

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave. St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.25B**QUALITY ASSURANCE -- NON-CONFORMANCE REPORT****Location:** Changxing Island, Shanghai, PRC**Report No:** NCR-000148**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 23-May-2008**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0140**Type of problem:**

Welding	Concrete	Other	
Welding	Curing	Procedural	Bridge No: 34-0006
Joint fit-up	Coating	Other	Component: Various SSD joints
Procedural	Procedural	Descriptor: Floorbeam Diagonal Support Connection Plates to FL	

Reference Description: Floorbeam Diagonal Support Misalignment**Description of Non-Conformance:**

The Contractor fabricated components that do not conform to dimensional tolerance requirements. The Contractor has welded diagonal support connection plates to floorbeam horizontal flange plates that are misaligned from 2.0mm - 18.0mm. The maximum misalignment allowed at those locations is 1.4mm. This has been observed at 22 different locations in various OBG floorbeams from 05-23-2008 through 06-09-2008.

Applicable reference:

Special Provisions, Section 10-1.59 Steel Structures, Design Details G2 (p. 326): "Misalignment between discontinuous members shall not exceed 10% of the thickness of the thinner member or 3mm, whichever is less".

Who discovered the problem: Caltrans Quality Assurance Mahlon Lindenmuth**Name of individual from Contractor notified:** ABFJV QC Inspector Art Peterson**Time and method of notification:** 1100 verbal notification on 05-23-2008**Name of Caltrans Engineer notified:** Stanley Ku**Time and method of notification:** notified of initial incident on 05-23-2008**QC Inspector's Name:** ZPMC QC Inspector Mr. Chen Chih Meng**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: Velasco, Abifhram

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: 19-Jun-2008

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

Dear: Mr. Charles Kanapicki

Job Name: SAS Superstructure

Attention: Mr. Dave Williams Consultant

Document No: 05.03.06-000122

Subject: NCR No. ZPMC-0140

Reference Description: Floorbeam Diagonal Support Misalignment

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:**

Remarks:

The Contractor fabricated components that do not conform to dimensional tolerance requirements. The Contractor has welded diagonal support connection plates to floorbeam horizontal flange plates that are misaligned from 2.0mm - 18.0mm. The maximum misalignment allowed at those locations is 1.4mm. This has been observed at 22 different locations in various OBG floorbeams from 05-23-2008 through 06-09-2008.

Action Required and/or Action Taken:

Propose a resolution for the identified non-conformance to prevent future occurrences.

Transmitted by: Stanley Ku Sr. Bridge Engineer

Attachments: ZPMC-0140

cc: Rick Morrow, Gary Pursell, Brian Boal, Jason Tom, 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: 05.03.06-000122

Subject: NCR No. ZPMC-0140

Dated: 10-Sep-2008

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000134 **Rev:** 00

Contractor's Proposed Resolution:

Reference Resolution: Components that are deemed out of tolerance will be removed and plates installed in the correct location.

ABF JV has informed ZPMC of this non-conformance and has also consulted the Engineer regarding the measurement points and tolerances of these components and has come to a documented agreement. Components that are deemed out of tolerance will be removed and plates installed in the correct location.

Submitted by:

Attachment(s): ABF-NPR-000134R00

Caltrans' comments:

Status: CLO

Date: 29-Sep-2008

The proposed resolution is acceptable. The Department concurs that Non-Conformance ZPMC-0140 is closed.

Submitted by: Wright, Doug

Date: 29-Sep-2008

Attachment(s):

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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, PRC**Report No:** NCS-000080**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 23-Sep-2008**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0140**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: 23-May-2008**Description of Non-Conformance:**

The Contractor fabricated components that do not conform to dimensional tolerance requirements. The Contractor has welded diagonal support connection plates to floorbeam horizontal flange plates that are misaligned from 2.0mm - 18.0mm. The maximum misalignment allowed at those locations is 1.4mm. This has been observed at 22 different locations in various OBG floorbeams from 05-23-2008 through 06-09-2008.

Contractor's proposal to correct the problem:

Components that are deemed out of tolerance will be removed and plates installed in the correct location.

Corrective action taken:

ABFJV has informed ZPMC of this non-conformance and has also consulted the Engineer regarding the measurement points and tolerances of these components and has come to a documented agreement.

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:**

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Inspected By: Liu, Chengwen **Quality Assurance Inspector****Reviewed By:** Velasco, Abifhram **QA Reviewer**