The following amendments have been identified and are incorporated in this reprint.

AWS Amendment Notice

AWS Standard: B4.0:2016
Amendment Number: 1
Subject: Clause 7.2, replace reference ASTM A370 with ASTM E23:

ASTM Documents:

- ASTM E208, Standard Method for Conducting Drop-Weight Test to Determine Nil-Ductility Transition Temperature of Ferritic Steels
- ASTM E1823, Standard Terminology Relating to Fatigue and Fracture Testing

AWS Standard: B4.0:2016
Amendment Number: 1
Subject: Clause 7.5.1, replace “ASTM A370” with “ASTM E23”:

7.5.1 The apparatus for conducting the various fracture toughness tests shall be in accordance with the latest edition of the following ISO and ASTM Standard Test Methods:

1. Charpy V-notch, ASTM E23;

AWS Standard: B4.0:2016
Amendment Number: 1
Subject: Clause 7.7.1, replace “ASTM A370” with “ASTM E23”:

7.7.1 Test specimen preparation and test procedure for measuring the fracture toughness of a weldment shall be in accordance with the following ISO and ASTM standard test methods:

1. Charpy V-notch, ASTM E23, except that values up to and including 100% of the testing machine capacity shall be accepted and reported as fracture energy if the specimen breaks. The full machine capacity followed by a plus sign (+), shall be reported if the specimen is not broken. All these results may be used to calculate the average energy absorbed provided the minimum average required for acceptance is within the verified range of the machine;
AWS Standard: B4.0:2016  
Amendment Number: 1  
Subject: Figure 7.1, replace existing figure with new figure:

![Diagram of Charpy V-Notch Impact Specimen]

**NOTE—Dimensional Tolerances shall be as follows:**

- Notch length to edge: $90^\circ \pm 2^\circ$
- Adjacent sides shall be at $90^\circ \pm 10$ minutes
- Cross section dimensions: $\pm 0.003$ in ($0.076$ mm)
- Length of specimen ($L$): $+0, -0.100$ in ($+0, -2.5$ mm)
- Centering of notch ($L/2$): $\pm 0.039$ in ($1$ mm)
- Angle of notch: $\pm 1^\circ$
- Radius of notch: $\pm 0.001$ in ($0.025$ mm)
- Finish requirements: 63 microinches (1.5 micrometers) $R_t$ on notched surface and opposite face; 125 microinches (3 micrometers) $R_t$ on other two surfaces
- Ligament length: $\pm 0.001$ in ($0.025$ mm)

**Figure 7.1—Charpy V-Notch Impact Specimen**