

$$\text{Standard} \left(\begin{array}{c} \text{single pulse} \\ \text{in train} \end{array} \right) = \frac{\text{Standard (pulse } n\tau)}{n}$$

where

n = number of pulses in train

τ = duration of a single pulse in the train

Standard ($n\tau$) = protection standard of one pulse having a duration equal to $n\tau$ seconds

TABLE 5

LIMITING ANGLE OF EXTENDED SOURCE WHICH MAY BE USED FOR APPLYING EXTENDED SOURCE TLV'S

Exposure Duration (s)	Angle $\times$ (mrad)
10^{-9}	80
10^{-8}	54
10^{-7}	37
10^{-6}	25
10^{-5}	17
10^{-4}	22
10^{-3}	36
10^{-2}	57
10^{-1}	92
10	15
10	24
10^2	24
10^3	24
10^4	24

TABLE 6

THRESHOLD LIMIT VALUE FOR SKIN EXPOSURE FROM A LASER BEAM

Spectral Region	Wave Length	Exposure Time, (t), Seconds	TLV
UV	200 nm to 400 nm	10^{-3} to 3×10^4	Same as Table 3
Light & Infrared A	400 nm to 1400 nm	10^{-9} to 10^{-7}	$2 \times 10^{-2} \text{ J} \cdot \text{cm}^{-2}$
"	" "	10^{-7} to 10	$1.1 \sqrt{t} \text{ J} \cdot \text{cm}^{-2}$
"	" "	10 to 3×10^4	$0.2 \text{ W} \cdot \text{cm}^{-2}$
Infrared B & C	1.4 μm to 1 mm	10^{-9} to 3×10^4	Same as Table 3

NOTE. To aid in the determination of TLV's for exposure durations requiring calculations of fractional powers Figures 3, 4, and 6 may be used