§ 29.901 Installation.
(a) For the purpose of this part, the powerplant installation includes each part of the rotorcraft (other than the main and auxiliary rotor structures) that—
1. Is necessary for propulsion;
2. Affects the control of the major propulsive units; or
3. Affects the safety of the major propulsive units between normal inspections or overhauls.
(b) For each powerplant installation—
1. The installation must comply with—
   (i) The installation instructions provided under § 33.5 of this chapter; and
   (ii) The applicable provisions of this subpart.
2. Each component of the installation must be constructed, arranged, and installed to ensure its continued safe operation between normal inspections or overhauls for the range of temperature and altitude for which approval is requested.
3. Accessibility must be provided to allow any inspection and maintenance necessary for continued airworthiness; and
4. Electrical interconnections must be provided to prevent differences of potential between major components of the installation and the rest of the rotorcraft.
5. Axial and radial expansion of turbine engines may not affect the safety of the installation.
6. Design precautions must be taken to minimize the possibility of incorrect assembly of components and equipment essential to safe operation of the rotorcraft, except where operation with the incorrect assembly can be shown to be extremely improbable.
7. For each powerplant and auxiliary power unit installation, it must be established that no single failure or malfunction or probable combination of failures will jeopardize the safe operation of the rotorcraft except that the failure of structural elements need not be considered if the probability of any such failure is extremely remote.

§ 29.903 Engines.
(a) Engine type certification. Each engine must have an approved type certificate. Reciprocating engines for use in helicopters must be qualified in accordance with § 33.49(d) of this chapter or be otherwise approved for the intended usage.
(b) Category A; engine isolation. For each category A rotorcraft, the powerplants must be arranged and isolated from each other to allow operation, in at least one configuration, so that the failure or malfunction of any engine, or the failure of any system that can affect any engine, will not—
1. Prevent the continued safe operation of the remaining engines; or
2. Require immediate action, other than normal pilot action with primary flight controls, by any crewmember to maintain safe operation.
(c) Category A; control of engine rotation. For each Category A rotorcraft, there must be a means for stopping the rotation of any engine individually in flight, except that, for turbine engine installations, the means for stopping the engine need be provided only where necessary for safety. In addition—
1. Each component of the engine stopping system that is located on the engine side of the firewall, and that might be exposed to fire, must be at least fire resistant; or
2. Duplicate means must be available for stopping the engine and the controls must be where all are not likely to be damaged at the same time in case of fire.
(d) Turbine engine installation. For turbine engine installations—