QUALITY ASSURANCE -- NON-CONFORMANCE REPORT

Location: Vancouver, WA   Report No: NCR-000014
Prime Contractor: C.C. Myers   Date: 11-Dec-2008
Submitting Contractor: Thompson Metal Fabrication (TMF), Vancouver Wa.   NCR #: NCR-000014

Type of problem:
- [ ] Welding  - Concrete  - Other
- [ ] Welding  - Curing  - Procedural
- [ ] Joint fit-up  - Coating  - Other  - Component: F31A, F31B, F12A pipe column assemblies
- [ ] Procedural  - Procedural

Reference Description: The QA Inspector randomly observed several non conforming issues directly related to the in process fabrication of the F31A, F31B and F12A pipe column assemblies.

Description of Non-Conformance:
The QA Inspector randomly observed several non conforming issues directly related to the in process fabrication of the F31A, F31B and F12A pipe column assemblies.

1.) The CARR Construction Inc. representatives were observed using excessive force during the fit up process of all three of the above identified pipe column assemblies. The QA Inspector noted CARR representatives were observed utilizing sledge hammers to force the box beam members to pre determined mach-mark areas. The QA Inspector observed 3-4mm base material dents caused by the hammering of the steel members.

2.) The CARR Construction representatives were observed by the Caltrans QA Inspectors using mechanical force. The QA Inspector noted hydraulic rams were used to bend and distort the Fracture Critical Member (FCM) gussets plates associated with F31A, F31B and F12A pipe column assemblies. Significant deformation was observed on the near side gusset plate identified as pG64b which will be replaced due to excessive deformation.

3.) The QA Inspectors have repeatedly observed and noted arc strikes outside the weld joint at numerous locations within the F31A, F31B and F12A pipe column assemblies. Arc strikes have been brought to the contractor’s attention on numerous occasions to where care should be taken to prevent arc strikes outside the area of permanent welds.

Contractor’s proposal to correct the problem: It was determined by the CARR Construction to further eliminate any further potential quality issues, TMF has subcontracted Quality Control Personnel to 100% monitor all operations during assembly, tack welding and fit up at CARR Construction assembly yard.

Applicable reference:
AWS D1.5 2002 sections 3.10, 12.12, Standard Specifications 55-3.16

Who discovered the problem: Caltrans QA Inspector Rick Bettencourt
Name of individual from Contractor notified: TMF Project Manager Steve Williams
Time and method of notification: 0800 Verbal notification
Name of Caltrans Engineer notified: Karen Wang
Time and method of notification: 0800 Verbal notification
QC Inspector's Name: Don Bloom
Was QC Inspector aware of the problem: Yes ☑ No ☐
Contractor's proposal to correct the problem:
Unknown at this time.
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 Jinesh Mehta, 1-951-840-0541, who represents the Office of Structural Materials for your project.

<table>
<thead>
<tr>
<th>Inspected By:</th>
<th>Bettencourt, Richard</th>
<th>QA Inspector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reviewed By:</td>
<td>Adame, Joe</td>
<td>Quality Assurance Inspector</td>
</tr>
</tbody>
</table>
QUALITY ASSURANCE -- NON-CONFORMANCE RESOLUTION

Location: Vancouver, WA  
Prime Contractor: C.C. Myers  
Submiting Contractor: Thompson Metal Fabrication (TMF), Vancouver Wa.  
Report No: NCS-000003  
Date: 18-Feb-2009  
NCR #: NCR-000014

Type of problem:
- Welding  
- Joint fit-up  
- Procedural  

Date the Non-Conformance Report was written: 11-Dec-2008

Description of Non-Conformance:
The QA Inspector randomly observed several non conforming issues directly related to the in process fabrication of the F31A, F31B and F12A pipe column assemblies.

1.) The CARR Construction Inc. representatives were observed using excessive force during the fit up process of all three of the above identified pipe column assemblies. The QA Inspector noted CARR representatives were observed utilizing sledge hammers to force the box beam members to pre determined mach-mark areas. The QA Inspector observed 3-4mm base material dents caused by the hammering of the steel members.

2.) The CARR Construction representatives were observed by the Caltrans QA Inspectors utilizing mechanical force. The QA Inspector noted hydraulic rams were used to bend and distort the Fracture Critical Member (FCM) gussets plates associated with F31A, F31B and F12A pipe column assemblies. Significant deformation was observed on the near side gusset plate identified as pG64b which will be replaced due to excessive deformation.

3.) The QA Inspectors have repeatedly observed and noted arc strikes outside the weld joint at numerous locations within the F31A, F31B and F12A pipe column assemblies. Arc strikes have been brought to the contractor’s attention on numerous occasions to where care should be taken to prevent arc strikes outside the area of permanent welds.

Contractor’s proposal to correct the problem: It was determined by the CARR Construction to further eliminate any further potential quality issues, TMF has subcontracted Quality Control Personnel to 100% monitor all operations during assembly, tack welding and fit up at CARR Construction assembly yard.

Contractor's proposal to correct the problem:
It was determined by the CARR Construction to further eliminate any further potential quality issues, TMF has subcontracted Quality Control Personnel to 100% monitor all operations during assembly, tack welding and fit
up at CARR Construction assembly yard. (Ref TMF letter #040-123108)

Corrective action taken:
It was observed TMF did provide a full time certified welding inspector (CWI) to further eliminate any further potential quality issues. TMF has subcontracted Quality Control Personnel to 100% monitor all operations during assembly, tack welding and fit up at CARR Construction assembly yard.

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:
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 Jinesh Mehta, (707) 552-7715 (284), who represents the Office of Structural Materials for your project.

<table>
<thead>
<tr>
<th>Inspected By:</th>
<th>Bettencourt,Richard</th>
<th>Quality Assurance Inspector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reviewed By:</td>
<td>Adame,Joe</td>
<td>QA Reviewer</td>
</tr>
</tbody>
</table>