Laser Beam Specifications & Laser Safety Eyewear

Permit Holder: ________________________________ Permit #: ________________________________

Building: __________________________________ Room #: __________________________________

1. Type of Laser: ________________________________ Class: ________________________________

2. Make: ________________________________ Model: ________________________________ Serial # _____________

3. Wavelength(s) (nm): ________________________________

4. Mode: Continues Wave (CW), Single Pulse or Multiple Pulse

A. Continues Wave (CW)
   - Power (Watts): ________________________________
   - Exposure Time (Seconds) (Time Factor in Table 2 of ANSI Z126.1 – 2007 will be used)

B. Single Pulse
   - Pulse Energy (Joules): ________________________________ Pulse Length (Seconds): ________________________________

C. Multiple Pulse
   - Pulse Energy (Joules): ________________________________ OR Average Power (Watts) ________________________________
   - Pulse Length (Seconds): ________________________________
   - Pulse Rate (Hertz): ________________________________ OR Pulse Count: ________________________________
   - Pulse Time Envelope (Seconds) (Time Factor in Table 4a of Z126.1 – 2000 will be used)

6. Gaussian Criteria (check one): ☐ e^{-1} (ANSI Z136.1) or ☐ e^{-2} (Manufacturers)

7. Beam Shape: Circular, Square, Elliptical or Rectangular

A. Circular or Square
   - Major Axis Beam Dimension (Beam Size at Aperture Measured on the “Longest” Dimension) (millimeters): ________________________________
   - Major Axis Beam Divergence (Beam Divergence Measured on the “Longest” Dimension) (milliradians): ________________________________

B. Elliptical or Rectangular
   - Major Axis Beam Dimension (Beam Size at Aperture Measured on the “Longest” Dimension) (millimeters): ________________________________
   - Major Axis Beam Divergence (Beam Divergence Measured on the “Longest” Dimension) (milliradians): ________________________________
   - Minor Axis Beam Dimension (Beam Size at Aperture Measured on the “Shortest” Dimension) (millimeters): ________________________________
   - Minor Axis Beam Divergence (Beam Divergence Measured on the “Shortest” Dimension) (milliradians): ________________________________

8. List of Optical Density (OD) @ Wavelength on the Laser Safety Eyewear used for this Laser

___________________________________________________________________________________________________

___________________________________________________________________________________________________

Remarks ________________________________

___________________________________________________________________________________________________

Please complete the necessary information and send to:
Hoa Ly, Radiation Safety Coordinator, Room 4190, Support Services Building, Western University

June 2012-06-13