LASER BEAM ALIGNMENT

Laser beam alignment requires winds with an open beam and directing the beam toward a series of reflective or partially reflective surfaes, so that the beam follows paredetermined path. Beam alignments may be internal or external.

Internal alignments occur within the lasservity and often place the worker at increased risk of electrical accidents as well as beam exposure. The need formaintedignments arises most often because of problems associated with beam mode or power.

External alignments occur from the laser's end window to some terminal target (beam stop). In between those two locations may be a number of optical components dring configurations that may be simple or complex. The need for external alignments arises because of requirements for an initial setup, reconfiguration, or replacement of components in the path. External alignments include optical table, lase to-fiber port, fiber port fiber port, free space delivery, beauto-sensor, and laser the rapy.

MANDATORY PRACTICES

- 1. Alignments shall only be performed by those who have received laser safety training
- 2. A Class 3B or Class 4 laser controlled area (LCA) sheelestablished
- 3. Restrict area to only those personnel involved in laser beam alignment
- 4. Laser eye protection must be worn (alignment eyewear, or operational power eyewear)
- 5. Wear PPE: face shields for scattered UV & skin protection as necessary

6.

July 2014 1