

- (i) Date and time of occurrence;
- (ii) Location of the event;
- (iii) Description of the event;
- (iv) Number of injuries, if any, and general description of types of injuries suffered;
- (v) Property damage, if any, and an estimate of its value;
- (vi) Identification of hazardous materials, as defined by §401.5 of this chapter, involved in the event;
- (vii) Any action taken to contain the consequences of the event; and
- (viii) Weather conditions at the time of the event.

(c) *Response plan.* A launch site accident investigation plan shall contain procedures that—

- (1) Ensure the consequences of a launch site accident are contained and minimized;
- (2) Ensure data and physical evidence are preserved;
- (3) Require the licensee to report to and cooperate with FAA or National Transportation Safety Board (NTSB) investigations and designate one or more points of contact for the FAA or NTSB; and
- (4) Require the licensee to identify and adopt preventive measures for avoiding recurrence of the event.

(d) *Investigation plan.* A launch site accident investigation plan must contain—

- (1) Procedures for investigating the cause of a launch site accident;
- (2) Procedures for reporting launch site accident investigation results to the FAA; and
- (3) Delineated responsibilities, including reporting responsibilities for personnel assigned to conduct investigations and for any one retained by the licensee to conduct or participate in investigations.

(e) *Launch accidents.* A launch site accident investigation plan shall contain—

- (1) Procedures for participating in an investigation of a launch accident for launches launched from the launch site;
- (2) Require the licensee to cooperate with FAA or National Transportation Safety Board (NTSB) investigations of a launch accident for launches launched from the launch site.

(f) *Applicability of other accident investigation procedures.* Accident investigation procedures developed in accordance with 29 CFR 1910.119 and 40 CFR part 68 will satisfy the requirements of paragraphs (c) and (d) of this section to the extent that they include the elements required by paragraphs (c) and (d) of this section.

§ 420.61 Records.

(a) A licensee shall maintain all records, data, and other material needed to verify that its operations are conducted in accordance with representations contained in the licensee's application. A licensee shall retain records for three years.

(b) In the event of a launch or launch site accident, a licensee shall preserve all records related to the event. Records shall be retained until completion of any federal investigation and the FAA advises the licensee that the records need not be retained.

(c) A licensee shall make available to federal officials for inspection and copying all records required to be maintained under the regulations.

§ 420.63 Explosive siting.

(a) Except as otherwise provided by paragraph (b) of this section, a licensee shall ensure that the configuration of the launch site is in accordance with an explosive site plan, and that the licensee's explosive site plan is in compliance with the requirements of §§ 420.65–420.69. The explosive site plan shall include:

(1) A scaled map that shows the location of all proposed explosive hazard facilities at the proposed launch site and that shows actual and minimal allowable distances between each explosive hazard facility and all other explosive hazard facilities and each public area, including the launch site boundary;

(2) A listing of the maximum quantities of liquid and solid propellants and other explosives to be located at each explosive hazard facility, including the class and division for each solid explosive and the hazard and compatibility group for each liquid propellant; and

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(3) A description of each activity to be conducted in each explosive hazard facility.

(b) A licensee operating a launch site located on a federal launch range does not have to comply with the requirements in §§ 420.65–420.69 if the licensee is in compliance with the federal launch range’s explosive safety requirements.

(c) For explosive siting issues not otherwise addressed by the requirements of §§ 420.65–420.69, a launch site operator must clearly and convincingly demonstrate a level of safety equivalent to that otherwise required by part 420.

§ 420.65 Handling of solid propellants.

(a) A launch site operator shall determine the maximum total quantity of solid propellants and other solid explosives by class and division, in accordance with 49 CFR part 173, Subpart C, to be located in each explosive hazard facility where solid propellants or other solid explosives will be handled.

(b) When explosive divisions 1.1 and 1.3 explosives are located in the same explosive hazard facility, the total quantity of explosive shall be treated as division 1.1 for quantity-distance determinations; or, a launch site operator may add the net explosive equivalent weight of the division 1.3 items to the net weight of division 1.1 items to determine the total quantity of explosives.

(c) A launch site operator shall separate each explosive hazard facility where solid propellants and other solid explosives are handled from all other explosive hazard facilities, each public area and the launch site boundary by a distance no less than those provided for each quantity and explosive division in appendix E, table E-1.

(d) A launch site operator shall follow the following separation rules:

(1) A launch site operator shall employ no less than the applicable public area distance to separate an explosive hazard facility from each public area and from the launch site boundary.

(2) A launch site operator shall employ no less than an intraline distance to separate an explosive hazard facility from all other explosive hazard facilities used by a single customer.

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(3) For explosive division 1.1 only, a launch site operator may employ no less than 60% of the applicable public area distance, or the public traffic route distance, to separate an explosive hazard facility from a public area that consists only of a public highway or railroad line.

(4) A launch site operator may use linear interpolation for NEW quantities between table entries.

(5) A launch site operator shall measure separation distance from the closest debris or explosive hazard source in an explosive hazard facility.

§ 420.67 Storage or handling of liquid propellants.

(a) For an explosive hazard facility where liquid propellants are handled or stored, a launch site operator shall determine the total quantity of liquid propellant and, if applicable pursuant to paragraph (a)(3) of this section, the explosive equivalent of liquid propellant in each explosive hazard facility in accordance with the following:

(1) The quantity of liquid propellant in a tank, drum, cylinder, or other container is the net weight in pounds of the propellant in the container. The determination of quantity shall include any liquid propellant in associated piping to any point where positive means are provided for interrupting the flow through the pipe, or interrupting a reaction in the pipe in the event of a mishap.

(2) Where two or more containers of compatible liquid propellants are handled or stored together in an explosive hazard facility, the total quantity of propellant to determine the minimum separation distance between the explosive hazard facility and all other explosive hazard facilities and each public area shall be the total quantity of liquid propellant in all containers, unless:

(i) The containers are separated one from the other by the appropriate distance as provided by paragraph (b)(2) of this section; or

(ii) The containers are subdivided by intervening barriers, such as diking, that prevent mixing.

(iii) If paragraph (a)(2)(i) or (ii) of this section apply, a launch site operator shall use the quantity of propellant requiring the greatest separation