRR and WPS must be present at the jobsite. CWR is required if these limitations are exceeded.

If comments or clarifications are needed, please contact me.

Kindest Regards

American Bridge Company / Fluor Enterprises Inc., A Joint Venture
Steve Lawton
Foreign Quality Assurance Manager

ABF Building San Francisco Bay's New Signature Suspension Bridge

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

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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, Shanghai, P.R. China**Report No:** NCS-000683**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 13-Jul-2009**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0507**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: 10-Dec-2009**Description of Non-Conformance:**

During a random visual inspection at OBG Segment 7DW of Floor Beam FL3 stiffeners, the Quality Assurance (QA) Inspector observed ZPMC performing un-approved base metal repairs on two (2) horizontal stiffeners located at FL3 Floor Beam PP58. Additional information about the non-conforming base metal repairs are listed below.

- 1) The Floor Beam is identified as: FB027-004
- 2) The 2 horizontal stiffeners are identified as: X82T and X82V
- 3) The welds were identified as: FB027-001,038/039 and FB027-001,040/041
- 4) ZPMC performed base metal repairs without the prior approval of the Engineer.

Contractor's proposal to correct the problem:

Provide NDT results to verify weld quality.

Corrective action taken:

Contractor submitted NDT documentation verifying repairs meet Contract weld quality 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