

**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

**Report No:** NCR-000369

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

**Date:** 28-Jun-2009

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

**NCR #:** ZPMC-0343

### 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> Deck Panels
<b>Procedural</b>	<b>Procedural</b>	<b>Description:</b>	

**Reference Description:** DP097-001, DP313-001, DP503-001

### Description of Non-Conformance:

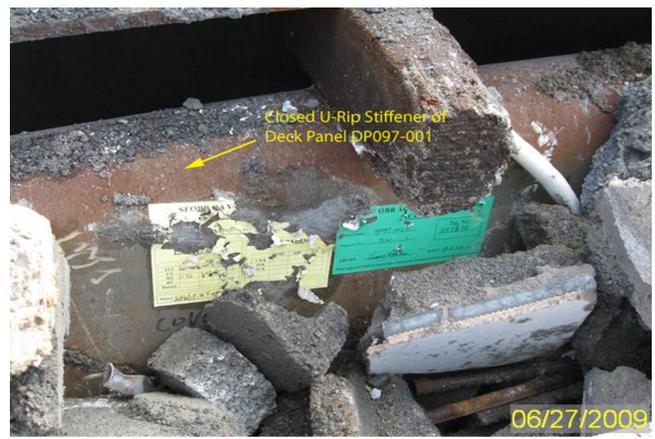
Caltrans Quality Assurance (QA) Inspector observed storage of deck panel material that appears to be inconsistent with project requirements. The materials observed are Deck Panels with Green Tag numbers assigned that are being stored in the alley adjacent to Bay 13. The Deck Panels are identified as follows:

DP097-001 – Green Tag No. 7830 – Dated 05.24.09

DP313-001 – Green Tag No. 7820 – Dated 05.15.09

DP503-001 – Green Tag No. 7817 – Dated 05.13.09

See pictures below for further details.



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# QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

( Continued Page 2 of 2 )

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### Applicable reference:

Standard Specifications Section 6-1.03, 'STORAGE OF MATERIALS': "Articles or materials to be incorporated in the work shall be stored in such a manner as to ensure the preservation of their quality and fitness for the work, and to facilitate inspection."

**Who discovered the problem:** Rory O'Kane

**Name of individual from Contractor notified:** CK Chan

**Time and method of notification:** 09:40, Email

**Name of Caltrans Engineer notified:** Stanley Ku

**Time and method of notification:** 19:00, Verbal

**QC Inspector's Name:** Xu 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 Mazen Wahbeh,(818) 292-0659, who represents the Office of Structural Materials for your project.

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**Inspected By:** Simonis,Jim

QA Inspector

**Reviewed By:** Wahbeh,Mazen

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:** 04-Aug-2009

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

**Dear:** Mr. Charles Kanapicki  
**Attention:** Mr. Thomas Nilsson Project/Fabrication Manager  
**Subject:** NCR No. ZPMC-0343  
**Reference Description:** DP097-001, DP313-001, DP503-001

**Job Name:** SAS Superstructure  
**Document No:** 05.03.06-000322

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:** N/A

### Remarks:

Caltrans Quality Assurance (QA) Inspector observed storage of deck panel material that appears to be inconsistent with project requirements. The materials observed are Deck Panels with Green Tag numbers assigned that are being stored in the alley adjacent to Bay 13. The Deck Panels are identified as follows:

- DP097-001 – Green Tag No. 7830 – Dated 05.24.09
- DP313-001 – Green Tag No. 7820 – Dated 05.15.09
- DP503-001 – Green Tag No. 7817 – Dated 05.13.09

See attached NCR No. ZPMC-0343 for details.

### Action Required and/or Action Taken:

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

**Transmitted by:** Ching Chao

**Attachments:** ZPMC-0343

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

## NCR PROPOSED RESOLUTION

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

**Attention:** Pursell, Gary  
Resident Engineer

**Ref:** 05.03.06-000322

**Subject:** NCR No. ZPMC-0343

**Dated:** 24-Aug-2009

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

**Job Name:** SAS Superstructure

**Document No.:** ABF-NPR-000339 Rev: 00

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### Contractor's Proposed Resolution:

**Reference Resolution:** ABFJV has taken the ZPMC QA supervisors to this area to physically show them this poor storage/handling practice.

ABFJV has taken the ZPMC QA supervisors to this area to physically show them this poor storage/handling practice. ZPMC QA then notified the relative personnel to move these deck panels to a more suitable area. ZPMC will perform a visual inspection for handling damage and submit for closure of this NCR at a later date.

**Submitted by:**

**Attachment(s):** ABF-NPR-000339R00

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**Caltrans' comments:**

**Status:** AAP

**Date:** 28-Aug-2009

The response is acceptable, but the Non-Conformance is not closed.

Please provide documentation of the inspection for handling damage mentioned above. The Department will review the Contractor's proposal to close Non-Conformance ZPMC-0343 at that time.

**Submitted by:** Wright, Doug

**Date:** 28-Aug-2009

**Attachment(s):**

## NCR PROPOSED RESOLUTION

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

**Attention:** Pursell, Gary  
Resident Engineer

**Ref:** 05.03.06-000322

**Subject:** NCR No. ZPMC-0343

**Dated:** 14-Dec-2009

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

**Job Name:** SAS Superstructure

**Document No.:** ABF-NPR-000339 Rev: 01

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**Contractor's Proposed Resolution:**

**Reference Resolution:** ZPMC is providing visual testing record of the plates to show that they were acceptable prior to being incorporated into their respective segments. Based on this, ZPMC requests closure of this NCR.

ZPMC QA has issued an internal NCR to its Production Department to inform them of the need to properly store fabricated components and to enhance storage controls of SFOBB fabricated components. ZPMC is providing visual testing record of the plates to show that they were acceptable prior to being incorporated into their respective segments. Based on this, ZPMC requests closure of this NCR.

**Submitted by:** Ishibashi, Joshua

**Attachment(s):** ABF-NPR-000339R01;

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**Caltrans' comments:**

**Status:** REJ

**Date:** 21-Dec-2009

The NPR does not mention any measures to address storage. Provide information indicating that the storage issue has been addressed.

**Submitted by:** Howe, Bill

**Date:** 21-Dec-2009

**Attachment(s):**



No. B-525

## LETTER OF RESPONSE

**TO: American Bridge/Flour**

**DATE: 2009-12-11**

**REGARDING: NCR-000369 (ZPMC-0343)**

With this letter of response, ZPMC requests closure for CALTRANS NCR-000369(ZPMC-0343) what mentioned that QA observed improperly storage of several Deck Panels.

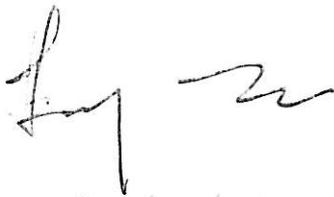
ZPMC acknowledged this problem and has issued internal NCR to warn ZPMC Production Department. To make sure no damage was caused by the improperly storage method, VT was performed before these panel be assembled in Segments.

So ZPMC provide internal NCR and VT documentations, hoping CALTRANS could take a review and consider close the NCR.

**ATTACHMENT:**

NCR-B-236

NCR-000369(ZPMC-0343)

  
12/11/09

A handwritten signature in black ink is present, followed by the date "12/11/09" written below it.



# Nonconformance Report

## 不符合项报告

Project Name: S.F.O.B.B		NCR Number:	
项目名称: 美国加州海湾大桥		NCR 编号: NCR-B-236(ZPMC-0343)	
Item: Storage 名称描述: 顶板乱堆放		Item Number: 件号: N/A	Drawing: DP097-001, DP313-001, DP503-001
Location: 位置: Bay 13		Date: 日期: 2009-08-18	

**Description of Nonconformance:**  
不符合项状态描述:

Caltrans Quality Assurance Inspector observed storage of deck panel material that appears to be inconsistent with project requirements, The materials observed are Deck Panel with green tag numbers assigned that are being stored in the alley adjacent to Bay 13, The Deck Panel are identified as follows:

DP097-001-Green Tag No.7830-Dated 05.24.09  
 DP313-001-Green Tag No.7820-Dated 05.15.09  
 DP503-001-Green Tag No.7817-Dated 05.13.09

加州检验员发现顶板乱堆乱放, 这些贴了绿标签的顶板被放在第13跨车间边上的。板编号如下:

DP097-001-Green Tag No.7830-Dated 05.24.09  
 DP313-001-Green Tag No.7820-Dated 05.15.09  
 DP503-001-Green Tag No.7817-Dated 05.13.09

Work By: Shijianyang Prepared by: Wang Reviewed by QCE: zhao shuangbao  
 施工方: 8.18 准备: 8.18 质量工程师批准: 8.18

Drawing Error  Material Defect  Fabrication Error  Other 8.18  
 图纸错误 材料缺陷 制作错误 其他原因

Disposition:  Use as is  Repair  Reject  
 处理措施: 回用 返修 拒收

**Recommendation:**  
建议:

Prepared by: \_\_\_\_\_ Approved by QCA: \_\_\_\_\_  
 准备 质量经理批准

**Reason for Nonconformance:**  
不符合原因: 顶板乱堆乱放  
Deck plate stored inconsistent.

预防措施: 加强美国加州海湾大桥单元堆放处管理  
Enhance management American Bridge plate pannel storage.

Approved by/批准: 李友明

Technical Justification for Use-As-Is/Repair:  Attachment  Non-attachment  
 回用或返修的技术依据: 附件 无附件

Reviewed /批准: \_\_\_\_\_

Verification:  Acceptable  Unacceptable  
 确认: 可接受 不可接受



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:** 04-Aug-2009

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

**Dear:** Mr. Charles Kanapicki  
**Attention:** Mr. Thomas Nilsson Project/Fabrication Manager  
**Subject:** NCR No. ZPMC-0343  
**Reference Description:** DP097-001, DP313-001, DP503-001

**Job Name:** SAS Superstructure  
**Document No:** 05.03.06-000322

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:** OBG

**Lift:** N/A

**Remarks:**

Caltrans Quality Assurance (QA) Inspector observed storage of deck panel material that appears to be inconsistent with project requirements. The materials observed are Deck Panels with Green Tag numbers assigned that are being stored in the alley adjacent to Bay 13. The Deck Panels are identified as follows:

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- DP313-001 – Green Tag No. 7820 – Dated 05.15.09
- DP503-001 – Green Tag No. 7817 – Dated 05.13.09

See attached NCR No. ZPMC-0343 for details.

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

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

**Transmitted by:** Ching Chao

**Attachments:** ZPMC-0343

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

**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF ENGINEERING SERVICES**  
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Bay Area Branch  
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 (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

Report No: NCR-000369

Prime Contractor: American Bridge/Fluor Enterprises, a JV

Date: 28-Jun-2009

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

NCR #: ZPMC-0343

**Type of problem:**

Welding  Concrete  Other   
 Welding  Curing  Procedural  Bridge No: 34-0006  
 Joint fit-up  Coating  Other  Component: Deck Panels  
 Procedural  Procedural  Description:

Reference Description: DP097-001, DP313-001, DP503-001

**Description of Non-Conformance:**

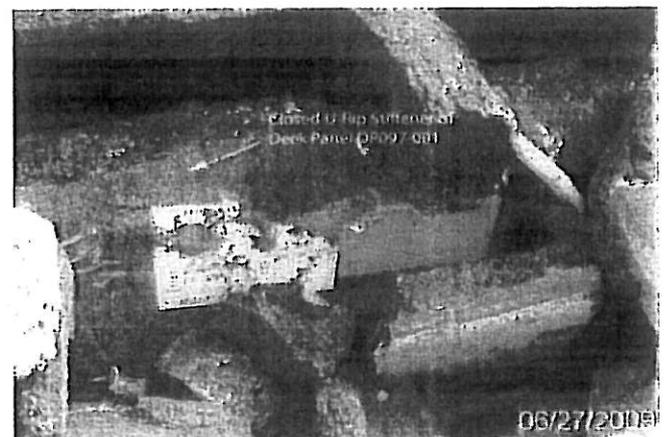
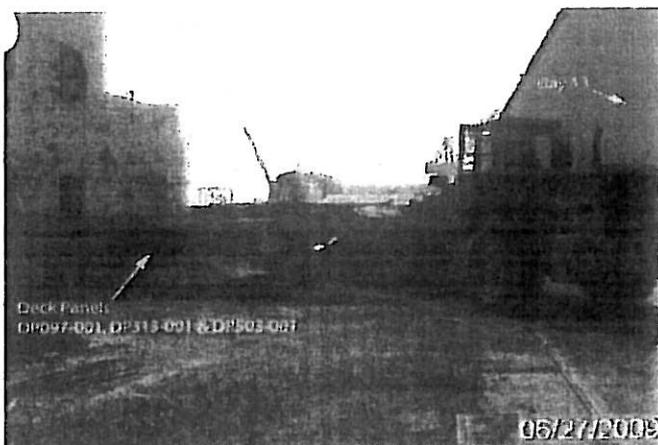
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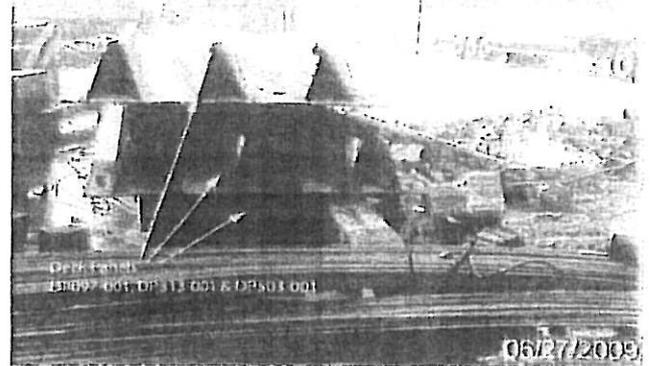
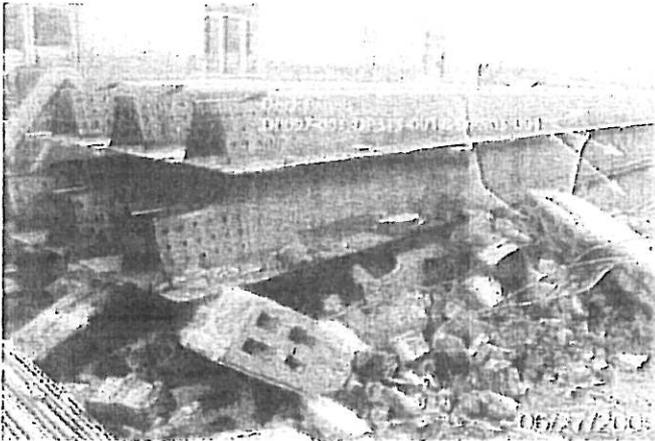
DP503-001 – Green Tag No. 7817 – Dated 05.13.09

See pictures below for further details.



# QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

(Continued Page 2 of 2)



### Applicable reference:

Standard Specifications Section 6-1.03, 'STORAGE OF MATERIALS': "Articles or materials to be incorporated in the work shall be stored in such a manner as to ensure the preservation of their quality and fitness for the work, and to facilitate inspection."

**Who discovered the problem:** Rory O'Kane

**Name of individual from Contractor notified:** CK Chan

**Time and method of notification:** 09:40, Email

**Name of Caltrans Engineer notified:** Stanley Ku

**Time and method of notification:** 19:00, Verbal

**QC Inspector's Name:** Xu 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 Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural Materials for your project.

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**Inspected By:** Simonis, Jim

QA Inspector

**Reviewed By:** Wahbeh, Mazen

SMR







## NCR PROPOSED RESOLUTION

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

**Dated:** 08-Feb-2010

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

**Attention:** Pursell, Gary  
Resident Engineer

**Job Name:** SAS Superstructure

**Document No.:** ABF-NPR-000339 Rev: 02

**Ref:** 05.03.06-000322

**Subject:** NCR No. ZPMC-0343

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### Contractor's Proposed Resolution:

**Reference Resolution:** Please refer to ABF-NPR-000339 Rev. 0 in which measures to address storage were provided to the Department. Based on that response and the previously submitted documentation.

Please refer to ABF-NPR-000339 Rev. 0 in which measures to address storage were provided to the Department. Based on that response and the previously submitted documentation. ZPMC requests closure of this NCR.

**Submitted by:** Ishibashi, Joshua

**Attachment(s):** ABF-NPR-000339R02

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### Caltrans' comments:

**Status:** CLO

**Date:** 08-Feb-2010

NPR 339R0 documentation is sufficient to close this NCR.

**Submitted by:** Howe, Bill

**Date:** 08-Feb-2010

**Attachment(s):**

**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**Report No:** NCS-000507**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**Date:** 09-Feb-2010**Submitting Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **NCR #:** ZPMC-0343**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>Description:</b>	

**Date the Non-Conformance Report was written:** 28-Jun-2009**Description of Non-Conformance:**

Caltrans Quality Assurance (QA) Inspector observed storage of deck panel material that appears to be inconsistent with project requirements. The materials observed are Deck Panels with Green Tag numbers assigned that are being stored in the alley adjacent to Bay 13. The Deck Panels are identified as follows:

DP097-001 – Green Tag No. 7830 – Dated 05.24.09

DP313-001 – Green Tag No. 7820 – Dated 05.15.09

DP503-001 – Green Tag No. 7817 – Dated 05.13.09

See pictures below for further details.

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

Correct storage issue by removing debris and moving Deck Panels to a more suitable location. Perform VT to determine if Deck Panels were damaged from debris.

**Corrective action taken:**

Debris was removed from storage area and deck panels have since been installed in OBG Segments. Contractor submitted documentation of VT verifying the Deck Panels are in conformance with Contract specifications.

**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.

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# QUALITY ASSURANCE -- NON-CONFORMANCE RESOLUTION

( Continued Page 2 of 2 )

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**Inspected By:** Simonis,Jim

Quality Assurance Inspector

**Reviewed By:** Wahbeh,Mazen

QA Reviewer