

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-000248**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 13-Apr-2009**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0222**Type of problem:**

Welding	Concrete	Other	
Welding	Curing	Procedural	Bridge No: 34-0006
Joint fit-up	Coating	Other	Component: Interzinc 22 Paint Sample Test Result
Procedural	Procedural	Description: Paint application prior to sampled paint approval	

Reference Description: Sampled paint not meeting AASHTO M300 requirement**Description of Non-Conformance:**

METS QA received the paint test results for "International Paint Interzinc 22" from two laboratories. The results indicated that the paint samples did not meet the density test requirement per the standard of ASTM D1475. The density test result from SCSPC on Mar. 5, 2009 reflecting sample batch no. JM4584PV and JF0963PV was 17.54 lb/gal; The density test result from SGS on Apr. 7, 2009 reflecting batch no. KB5591PV and KB5592PV was 17.19 lb/gal; The density test result from SGS on Apr. 10, 2009 reflecting batch no. KC5921PV and KC5923PV) was 17.08 lb/gal.

The contractor had applied these batches of "Interzinc 22" on the following surfaces: OBG segments 1BE, 3AE, 3AW, 3BE, 3BW, 4AE, 4AW, 4BE, 5AE, and 5AW; Corner sub-assembly components in segments 6AE, 6AW, 7AE, 7BE, 7CE, 7DE, and 7EE; The faying surfaces at various locations for segments 1AE, 1AW, 1BE, 3AE, 3AW, 3BE, 3BW, 4AW, 4BE, 4BW, 5AE, 5BE, 5BW, and 5CW.

The contractor has applied coating for the work using paint batches that have not met the density test requirement as stated in AASHTO M300 Section 5.4.

Applicable reference:

- Standard Specs 1999 Section 91-1.02: "Application will not be permitted until the job-sampled paint has been approved by the Engineer."
- Contract Special Provision Section 10-1.69: "The single undercoat shall consist of an inorganic zinc coating conforming to the requirements in AASHTO Designation M300..."
- AASHTO M300 Section 5.4

Who discovered the problem: Andrew Ferng

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Name of individual from Contractor notified: William Oak

Time and method of notification: 11:30, Verbal

Name of Caltrans Engineer notified: Stanley Ku

Time and method of notification: 18:00, Verbal

QC Inspector's Name: N/A

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 Andrew Ferng, +(86) 1347.246.3441, who represents the Office of Structural Materials for your project.

Inspected By: Ferng,Andrew

QA Inspector

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: 16-Apr-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: 05.03.06-000214

Subject: NCR No. ZPMC-0222

Reference Description: Sampled paint not meeting AASHTO M300 requirement

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:

METS QA received the paint test results for "International Paint Interzinc 22" from two laboratories. The results indicated that the paint samples did not meet the density test requirement per the standard of ASTM D1475. The density test result from SCSPC on Mar. 5, 2009 reflecting sample batch no. JM4584PV and JF0963PV was 17.54 lb/gal; The density test result from SGS on Apr. 7, 2009 reflecting batch no. KB5591PV and KB5592PV was 17.19 lb/gal; The density test result from SGS on Apr. 10, 2009 reflecting batch no. KC5921PV and KC5923PV) was 17.08 lb/gal.

The contractor had applied these batches of "Interzinc 22" on the following surfaces: OBG segments BE, 3AE, 3AW, 3BE, 3BW, 4AE, 4AW, 4BE, 5AE, and 5AW; Corner sub-assembly components in segments 6AE, 6AW, 7AE, 7BE, 7CE, 7DE, and 7EE; The faying surfaces at various locations for segments 1AE, 1AW, 1BE, 3AE, 3AW, 3BE, 3BW, 4AW, 4BE, 4BW, 5AE, 5BE, 5BW, and 5CW.

The contractor has applied coating for the work using paint batches that have not met the density test requirement as stated in AASHTO M300 Section 5.4.

Action Required and/or Action Taken:

A response for the resolution of this issue is expected within 14 days.

Transmitted by: Stanley Ku Sr. Bridge Engineer

Attachments: ZPMC-0222

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: 05.03.06-000214

Subject: NCR No. ZPMC-0222

Dated: 02-Dec-2009

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000438 Rev: 00

Contractor's Proposed Resolution:

Reference Resolution: The non conformance documented in ZPMC-0222 was incorrectly reported. The paint was retested by Caltrans using the correct testing procedure and found acceptable, thus the NCR was written in error.

The non conformance documented in ZPMC-0222 was incorrectly reported. The Caltrans' laboratories performed the density test incorrectly which resulted in unacceptable results. The paint was retested by Caltrans using the correct testing procedure and found acceptable, thus the NCR was written in error. Based on this ZPMC requests closure of this NCR.

Submitted by: Ishibashi, Joshua

Attachment(s): ABF-NPR-000438R00

Caltrans' comments:

Status: CLO

Date: 09-Dec-2009

Based on METS email dated 11/23/09 and response to RFI 1757, samples JM4584PV/JF0963PV, KB5591PV/KB5592PV, and KC5921PV/KC5923PV were retested by SGS on 5/8/09 to the new density requirement of 21.281 +/- 0.4 lb/gal (report #SC090420436). This came from an updated M300 test. During the retest, JM4584PV/JF0963PV passed with a density value of 21.51 lb/gal. The other two samples were 21.73 and 21.74 lb/gal respectively. Although these values are outside the range specified, they are acceptable per SSPC-Paint 20 section 12.8.1 which allows 1.8% for lab variation (for quality assurance).
The NCR is considered closed.

Submitted by: Chao, Ching

Attachment(s):

Date: 09-Dec-2009

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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-000214**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:****Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0222**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: 13-Apr-2009**Description of Non-Conformance:**

METS QA received the paint test results for "International Paint Interzinc 22" from two laboratories. The results indicated that the paint samples did not meet the density test requirement per the standard of ASTM D1475. The density test result from SCSPC on Mar. 5, 2009 reflecting sample batch no. JM4584PV and JF0963PV was 17.54 lb/gal; The density test result from SGS on Apr. 7, 2009 reflecting batch no. KB5591PV and KB5592PV was 17.19 lb/gal; The density test result from SGS on Apr. 10, 2009 reflecting batch no. KC5921PV and KC5923PV) was 17.08 lb/gal.

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The contractor has applied coating for the work using paint batches that have not met the density test requirement as stated in AASHTO M300 Section 5.4.

Contractor's proposal to correct the problem:

N/A

Corrective action taken:

Further density test was conducted on the left-over samples on the same 3 batches. Result from test conducted by weight ratio indicates that density of the 3 samples range from 21.51 lb/gal to 21.74 lb/gal which verify density meets the requirement 20.7 lb/gal.

Did corrective action require Engineer's approval?

QUALITY ASSURANCE -- NON-CONFORMANCE RESOLUTION

(Continued Page 2 of 2)

Yes No

If so, name of Engineer providing approval:

Date:

Is Engineer's approval attached? **Yes No**

Comments:

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Inspected By: Ferng,Andrew

Quality Assurance Inspector

Reviewed By: Wahbeh,Mazen

QA Reviewer