AWS D1.1 Interpretation

Subject: Excessive Root Opening
Code Edition: D1.1-90
Code Provision: Subsection 3.3.1
AWS Log: ID1-90-042-04

Inquiry: In accordance with 3.3.1 of the AWS D1.1-90 Code, the root opening of parts joined by fillet welds shall not exceed 3/16 in. in plates or shapes under 3 in. in thickness and 5/16-in. root opening for plates or shapes 3 in. in thickness or greater.

What needs to be done, other than qualifying a procedure, if the root opening exceeds the above dimensions in each case?

Response: For root openings in excess of 3.3.1, qualification testing is not an option, but the Engineer’s approval is required for acceptance of any remedial measures or the in situ condition.