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U.S. Department of Transportation  
Federal Aviation Administration

# NOTICE OF PROPOSED OUTDOOR LASER OPERATION(S)

## 1. GENERAL INFORMATION

(a) To: <i>(FAA Regional Office)</i>	(b) From: <i>(Proponent)</i>
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(c) Event or Facility	(d) Report Date:
(e) Customer	(f) Site address

## 2. DATE(S) AND TIME(S) OF LASER OPERATION

(a) Testing and alignment	(b) Operation
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## 3. BRIEF DESCRIPTION OF OPERATION

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## 4. ON-SITE OPERATION INFORMATION

(a) Operator(s)	
(b) On-site phone #1	(c) On-site phone #2

## 5. FDS CDRH LASER LIGHT SHOW VARIANCE (if applicable)

(a) Variance #	(b) Accession #	(c) Expiration date
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## 6. BRIEF DESCRIPTION OF CONTROL MEASURES

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## 7. ATTACHMENTS

(a) Number of laser configurations [fill out one copy of page 2 of this notice ("Laser Configurations Worksheet") for each configuration]
(b) List Additional attachments (including maps, diagrams, and details of control measures)

## 8. DESIGNATED CONTACT PERSON (if further information is needed)

(a) Name	(b) Position	
(c) Phone	(d) Fax	(e) E-mail

## 9. STATEMENT OF ACCURACY

To the best of my knowledge, the information provided in this Notice and attached worksheet(s) is accurate and correct.	
(a) Name <i>(if different from contact person)</i>	(b) Position
(c) Signature	(d) Date



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## LASER CONFIGURATION WORKSHEET

<b>1. CONFIGURATION INFORMATION</b>	(b) Name of event/facility _____	(c) Report date: _____
(a) Configuration number _____ of _____		
(d) Brief Description of Configuration _____		

<b>2. GEOGRAPHIC LOCATION</b>	(d) Latitude _____ ° (deg.) _____ ' (min.) _____ " (sec.)
(a) Site Elevation (ft. above Mean Sea Level)	(e) Longitude _____ ° (deg.) _____ ' (min.) _____ " (sec.)
(b) Laser Height Above Site Elevation (ft.)	(f) Determined by: <input type="checkbox"/> GPS <input type="checkbox"/> Map (Quad) <input type="checkbox"/> Other _____
(c) Overall Laser Elevation (a + b)	(g) Horizontal Datum: <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 88
	(h) Vertical Datum: <input type="checkbox"/> NGVD 29 <input type="checkbox"/> NAVD 88

<b>3. BEAM CHARACTERISTICS AND CALCULATIONS (check one Mode of Operation only, and fill in only that column)</b>			
Mode of Operation	<input type="checkbox"/> SINGLE PULSE	<input type="checkbox"/> CONTINUOUS WAVE	<input type="checkbox"/> REPETITIVELY PULSED
Laser Type (lasing medium)	(not applicable)		
Power Watts (W)		maximum power	average power
Pulse Energy Joules (J)		(not applicable)	
Pulse Width Seconds (s)	(not applicable)	(not applicable)	
Pulse Repetition Frequency Hertz (Hz)		(not applicable)	
Beam Diameter @ 1/e points Centimeters (cm)			
Beam Divergency 1/e @ full Angle Milliradians (mrad)			
Wavelength(s) Nanometers (nm)			

<b>(a) MAXIMUM PERMISSIBLE EXPOSURE (MPE) CALCULATIONS (will be used to calculate NOHD)</b>			
MPE W/cm <sup>2</sup>	(not applicable)		
MPE per pulse J/cm <sup>2</sup>		(not applicable)	

<b>(b) VISUAL EFFECT CALCULATIONS (will be used only for visible lasers [400-700 nm] to calculate SZED, CZED, and LFED)</b>			
Pre-Corrected Power (PCP) Watts (W)	Pulse Energy (J) x 4	Maximum Power (from above)	Pulse Energy (J) x PRF (Hz) OR Average Power
Visual Correction Factor (VCF) <b>(Enter "1.0" or use Table 5)</b>			
Visually corrected Power PCP x VCF			

<b>4. BEAM DIRECTION(S)</b>		Magnetic variation (degrees)
Maximum elevation angle (degrees)	Azimuth <input type="checkbox"/> True <input type="checkbox"/> Magnetic	
Minimum elevation angle (degrees, where horizontal = 0°)	(degrees) _____	

<b>5. CALCULATED DISTANCES (fill in all three columns)</b>	<b>SLANT RANGE (ft.)</b>	<b>HORIZONTAL DISTANCE (ft.)</b>	<b>VERTICAL DISTANCE (ft.)</b>
<b>NOHD (based on MPE)</b>			
*SZED (for 100 μ W/cm <sup>2</sup> level)			
*CZED (for 5 μ W/cm <sup>2</sup> level)			
*LFED (for 50 n W/cm <sup>2</sup> level)			

\*If the laser has no wavelengths in the visible range (400-700 nm), enter "N/A (non-visible laser)" in all blocks.  
For visible lasers, if the calculated SZED, CZED, and/or LFED is less than the NOHD, enter "less than NOHD." than "NOHD."

<b>6. CALCULATION METHOD</b> <input type="checkbox"/> Commercial software (print product name)
<input type="checkbox"/> Other [describe method (spreadsheet, calculator, etc.)]