

## Sec. 25.903

Part 25 AIRWORTHINESS STANDARDS: TRANSPORT CATEGORY AIRPLANES	
Subpart E--Powerplant	General

### Sec. 25.903

#### Engines.

(a) *Engine type certification.* Each engine must be type certificated under Part 33 [New].

(b) *Engine isolation.* 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 of any system that can affect the engine, will not--

(1) Prevent the continued safe operation of the remaining engines; or

(2) Require immediate action by any crewmember for continued safe operation.

(c) *Control of engine rotation.* There must be a means to individually stop and restart the rotation of any engine in flight unless, for turbine engine installations, continued rotation could not jeopardize the safety of the airplane. Each component of the stopping and restarting system on the engine side of the firewall, and that might be exposed to fire, must be at least fire resistant. If hydraulic propeller feathering systems are used for this purpose, the feathering lines must be at least fire resistant under the operating conditions that may be expected to exist during feathering.

(d) *Turbine engine installations.* Unless the engine type certificate specifies that the engine rotor cases can contain damage resulting from rotor blade failure, turbine engine powerplant installations must have a protection means so that rotor blade failure in any engine will not affect the operation of remaining engines or jeopardize continued safety. In addition, design precautions must be taken to minimize the probability of jeopardizing safety if an engine turbine rotor fails, unless--

(1) The engine type certificate specifies that the turbine rotors can withstand damage-inducing factors (such as those that might result from abnormal rotor speed, temperature, or vibration); and

(2) The powerplant systems associated with engine control devices, systems, and instrumentation give reasonable assurance that those engine operating limitations that adversely affect turbine rotor structural integrity will not be exceeded in service.

#### ▼ Document History

##### Notice of Proposed Rulemaking Actions:

Notice of Proposed Rulemaking. Notice No. 64-28; Issued on 05/14/64.

##### Final Rule Actions:

Final Rule. Docket No. 5066; Issued on 11/03/64.