

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-000053**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 24-Jan-2008**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0052**Type of problem:**

Welding	Concrete	Other	
Welding	Curing	Procedural	Bridge No: 34-0006 L/R
Joint fit-up	Coating	Other	Component: 89 Meter Tower Mock-Up
Procedural	Procedural	Descriptor:	Diaphragm to Longitudinal Stiffener Welds

Description of Non-Conformance:

ABF has allowed ZPMC to produce unsatisfactory welds that do not meet the minimum requirements for mock-up fabrication. Cracks, as defined by AWS D1.5, were found at seven locations at the junction of the fitting lug to the longitudinal stiffeners. Weld numbers A/J 17, A/J 25, A/J 29, G/J 21, G/J 25 G/J 29 and G/J 44 have cracks.

Applicable reference:

Special Provisions, Section 10-1.59, "Fabrication/Erection Procedure and Mock-Ups", Page 313, paragraph B.1.

Who discovered the problem: Larry Viars and Alfredo Acuna**Name of individual from Contractor notified:****Time and method of notification:****Name of Caltrans Engineer notified:** Jim Reid**Time and method of notification:** 1/25/08, Verbal.**QC Inspector's Name:** Lay Tao**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 Patrick Lowry, 916-227-5719, who represents the Office of Structural Materials for your project.

Inspected By: Acuna, Alfredo

Quality Assurance Inspector

Reviewed By: Cuellar, Robert

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: 05.03.06-000009

Subject: NCR No. ZPMC-0052

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-0052

Remarks:

Please see the attached NCR #ZPMC-0052.

Transmitted by: Ching Chao

cc: Rick Morrow, Gary Pursell, Peter Siegenthaler, Mark Woods, Doug Coe, Jason Tom, Dave Williams, Contract Files, Kannu Balan, Chin

File: 05.03.06

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000009

Subject: NCR No. ZPMC-0052

Dated: 25-Aug-2008

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000099 Rev: 00

Contractor's Proposed Resolution:

Reference Resolution: Fabrication procedure has been modified and partial mock-ups have been fabricated successfully
Cracks determined to be caused by a combination of welder technique, pre-heat and interpass temperatures, and weld sequencing.
Fabrication procedure has been modified and partial mock-ups have been fabricated successfully.

Submitted by: Mackey, Kim
Attachment(s): ABF-NPR-000099R00

Caltrans' comments:

Status: CLO

Date: 25-Dec-2008

Per State Letter 05.03.01-003087 dated December 8, 2008, the 77m and 89m Tower Section Mock-ups were successfully completed. The Department concurs that Non-Conformance ZPMC-0052 is closed.

As noted in ABF-CAL-LTR-000758, the Department understands that the appropriate fabrication plans will be modified in accordance with Special Provision Section 10-1.59, "Steel Structures," subsection "Working Drawings" through the FCN process.

Submitted by: Wright, Doug
Attachment(s):

Date: 30-Dec-2008

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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-000137**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 23-Dec-2008**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0052**Type of problem:**

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

Date the Non-Conformance Report was written: 24-Jan-2008**Description of Non-Conformance:**

ABF has allowed ZPMC to produce unsatisfactory welds that do not meet the minimum requirements for mock-up fabrication. Cracks, as defined by AWS D1.5, were found at seven locations at the junction of the fitting lug to the longitudinal stiffeners. Weld numbers A/J 17, A/J 25, A/J 29, G/J 21, G/J 25 G/J 29 and G/J 44 have cracks.

Contractor's proposal to correct the problem:

Cracks determined to be caused by a combination of welder technique, pre-heat and interpass temperatures, and weld sequencing. Fabrication procedure has been modified and partial mock-ups have been fabricated successfully.

Corrective action taken:

Fabrication procedure has been modified and partial mock-ups have been fabricated successfully. Letter No. 05.03.01-003087 concluded the successful completion of 77m and 89m mock-ups.

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 Serge Sinevod, who represents the Office of Structural Materials for your project.

Inspected By: Sinevod, Serge

Quality Assurance Inspector

Reviewed By: Sinevod, Serge

QA Reviewer