AWS D1.1 Interpretation

Subject: Code Thickness Limitations
Code Edition: D1.1-79
Code Provision: Subsection 1.2.2
AWS Log: D1-85-017(1)

Inquiry: What is the meaning of the thickness limitation provisions of 1.2.2 in AWS D1.1-79 (1.2.3 in AWS D1.1-83 through D1.1-94 editions)?

Response:
1. When the thickness of the material is over 0.18 in., the rules of AWS D1.1 apply.
2. When the thickness of the material is between 1/8 and 0.18 in., either AWS D1.1 or AWS D1.3 apply, as applicable.
3. When the thickness of the material is less than 1/8 in., the rules of AWS D1.3 should apply.
4. When welding a material less than 1/8 in. thick to a material more than 0.18 in. thick, the rules of AWS D1.3 should apply, but they are to be supplemented by the provisions of AWS D1.1 (e.g., adequate preheat, low hydrogen electrode, etc.).