(b) Each applicant must make all inspections and tests necessary to determine—
   (1) Compliance with the applicable airworthiness, aircraft noise, fuel venting, and exhaust emission requirements;
   (2) That materials and products conform to the specifications in the type design;
   (3) That parts of the products conform to the drawings in the type design; and
   (4) That the manufacturing processes, construction and assembly conform to those specified in the type design.

§ 21.35 Flight tests.
   (a) Each applicant for an aircraft type certificate (other than under §§21.24 through 21.29) must make the tests listed in paragraph (b) of this section. Before making the tests the applicant must show—
      (1) Compliance with the applicable structural requirements of this subchapter;
      (2) Completion of necessary ground inspections and tests;
      (3) That the aircraft conforms with the type design; and
      (4) That the FAA received a flight test report from the applicant (signed, in the case of aircraft to be certificated under Part 25 [New] of this chapter, by the applicant’s test pilot) containing the results of his tests.
   (b) Upon showing compliance with paragraph (a) of this section, the applicant must make all flight tests that the FAA finds necessary—
      (1) To determine compliance with the applicable requirements of this subchapter; and
      (2) For aircraft to be certificated under this subchapter, except gliders and except reciprocating engine powered airplanes of 6,000 lbs. or less maximum certificated weight that are to be certificated under part 23 of this chapter, to determine whether there is reasonable assurance that the aircraft, its components, and its equipment are reliable and function properly.
   (c) Each applicant must, if practicable, make the tests prescribed in paragraph (b)(2) of this section upon the aircraft that was used to show compliance with—
      (1) Paragraph (b)(1) of this section; and
      (2) For rotors that incorporates turbine engines of a type not previously used in a type certificated aircraft, at least 300 hours of operation with a full complement of engines that conform to a type certificate; and
      (3) For all other aircraft, at least 150 hours of operation.

   Each applicant for a normal, utility, acrobatic, commuter, or transport category aircraft type certificate must provide a person holding an appropriate pilot certificate to make the flight tests required by this part.