AWS D1.1 Interpretation

Subject: Code Thickness Limitation  
Code Edition: D1.1-90  
Code Provision: Subsection 1.2.3  
AWS Log: I-91-01-03

Inquiry:  
(1) Does D1.1-90 place a minimum thickness of ½ in. on the materials welded within the scope?  
(2) Does D1.1-90 specify a tolerance below 1/8 in. for base metal thickness that can be welded within the scope?  
(3) If the answer to Inquiry 2 is no, may material of thickness 0.105 in. be welded using prequalified welding procedures?

Response:  
(1) Subsection 1.2.3 states, “The provisions of this Code are not intended to apply to welding base metals less than 1/8 in. (3.2 mm) thick.”  
(2) Subsection 1.2.3 does not address a tolerance for base metal thickness. Tolerances for base material thickness are addressed by other recognized industry standards or practices, such as ASTM, which may be used in conjunction with the D1.1 Code.  
(3) The Code does not prohibit the use of prequalified procedures on 0.105-in. thick material.