

**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, P.R. China**Report No:** NCR-000561**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 21-Dec-2009**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0534**Type of problem:****Welding****Concrete****Other****Welding****Curing****Procedural****Bridge No:** 34-0006**Joint fit-up****Coating****Other****Component:** Side Panel at Segment 9AW**Procedural****Procedural****Description:**

**Reference Description:** ZPMC performed base metal repairs at Segment 9AW without the Engineer's approval

**Description of Non-Conformance:**

During the Quality Assurance (QA) random in-process visual inspection of Segment 9AW, this QA inspector discovered the following issue:

-Base metal repairs being performed in way of temporary attachment removal areas on the side plate without the prior approval of the engineer.

The plate identifications under repair is identified as:

-SP490A, Plate number-PL648A

-The material is A709 Grade 345 non SPCM:

-OBG Segment 9AW is located in the segment yard north of Bay 17.

**Applicable reference:**

Caltrans Special Provision Section 8-3.01: "The Engineer shall be notified immediately in writing when welding problems, deficiencies, base metal repairs, or any other type of repairs not submitted in the WQCP are discovered and also of the proposed repair procedures to correct them. For requests to perform repairs,

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## QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

( Continued Page 2 of 2 )

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The contractor shall include an engineering evaluation of the proposed repair.”

ZPMC Welding Quality Control Plan, Section 9.2.1.2: “Prior approval of the Engineer shall be obtained for repairs to base metal other than what was identified in Section 9.2.1.1 of this manual and the repair of all other cracks.”

AWS D1.5/2002, Section 3.7.4: “Prior approval of the Engineer shall be obtained for repairs to base metal.”

**Who discovered the problem:** Mike Hasler

**Name of individual from Contractor notified:** Li Man Kit

**Time and method of notification:** 0955 hours, 12-21-09, Verbal

**Name of Caltrans Engineer notified:** Ching Chao and Bill Howe

**Time and method of notification:** 1100 hours, 12-21-09, Verbal

**QC Inspector's Name:** Wang Wei Ming

**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 Mazen Wahbeh, +(86) 134.7247.7571, who represents the Office of Structural Materials for your project.

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**Inspected By:** Carreon,Albert

Lead Reviewer/Task Leader

**Reviewed By:** Wahbeh,Mazen

SMR

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**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:** 25-Dec-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:** 05.03.06-000522

**Subject:** NCR No. ZPMC-0534

**Reference Description:** ZPMC performed base metal repairs at Segment 9AW without the Engineer's approval

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:** 09

**Remarks:**

During the Quality Assurance (QA) random in-process visual inspection of Segment 9AW, this QA inspector discovered the following issue:

-Base metal repairs being performed in way of temporary attachment removal areas on the side plate without the prior approval of the engineer.

The plate identifications under repair is identified as:

- SP490A, Plate number-PL648A
- The material is A709 Grade 345 non SPCM:
- OBG Segment 9AW is located in the segment yard north of Bay 17.

**Action Required and/or Action Taken:**

On subsequent base metal repairs, notify the engineer prior to the start of the work. Provide weld test information to the engineer. A response for the resolution of this issue is expected within 7 days.

**Transmitted by:** Bill Howe

**Attachments:** ZPMC-0534

**cc:** Rick Morrow, Gary Pursell, Peter Siegenthaler, Stanley Ku, Brian Boal, Jason Tom, Contract Files, Ching Chao

**File:** 05.03.06

## NCR PROPOSED RESOLUTION

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

**Dated:** 31-Dec-2009

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

**Attention:** Pursell, Gary  
Resident Engineer

**Job Name:** SAS Superstructure

**Document No.:** ABF-NPR-000453 **Rev:** 00

**Ref:** 05.03.06-000522

**Subject:** NCR No. ZPMC-0534

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### Contractor's Proposed Resolution:

**Reference Resolution:** The attached procedure, TA100 is an approved procedure to perform repairs for non SPCM temporary attachment areas, therefore, ZPMC requests this NCR to be withdrawn or closed.

This NCR states that base metal repair was performed without Engineers approval, however, ABFJV and ZPMC request CT to direct their attention to procedure TA100 showing an approved as noted and signature by CT on 7 Sept. 09. The attached procedure, TA100 is an approved procedure to perform repairs for non SPCM temporary attachment areas, therefore, ZPMC requests this NCR to be withdrawn or closed.

**Submitted by:** Lawton, Steve

**Attachment(s):** ABF-NPR-000453R00;

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### Caltrans' comments:

**Status:** REJ

**Date:** 06-Jan-2010

TA100 says: "Note: 100%MT will be performed on the surface where the attachment has been removed." No MT results were attached to this NPR and therefore, this NPR is rejected.

**Submitted by:** Howe, Bill

**Date:** 06-Jan-2010

**Attachment(s):**



No. B-540

## LETTER OF RESPONSE

**TO: American Bridge/Flour**

**DATE: 2009-12-31**

**REGARDING: NCR-000239(ZPMC-0213)**

With this letter of response, ZPMC requests withdraw of CALTRANS NCR-000561(ZPMC-0534) what mentioned that QA observed base metal repairs without the Engineer's approval.

The QA inspector discovered this issue and awarded this was non SPCM base metal repair after removal of temporary attachments. Before ZPMC performed such repairing work, ZPMC has got an approved repair procedure. So ZPMC think a misunderstanding of the requirement to notify the engineer prior to base metal repair occurred.

So ZPMC provides the Temporary Attachment Removal Procedure, hoping CALTRANS could take a review and consider **withdraw** this NCR.

**ATTACHMENT:**

NCR-000561(ZPMC-0534)

Temporary Attachment Removal Procedure

A handwritten signature in black ink, appearing to be 'J. M. W.' or similar, written in a cursive style.

12/31/09



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:** 25-Dec-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:** 05.03.06-000522  
**Subject:** NCR No. ZPMC-0534

**Reference Description:** ZPMC performed base metal repairs at Segment 9AW without the Engineer's approval

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:** 09

### Remarks:

During the Quality Assurance (QA) random in-process visual inspection of Segment 9AW, this QA inspector discovered the following issue:

-Base metal repairs being performed in way of temporary attachment removal areas on the side plate without the prior approval of the engineer.

The plate identifications under repair is identified as:

-SP490A, Plate number-PL648A

-The material is A709 Grade 345 non SPCM:

-OBG Segment 9AW is located in the segment yard north of Bay 17.

### Action Required and/or Action Taken:

On subsequent base metal repairs, notify the engineer prior to the start of the work. Provide weld test information to the engineer. A response for the resolution of this issue is expected within 7 days.

**Transmitted by:** Bill Howe

**Attachments:** ZPMC-0534

**cc:** Rick Morrow, Gary Pursell, Peter Siegenthaler, Stanley Ku, Brian Boal, Jason Tom, Contract Files, Ching Chao  
**File:** 05.03.06

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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, P.R. China

**Report No:** NCR-000561

**Prime Contractor:** American Bridge/Fluor Enterprises, a JV

**Date:** 21-Dec-2009

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

**NCR #:** ZPMC-0534

**Type of problem:**

- Welding  Concrete  Other
- Welding  Curing  Procedural
- Joint fit-up  Coating  Other
- Procedural  Procedural  Description:

**Bridge No:** 34-0006

**Component:** Side Panel at Segment 9AW

**Reference Description:** ZPMC performed base metal repairs at Segment 9AW without the Engineer's approval

**Description of Non-Conformance:**

During the Quality Assurance (QA) random in-process visual inspection of Segment 9AW, this QA inspector discovered the following issue:

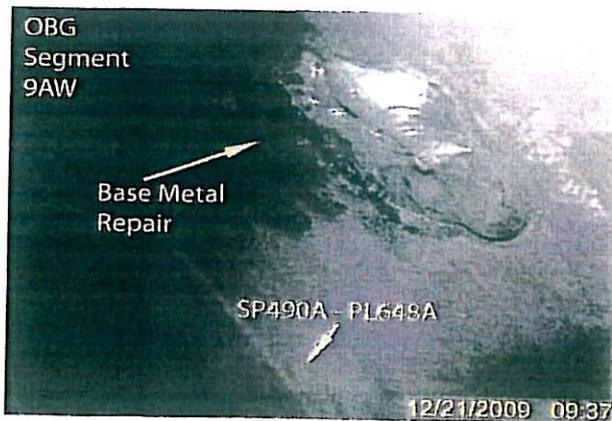
-Base metal repairs being performed in way of temporary attachment removal areas on the side plate without the prior approval of the engineer.

The plate identifications under repair is identified as:

-SP490A, Plate number-PL648A

-The material is A709 Grade 345 non SPCM:

-OBG Segment 9AW is located in the segment yard north of Bay 17.



**Applicable reference:**

Caltrans Special Provision Section 8-3.01: "The Engineer shall be notified immediately in writing when welding problems, deficiencies, base metal repairs, or any other type of repairs not submitted in the WQCP are discovered and also of the proposed repair procedures to correct them. For requests to perform repairs,

## QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

( Continued Page 2 of 2 )

The contractor shall include an engineering evaluation of the proposed repair."

ZPMC Welding Quality Control Plan, Section 9.2.1.2: "Prior approval of the Engineer shall be obtained for repairs to base metal other than what was identified in Section 9.2.1.1 of this manual and the repair of all other cracks."

AWS D1.5/2002, Section 3.7.4: "Prior approval of the Engineer shall be obtained for repairs to base metal."

Who discovered the problem: Mike Hasler

Name of individual from Contractor notified: Li Man Kit

Time and method of notification: 0955 hours, 12-21-09, Verbal

Name of Caltrans Engineer notified: Ching Chao and Bill Howe

Time and method of notification: 1100 hours, 12-21-09, Verbal

QC Inspector's Name: Wang Wei Ming

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 Mazen Wahbeh, +(86) 134.7247.7571, who represents the Office of Structural Materials for your project.

Inspected By: Carreon,Albert

Lead Reviewer/Task Leader

Reviewed By: Wahbeh,Mazen

SMR

John F. Hall to 274 7-7-07

212110



## NCR PROPOSED RESOLUTION

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

**Attention:** Pursell, Gary  
Resident Engineer

**Ref:** 05.03.06-000522

**Subject:** NCR No. ZPMC-0534

**Dated:** 08-Feb-2010

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

**Job Name:** SAS Superstructure

**Document No.:** ABF-NPR-000453 Rev: 01

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### Contractor's Proposed Resolution:

**Reference Resolution:** ZPMC-0534 was written based on the inspector's belief that ZPMC was performing an unapproved base metal repair. In fact, these types of repairs do not require Engineer approval.

ZPMC-0534 was written based on the inspector's belief that ZPMC was performing an unapproved base metal repair. In fact, these types of repairs do not require Engineer approval only notification and a weld repair report on site, as agreed by all parties in China. ZPMC was repairing the base metal where temporary attachments were removed in accordance with TA-100 therefore an NCR was not warranted. ZPMC requests closure of this NCR based on this.

**Submitted by:** Ishibashi, Joshua

**Attachment(s):** ABF-NPR-000453R01

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### Caltrans' comments:

**Status:** CLO

**Date:** 09-Feb-2010

Based on previous China agreement this NCR is closed.

**Submitted by:** Howe, Bill

**Attachment(s):** NPR CT Comments

**Date:** 09-Feb-2010

## NCR PROPOSED RESOLUTION

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

**Attention:** Pursell, Gary  
Resident Engineer

**Ref:** 05.03.06-000522

**Subject:** NCR No. ZPMC-0534

**Dated:** 04-May-2010

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

**Job Name:** SAS Superstructure

**Document No.:** ABF-NPR-000453 Rev: 02

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**Contractor's Proposed Resolution:**

**Reference Resolution:** Per the NCT, ZPMC is providing the test data to show the weld is acceptable. Based on this ZPMC requests closure of this NCR.

ZPMC acknowledges that a CWR must be issued for all base metal repairs. An internal NCR documenting this has been written to further reinforce this. Per the NCT, ZPMC is providing the test data to show the weld is acceptable. Based on this ZPMC requests closure of this NCR.

**Submitted by:** Ishibashi, Joshua

**Attachment(s):** ABF-NPR-000453R02;

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**Caltrans' comments:**

**Status:** CLO

**Date:** 05-May-2010

This proposed resolution is acceptable. The documentation received is sufficient and the Department concurs that Non-Conformance ZPMC-0534 is closed.

**Submitted by:** Eagen, Sean

**Attachment(s):**

**Date:** 05-May-2010



No. B-743

## LETTER OF RESPONSE

**TO:** American Bridge/Flour

**DATE:** 2010-5-14

**REGARDING:** NCR-000561(ZPMC-0534)

ZPMC misunderstood the requirement to write a WRR before performing the base metal repair on NON-SPCM. ZPMC acknowledges this issue and has written internal NCR and ZPMC QA department has instructed this requirement to the quality & production departments. MT was performed to ensure the soundness of this repair. For the same cases in future a WRR/CWR will be released prior to the performing of base metal repair to document the repair information. ZPMC is providing the MT report and requesting the closure of this NCR.

**ATTACHMENT:**

NCR-000561(ZPMC-0534)

B787-MT-22692

*Handwritten signature*  
5/14/10

增進修后MT



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:** 25-Dec-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:** 05.03.06-000522

**Subject:** NCR No. ZPMC-0534

**Reference Description:** ZPMC performed base metal repairs at Segment 9AW without the Engineer's approval

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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**Material Location:** OBG

**Lift:** 09

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The plate identifications under repair is identified as:

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**Action Required and/or Action Taken:**

On subsequent base metal repairs, notify the engineer prior to the start of the work. Provide weld test information to the engineer. A response for the resolution of this issue is expected within 7 days.

**Transmitted by:** Bill Howe

**Attachments:** ZPMC-0534

**cc:** Rick Morrow, Gary Pursell, Peter Siegenthaler, Stanley Ku, Brian Boal, Jason Tom, Contract Files, Ching Chao

**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, P.R. China**Report No:** NCR-000561**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 21-Dec-2009**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**NCR #:** ZPMC-0534**Type of problem:**Welding  Concrete  Other Welding  Curing  Procedural **Bridge No:** 34-0006Joint fit-up  Coating  Other **Component:** Side Panel at Segment 9AWProcedural  Procedural  Description:**Reference Description:** ZPMC performed base metal repairs at Segment 9AW without the Engineer's approval**Description of Non-Conformance:**

During the Quality Assurance (QA) random in-process visual inspection of Segment 9AW, this QA inspector discovered the following issue:

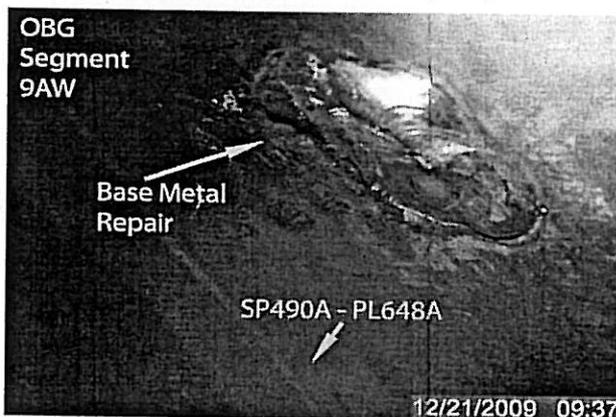
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## QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

( Continued Page 2 of 2 )

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The contractor shall include an engineering evaluation of the proposed repair.”

ZPMC Welding Quality Control Plan, Section 9.2.1.2: “Prior approval of the Engineer shall be obtained for repairs to base metal other than what was identified in Section 9.2.1.1 of this manual and the repair of all other cracks.”

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**Time and method of notification:** 0955 hours, 12-21-09, Verbal

**Name of Caltrans Engineer notified:** Ching Chao and Bill Howe

**Time and method of notification:** 1100 hours, 12-21-09, Verbal

**QC Inspector's Name:** Wang Wei Ming

**Was QC Inspector aware of the problem:**  Yes  No

**Contractor's proposal to correct the problem:**

N/A

**Comments:**

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**Inspected By:** Carreon,Albert

Lead Reviewer/Task Leader

**Reviewed By:** Wahbeh,Mazen

SMR

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REPORT OF MAGNETIC PARTICLE EXAMINATION

磁粉检测报告

REPORT NO. 报告编号 B787-MT-22692      DATE日期 2010.01.28      PAGE OF页码 1/1      Revision No: 0

PROJECT NO.      ZP06-787      CONTRACTOR:      CALTRANS  
 工程编号:      用户:

DRAWING NO.      SP490A      CALTRANS CONTRACT NO.:      04-0120F4  
 图号:      BOTTOM PLATE TEMPORARY ATTACHMENT      加州工程编号

REFERENCING CODE      ACCEPTANCE STANDARD      PROCEDURE NO.      CALIBRATION DUE DATE  
 参考规范编码      接受标准      程序编号      仪器校正有效期  
 AWS D1.5-2002      AWS D1.5-2002      ZPQC-MT-01      Dec. 28<sup>ST</sup>, 2010

EQUIPMENT 设备      MANUFACTURER 制造商      MODEL NO. 样式编号      SERIAL NO. 连续编号  
 MT YOKE      PARKER      B310S      5395 5617 5620

MAGNETIZING METHOD      Continuous magnetic yoke      CURRENT      AC  
 磁化方法      磁轭式连续法      电流

PARTICLE TYPE      Dry magnet powder      YOKE SPACING      70~150mm  
 磁粉类型      干磁粉      磁轭间距

MATERIAL TO BE EXAMINED      √ WELDING 焊接件      Material & thickness      A709M-345T2-X  
 检测材料       CASTING 铸件      母材,厚度      150 mm  
     FORGING 锻造

WELDING PROCESS      NA      TYPE OF JOINT      NA  
 焊接方法      焊缝类型

WELD I.D. 焊缝编号	DISCONTINUITY不连续性			ACCEPT 接受	REJECT 拒收	REMARKS 备注
	INDICATION 指示	TYPE 类型	LENGTH IN mm 长度			
PL648A				ACC.		100%MT

BASE METAL PER B-WR 12581

BLANK

EXAMINED BY主操 <i>Sam Kong Chang</i> LEVEL-II SIGN 签名 / DATE日期 10.01.28 质量经理 / QCM	REVIEWED BY 审核 <i>Hong Ting</i> LEVEL-II SIGN / DATE日期 10.01.28 用户CUSTOMER
签字 SIGN / 日期 DATE	签字 SIGN / 日期 DATE

**DEPARTMENT OF TRANSPORTATION**

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(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, P.R. China**Report No:** NCS-000508**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 10-Feb-2010**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0534**Type of problem:**

<b>Welding</b>	<b>Concrete</b>	<b>Other</b>	
<b>Welding</b>	<b>Curing</b>	<b>Procedural</b>	<b>Bridge No:</b> 34-0006
<b>Joint fit-up</b>	<b>Coating</b>	<b>Other</b>	<b>Component:</b>
<b>Procedural</b>	<b>Procedural</b>	<b>Descriptor:</b>	

**Date the Non-Conformance Report was written:** 21-Dec-2009**Description of Non-Conformance:**

During the Quality Assurance (QA) random in-process visual inspection of Segment 9AW, this QA inspector discovered the following issue:

-Base metal repairs being performed in way of temporary attachment removal areas on the side plate without the prior approval of the engineer.

The plate identifications under repair is identified as:

-SP490A, Plate number-PL648A

-The material is A709 Grade 345 non SPCM:

-OBG Segment 9AW is located in the segment yard north of Bay 17.

**Contractor's proposal to correct the problem:**

None Required

**Corrective action taken:**

Per recent discussions between ABF and the Department, a WRR will be sufficient documentation for base metal repairs at temporary attachment locations for non SPCM materials. The Engineer will be given verbal notification while NDT is in process and upon acceptance of the repairs.

**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 Jim Simonis 152. 1675.3703, who represents the Office of Structural Materials for your project.

**Inspected By:** Simonis, Jim

Quality Assurance Inspector

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# QUALITY ASSURANCE -- NON-CONFORMANCE RESOLUTION

( Continued Page 2 of 2 )

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**Reviewed By:** Wahbeh,Mazen

QA Reviewer