**AWS D17.1 Interpretation**

**Subject:** Inspection and Examination Requirements  
**Code Edition:** D17.1:2001  
**Code Provision:** Paragraph 4.3.8.1  
**AWS Log:** D17.1-01-I01

**Inquiry:** Paragraph 4.3.8.1 states that test welds for welder qualification shall be inspected to Class A requirements. The paragraph further defines the inspection methods (i.e. visual and X-ray for groove welds with alternative methods of bend testing and metallographic for fillet welds). The suggested record from Figure 4.1 also only defines visual, radiographic and metallographic in the test results section.

Neither paragraph 4.3.8.1 nor Figure 4.1 define that Penetrant Testing (PT) or Magnetic Particle Inspection (MPI) are required.

Class A inspection is however required. In paragraph 6.4 which defines the inspection criteria, PT / MPI are mandated for Class A welds.

For Welder Qualification Tests, is PT for non-ferrous or MPI for ferro-magentic materials required to be performed?

**Response:** Requirements in paragraph 4.3.8.1 specify both the methods of inspection and acceptance criteria of Class A welds shall be performed for welder and welding operator qualification. Figure 4.1 contains suggested content and format which is provided as an example only.