U.S. Department
of Transportation

**Federal Aviation
Administration**

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

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Form Approved OMB No 2120-0662
Expiration Date: xx/xx/xxxx

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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 *Fill out one copy of page 2 of this Notice (e.g., items 10-15 on the next page) for each configuration*

(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: ☐NAD 27 ☐NAD 88
(d) Latitude and longitude determined by: ☐GPS ☐Map (quad) ☐Other	(h) Vertical datum: ☐NGVD 29 ☐NAVD 88

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

MODE OF OPERATION	☐SINGLE PULSE	☐CONTINUOUS WAVE	☐REPETITIVELY PULSED
12(a) LASER AND BEAM CHARACTERISTICS			
Laser type *(example: DPSS, sodium-vapor, etc.)*			
Laser classification *(examples: 1,2,3,4)*			
Power *Watts (W)*	*(not applicable)*	Maximum Power	Average Power
Pulse energy *Joules (J)*		*(not applicable)*	
Pulse duration *Seconds (s)*		*(not applicable)*	
Pulse repetition frequency *Hertz (Hz)*		*(not applicable)*	
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)*	*(not applicable)*		
MPE per pulse *Joules per square cm (J/cm^2)*		*(not applicable)*	
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) *Enter "1.0" or use Table 3*			
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)* ☐True ☐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)*			
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.			
(b) SZED *(for 100 $\mu W/cm^2$)*			
(c) CZED *(for 5 $\mu W/cm^2$)*			
(d) LFED *(for 50 nW/cm^2)*			

15. CALCULATION METHOD

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