

RTCA/DO-160G Environmental Conditions and Test Procedures for Airborne Equipment, provides a laboratory means to determine the performance characteristics of airborne equipment. The focus of this group is the procedure for flammability testing electronic equipment installed on aircraft. The current procedure states that equipment must be broken down and each part tested individually in one of three different Bunsen burner tests. An alternative test procedure has been developed that will allow electronic equipment to be tested whole, simplifying testing for complex devices. This new test method uses a programmable methane line burner as the ignition source that is adaptable to almost any size or shape equipment. The main purpose of this test is to determine if the enclosure can contain any potential fire inside from the burning electronics. This test procedure will be added to the next revision of the document, RTCA DO-160H.