Section 15

**­­­­­­­­­­­­­­­­­­**

**LASER SAFETY TIPS**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* Locate laser beam at waist level or below. Do not place the beam at eye level.
* Close and cover your eyes when stooping down around the laser beam (where you will pass the beam at eye level).
* When leaning over the table, beware of the laser beam directed upward.
* Enclose as much of the beam as possible.
* Do not direct laser beam toward doors or windows.
* Terminate or reflect the laser beam with fire-resistant beam stops. Anodized aluminum painted black (which may not be necessarily fire-resistant) can work well for this purpose.
* Use surfaces that minimize specular reflections.
* Implement effective controls so that the Laser Operator is not exposed to laser intra beam hazards.
* Make sure warning/indicator lights can be seen through protective filters.
* If you can see the beam through your laser eyewear, you are not fully protected.
* View applications remotely.
* Do not wear watches or reflective jewelry around Class 3B or Class 4 lasers.
* In reality, all interlocks are defeatable.
* The best defense is good understanding of the intra beam laser hazards.
* For alignment:
  + Isolate Process.
  + Use lowest practical power.
  + View diffuse reflections only.
  + Use IR/UV viewing cards/eyewear.
  + Where possible, use low power HeNe laser.