

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 # 1.25 B

QUALITY ASSURANCE - NONCONFORMANCE REPORT

Location: T1 Pile Head Connection Plates (PHCP)**Date:** 07-14-2007**Prime Contractor:** Kiewit/FCI/Manson-KFM-JV**NCR #176****Submitting Contractor:** Kiewit/FCI/Manson-KFM-JV**Type of problem:** Loss of heat on the bottom radius of pile 6, plate B, welds 3 & 4**Welding** **Concrete** **Other** **Welding:** **Curing:** **Procedural:** **Bridge No.** 34-0006 L / R**Joint fit-up:** **Coating:** **Other:** **Component:** T1 Foundation Footing**Procedural:** **Procedural:** Loss of preheat temperature

Description of Non-Conformance: The Contractor failed to maintain the preheat temperature during the welding of T1 pile head connection plate (PHCP) as required by Caltrans Special Provisions, Section 10-1.31, Field Welding of Pile/Sleeve Connection Plates, Line F. The loss in preheat occurred on PHCP pile 6, plate B, weld 3 & 4. There were several subsequent weld passes which were deposited prior to the loss of heat. The Contractor elected to leave the weld passes in place and perform magnetic particle testing, bring the weld up to the required minimum preheat, and commence welding.

Applicable reference: Caltrans Special Provisions, Section 10-1.31, Field Welding of Pile/Sleeve Connection Plates, Line F

Who discovered the problem: Caltrans Assistant Structure Representative; Quang Pham**Name of individual from Contractor notified:** KFM Welding Foreman; Scott McCoy**Time and method of notification:** 07/14/07 at approximately 1540 via verbal notification.**Name of Caltrans Engineer notified:** Caltrans Assistant Structures Representative; Saman Soheilifard**Time and method of notification:** 1500 verbal on 7-16-07**QC Inspector's Name:** QC Inspector Heydar Alakbarov**Was the QC Inspector aware of problem:** No**Contractor's proposal to correct the problem:** As noted above.

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.

Inspected By: Raymond Lara

Quality Assurance Inspector

Reviewed By: Albert Carreon/ Bill Levell

Lead QA Reviewer

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Lead QA Reviewer

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RECEIVED

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. Rich Bienek
Welding Quality Control Manager

February 19, 2008

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

Letter No. 05.003.01-003870

Subject: NCRs - Kiewit-FCI-Manson, 7/14/07 and 07/17/0 (Failure to Maintain Preheat Temperature)

Dear Rich,

The Department notified the Contractor of the Non-conformance Reports (NCRs) of the loss of preheat at the SAS T1/E2 Foundations project site on July 14 and July 17 of 2007, in the Department's Letter Nos. 3359 and 3363. The Department understands that the Contractor returned the welds to the minimum preheat temperature and that MT was performed on the in-place welds prior to resuming welding. The Department considers the above NCRs closed.

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