

complete a description of the planned launch or series of launches as available at the time. An applicant must provide the FAA the following information:

- (1) *Launch vehicle*. Description of:
  - (i) Launch vehicle;
  - (ii) Any flight termination system; and
  - (iii) All hazards associated with the launch vehicle and any payload, including the type and amounts of all propellants, explosives, toxic materials and any radionuclides.
- (2) *Proposed mission*.
  - (i) For an applicant applying for a launch specific license under §415.3(a), the apogee, perigee, and inclination of any orbital objects and each impact location of any stage or other component.
  - (ii) For an applicant applying for a launch operator license under §415.3(b), the planned range of trajectories and flight azimuths, and the range of apogees, perigees, and inclinations of any orbital objects and each impact location of any stage or other component.
- (3) *Potential launch site*.
  - (i) Name and location of the proposed launch site, including latitude and longitude of the proposed launch point;
  - (ii) Identity of any launch site operator of that site; and
  - (iii) Identification of any facilities at the launch site that will be used for launch processing and flight.

#### §415.107 Safety review document.

(a) An applicant must file a safety review document that contains all the information required by §§415.109–415.133. An applicant must file the information for a safety review document as required by the outline in appendix B of this part. An applicant must file a sufficiently complete safety review document, except for the ground safety analysis report, no later than six months before the applicant brings any launch vehicle to the proposed launch site.

(b) A launch operator's safety review document must:

- (1) Contain a glossary of unique terms and acronyms used in alphabetical order;
- (2) Contain a listing of all referenced standards, codes, and publications;

(3) Be logically organized, with a clear and consistent page numbering system and must identify cross-referenced topics;

(4) Use equations and mathematical relationships derived from or referenced to a recognized standard or text, and must define all algebraic parameters;

(5) Include the units of all numerical values provided; and

(6) Include a legend or key that identifies all symbols used for any schematic diagrams.

(c) An applicant's safety review document may include sections not required by appendix B of this part. An applicant must identify each added section by using the word "added" in front of the title of the section. In the first paragraph of the section, an applicant must explain any addition to the outline in appendix B of this part.

(d) If a safety review document section required by appendix B of this part does not apply to an applicant's proposed launch, an applicant must identify the sections in the application by the words "not applicable" preceding the title of the section. In the first paragraph of the section, an applicant must describe and justify why the section does not apply.

(e) An applicant may reference documentation previously filed with the FAA.

#### §415.109 Launch description.

An applicant's safety review document must contain the following information:

(a) *Launch site description*. An applicant must identify the proposed launch site and include the following:

- (1) Boundaries of the launch site;
- (2) Launch point location, including latitude and longitude;
- (3) Identity of any launch site operator of that proposed site; and
- (4) Identification of any facilities at the launch site that will be used for launch processing and flight.

(b) *Launch vehicle description*. An applicant must provide the following:

- (1) A written description of the launch vehicle. The description must include a table specifying the type and quantities of all hazardous materials on the launch vehicle and must include