

Garmong Construction Services					
<i>EMPLOYEE SAFETY POLICY HANDBOOK –Laser and Non Ionizing Radiation</i>					
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Laser and Non Ionizing Radiation

Only qualified and trained employees will be assigned to install, adjust, and operate laser equipment.

Proof of qualification of the laser equipment operator shall be available and in the possession of the operator at all times.

Employees when working in areas in which a potential exposure to direct or reflected laser light greater than 0.005 watts (5 milliwatts) exists, shall be provided with antilaser eye protection devices.

Areas in which lasers are used shall be posted with standard laser warning placards.

Beam shutters or caps shall be utilized, or the laser turned off, when laser transmission is not actually required. When the laser is left unattended for a substantial period of time, such as during lunch hour, overnight, or at change of shifts, the laser shall be turned off.

Only mechanical or electronic means shall be used as a detected for guiding the internal alignment of the laser.

The laser beam shall not be directed at employees.

When it is raining or snowing, or when there is dust or fog in the air, the operation of laser systems shall be prohibited where practicable; in any event, employees shall be kept out or range of the area of source and target during such weather conditions.

Laser equipment shall bear a label to indicate maximum output.

Employees shall not be exposed to light intensities above:

- Direct staring – 1 micro-watt per square centimeter
- Incidental Observing – 1 milliwatt per square centimeter
- Diffused Reflected Light – 2-1/2 watts per square centimeter

Laser unit in operation should be set up above the heads of employees when possible.

Employees shall not be exposed to microwave power densities in excess of 10 milliwatts per square centimeter.

Employees whose occupation or assignment requires exposure to laser beams shall be furnished suitable laser safety goggles which will protect for the specific wavelength of the laser and be of optical density adequate for the energy involved. All protective goggles shall bear a label identifying the following data:

- The wavelengths for which it is intended to be used
- Optical density of those wavelengths
- Visible light transmission