AWS D17.1 Specification for Fusion Welding for Aerospace Applications

Quick Review Guide:

AWS D17.1, 5.2 Welding Procedure Qualification:
Guideline for contents and method of welding procedure for typical welding processes covered by this section.
(See AWS D17.1, Table 5.1, Table 5.2 and Table 5.3)

Note: The final decision on specific format and content shall be at the discretion of the Engineering Authority.

AWS D17.1, 1.4 Classifications:
All welds produced in accordance with this specification shall be classified on the engineering drawings as **Class A, B or C** These classifications refer to level of inspection required and to the acceptance criteria.

AWS D17.1, 5.2.2 Procedures for Class A and B welds shall be qualified. WPS for Class C welds and Tack welds do not require procedure qualification**.** With the approval of the Engineering Authority, **AWS B2.1** may be used for welding procedure qualification.
(See AWS D17.1, 5.2.2.3 for Alternate Methods of Procedure Qualification)

AWS D17.1, 5.2.2.2 Test Methods for WPS Qualification (PQR) are provided in **Table 5.3**. Test results shall be recorded in PQR.

Suggested WPS and PQR forms are provided in AWS D17.1, **Annex G**. Clause 5.3.6 stated that these forms can be modified as required to meet the requirements of the welding procedure and manufacturing facility.

WPSAmerica.com online forms (WPS, PQR) are similar to suggested forms by the AWS D17.1

Use essential variables guidelines of **AWS** D17.1 code (provided here in both forms), and complete your procedure.