

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



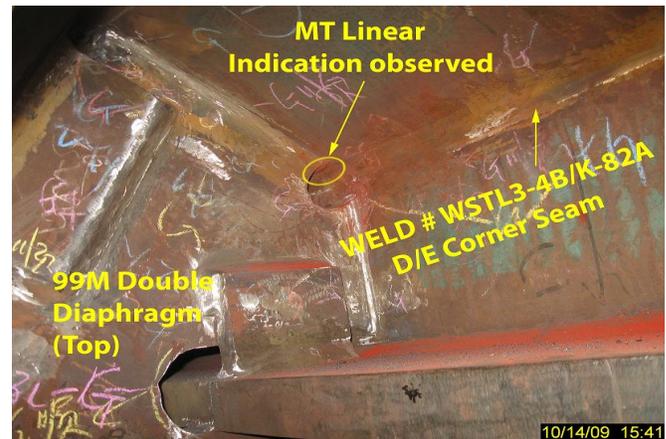
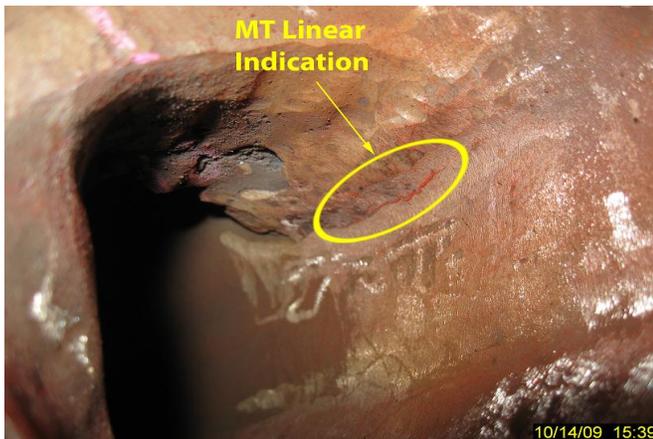
Bay Area Branch
690 Walnut Ave. St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

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-000446**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 14-Oct-2009**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0419**Type of problem:**

| | | | |
|---------------------|-------------------|--|------------------------------|
| Welding | Concrete | Other | |
| Welding | Curing | Procedural | Bridge No: 34-0006 |
| Joint fit-up | Coating | Other | Component: West Tower |
| Procedural | Procedural | Description: West Tower, Lift 3 | |

Reference Description: Missed MT indication on West Tower, Lift 3, DE Corner Seam weld**Description of Non-Conformance:**

During Magnetic Particle Testing (MT) of West Tower, Lift 3, DE corner seam weld WSTL3-4B/K-82A, QA discovered a linear indication of approximately 30mm in length near the 99 m Double Diaphragm (top plate). This weld had been previously tested and accepted by ZPMC NDT personnel (NDT Inspection Notification sheet # 004401).

**Applicable reference:**

Special Provisions Section 8.3 – “Quality Control (QC) shall be the responsibility of the Contractor. As a minimum, the Contractor shall perform inspection and testing of each weld joint prior to welding, during welding, and after welding as specified in this section and to ensure that materials and workmanship conform to the requirements of the contract documents.”

AWS D1.5-2002, Section 6.26.2 – “Welds that are subject to MT in addition to visual inspection shall have no cracks.”

Who discovered the problem: Umesh Gaikwad

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Name of individual from Contractor notified: You Yuan Mao

Time and method of notification: 10/14/2009, 16:15; Verbal

Name of Caltrans Engineer notified: Scott Kennedy

Time and method of notification: 10/16/2009, 9:30; E-mail

QC Inspector's Name: An Qing Xiang

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 Serge Sinevod, 134-8257-0045, who represents the Office of Structural Materials for your project.

Inspected By: Sinevod,Serge

ASMR

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 **Date:** 17-Oct-2009
 375 BURMA ROAD
 OAKLAND CA 95607 **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:** 05.03.06-000409
Subject: NCR No. ZPMC-0419
Reference Description: Missed Indication (MT) / West Shaft Lift 3 / DE Corner Seam Weld

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: Tower **Lift:** 03

Remarks:

During Magnetic Particle Testing (MT) of West Tower, Lift 3, DE corner seam weld WSTL3-4B/K-82A, QA discovered a linear indication of approximately 30mm in length near the 99 m Double Diaphragm (top plate). This weld had been previously tested and accepted by ZPMC NDT personnel (NDT Inspection Notification sheet # 004401).

Special Provisions Section 8.3 – “Quality Control (QC) shall be the responsibility of the Contractor. As a minimum, the Contractor shall perform inspection and testing of each weld joint prior to welding, during welding, and after welding as specified in this section and to ensure that materials and workmanship conform to the requirements of the contract documents.”
 AWS D1.5-2002, Section 6.26.2 – “Welds that are subject to MT in addition to visual inspection shall have no cracks.”

Action Required and/or Action Taken:

Propose a resolution for this systematic non-conformance that addresses the failure of Quality Control to identify the linear indication during magnetic particle testing of the weld. Provide documentation of the steps/actions taken by the Quality Control Manager to prevent future occurrences.

In addition to the Quality Control non-conformance, address the material/workmanship for the identified non-conformance including documentation that the deficiency has been brought into compliance with the contract requirements. Additionally address the probable causes for the indication and the actions that will be taken to limit future occurrences.

Recent failures by Quality Control to identify linear indications (MT) have resulted in the issuance of NCR ZPMC-0358, ZPMC-0359, ZPMC-0371, ZPMC-0372, ZPMC-0373, ZPMC-0375, ZPMC-0376, ZPMC-0377, ZPMC-383, ZPMC-0384, ZPMC 0386, ZPMC-0387, ZPMC-0388, ZPMC-0389, ZPMC-0390, ZPMC-0401, ZPMC-0408 and ZPMC-0413 related to Tower.

Transmitted by: Scott Kennedy Sr. Bridge Engineer

NCT

(Continued Page 2 of 2)

Attachments: ZPMC-0419

cc: Rick Morrow, Gary Pursell, Mark Woods, Doug Coe

File: 05.03.06

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000409

Subject: NCR No. ZPMC-0419

Dated: 23-Oct-2009

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000410 **Rev:** 00

Contractor's Proposed Resolution:

Reference Resolution: ABFJV QCM has implemented training with ZPMC. Topics to be covered: inspection of equipment prior to use, proper conditions for inspection, proper technique for MT, and UT.

ABFJV QCM has implemented training with ZPMC to improve the quality of inspections. ABFJV will provide documentation showing attendance by ZPMC QC inspectors and the subject of training. Topics to be covered during the instruction are: inspection of equipment prior to use, proper conditions for inspection, proper technique for MT, and UT. In addition, ABFJV has committed to perform overchecks in both the Tower and OBG. This will serve two purposes, first to monitor if the training is effective at reducing the number of missed indications and second to ensure missed indications are prevented.

Documentation of repairs and subsequent NDT specific to this report will be transmitted through Daily Welding Reports and will be available in the documentation data base. Based on this course of action, ZPMC is requesting that this proposed resolution be approved with action pending. Once training records are available to be transmitted, ZPMC will request closure of this NCR.

Submitted by:

Attachment(s): ABF-NPR-000410R00

Caltrans' comments:

Status: REJ

Date: 27-Oct-2009

Even though the course of action is acceptable, the Department will not consider closure of this NCR (ZPMC-419) until all the repair documents and training documents are submitted and reviewed.

Submitted by: Lee, Ken

Attachment(s): NPR CT Comments

Date: 27-Oct-2009

NCR PROPOSED RESOLUTION

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

Attention: Pursell, Gary
Resident Engineer

Ref: 05.03.06-000409

Subject: NCR No. ZPMC-0419

Dated: 23-Apr-2009

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

Job Name: SAS Superstructure

Document No.: ABF-NPR-000410 **Rev:** 01

Contractor's Proposed Resolution:

Reference Resolution: ZPMC is providing NDT documentation of the weld stated in the NCR showing that it is acceptable. Based on this ZPMC requests closure of this NCR.

The indication referenced in the NCR was not in the DE corner as the NCR stated but in the backfill plate, which had not been completed by ZPMC at the time. ZPMC spoke to a representative of the Department about this and it was agreed that the NCR should be rescinded. The NCR was still processed despite the outcome of the conversation and agreement to rescind the NCR. ZPMC is providing NDT documentation of the weld stated in the NCR showing that it is acceptable. Based on this ZPMC requests closure of this NCR.

Submitted by:

Attachment(s): ABF-NPR-000410R01;

Caltrans' comments:

Status: CLO

Date: 11-Dec-2009

The Department disagrees that the linear indication is on the diaphragm plate ("backfill plate") and in the future, in order to avoid any confusion, the Department recommends ZPMC to communicate with the proper task leader on any Tower issues. For clarification, the Department has verified that the repair was made in accordance with repair document submitted. As such, the Department concurs that Non-conformance ZPMC-0419 is closed.

Submitted by: Lee, Ken

Date: 11-Dec-2009

Attachment(s):



No. T-080

LETTER OF RESPONSE

TO: American Bridge/Flour JV

DATE: 2009-11-19

REGARDING: NCR-000446 (ZPMC-0419)

ZPMC received NCR-000446 (ZPMC-0419) , it mentioned that QA observed a linear indication approximately 30mm in length near the 99m Double Diaphragm(top plate) during MT checking of west tower, lift 3, DE corner seam.

The situation is like this :

1、 We ZPMC give the notification 4401 for the west tower lift 3 ED corner. From the photos of NCR everybody can see the linear indication not on the D/E corner ,it is on the backfill plate(WSTL3-4G/K-122), but at that time we ZPMC haven't done backfill plate already.

2、 At the first time ZPMC LI XIU YANG and the MT guy XUBING speak this thing to the CT Albort Carreon and Rodney Patterson and they agreed to cancel the NCR.

3、 About the backfill plate WSTL3-4G/K-122 ZPMC give the notification 4578 to the CT people ,and CT accepted the backfill plates.

As far as I am concerned ,CT should close this NCR.

ATTACHMENT:

NCR-000446 (ZPMC-0419)

NOTIFICATION: 4401,4578

REPORT OF MAGNETIC PARTICLE: T787-MT-6763

Li Xiu Yang

25. 11. 19.

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: 17-Oct-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: 05.03.06-000409

Subject: NCR No. ZPMC-0419

Reference Description: Missed Indication (MT) / West Shaft Lift 3 / DE Corner Seam Weld

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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- 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: Tower

Lift: 03

Remarks:

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Special Provisions Section 8.3 - "Quality Control (QC) shall be the responsibility of the Contractor. As a minimum, the Contractor shall perform inspection and testing of each weld joint prior to welding, during welding, and after welding as specified in this section and to ensure that materials and workmanship conform to the requirements of the contract documents."

AWS D1.5-2002, Section 6.26.2 - "Welds that are subject to MT in addition to visual inspection shall have no cracks."

Action Required and/or Action Taken:

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In addition to the Quality Control non-conformance, address the material/workmanship for the identified non-conformance including documentation that the deficiency has been brought into compliance with the contract requirements. Additionally address the probable causes for the indication and the actions that will be taken to limit future occurrences.

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Transmitted by: Scott Kennedy Sr. Bridge Engineer
02.02.15.04

Received
NCT-000409 19 Oct 09

05.03.06-000409,NCT

NCT

(Continued Page 2 of 2)

Attachments: ZPMC-0419

cc: Rick Morrow, Gary Pursell, Mark Woods, Doug Coe

File: 05.03.06

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 #: 04-0120F4
Cty: SF/ALA Rte: 80 PM: 13.2/13.9
File #: 69.25B

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

Location: Changxing Island, Shanghai, PRC

Report No: NCR-000446

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 14-Oct-2009

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

NCR #: ZPMC-0419

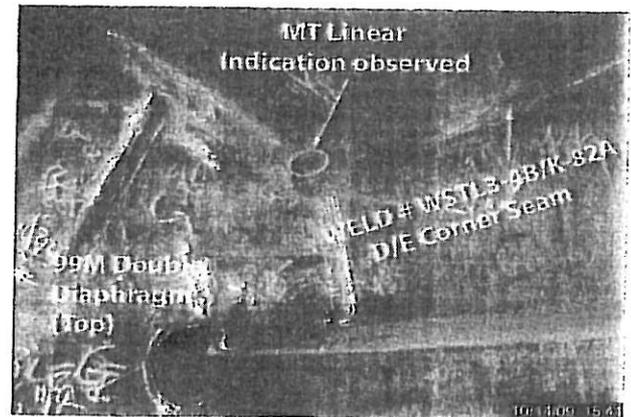
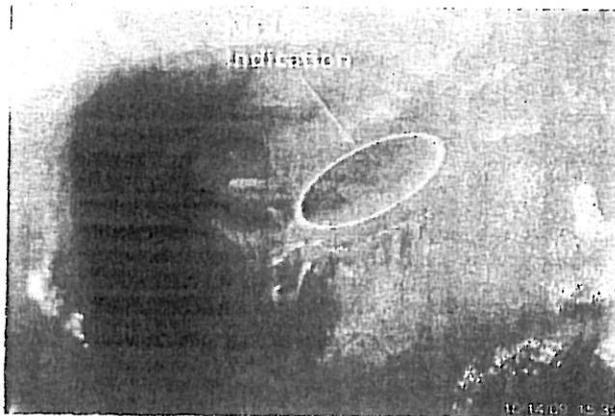
Type of problem:

Welding Concrete Other
Welding Curing Procedural Bridge No: 34-0006
Joint fit-up Coating Other Component: West Tower
Procedural Procedural Description: West Tower, Lift 3

Reference Description: Missed MT indication on West Tower, Lift 3, DE Corner Seam weld

Description of Non-Conformance:

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AWS D1.5-2002, Section 6.26.2 – “Welds that are subject to MT in addition to visual inspection shall have no cracks.”

Who discovered the problem: Umesh Gaikwad

QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)

Name of individual from Contractor notified: You Yuan Mao

Time and method of notification: 10/14/2009, 16:15; Verbal

Name of Caltrans Engineer notified: Scott Kennedy

Time and method of notification: 10/16/2009, 9:30; E-mail

QC Inspector's Name: An Qing Xiang

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 Serge Sinevod, 134-8257-0045, who represents the Office of Structural Materials for your project.

| | | |
|---------------|---------------|------|
| Inspected By: | Sinevod,Serge | ASMR |
|---------------|---------------|------|

| | | |
|--------------|--------------|-----|
| Reviewed By: | Wahbeh,Mazen | SMR |
|--------------|--------------|-----|



NDT客户检验通知单
NDT Inspection Notification Sheet

文件编号: 004578
Document No.

CT 计划赴检时间
CT Estimated
Inspection Time

申请递交时间:
Submit time:
2009-11-8 8:55

计划检验时间
Inspection Time

2009-11-8 9:30:00
FOR GREEN TAG

0930 hrs

0930 hrs

| 序号 No | 检验内容 Inspection | 待检验构件 Inspection part | 产品分类 Section | 检验场地 Place |
|----------|------------------------|--|--|--------------------------------------|
| 1 | final VT, MT for welds | DIAPHRAGM WITH SKIN A/B/C/D/E; FIT UP WITH DIAPHRAGM & SKIN A/B/C/D/E | WEST TOWER LIFT 3 99M DOUBLE DIAPHRAGM | OUTSIDE YARD (NEAR MILLING POSITION) |
| 2 | final VT, UT for welds | WSTL3-4G/K-38, 131 | WEST TOWER LIFT 3 AE CORNER BACKFILL | OUTSIDE YARD (NEAR MILLING POSITION) |
| 3 | final VT, MT for welds | WSTL3-4G/K-39, 40, 132, 133 | WEST TOWER LIFT 3 AE CORNER BACKFILL | OUTSIDE YARD (NEAR MILLING POSITION) |
| 4 | final VT, UT for welds | WSTL3-4G/K-25, 121 | WEST TOWER LIFT 3 DE CORNER BACKFILL | OUTSIDE YARD (NEAR MILLING POSITION) |
| 5 | final VT, MT for welds | WSTL3-4G/K-23, 24, 122, 123 | WEST TOWER LIFT 3 DE CORNER BACKFILL | OUTSIDE YARD (NEAR MILLING POSITION) |
| 6 | final VT, MT for welds | WSTL3-4G/K-54, 55, 44, 45, 31, 32, 29, 30 WD1-A6003-2 (FOR UNACCEPTABLE POSITION FROM NOTIFICATION 004549) | WEST TOWER LIFT 3 99M DOUBLE DIAPHRAGM | OUTSIDE YARD (NEAR MILLING POSITION) |
| 7 | UT AFTER REPAIR | | SPARE STRUT | BAY 11 |
| 8 | final VT, MT for welds | NSTL3-3C/K-23, 24, 103 | NORTH TOWER LIFT 3 DIAGONAL STIFFENER WITH DIAPHRAGM | open yard |
| 9 | final VT, MT for welds | NSTL3-3D/K-20, 21 | NORTH TOWER LIFT 3 DIAGONAL STIFFENER WITH DIAPHRAGM | open yard |
| 10 | final VT, MT for welds | NSTL3-3B/K-16, 17 | NORTH TOWER LIFT 3 DIAGONAL STIFFENER WITH DIAPHRAGM | open yard |

| | | | | | |
|------------------------|-----------------------------|--|-----------|---------------------------------|----------|
| Final VT, MT for welds | NSTL3-3F/K-19, 20, 96, 97 | NORTH TOWER LIFT 3 DIAGONAL STIFFENER WITH DIAPHRAGM | open yard | 2009-11-8 9:30:00 FOR GREEN TAG | 0930 hrs |
| Final VT, MT for welds | NSTL3-3G/K-20, 21, 114, 115 | NORTH TOWER LIFT 3 DIAGONAL STIFFENER WITH DIAPHRAGM | open yard | 2009-11-8 9:30:00 FOR GREEN TAG | 0930 hrs |
| Final VT, MT for welds | NSTL3-3H/K-19, 20, 95, 96 | NORTH TOWER LIFT 3 DIAGONAL STIFFENER WITH DIAPHRAGM | open yard | 2009-11-8 9:30:00 FOR GREEN TAG | |
| Final VT, MT for welds | NSTL3-3I/K-23, 24, 114, 115 | NORTH TOWER LIFT 3 DIAGONAL STIFFENER WITH DIAPHRAGM | open yard | 2009-11-8 9:30:00 FOR GREEN TAG | |
| Final VT, MT for welds | NSTL3-3J/K-19, 20 | NORTH TOWER LIFT 3 DIAGONAL STIFFENER WITH DIAPHRAGM | open yard | 2009-11-8 9:30:00 FOR GREEN TAG | |
| Final VT for welds | NSTL3-3K/K-1~13, 27~37 | NORTH TOWER LIFT 3 DIAGONAL STIFFENER WITH DIAPHRAGM | open yard | 2009-11-8 9:30:00 FOR GREEN TAG | |
| Final VT, MT for welds | NSDI-FCSA3-1B/C-68~77 | NORTH TOWER LIFT 3 PAD EYE | open yard | 2009-11-8 9:30:00 FOR GREEN TAG | |
| Final VT, MT for welds | NSTL3-3B/K-79, 80 | NORTH TOWER LIFT 3 DIAGONAL STIFFENER WITH SKIN B&C | open yard | 2009-11-8 9:30:00 FOR GREEN TAG | |

ZPMC 联系人: *Li Jimmy 4/8*
 Requested By:
 AB/F 签收人: *Candy Li*
 AB/F Receiver: *11-08-2009 08:54*
 签收时间: *11-08-09*
 Time: *08:54*
 CT 签收人: *Albert Carson*
 CT Receiver: *11-08-09*
 签收时间: *08:55 hrs*
 Time: *08:55 hrs*

1. 见证通知发出后, 现场等待时间通常不超过35分钟; 如有变动, 现场通知。
2. When ZPMC give this table to AB/F, ZPMC will do the inspection in 35 minutes. If we change the plan, we will inform AB/F in the shop.
3. ZPMC 根据自己的检验控制点 (HOLD POINT) 进行日常检验。
4. ZPMC will do any inspection according to the HOLD POINT.
5. 此单为临时试用单, 仅适用于完工焊缝的NDT检验见证通知。
6. This table is a temporary one, just for final NDT inspection notification.
7. QC 检验完成后, QA 是否需要复验, 由QA自行决定, QC 不再另行通知。复验等待时间通常为24小时。
8. When ZPMC QC finish NDT inspection, Caltrans QA can decide if they want to retest it.
9. ZPMC QC will not inform Caltrans again. The waiting time is 24 hours ordinarily.
10. AB/F 预约CT后会在同班时间内通知ZPMC具体CT现场报验时间
11. AB/F to notify ZPMC in the same shift that CT will attend and at what time.
12. 加州现场检验完成后会告知AB/F检验结果, AB/F会在24小时内告知ZPMC加州复验结果。
13. CT to notify AB/F that the work has been completed and the result. AB/F to notify ZPMC that the work has been completed and the result within 24 hours.



NDT客户检验通知单

NDT Inspection Notification Sheet

| | | | |
|-----------------------------|---|--|-------------------------------------|
| 文件编号:004401 Document No. | 申请递交时间: Submit time: 2009-10-14 14:15 | CT 计划赴检时间 CT Estimated Inspection Time | |
| 待检验构件 Inspection part | 产品类别 Section | 检验场地 Inspection Place | 计划检验时间 Inspection Time |
| 1 VT+MT | TOWER LIFT 3 ED CORNER | BAY 11 | 2009-10-14 14:45:00 GREEN TAG |
| 2 | | | |

1、见证通知发出后，现场等待时间通常不超过35分钟；如有变动，现场通知。

1、When ZPMC give this table to AB/F, Zpmc will do the inspection in 35 minutes. If we change the plan, we will inform AB/F in the shop.

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5、AB/F预约CT后会在同班时间内通知ZPMC具体CT现场报验时间

5、AB/F to notify ZPMC in the same shift that CT will attend and at what time.

6、加州现场检验完成后会告知AB/F检验结果，AB/F会在24小时内告知ZPMC加州复检结果。

6、CT to notify AB/F that the work has been completed and the result. AB/ to notify ZPMC that the work has been completed and the result within 24 hours.

ZPMC 联系人:
Requested By:

AB/F 签收人:
AB/F Receiver:

签收时间:
Time:

CT 签收人:
CT Receiver:

签收时间:
Time:

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 #: xx.25A**QUALITY ASSURANCE -- NON-CONFORMANCE RESOLUTION****Location:** Changxing Island, Shanghai, PRC**Report No:** NCS-000333**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 23-Nov-2009**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0419**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: 14-Oct-2009**Description of Non-Conformance:**

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Contractor's proposal to correct the problem:

Repair affected welds.

Corrective action taken:

The affected welds have been repaired, verified by QA, and green tagged. To resolve the recurring failure for QC to detect MT indications, ABFJV QCM has implemented training with ZPMC to improve quality of inspectors. Topics include: inspection of equipment prior to use, proper conditions for inspection, proper technique for MT & UT.

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, 134-8257-0045, who represents the Office of Structural Materials for your project.

Inspected By: Sinevod, Serge

Quality Assurance Inspector

Reviewed By: Wahbeh, Mazen

QA Reviewer