

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING 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
(707) 649-5493

Contract #: 04-0120L4Cty: SF/ALA Rte: 80 PM: 1.6/2.7File #: 1.25B**QUALITY ASSURANCE -- NON-CONFORMANCE REPORT****Location:** SFOBB Oakland Touchdown (field)**Report No:** NCR-000013**Prime Contractor:** MCM Construction, Inc.**Date:** 14-Dec-2007**Submitting Contractor:** MCM Construction, Inc.**NCR #:** NCR-000013**Type of problem:**

Welding	Concrete	Other	
Welding	Curing	Procedural	Bridge No: 34-0006
Joint fit-up	Coating	Other	Component: E-20L-2
Procedural	Procedural	Description: Failure to maintain the required minimum preheat.	

Reference Description:**Description of Non-Conformance:**

The QA Inspector noted the complete joint penetration pile splice of pile E-20L-2 did not maintain the minimum required preheat of 225 degrees F continuously. The QA Inspector determined the preheat temperature had dropped to 100 degrees F at location mark 100" to 220" on the bottom section of pile and 0" to 240" on the top section of the pile in the weld area (less than 3" from where weld metal was being deposited).

Applicable reference:

Caltrans Special Provisions (Field Welding Note J)

Who discovered the problem: QA Inspector Rick Bettencourt**Name of individual from Contractor notified:** David Cox**Time and method of notification:** 0610 in person**Name of Caltrans Engineer notified:** Ibrahim Qawasami**Time and method of notification:** 0615 via phone conversation**QC Inspector's Name:** David Cox**Was QC Inspector aware of the problem:** Yes No**Contractor's proposal to correct the problem:**

Bring the minimum required preheat up to 225 degrees, perform magnetic particle testing.

Comments:

This report is for the purpose of determining 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 Mohammad Fatemi, who represents the Office of Structural Materials for your project.

Inspected By: Bettencourt, Rick**Reviewed By:** Levell, Bill

QA

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Contract #: 04-0120L4Cty: SF/ALA Rte: 80 PM: 1.6/2.7File #: xx.25A**QUALITY ASSURANCE -- NON-CONFORMANCE RESOLUTION****Location:** SFOBB Oakland Touchdown (field)**Report No:** NCS-000047**Prime Contractor:** MCM Construction, Inc.**Date:** 15-Apr-2008**Submitting Contractor:** MCM Construction, Inc.**NCR #:** NCR-000013**Type of problem:**

Welding	Concrete	Other	
Welding	Curing	Procedural	Bridge No: 34-0006
Joint fit-up	Coating	Other	Component:
Procedural	Procedural	Description:	

Date the Non-Conformance Report was written: 14-Dec-2007**Description of Non-Conformance:**

The QA Inspector noted the complete joint penetration pile splice of pile E-20L-2 did not maintain the minimum required preheat of 225 degrees F continuously. The QA Inspector determined the preheat temperature had dropped to 100 degrees F at location mark 100" to 220" on the bottom section of pile and 0" to 240" on the top section of the pile in the weld area (less than 3" from where weld metal was being deposited).

Contractor's proposal to correct the problem:

Bring the minimum required preheat up to 225 degrees, perform magnetic particle testing.

Corrective action taken:

The weld metal and surrounding base material was brought back up to the minimum required temperature of 225 degrees F and magnetic particle testing was performed by the QC Inspector. After the completion of the weld ultrasonic testing (UT) was performed on 100% of total weld length to ensure weld quality.

Did corrective action require Engineer's approval? Yes No**If so, name of Engineer providing approval:****Date:****Is Engineer's approval attached?** Yes No**Comments:**

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Inspected By: Bettencourt, Rick

Quality Assurance Inspector

Reviewed By: Levell, Bill

QA Reviewer