§ 420.21 Launch site location review—launch site boundary.

(a) The distance from any proposed launch point to the closest launch site boundary must be at least as great as the debris dispersion radius of the largest launch vehicle type and weight class proposed for the launch point.

(b) For a launch site supporting any expendable launch vehicle, an applicant shall use the largest distance provided by table 2 for the type and weight class of any launch vehicle proposed for the launch point.

(c) For a launch site supporting any reusable launch vehicle, an applicant shall determine the debris dispersion radius that represents the maximum distance from a launch point that debris travels given a worst-case launch vehicle failure in the launch area. An applicant must clearly and convincingly demonstrate the validity of its proposed debris dispersion radius.

### TABLE 2 OF § 420.21—MINIMUM DISTANCE FROM LAUNCH POINT TO LAUNCH SITE BOUNDARY (FEET)

<table>
<thead>
<tr>
<th>Orbital expendable launch vehicle class</th>
<th>Type of suborbital launch vehicle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>Medium</td>
</tr>
<tr>
<td>7300</td>
<td>9300</td>
</tr>
</tbody>
</table>

§ 420.23 Launch site location review—flight corridor.

(a) Guided orbital expendable launch vehicle. For a guided orbital expendable launch vehicle, an applicant shall define a flight corridor that:

1. Encompasses an area that the applicant estimates, in accordance with the requirements of this part, to contain debris with a ballistic coefficient of \( \geq 3 \) pounds per square foot, from any non-nominal flight of a guided orbital expendable launch vehicle from the launch point to a point 5000 nm downrange, or where the IIP leaves the surface of the Earth, whichever is shorter;

2. Includes an overflight exclusion zone where the public risk criteria of \( 3600 \) would be exceeded if one person were present in the open; and

3. Uses one of the methodologies provided in appendix A or B of this part. The FAA will approve an alternate method if an applicant provides a clear and convincing demonstration that its proposed method provides an equivalent level of safety to that required by appendix A or B of this part.

(b) Guided sub-orbital expendable launch vehicle. For a guided sub-orbital expendable launch vehicle, an applicant shall define a flight corridor that:

1. Encompasses an area that the applicant estimates, in accordance with the requirements of this part, to contain debris with a ballistic coefficient of \( \geq 3 \) pounds per square foot, from any non-nominal flight of a guided sub-orbital expendable launch vehicle from the launch point to impact with the earth's surface;