



U.S. Department
of Transportation

**Federal Aviation
Administration**

FAA Form 2120-0662, Notice of Proposed Outdoor Laser Operation(s)

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NOTICE OF PROPOSED OUTDOOR LASER OPERATION(S)

1. GENERAL INFORMATION		
(a) To: (FAA Service Center)	(b) From: (Proponent)	
(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	
3. BRIEF DESCRIPTION OF OPERATION Check box if all beams are terminated		
4. ON-SITE OPERATION INFORMATION		
(a) Operator(s)		
(b) On-site phone #1	(c) On-site phone #2	
5. FDA CDRH LASER LIGHT SHOW VARIANCE (if applicable)		
(a) Variance #	(b) Accession #	(c) Expiration date
6. BRIEF DESCRIPTION OF CONTROL MEASURES		
7. ATTACHMENTS		
(a) Number of laser configurations <i>Fill out one copy of page 2 of this Notice (e.g., items 10-15 on the next page) for each configuration</i>		
(b) List additional attachments (including maps, diagrams, details of control measures, and details of calculations or software printouts)		
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 (both sides) and the attachment(s) is accurate and correct		
(a) Name (if different from contact person)	(b) Position	
(c) Signature	(d) Date	

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10. CONFIGURATION INFORMATION

(a) Configuration number _____ of _____	(b) Name of event/facility	(c) Report date
(d) Brief description of configuration		

11. GEOGRAPHIC LOCATION

(a) Site elevation (Mean Sea Level), in feet: _____	(e) Latitude: _____ degrees, _____ minutes, _____ seconds
(b) Laser height above site elevation (above ground level), in feet: _____	(f) Longitude: _____ degrees, _____ minutes, _____ seconds
(c) Overall laser elevation (a) + (b), in feet: _____ Mean Sea Level	(g) Horizontal datum: <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 88
(d) Latitude and longitude determined by: <input type="checkbox"/> GPS <input type="checkbox"/> Map (quad) <input type="checkbox"/> Other	(h) Vertical datum: <input type="checkbox"/> NGVD 29 <input type="checkbox"/> NAVD 88

12. BEAM CHARACTERISTICS AND CALCULATIONS (check one Mode of Operation only, and fill in only that column)

MODE OF OPERATION	<input type="checkbox"/> SINGLE PULSE	<input type="checkbox"/> CONTINUOUS WAVE	<input type="checkbox"/> REPETITIVELY PULSED
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12(a) LASER AND BEAM CHARACTERISTICS

Laser type <i>(example: DPSS, sodium-vapor, etc.)</i>			
Laser classification <i>(examples: 1,2,3,4)</i>			
Power Watts (W)	<i>(not applicable)</i>	Maximum Power	Average Power
Pulse energy Joules (J)		<i>(not applicable)</i>	
Pulse duration Seconds (s)		<i>(not applicable)</i>	
Pulse repetition frequency Hertz (Hz)		<i>(not applicable)</i>	
Beam diameter at 1/e points Centimeters (cm)			
Beam divergence 1/e at full angle Milliradians (mrad)			
Wavelength(s) Nanometers (nm)			

12(b) MAXIMUM PERMISSIBLE EXPOSURE (MPE) VALUE (this will be used to calculate the NOHD)

MPE Watts per square cm (W/cm ²)	<i>(not applicable)</i>		
MPE per pulse Joules per square cm (J/cm ²)		<i>(not applicable)</i>	

12(c) VISUAL EFFECT CALCULATIONS

The following items are for lasers with visible wavelengths (400-700 nm). If the laser has no visible wavelengths, enter "N/A (non-visible laser)" in all blocks.

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) <i>Enter "1.0" or use Table 3</i>			
Visually Corrected Power PCP x VCF			

13. BEAM DIRECTION(S)

(a) Maximum elevation angle (degrees)	(c) Magnetic variation (degrees)
(b) Minimum elevation angle (degrees, where horizontal = 0 degrees)	(d) Azimuth (degrees) <input type="checkbox"/> True <input type="checkbox"/> Magnetic

14. PROTECTION DISTANCES (fill in all three columns below)

	SLANT RANGE (ft)	HORIZONTAL DISTANCE (ft)	VERTICAL DISTANCE (ft)
(a) NOHD (based on MPE value)			
<i>The following items are for lasers with visible wavelengths (400-700 nm). If the laser has no visible wavelengths, enter "N/A (non-visible laser)" in all blocks.</i>			
(b) SZED (for 100 μW/cm ²)			
(c) CZED (for 5 μW/cm ²)			
(d) LFED (for 50 nW/cm ²)			

15. CALCULATION METHOD

Commercial software (print product name) Other (describe method such as spreadsheet, calculator, etc.)