§ 25.1501  
(c) It must be shown by test that equipment containing high energy rotors can contain any failure of a high energy rotor that occurs at the highest speed obtainable with the normal speed control devices inoperative.  
(d) Equipment containing high energy rotors must be located where rotor failure will neither endanger the occupants nor adversely affect continued safe flight.  

[Amdt. 25–41, 42 FR 36971, July 18, 1977]  

Subpart G—Operating Limitations and Information  
§ 25.1501 General.  
(a) Each operating limitation specified in §§ 25.1503 through 25.1533 and other limitations and information necessary for safe operation must be established.  
(b) The operating limitations and other information necessary for safe operation must be made available to the crewmembers as prescribed in §§ 25.1541 through 25.1587.  

[Amdt. 25–42, 43 FR 2323, Jan. 16, 1978]  

OPERATING LIMITATIONS  
When airspeed limitations are a function of weight, weight distribution, altitude, or Mach number, limitations corresponding to each critical combination of these factors must be established.  

§ 25.1505 Maximum operating limit speed.  
The maximum operating limit speed (V_{MO}/M_{MO} airspeed or Mach Number, whichever is critical at a particular altitude) is a speed that may not be deliberately exceeded in any regime of flight (climb, cruise, or descent), unless a higher speed is authorized for flight test or pilot training operations. V_{MO}/M_{MO} must be established so that it is not greater than the design cruising speed V_{C} and so that it is sufficiently below V_{D}/M_{D} or V_{DF}/M_{DF}, to make it highly improbable that the latter speeds will be inadvertently exceeded in operations. The speed margin between V_{MO}/M_{MO} and V_{C} or V_{DF}/M_{DF} may not be less than that determined under § 25.335(b) or found necessary during the flight tests conducted under § 25.253.  

[Amdt. 25–23, 35 FR 5680, Apr. 8, 1970]  

§ 25.1507 Maneuvering speed.  
The maneuvering speed must be established so that it does not exceed the design maneuvering speed V_{A} determined under § 25.335(c).  

§ 25.1511 Flap extended speed.  
The established flap extended speed V_{FE} must be established so that it does not exceed the design flap speed V_{F} chosen under §§ 25.335(e) and 25.345, for the corresponding flap positions and engine powers.  

§ 25.1513 Minimum control speed.  
The minimum control speed V_{MC} determined under § 25.149 must be established as an operating limitation.  

§ 25.1515 Landing gear speeds.  
(a) The established landing gear operating speed or speeds, V_{LO}, may not exceed the speed at which it is safe both to extend and to retract the landing gear, as determined under § 25.729 or by flight characteristics. If the extension speed is not the same as the retraction speed, the two speeds must be designated as V_{LO(EXT)} and V_{LO(RET)}, respectively.  
(b) The established landing gear extended speed V_{LE} may not exceed the speed at which it is safe to fly with the landing gear secured in the fully extended position, and that determined under § 25.729.  


§ 25.1516 Other speed limitations.  
Any other limitation associated with speed must be established.  


§ 25.1517 Rough air speed, V_{RA}.  
A rough air speed, V_{RA}, for use as the recommended turbulence penetration airspeed in § 25.1365(a)(8), must be established, which—