



AWS D1.1 Interpretation

Subject: Pipe Welding Qualification
Code Edition: D1.1-90
Code Provision: Subsection 5.23.1.1 and Tables 5.4 and 5.1
AWS Log: ID1-90-022-03

Inquiry:

- (1) Does a groove weld procedure qualification test plate welded in the 1G (flat) position qualify longitudinal pipe seam welding procedures to be welded in the 1G position?
- (2) Does a maximum 16-in. diameter weld test pipe qualify circumferential welding procedures for welding 16-in. and 24-in. diameter pipe, provided wall thickness requirements are met?

Response:

- (1) Yes. See 5.23.1.1 and Table 5.4 of D1.1-90.
- (2) Yes. See Table 5.1 of D1.1-90.

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.