



AWS D1.1 Interpretation

Subject: Low Hydrogen Welding Process for Base Metal Repair

Code Edition: D1.1-90

Code Provision: Appendix X1

AWS Log: ID1-91-004-02/04

Inquiry: Are GMAW and FCAW low-hydrogen processes in relation to base metal repair?

Response: See AWS D1.1, Appendix XI, Page 287 (D1.1-90), subsection X16.2.2 for low-hydrogen definitions. See D1.1, subsection 3.2.2.2, for base metal repairs.

AWS D1.1, Structural Welding Code—Steel, is prepared by the AWS Structural Welding Committee. Because the Code is written in the form of a specification, it cannot present background material or discuss the committee's intent.

Since the publication of the first edition of the Code, the nature of inquiries directed to the American Welding Society and the Structural Welding Committee has indicated that there are some requirements in the Code that are either difficult to understand or not sufficiently specific, and other that appear to be overly conservative.

It should be recognized that the fundamental premise of the Code is to provide general stipulations applicable to any situation and to leave sufficient latitude for the exercise of engineering judgment. Another point to be recognized is that the Code represents the collective experience of the committee; and, while some provisions may seem overly conservative, they have been based on sound engineering practice.