



AWS D1.1 Interpretation

Subject: Ultrasonic Inspection
Code Edition: D1.1-92
Code Provision: Subsections 6.13.1, 6.13.4, 6.15.6, 6.15.7.2, 6.21.2.4, 8.15.4
AWS Log: 5.7

Inquiry:

- (1) Why is there no screen height setting for reference line height indication when angle beam testing? Refer to 6.21.2.2 of D1.1.
- (2) Does subsection 8.15.4 cover welds, base metals, or both?
- (3) Is it acceptable to use smaller diameter transducers on thin material? Refer to 6.15.6.
- (4) Is it acceptable to use smaller transducers (or circumferential transducers) when joint configuration does not permit 0.62 x 0.62 in. transducers? Refer to 6.15.7.2

Response:

- (1) The reference line is relative and can be set at any convenient level the technician wants to work with.
- (2) Weld and HAZ only. See 6.13.1 and 6.13.4.
- (3) No.
- (4) No.

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.