§ 460.9
(2) Document the completed training for each crew member and maintain the documentation for each active crew member.
(d) Current qualifications and training. An operator must establish a recurrent training schedule and ensure that all crew qualifications and training required by § 460.5 are current before launch and reentry.

§ 460.9 Informing crew of risk.
An operator must inform in writing any individual serving as crew that the United States Government has not certified the launch vehicle and any re-entry vehicle as safe for carrying flight crew or space flight participants. An operator must provide this information—
(a) Before entering into any contract or other arrangement to employ that individual; or
(b) For any crew member employed as of December 23, 2004, as early as possible and prior to any launch in which that individual will participate as crew.

§ 460.11 Environmental control and life support systems.
(a) An operator must provide atmospheric conditions adequate to sustain life and consciousness for all inhabited areas within a vehicle. The operator or flight crew must monitor and control the following atmospheric conditions in the inhabited areas or demonstrate through the license or permit process that an alternate means provides an equivalent level of safety—
1. Composition of the atmosphere, which includes oxygen and carbon dioxide, and any revitalization;
2. Pressure, temperature and humidity;
3. Contaminants that include particulates and any harmful or hazardous concentrations of gases, or vapors; and
(b) An operator must provide an adequate redundant or secondary oxygen supply for the flight crew.
(c) An operator must
1. Provide a redundant means of preventing cabin depressurization; or
2. Prevent incapacitation of any of the flight crew in the event of loss of cabin pressure.

§ 460.13 Smoke detection and fire suppression.
An operator or crew must have the ability to detect smoke and suppress a cabin fire to prevent incapacitation of the flight crew.

§ 460.15 Human factors.
An operator must take the precautions necessary to account for human factors that can affect a crew’s ability to perform safety-critical roles, including in the following safety critical areas—
(a) Design and layout of displays and controls;
(b) Mission planning, which includes analyzing tasks and allocating functions between humans and equipment;
(c) Restraint or stowage of all individuals and objects in a vehicle; and
(d) Vehicle operation, so that the vehicle will be operated in a manner that flight crew can withstand any physical stress factors, such as acceleration, vibration, and noise.

§ 460.17 Verification program.
An operator must successfully verify the integrated performance of a vehicle’s hardware and any software in an operational flight environment before allowing any space flight participant on board during a flight. Verification must include flight testing.

§ 460.19 Crew waiver of claims against U.S. Government.
Each member of a flight crew and any remote operator must execute a reciprocal waiver of claims with the Federal Aviation Administration of the Department of Transportation in accordance with the requirements of part 440.

§§ 460.20–460.40 [Reserved]

Subpart B—Launch and Reentry with a Space Flight participant

§ 460.41 Scope.
This subpart establishes requirements for space flight participants on board a vehicle whose operator is licensed or permitted under this chapter.