

**DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES  
MATERIALS ENGINEERING AND TESTING 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

FAX: (707) 649-5493

Contract #: **04-0120E4**  
Cty **SF** Rte **80** PM **13.4/13.8.**  
File # **45.25 B****QUALITY ASSURANCE - NONCONFORMANCE REPORT**Location: **Ingleside, Texas**

Date: January 10, 2007

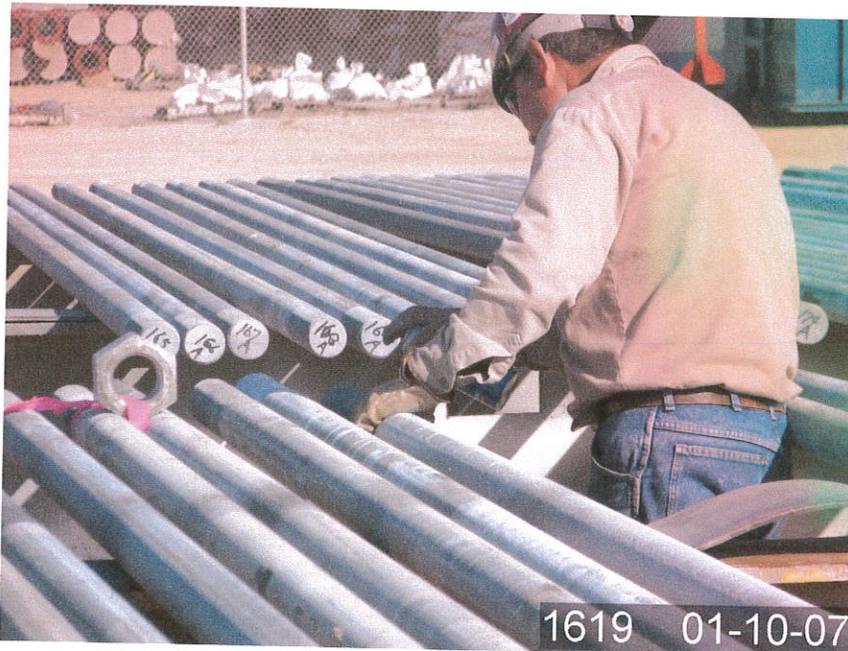
Prime Contractor: **Kiewit/FCI/Manson (KFM) – Joint Venture**

NCR #132

Submitting Contractor: **Kiewit Offshore Services (KOS)****Type of problem:**

<b>Welding</b>	<input type="checkbox"/>	<b>Concrete</b>	<input type="checkbox"/>	<b>Other</b>	<input checked="" type="checkbox"/>	<b>Galvanizing</b>
<b>Welding:</b>	<input type="checkbox"/>	<b>Curing:</b>	<input type="checkbox"/>	<b>Procedural:</b>	<input type="checkbox"/>	<b>Bridge No.:</b> #34-0006L/R
<b>Joint fit-up:</b>	<input type="checkbox"/>	<b>Coating:</b>	<input type="checkbox"/>	<b>Other:</b>	<input type="checkbox"/>	<b>Component:</b> Anchor Rods
<b>Procedural:</b>	<input type="checkbox"/>	<b>Procedural:</b>	<input type="checkbox"/>			

**Description of Non-Conformance:** KOS Quality Control (QC) Representatives allowed KOS to repair areas of multiple galvanized coated anchor rods using Zinc-It Instant Cold Galvanize in an aerosol can. The Standard Specifications July 1999, Section 75-1.05 prohibit the use of the use of aerosol cans for the repair of galvanizing. See the following digital photographs for additional information.



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# QUALITY ASSURANCE - NONCONFORMANCE REPORT

(Continued, Page 2 of 2)

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**Applicable reference:** Standard Specifications July 1999, Section 75-1.05

**Who discovered the problem:** Caltrans Quality Assurance Inspector Mary Madere

**Name of individual from Contractor notified:** KOS Quality Control Representative (QC) Mr. George Barnhill

**Time and method of notification:** Verbal with Mr. Barnhill at approximately 1600 hours, on January 10, 2007.

**Name of Caltrans Engineer notified:** Mark Vilcheck, Structures Representative

**Time and method of notification:** 1605 hours, December 11, 2007, via verbal communication

**QC Inspector's Name:** George Barnhill

**Was the QC Inspector aware of problem:** Yes

**Contractor's proposal to correct the problem:** The Contractor indicated during a meeting on January 11, 2007 that the cold galvanizing would be removed and repaired in accordance with the Standard Specifications.

**Comments:** This report is for the purpose of determining general 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, Ryan Smith (858) 232-6799 who represents the Office of Structural Materials for your project.

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Inspected By: Mary Madere

Quality Assurance Inspector

Reviewed By: Robert Cuellar

QA Reviewer

**DEPARTMENT OF TRANSPORTATION**  
 DIVISION OF ENGINEERING SERVICES  
 MATERIALS ENGINEERING AND TESTING SERVICES  
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Contract #: **04-0120E4**  
 Cty **SF** Rte **80** PM **13.4/13.8.**  
 File # **45.25 B**

**QUALITY ASSURANCE - NONCONFORMANCE REPORT**

Location: **Ingleside, Texas**

Date: January 10, 2007

Prime Contractor: **Kiewit/FCI/Manson (KFM) – Joint Venture**

**NCR #132**

Submitting Contractor: **Kiewit Offshore Services (KOS)**

**Type of problem:**

- |                      |                          |                    |                          |                    |                                     |                                |
|----------------------|--------------------------|--------------------|--------------------------|--------------------|-------------------------------------|--------------------------------|
| <b>Welding</b>       | <input type="checkbox"/> | <b>Concrete</b>    | <input type="checkbox"/> | <b>Other</b>       | <input checked="" type="checkbox"/> | <b>Galvanizing</b>             |
| <b>Welding:</b>      | <input type="checkbox"/> | <b>Curing:</b>     | <input type="checkbox"/> | <b>Procedural:</b> | <input type="checkbox"/>            | <b>Bridge No.:</b> #34-0006L/R |
| <b>Joint fit-up:</b> | <input type="checkbox"/> | <b>Coating:</b>    | <input type="checkbox"/> | <b>Other:</b>      | <input type="checkbox"/>            | <b>Component:</b> Anchor Rods  |
| <b>Procedural:</b>   | <input type="checkbox"/> | <b>Procedural:</b> | <input type="checkbox"/> |                    |                                     |                                |

**Description of Non-Conformance:** KOS Quality Control (QC) Representatives allowed KOS to repair areas of multiple galvanized coated anchor rods using Zinc-It Instant Cold Galvanize in an aerosol can. The Standard Specifications July 1999, Section 75-1.05 prohibit the use of the use of aerosol cans for the repair of galvanizing. See the following digital photographs for additional information.



RECEIVED  
 006028 JAN 15 07

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# QUALITY ASSURANCE - NONCONFORMANCE REPORT

(Continued, Page 2 of 2)

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006028 JAN 15 5

RECEIVED

**Applicable reference:** Standard Specifications July 1999, Section 75-1.05

**Who discovered the problem:** Caltrans Quality Assurance Inspector Mary Madere

**Name of individual from Contractor notified:** KOS Quality Control Representative (QC) Mr. George Barnhill

**Time and method of notification:** Verbal with Mr. Barnhill at approximately 1600 hours, on January 10, 2007.

**Name of Caltrans Engineer notified:** Mark Vilcheck, Structures Representative

**Time and method of notification:** 1605 hours, December 11, 2007, via verbal communication

**QC Inspector's Name:** George Barnhill

**Was the QC Inspector aware of problem:** Yes

**Contractor's proposal to correct the problem:** The Contractor indicated during a meeting on January 11, 2007 that the cold galvanizing would be removed and repair in accordance with the Standard Specifications.

**Comments:** This report is for the purpose of determining general 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, Ryan Smith (858) 232-6799 who represents the Office of Structural Materials for your project.

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Inspected By: Mary Madere

Quality Assurance Inspector

Reviewed By: Robert Cuellar

QA Reviewer

**DEPARTMENT OF TRANSPORTATION - District 4 Toll Bridge Program**

333 Burma Rd.  
Oakland, CA 94607  
(510) 286-0538, (510) 286-0550 fax



Kiewit-FCI-Manson, JV  
220 Burma Rd.  
Oakland, CA 94607

February 14, 2007

Attn: Mr. Lee Zink  
Project Director

Contract No. 04-0120E4  
04-SF-80-13.4, 13.8  
SAS T1 & E2 Foundations  
SFOBB-ESSSP

Letter No. 05.003.01-002859

Subject: Response to Submittal No. 1276, Revision No. 00 (KOS Response to NCR per SL-2545 - Aerosol Cold-Galv Paint)

Dear Lee,

The Department has reviewed Kiewit-FCI-Manson (KFM) Submittal No. 1276, Revision No. 00, dated January 23, 2007, which responded to the Department's Non-conformance Report (NCR) No. 132. The Department's Letter No. 2545, dated January 15, 2007, notified KFM of the NCR for Kiewit Offshore Services (KOS) dated January 10, 2007. The NCR was generated when QA observed that KOS QC allowed KOS to repair areas of multiple galvanized coated anchor rods using "Zinc-It Instant Cold Galvanize" in an aerosol can. Section 75-1.05 of the Standard Specifications prohibits the use of aerosol cans for the repair of galvanized surfaces.

The Department understands that the Contractor has removed the aerosol galvanizing and has repaired all damaged areas on the anchor rods in accordance with the Special Provisions. In addition, the Department understands this to be an isolated case.

The Department hereby approves Submittal No. 1276, Revision No. 00, pursuant to Section 8-3.01, "Welding," of the Special Provisions. The NCR for KOS dated January 10, 2007, is considered to be resolved.

If you have any questions or need additional information, please contact Rafael Bolon at (510) 286-0308.

Sincerely,

Rafael Bolon  
District Representative

For: Pedro J. Sanchez  
Resident Engineer

cc: P. Sanchez  
M. Woods  
M. Vilcheck  
R. Smith

file: 05.003.01, 09.006.03, 55.1276

## Memorandum

*Flex your power!  
Be energy efficient!*

To: MARK VILCHECK  
Structure Representative  
333 Burma Road  
Oakland, CA 94607

Date: January 31, 2007

File: 04-0120E4  
E2/T1 Foundations

COMPLETED

From: RYAN T. SMITH  
Structural Materials Representative  
Quality Assurance and Source Inspection Branch  
Office of Structural Materials

KFM SUBMITTAL 1276-00 –KIEWIT OFFSHORE SERVICES (KOS) RESPONSE TO NONCONFORMANCE REPORTS 132

The Materials Engineering Testing Service (METS) has reviewed the KFM Submittal 1276-00, dated January 23, 2007. In this submittal the Contractor is requesting to close the METS Nonconformance Report (NCR) 132, which documented the Contractor's use of galvanizing from an aerosol can for repair of galvanized surfaces on the T1 anchor rods.

The Standard Specifications July 1999, Section 75-1.05 prohibit the use of the use of aerosol cans for the repair of galvanizing. METS understands the Contractor used the aerosol galvanizing due to a lack of knowledge of the referenced specification. As indicated in the KOS letter dated January 20, 2007, the Contractor has removed the aerosol galvanizing and will repair all damaged areas on the anchor rods in accordance with the contract specifications. METS understands this to be an isolated case and considers NCR #132 to be resolved at this time.

If you have any questions, or would like to discuss the issues, please call me at (858) 232-6799.

cc: Rafael Bolon  
Tom Shimada  
Petryk Pich  
Robert Cuellar

## Memorandum

*Flex your power!  
Be energy efficient!*

**To:** MARK VILCHECK  
Structure Representative  
333 Burma Road  
Oakland, CA 94607

**Date:** January 31, 2007

**File:** 04-0120E4  
E2/T1 Foundations

**From:** RYAN T. SMITH  
Structural Materials Representative  
Quality Assurance and Source Inspection Branch  
Office of Structural Materials

**KFM SUBMITTAL 1276-00 –KIEWIT OFFSHORE SERVICES (KOS) RESPONSE TO NONCONFORMANCE REPORTS 132**

The Materials Engineering Testing Service (METS) has reviewed the KFM Submittal 1276-00, dated January 23, 2007. In this submittal the Contractor is requesting to close the METS Nonconformance Report (NCR) 132, which documented the Contractor's use of galvanizing from an aerosol can for repair of galvanized surfaces on the T1 anchor rods.

The Standard Specifications July 1999, Section 75-1.05 prohibit the use of the use of aerosol cans for the repair of galvanizing. METS understands the Contractor used the aerosol galvanizing due to a lack of knowledge of the referenced specification. As indicated in the KOS letter dated January 20, 2007, the Contractor has removed the aerosol galvanizing and will repair all damaged areas on the anchor rods in accordance with the contract specifications. METS understands this to be an isolated case and considers NCR #132 to be resolved at this time.

If you have any questions, or would like to discuss the issues, please call me at (858) 232-6799.

cc: Rafael Bolon  
Tom Shimada  
Patryk Pich  
Robert Cuellar



P.O. BOX 23223 Oakland, CA 94623  
 Phone (510) 419-0120 / Fax (510) 832-1456

**LETTER OF SUBMITTAL**  
**SAS Foundations E2/T1 Project**

Run Date 23-Jan-07  
 Time 1:28 PM

Dated: 23-Jan-2007

SUBMITTAL No: KFM-SUB-001276

Rev: 00

To: **Pedro Sanchez**  
 Caltrans - SAS E2/T1 Foundation Project  
 333 Burma Road  
 Oakland CA 94607  
 Phone: 510-286-0538 Fax:

Co/Job # 364-4347  
 Contract # 04-0120E4  
 Sub/Supplier: KOS  
 Sub/Supplier No: 802

Subject: KOS Response to NCR per SL-2545 - Aerosol Cold-Galv Paint

Special Provis. (SP) REF: 10-1.31  
 Standard Spec. (SS) REF:

RESUBMITTAL/SUPPLEMENTAL REF:

We are sending the following attached items:  Attached  Via Fax

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Contract Plans/Specs    | <input type="checkbox"/> Certs of Compl./Samples   | <input type="checkbox"/> Working Drawings    |
| <input type="checkbox"/> Drawings/Calculations   | <input type="checkbox"/> Schedule                  | <input type="checkbox"/> WQCP and/or Addenda |
| <input checked="" type="checkbox"/> Change Order | <input type="checkbox"/> Progress Estimate Request | <input type="checkbox"/> Weekly Weld Reports |
| <input type="checkbox"/> Copy of Letter          | <input type="checkbox"/> Payroll Information       | <input type="checkbox"/> CWR Procedure       |

Item	Date	Copies	Description	Drawing No	Rev	Status	Pages
01	22-Jan-07	1	KOS TRN-802 NCR 132 Clearing Documents		0	Pending	

These are transmitted as checked below:

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> For Approval | <input type="checkbox"/> For Review/Comment | <input type="checkbox"/> Return For Correction |
| <input type="checkbox"/> For Your Use            | <input type="checkbox"/> As Requested       | <input type="checkbox"/> For Information       |

Remarks:

CC:

Please review / approve by :

Submitted By: **George Atkinson**

(KFM Staff Member - Originator of Transmittal)

Checked & Sent By:

*George Atkinson*  
 Contract Admin/DCS Staff

**Kiewit**2440 Kiewit Road  
Ingleside, Texas 78362  
Phone: (361)-775-4300**Kiewit Offshore Services, Ltd.****TRANSMITTAL****No. 00802****KOS Job: 21103****PROJECT:** T1 Tower Footing  
Kiewit Offshore Services, Ltd.**REF:** NCR# 132 Closing Doc**ATTN:** George Atkinson**DATE:** 1/22/2007

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
<input type="checkbox"/> Shop Drawings	<input type="checkbox"/> Approval	<input type="checkbox"/> Approved as Submitted
<input type="checkbox"/> Letter	<input checked="" type="checkbox"/> Your Use	<input type="checkbox"/> Approved as Noted
<input type="checkbox"/> Prints	<input checked="" type="checkbox"/> As Requested	<input type="checkbox"/> Returned After Loan
<input type="checkbox"/> Change Order	<input type="checkbox"/> Review and Comment	<input type="checkbox"/> Resubmit
<input type="checkbox"/> Plans		<input type="checkbox"/> Submit
<input type="checkbox"/> Samples	<b>SENT VIA:</b>	<input type="checkbox"/> Returned
<input type="checkbox"/> Specifications	<input checked="" type="checkbox"/> Attached	<input type="checkbox"/> Returned for Corrections
<input checked="" type="checkbox"/> Other:	<input type="checkbox"/> Separate Cover Via:	<input type="checkbox"/> Due Date:

DRAWING NO.	REV.	COPIES	DATE	DESCRIPTION
NCR# 132		1	1/22/2007	Closing of NCR #132

**Remarks:**

Signed:   
George Barnhill



George Atkinson  
QCM KFM JV.  
Oakland, CA

Date: 1/20/2007

Subject: Clearing of NCR #132

George:

KOS was issued NCR (#132).

The Department issued a Non-conformance Report (NCR) at Kiewit Offshore Services, Ltd. (KOS) in Ingleside, Texas, on January 10, 2007. The NCR was generated when QA observed that KOS QC allowed KOS to repair areas of multiple galvanized coated anchor rods using "Zinc-It Instant Cold Galvanize" in an aerosol can. Section 75-1.05 of the Standard Specification prohibits the use of aerosol cans for the repair of galvanized surfaced.

KOS did use the aerosol cans of "Zinc-It Instant Cold Galvanize" to touch up the abraded or damage areas on the anchor bolts in violation of Standard Specification 75-1.05. KOS will remove the paint from the areas that have been sprayed with the cold galvanize from the aerosol cans by wire brushing and sanding to remove the paint. KOS will apply two applications of unthinned zinc – rich primer (organic vehicle type) conforming to the provisions in Section 91.

KOS has removed the cans of "Zinc-It Instant Cold Galvanize" from the jobsite and will not permit it to be used again.

KOS is asking that the Department close this NCR. If you have any questions I can be reached at 361-775-4420 or on my cell at 361-385-0189.

  
George Barnhill  
QCM KOS  
Ingleside, TX

Cc: Scott Cheney, Mike Brown

**DEPARTMENT OF TRANSPORTATION - District 4 Toll Bridge Program**

333 Burma Rd.  
Oakland, CA 94607  
(510) 286-0538, (510) 286-0550 fax



Kiewit-FCI-Manson, JV  
220 Burma Rd.  
Oakland, CA 94607

Attn: Mr. Chris Webb  
Welding Quality Control Manager

January 15, 2007

Contract No. 04-0120E4  
04-SF-80-13.4, 13.8  
SAS T1 & E2 Foundations  
SFOBB-ESSSP

Letter No. 05.003.01-002545

Subject: NCR - Kiewit Offshore Services, 1/10/07 (Prohibited Use of Aerosol Cans)

Dear Chris,

The Department issued a Non-conformance Report (NCR) at Kiewit Offshore Services (KOS) in Ingleside, Texas, on January 10, 2007. The NCR was generated when QA observed that KOS QC allowed KOS to repair areas of multiple galvanized coated anchor rods using "Zinc-It Instant Cold Galvanize" in an aerosol can. Section 75-1.05 of the Standard Specifications prohibits the use of aerosol cans for the repair of galvanized surfaces. QA verbally notified Mr. George Barnhill, KOS QC Manager, of this non-conformance on January 10, 2007.

Please describe what measures the Contractor will take to resolve this NCR. In addition, please describe how the Contractor will avoid this situation from happening in the future.

If you have any questions or need additional information, please contact Mark Vilcheck at (510) 286-0526.

Sincerely,

Mark Vilcheck  
Structure Representative

For: Pedro J. Sanchez  
Resident Engineer

cc: P. Sanchez  
M. Woods  
R. Smith

file: 05.003.01, 09.006.03

SAS FOUNDATIONS E2/T1 PROJECT	
DATE	1/16/07
ROUTED BY	See
TO:	
INTERNAL COPIES TO	
EXTERNAL COPIES TO	
SCANNED	(Y) N
FILED TO	Cl Letters 2545

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

MATERIALS ENGINEERING AND TESTING SERVICES

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Contract #: **04-0120E4**City **SF** Rte **80** PM **13.4/13.8.**File # **45.25 B**


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**QUALITY ASSURANCE - NONCONFORMANCE REPORT**


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Location: **Ingleside, Texas**Date: **January 10, 2007**Prime Contractor: **Kiewit/FCI/Manson (KFM) – Joint Venture**NCR #**132**Submitting Contractor: **Kiewit Offshore Services (KOS)****Type of problem:**

**Welding**       **Concrete**       **Other**       **Galvanizing**  
**Welding:**       **Curing:**       **Procedural:**       **Bridge No.:** #34-0006L/R  
**Joint fit-up:**       **Coating:**       **Other:**       **Component:** Anchor Rods  
**Procedural:**       **Procedural:**

**Description of Non-Conformance:** KOS Quality Control (QC) Representatives allowed KOS to repair areas of multiple galvanized coated anchor rods using Zinc-It Instant Cold Galvanize in an aerosol can. The Standard Specifications July 1999, Section 75-1.05 prohibit the use of the use of aerosol cans for the repair of galvanizing. See the following digital photographs for additional information.

*Hardcopy Routing Instructions:*

# QUALITY ASSURANCE - NONCONFORMANCE REPORT

(Continued, Page 2 of 2)



**Applicable reference:** Standard Specifications July 1999, Section 75-1.05

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**Name of individual from Contractor notified:** KOS Quality Control Representative (QC) Mr. George Barnhill

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**Name of Caltrans Engineer notified:** Mark Vilcheck, Structures Representative

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**QC Inspector's Name:** George Barnhill

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