AWS D1.4 Intent Interpretation

Subject: Use of Essential Variables for WPS Qualification
Code Edition: 2018
Code Provisions: Table 8.2, Essential Variable 11
      Table 8.3
AWS Log: D1.4-18-I01

Inquiry 1: Is position an essential variable in D1.4/D1.4M: 2018 Table 8.2?
Interpretation 1: Yes

Inquiry 2: Is it the intent of D1.4/D1.4M: 2018 Table 8.2, item 11 “A change in groove type (e.g. flare-V to flare-bevel groove)” to actually refer as “A change in type of joint (e.g. direct butt to indirect butt) of D1.4/D1.4M: 2018 Table 8.3?”
Interpretation 2: Yes

Inquiry 3: Must the test assemblies and the production joint being qualified in D1.4/D1.4M:2018 conform to one another within the limits of the essential variables?
Interpretation 3: See Inquiry and Response to Question 2 and answer of the D1.4-98-I02 interpretation.

Inquiry 4: Do direct butt welds (Figure 8.5A) in D1.4/D1.4M:2018 Table 8.3 qualify single V groove, double V groove, single bevel and double bevel groove as shown in D1.4/D1.4M:2018 Figure 5.2?
Interpretation 4: Yes

DISCLAIMER

AWS D1.4/D1.4M:2018, Structural Welding Code—Steel Reinforcing Bars, is being revised to appropriately address the concerns of this intent interpretation. A new code will be published as an amendment: AWS D1.4/D1.4M:2018-AMD1

AWS D1.4/D1.4M, Structural Welding Code—Steel Reinforcing Bars, is prepared by the AWS Structural Welding Committee. As 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 others 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. It represents the collective experience of the committee and, while some provisions may seem overly conservative, they have been based on sound engineering practice.