



## AWS D1.1 Interpretation

**Subject:** Welding Procedure Qualification Using Plate for Pipe Application

**Code Edition:** D1.1-90

**Code Provision:** Subsection 5.10.5 and Table 5.4

**AWS Log:** 2.24

**Inquiry:** A contractor has qualified weld procedures using FCAW with gas shielding in the 1G, 2G, 3G, and 4G positions using plate as test coupons. According to AWS D1.1-90, subsection 5.10.5, are these procedures qualified to weld in the 5F position on a pipe, rolled from steel plate, with a diameter range of 33 through 144 in., with the same welding process?

**Response:** Yes. See Table 5.4, Footnote 1.

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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.