

DEPARTMENT OF TRANSPORTATIONDIVISION 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 # : 04-0120F4
Cty SF Rte 80 PM 13.4/13.80
File # 01 .25 B**QUALITY ASSURANCE - NONCONFORMANCE REPORT****Location:** SFOBB Jobsite**JOBSITE NCR** **Date:** 10/05/2007**Prime Contractor:** Kiewit/FCI/Manson (KFM)**NCR #204****Submitting Contractor:** KFM**Type of problem:****Welding** **Concrete** **Other** **Welding:** **Curing:** **Procedural:** **Bridge No.** 34-0006 L/R**Joint fit-up:** **Coating:** **Other:** **Component:** T1 Foundation Pile Head Connection Plates**Procedural:** **Procedural:** Quality Control, failing to identify magnetic particle indications.

Description of Non-Conformance: KFM Quality Control Inspector, Jaime Boots, failed to identify three indications on three separate occasions while performing magnetic particle testing (MT) on root welds of the partial joint penetration (PJP) welds on T1 pile head connection plates. The issues were documented on: 1) 10-02-07 at pile head connection plate 11D-1 (12 millimeter longitudinal linear indication) 2) 10-03-07 an eight millimeter transverse indication at pile head connection plate 11D-1 and 3) 10-05-07 a ten millimeter longitudinal indication was observed at pile head connection plate 5H-4.

It should be noted this is not the first NCR issued to document overlooked rejectable MT indications by this inspector.

Applicable reference: AWS D1.5 2002, Section 6.**Who discovered the problem:** Quality Assurance Inspector, Gregory Bertlesman**Name of individual from Contractor notified:** KFM Superintendent, Dennis Winters**Time and method of notification:** 10/05/07 at 1000 hours— Verbal**Name of Caltrans Engineer notified:** Assistant Structures Representative, Mark Baker**Time and method of notification:** 10/05/07 at 0900 hours – Verbal**QC Inspector's Name:** Jaime Boots**Was the QC Inspector aware of problem:** No**Contractor's proposal to correct the problem:** Unknown at this time.

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: Gregory Bertlesman

Quality Assurance Inspector

Reviewed By: Albert Carreon

Lead QA Reviewer

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QUALITY ASSURANCE - NONCONFORMANCE REPORT**Location:** SFOBB Jobsite**JOBSITE NCR** **Date:** 10/05/2007**Prime Contractor:** Kiewit/FCI/Manson (KFM)**NCR #204****Submitting Contractor:** KFM**Type of problem:****Welding** **Concrete** **Other** **Welding:** **Curing:** **Procedural:** **Bridge No.** 34-0006 L/R**Joint fit-up:** **Coating:** **Other:** **Component:** T1 Foundation Pile Head Connection Plates**Procedural:** **Procedural:** Quality Control, failing to identify magnetic particle indications.

Description of Non-Conformance: KFM Quality Control Inspector, Jaime Boots, failed to identify three indications on three separate occasions while performing magnetic particle testing (MT) on root welds of the partial joint penetration (PJP) welds on T1 pile head connection plates. The issues were documented on: 1) 10-02-07 at pile head connection plate 11D-1 (12 millimeter longitudinal linear indication) 2) 10-03-07 an eight millimeter transverse indication at pile head connection plate 11D-1 and 3) 10-05-07 a ten millimeter longitudinal indication was observed at pile head connection plate 5H-4.

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Inspected By: Gregory Bertlesman

Quality Assurance Inspector

Reviewed By: Albert Carreon

Lead QA Reviewer

RECEIVED
 007435 OCT-95

Memorandum

*Flex your power!
Be energy efficient!*

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

Date: November 12, 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 LETTER 330 – RESPONSE TO METS NCR 204

The Materials Engineering and Testing Service (METS) has reviewed KFM Letter 330 dated October 22, 2007. This letter is requesting to close METS NCR 204 which was issued to the Contractor by State Letter 05.03.01-0003548.

In October 2007, METS documented that another of the Contractor's Quality Control Inspectors failed to record multiple rejectable indications while performing Magnetic Particle Testing (MT) of the Pile/Sleeve Connector Plates (PSCP). It should be noted that NCR 204 was not the first time METS inspectors noted deficiencies by this inspector.

In KFM-LET-330, the Contractor acknowledges that the inspector was new to the project and needed some additional training. Thus training was conducted for this inspector by a third party NDT company in order to familiarize the inspector with the pile head connection plate welds and proper inspection techniques.

As a result of the additional measures conducted by the Contractor, METS considers NCR 204 to be resolved at this time. However, METS reminds the Contractor that this issue may be brought up in the future should the problems reoccur in the future.

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

cc: Rafael Bolon
Tom Shimada

Mark Vilcheck
November 12, 2007
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Albert Carreon