

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-000150**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 18-Jun-2008**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0141**Type of problem:**

Welding	Concrete	Other	
Welding	Curing	Procedural	Bridge No: 34-0006
Joint fit-up	Coating	Other	Component: 3BE
Procedural	Procedural	Descriptor: OBG Segment	

Reference Description: Workmanship not in conformance**Description of Non-Conformance:**

The Contractor is using fabrication jigs, aids and fixtures that were not described in working drawings. The Contractor is using temporary supports for the construction of OBG segment 3BE that were not described in approved fabrication procedures. See pictures below.

**Applicable reference:**

Special Provisions, Section 10-1.59 Steel Structures, Working Drawings (p. 299): "For box girder, crossbeam, tower, and pipe beam fabrication, shop practices shall be described in the working drawings and shall include the following:

...

B. Details of fabrication jigs, aids, fixtures and measurement templates (orthotropic box girder only)...."

ABF-SUB-000147R05, Typical Box Girder Fabrication Procedure, approved as noted on 11-02-2007.

Who discovered the problem: Construction Engineer Stanley Ku**Name of individual from Contractor notified:** ABFJV Gang Jiao

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Time and method of notification: Verbal notification at 13:00 on 06-18-2008

Name of Caltrans Engineer notified: Stanley Ku

Time and method of notification: Construction Engineer discovered issue

QC Inspector's Name: NA

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 Abifhiram Velasco, who represents the Office of Structural Materials for your project.

Inspected By:	Velasco,Abifhiram	SMR
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Reviewed By:	Velasco,Abifhiram	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: 30-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: 05.03.06-000124

Subject: NCR No. ZPMC-0141

Reference Description: Workmanship not in conformance

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 is using fabrication jigs, aids and fixtures that were not described in working drawings. The Contractor is using temporary supports for the construction of OBG segment 3BE that were not described in approved fabrication procedures.

Action Required and/or Action Taken:

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

Transmitted by: Stanley Ku Sr. Bridge Engineer

Attachments: ZPMC-0141

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: 05.03.06-000124

Subject: NCR No. ZPMC-0141

Dated: 11-Sep-2008

Contract No.: 04-0120F 4
04-SF-80-13.2 / 13.9

Job Name: SAS Superstructure

Document No.: ABF-NPR-000136 **Rev:** 00

Contractor's Proposed Resolution:

Reference Resolution: ZPMC and ABF JV have performed calculations of this fabrication jig to verify soundness during installation of the deck panels. These calculations and drawings have been submitted to CT for review.

ZPMC and ABF JV have performed calculations of this fabrication jig to verify soundness during installation of the deck panels. These calculations and drawings have been submitted to CT for review.

Submitted by:

Attachment(s): ABF-NPR-000136R00

Caltrans' comments:

Status: CLO

Date: 16-Dec-2008

The proposed resolution is acceptable. The Department concurs that Non-Conformance ZPMC-0141 is closed.

Submitted by: Wright, Doug

Date: 16-Dec-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-000107**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 12-Dec-2008**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0141**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: 18-Jun-2008**Description of Non-Conformance:**

The Contractor is using fabrication jigs, aids and fixtures that were not shown or approved in working drawings.

The Contractor is using temporary supports for the construction of OBG segment 3BE that were not described in approved fabrication procedures.

Contractor's proposal to correct the problem:

ZPMC and ABFJV have performed calculations of this fabrication jig to verify soundness during installation of the deck panels. These calculations and drawings have been submitted to CT for review.

Corrective action taken:

Closed by Construction.

Did corrective action require Engineer's approval? Yes No**If so, name of Engineer providing approval:** Stanley Ku and Doug Wright**Date:** 12-Dec-2008**Is Engineer's approval attached?** Yes No Email from Stanley Ku and Doug Wright on file showing direction**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 Sang Le, who represents the Office of Structural Materials for your project.

Inspected By: Dautermann, Peter

Quality Assurance Inspector

Reviewed By: Smith, Ryan

QA Reviewer