



American Welding Society

550 NW LeJeune Road

Miami, Florida 33126

AWS D1.1 Interpretation

Subject: WPS Qualification using ASTM A 514

Code Edition: D1.1:2006

Code Provision: Tables 4.8 and 4.9

AWS Log: D1.1-06-I03

Inquiry: (1) If I qualify a WPS using ASTM A 514 (2 inches) to itself, can I substitute ASTM A 514 (3 inches) to itself in this WPS without requalification?

(2) If I qualify a WPS using ASTM A 514 (3 inches) to itself, can I substitute ASTM A 514 (2 inches) to itself in this WPS without requalification?

(3) If I qualify a WPS using ASTM A 514 (2 inches) to ASTM A514 (3 inches), can I substitute ASTM A 514 (3 inches) to itself in this WPS without requalification?

(4) If I qualify a WPS using ASTM A 514 (2 inches) to ASTM A514 (3 inches), can I substitute ASTM A 514 (2 inches) to itself in this WPS without requalification?

Response: (1) Yes, provided there is no change in grade or increase in specified minimum yield strength. See Table 4.8.

(2) No. This results in an increase in specified minimum yield strength. See Table 4.8.

(3) Yes, provided there is no change in grade or increase in specified minimum yield strength. See Table 4.8.

(4) No. This results in an increase in specified minimum yield strength. See Table 4.8.

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.