



P.O. BOX 23223 Oakland, CA 94623  
 Phone (510) 419-0120 / Fax (510) 839-0666

**LETTER OF SUBMITTAL**  
**KFM Skyway Project # 04-012024**

Run Date 22-Nov-05  
 Time 2:31 PM

Dated: 11/22/05

To: Doug Coe  
 Caltrans-Skyway Project  
 345 Burma Road  
 Oakland CA 94607  
 Phone: Fax:

SUBMITTAL No: KFM-SUB-005755 Rev: 00  
 Co/Job # 364-3726  
 Contract # 04-012024  
 Sub/Supplier: USI  
 Sub/Supplier No: 1344

Subject: USI - Documents Clearing KFM NCR #234 (METS #227)

Special Provis. (SP) REF: 08-3.01

Standard Spec. (SS) REF:

RESUBMITTAL/SUPPLEMENTAL REF:

We are sending the following attached items:  Attached  Via Fax

- |                                       |   |   |
|---------------------------------------|---|---|
| <input type="checkbox"/> Drawing      | <input checked="" type="checkbox"/> Plans           | <input type="checkbox"/> Prog. Pmt      |
| <input type="checkbox"/> Samples      | <input type="checkbox"/> Certificates of Compliance | <input type="checkbox"/> Calculations   |
| <input type="checkbox"/> Payroll      | <input type="checkbox"/> Specs                      | <input type="checkbox"/> Copy of Letter |
| <input type="checkbox"/> Change Order | <input type="checkbox"/> Schedule                   | <input type="checkbox"/> Invoice        |

Item	Date	Copies	Description	Drawing No	Rev	Status	Pages
01	14-Nov-05	1	USI - Documents Clearing KFM NCR # 234 (METS #227)		0	Pending	3

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:

Please see attached USI Letter and close NCR.

CC:

Please review / approve by : 05-Dec-2005

Submitted By: Rich Bienek  
 (KFM Staff Member – Originator of Transmittal)

Checked & Sent By:   
 Contract Admin/DCS Staff



# UNIVERSAL STRUCTURAL, INC.

604 SE. Victory Ave.  
Vancouver, WA 98661

P.O. Box 1030  
Vancouver, WA 98666

Vancouver (360) 695-1261  
Portland (503) 227-2419  
FAX (360) 696-3590

November 14, 2005

Kiewit / FCI / Manson, JV (KFM)  
220 Burma Road  
Oakland, CA 94607  
Phone: (510) 419-0120  
Fax: (510) 839-0666

Attention: Paul Hegarty / Rich Bienek

Reference: SFOBB Skyway Project  
USI #23932 (NCR LTR# 234.111405)

Subject: Response to Caltrans State Letter #5.03.1-009123, DTD 11/09/05  
KFM NCR #234

Mr. Hegarty & Mr. Bienek,

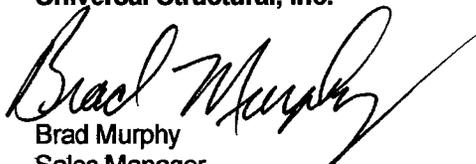
Universal Structural, Inc. has received Caltrans State Letter #5.03.1-009123, dated November 09, 2005. Caltrans stated:

*"KFM's quality control manager and onsite representatives allowed USI's subcontractor, NPI, to use an expired calibration ultrasonic testing instrument (Epoch II, Serial No. 91042106). In accordance with AWS D1.5:96, Section 6.17.2, this instrument should have been calibrated no later than 09/10/05."*

Please see the attached NPI Professionals Ultrasonic Unit Calibration Certification for the "Epoch II, Serial No. 91042106" Ultrasonic Testing Instrument.

Please review and submit to Caltrans for a letter to close this NCR. If you have any questions or need further clarification, please contact me at your earliest possible convenience.

Sincerely,  
**Universal Structural, Inc.**

  
Brad Murphy  
Sales Manager

cc: USI file



Category III

A Subsidiary of

HARDER MECHANICAL CONTRACTORS



**DEPARTMENT OF TRANSPORTATION**

SFOBB - Skyway Project  
345 Burma Road  
Oakland, CA 94607  
Facsimile Number: (510) 622-5165



*Flex Your Power  
Be Energy Efficient!*

November 09, 2005

KFM, a JV  
220 Burma Road  
Oakland, CA 94607

*KFM/NCR 234*

**COPY**

Contract: 04-012024  
04-SF, Ala-80-13.9/14.3, 0.0/1.6  
SFOBB Skyway Project  
State Letter # 5.03.1-009123

*Subject: KFM/USI NCR No. 227: Ultrasonic Testing Instrument - Expired Calibration*

Dear Mr. Zink,  
Attention: Mr. Rich Bienek,

This Non-Conformance Report (NCR) is issued by the Engineer to KFM as a result of your supplier, USI, for the following reason:

1. KFM's quality control manager and onsite representatives allowed USI's subcontractor, NPI, to use an expired calibration ultrasonic testing instrument (Epoch II, Serial No. 91042106). In accordance with AWS D1.5:96, Section 6.17.2, this instrument should have been calibrated no later than 09/10/05.

This NCR will be tracked as KFM/USI NCR No. 227. KFM/USI was verbally notified of this NCR by Caltrans' METS on 11/04/05. Please review and address how you plan to resolve this NCR and bring your work back into compliance with our contract.

Should you have any questions, please contact David Wu at (510) 622-5104 or Patrick Lowry at (858) 344-2712.

Sincerely,

*David Wu*

David Wu  
Senior Bridge Engineer

For: Mr. Douglas Coe  
Resident Engineer

cc: P. Lowry, D. Coe, D. Wu, B. Chew, V. Iyer, I. Kwong, D. Salladay

file: 5.03.1, 9.03.8



NDE Professionals, Inc., 7505 NE Ambassador Place, Suite N  
 Portland, OR 97220  
 Office (503) 287.5255 Fax (503) 287.5992

**ULTRASONIC UNIT CALIBRATION**

DATE: 11/4/2005 DUE DATE: 1/4/2006 CAL. BY: DJ ASNT Level: II  
 ULTRASONIC UNIT: Panametrics MODEL: Epoch II SERIAL NO.: 91042106  
 SEARCH UNIT: Size: 1" TYPE: Straight Beam FREQ.: 2.25 MHZ  
 CAL. BLOCK: IIW SN: 02-7061 PROCEDURE: QAP-107.0 APPENDIX: C  
 CAL. BLOCK: DS SN: DS-NDE-01

**AMPLITUDE CONTROL / dB ACCURACY TABULATION CHART**

No.	a dB Reading	b % Scale	c Corrected Reading	d dB Error	e Collective dB Error
1	4.5	80	4.35	0.15	0.24
2	10.5	80	10.35	0.15	0.09
3	16.5	78	16.57	-0.07	-0.06
4	22.5	79	22.46	0.04	0.01
5	28.5	78	28.57	-0.07	-0.03
6	34.5	79	34.46	0.04	0.04
7	40.5	79	40.46	0.04	0.08
8	46.5	78	46.57	-0.07	0.01
9	52.5	80	52.35	0.15	0.16
10	58.5	78	58.57	-0.07	0.09
11	64.5	78	64.57	-0.07	0.02
	dB1	%1	dB2		

%2 Average: 78.6

**TOTAL QUALIFIED RANGE**

4.5 dB to 64.5 dB = 60 dB  
 Require 60 dB Range Minimum

Total Error 0.22 dB

%2 is the average % screen value from col. b

$dB2 = 20 \times \log(\%2 / \%1) + dB1$

**SCREEN HEIGHT LINEARITY**

dB Setting	Full Signal % Screen	Half Signal % Screen	*% Difference Between Signals
24.5	100	51	1%
23.5	90	45	0
22.4	80	40	0
21.2	70	35	0
19.9	60	30	0
18.2	50	25	0
16.3	40	20	0
13.7	30	15	0
10.4	20	10	0

\* Maximum % difference allowed is 5% (+ or - 2.5%) full screen height

	In Tol.	Out of Tol.
As Found Condition	<u>X</u>	<u>      </u>
dB Accuracy	<u>X</u>	<u>      </u>
Vertical Linearity	<u>X</u>	<u>      </u>
Horizontal Linearity	<u>X</u>	<u>      </u>

**HORIZONTAL LINEARITY**

Calibrate in 20 Inch Screen Range

1st back reflection within 2% 3.999

2nd back reflection within 2% 7.999

3rd back reflection within 2% 12.01

4th back reflection within 2% 15.99

5th back reflection within 2% 19.99

Adjust Each Back Reflection to Reference Level for Horizontal Location Examination

UT Technician: [Signature] Date: 11/4/05

**DEPARTMENT OF TRANSPORTATION**

SFOBB – Skyway Project  
345 Burma Road  
Oakland, CA 94607  
Facsimile Number: (510) 622-5165



*Flex Your Power  
Be Energy Efficient!*

December 05, 2005

KFM, a JV  
220 Burma Road  
Oakland, CA 94607

Contract: 04-012024  
04-SF, Ala-80-13.9/14.3, 0.0/1.6  
SFOBB Skyway Project  
State Letter # 5.03.1-009250

*Subject: Response to KFM-SUB-004241R02, KFM-SUB-004871R02, KFM-SUB-005072R02, KFM-SUB-005478R01, KFM-SUB-005464R01, KFM-SUB-005485R01, KFM-SUB-005486R01, KFM-SUB-005489R02, KFM-SUB-005752R00, KFM-SUB-005754R00, KFM-SUB-005755R00*

Dear Mr. Zink,  
Attention: Mr. Rich Bienek,

The Engineer takes no exceptions to the following submittals:

- KFM-SUB-004241R02: USI Documents Clearing Critical Weld Repair 05-123R1
- KFM-SUB-004871R02: USI Documents Clearing CWR 05-289R3
- KFM-SUB-005072R02: USI Documents Clearing Critical Weld Repair 05-346R2
- KFM-SUB-005478R01: USI Documents Clearing Critical Weld Repair 05-527R2
- KFM-SUB-005464R01: USI Documents Clearing Critical Weld Repair 05-524R1
- KFM-SUB-005485R01: USI Documents Clearing Critical Weld Repair 05-532R2
- KFM-SUB-005486R01: USI Documents Clearing Critical Weld Repair 05-533R2
- KFM-SUB-005489R02: USI Documents Clearing Critical Weld Repair 05-536R1A1
- KFM-SUB-005752R00: USI Documents Clearing KFM NCR 232 (METS 225)
- KFM-SUB-005754R00: USI Documents Clearing KFM NCR 233 (METS 226)
- KFM-SUB-005755R00: USI Documents Clearing KFM NCR 234 (METS 227)

Should you have any questions, please contact David Wu at (510) 622-5104 or Patrick Lowry at (858) 344-2712.

Sincerely,

**<<< ORIGINAL SIGNED >>>**

David Wu  
Senior Bridge Engineer

For: Mr. Douglas Coe  
Resident Engineer

cc: P. Lowry, D. Coe, D. Wu, B. Chew, V. Iyer, I. Kwong, D. Salladay

file: 5.03.1, 9.03.8