



B96-13

File Date Effective Expiration Date Supersedes Approved by	BCM 180-3.0 12/16/1996 None AJ96.14, AJ96.13  <hr/> R. P. SOMMARIVA, Chief Office of Structure Construction
--	---

Subject: Reinforcing Steel Welding and Testing

Pursuant to Section 6-3.02, *Testing by Contractor*, of the Standard Specifications, it is the Contractor's duty to conduct tests in accordance with procedures which are carefully planned, managed, and documented by qualified personnel who are specifically designated to perform these functions. In accordance with Section 52-1.11, *Payment*, of the Standard Specifications full compensation for furnishing and testing sample splices, for radiographic examinations performed by the Contractor, and for furnishing access facilities for inspection and nondestructive testing by the Engineer shall be considered as included in the contract price paid per pound for the bar reinforcing steel involved and no additional compensation will be allowed therefore.

For going projects that have welding and have not received information from the contractor regarding the welding of reinforcing steel, the following procedures should be followed:

- The Resident Engineer is to send a letter to the contractor ordering a submittal of information detailing the contractor's plan to control quality of field welding of bar reinforcement. Use the draft letter in Attachment 1 to this bulletin so that all contractors are treated consistently.
- The Resident Engineer is to review the contractor's submittal for completeness and compliance with the Specifications.
- If the required information is not received within five working days of receipt of a request, the Resident Engineer is directed to temporarily suspend all field welding of bar reinforcement due to the contractor's failure to carry out an order to submit information and failure to demonstrate control of the workmanship, pursuant to Section 8-1.05, *Temporary Suspension of Work*, of the Standard Specifications.

For projects where the contractor has not started work, the information within Attachment 1 should be received from and discussed with the contractor during the pre-job meeting.

Attachment

cc: StrReps
BCEs
ACMs
OSC HQ Staff
Consultant Firms
PStolarski, METS
BGauger, Construction Program Manager

June 28, 1996

Contractor, President
Construction Company Name
Company address
Company City, State, Zip Code

Dear Contractor:

Pursuant to Sections 6-3.02 of the Standard Specifications, submit the following, in writing, within five working days of receipt of this order.

- 1) Contractor's quality control plan for field welding of bar reinforcement as required by Section 52-1.08, "Splicing," and Section B-1.01, "Subcontracting," of the Standard Specifications, American Welding Society (AWS) D1.4, and the special provisions. The minimum requirements are as follows:
 - a) List of names and qualifications of the Contractor's Quality control manager and all of the nondestructive testers, welding inspectors, and welders who perform and control the field welding of bar reinforcement work.
 - b) Welder qualifications shall include all tests performed to qualify the welders, and verification that the tests were witnessed by the Engineer.
 - c) The Contractor's field welding procedure specification for bar reinforcement, including documentation of the tests performed to qualify the specification, and verification that the tests were witnessed by the Engineer.
 - d) Description of how the Contractor's quality control plan is updated when any personnel or procedures change.
 - e) Description of methods for identifying, tracking, and reporting on; all field welding; quality of the material and workmanship including list of electrode classification, position, type of welding current and polarity; visual inspections; destructive and non-destructive testing; repairing of any deficient welds and reinspection of all repaired welds.
 - f) Description of the methods used to ensure the quality control methods are being followed including the frequency of sampling and testing and frequency of reports or submittals to the Contractor.
- 2) Name of the Contractor's designated person who the Engineer can henceforth consider as the Contractor's quality control manager (QCM). The QCM shall be directly responsible to the Contractor. The QCM shall not be a currently employed subcontractor or currently employed by a subcontractor.
 - a) The QCM shall be responsible for administration of the Contractor's quality control plan for field welding of bar reinforcement including but not limited to, the following:

- Review of welding and test records and,
- Assuring compliance with the Contractor's quality control plan for field welding of bar reinforcement and,
- Advising the Contractor and the Engineer of all deficiencies in the welds, tests, inspections and quality control plan for field welding of bar reinforcement compliance.

b) The QCM shall be the individual responsible for submitting and receiving all quality control correspondence and required submittals regarding the field welding of bar reinforcement to and from the Engineer. All such submittals shall be reviewed and signed by the QCM prior to submittal to the Engineer.

. If the plan is not received within the five working day period or if the plan is determined by the Engineer to not satisfy the minimum requirements stated above, field welding of bar reinforcement shall be temporarily suspended, pursuant to Section 8-1.05 of the Standard Specification by reason of the Contractor's failure to carry out an order to submit information and for failure to demonstrate control of the workmanship.

In addition, the QCM shall submit daily log summaries of welding, testing, and inspection for field welding of bar reinforcement to the Engineer at the end of every five working days of field welding of bar reinforcement performed.

Sincerely,

Resident Engineer

ax Prime Contractor, Home Office
Construction Program Manager, Sacramento
District Division Chief - Construction
R.E. File