

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 # **20 .25 B**

QUALITY ASSURANCE - NONCONFORMANCE REPORT

Location: **Trans Bay Steel, Napa, Ca.**Date: **02/24/06**Prime Contractor: **Kiewit FCI Manson KFM J/V**Submitting Contractor: **Trans Bay Steel (TBS)****Type of problem:**

Welding	<input checked="" type="checkbox"/>	Concrete	<input type="checkbox"/>	Other	<input type="checkbox"/>	
Welding:	<input checked="" type="checkbox"/>	Curing:	<input type="checkbox"/>	Procedural:	<input type="checkbox"/>	Bridge No.: # 34-006L
Joint fit-up:	<input type="checkbox"/>	Coating:	<input type="checkbox"/>	Other:	<input type="checkbox"/>	Component: # Permanent Steel Casings
Procedural:	<input checked="" type="checkbox"/>	Procedural:	<input type="checkbox"/>			<u>Bottom pile E2 T1</u>

Description of Non-Conformance: Quality Control (QC) accepted nonconforming welds during the ultrasonic testing (UT). Quality Assurance (QA) Level II Technicians, Ricardo Medina and Alfredo Acuna discovered three rejectable indications with the ultrasonic testing method by on the girth seam GS-8 in the plastic hinge zone between pile can segments S128 and S85 located on the E2 permanent steel casing # 7. The rejectable indications are listed as follows:

Indication # 1 was found by the Caltrans Quality Assurance Inspector Ricardo Medina on 02/10/06. Mr. Medina found a rejectable class A indication at Y value 4795 mm, X value -10, 12 mm of depth and 18 mm of length.

Indication # 2 was found by the Caltrans Quality Assurance Inspector Alfredo Acuna on 02/23/06. Mr. Acuna found a rejectable class A indication at Y value 7620 mm, X value +10, 10 mm of depth and 30 mm of length.

Indication # 3 was found by the Caltrans Quality Assurance Inspector Alfredo Acuna on 02/23/06. Mr. Acuna found the rejectable class A indication at Y value 7375 mm, X value -10, 13 mm of depth and 20 mm of length.

Indications 1 thru 3 were found after the Trans Bay Quality Control Level II technician, Steve Pacheco with 3D UT verified and accepted 100 % of the girth seam GS-8. Indications 1 thru 3 were not in compliance with AWS D1.1, 2002 ultrasonic testing (UT) Acceptance-Rejection criteria per Table 6.3 for cyclically loaded nontubular connections. See QA ultrasonic testing reports (TL-6027) dated this date for additional information.

Note: This is not the first occurrence of this type of discrepancy observed by QA for this QC technician.

Applicable reference: AWS D1.1 2002 Table 6.3 cyclically loaded nontubular connections.

Who discovered the problem: Alfredo Acuna.

Name of individual from Contractor notified: Ramsay Bell and Steve Pacheco of 3D UT and TBS QCM, Bill Kroplin

Time and method of notification: Verbal on this date.

Name of Caltrans Engineer notified:

Time and method of notification:

QC Inspector's Name: Bill Kroplin and Steve Pacheco

Was the QC Inspector aware of problem: Not until QA discovered the issues.

QUALITY ASSURANCE - NONCONFORMANCE REPORT

(Continued, Page 2 of 2)

Contractor's proposal to correct the problem: None provided at this time other than QC concurred with QA test results and the weld will be repaired and re-tested.

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: Alfredo Acuma. Ricardo Medina

Quality Assurance Inspector

Reviewed By: Robert Mertz

Lead QA Inspector

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. Lee Zink
Project Director

November 13, 2006

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

Letter No. 05.003.01-002239

Subject: Response to Submittal No. 985, Revision No. 00 (Trans Bay Steel Response to NCR Issued by State Letter 901)

Dear Lee,

The Department has reviewed Kiewit-FCI-Manson (KFM) Submittal No. 985, Revision No. 00, dated October 16, 2006, which responded to the Department's Letter No. 901 dated March 10, 2006, which notified KFM of a Non-conformance Report (NCR) for Trans Bay Steel (TBS) dated February 24, 2006. The Department hereby approves Submittal No. 985, Revision No. 00, pursuant to Section 8-3.01, "Welding," of the Special Provisions. The NCR for TBS dated February 24, 2006, is considered to be resolved.

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, 55.0985