

LASER HAZARD EVALUATION			DATE (YYYYMMDD)		WORKPLAC E																
(USE THIS SPACE FOR MECHANICAL IMPRINT)					BASE					ORGANIZATION											
					WORKPLACE OR SITE																
					BLDG. NO./LOCATION					ROOM/AREA											
UNIT RSO		POC (Name and Grade)			POSITION					DUTY PHONE											
DESCRIPTION/CHARACTERISTICS																					
MANUFACTURER					MODEL			SERIAL NUMBER(S)					NO SAME UNITS								
FUNCTIONAL USE					LASER MEDIUM			OPERATING LOCATIONS													
MODE OF OPERATION										MAX EXPOSURE TIME(Train Length)											
CONTINUOUS WAVE(CW)			SINGLE PHASE			MULTIPLE PULSE															
EMISSION CHARACTERISTICS		TIME (sec) & WAVELENGTH ( $\lambda$ )		sec		nm		sec		nm		sec		nm							
		ENERGY/PULSE (J) OR CW POWER (W)				J(W)		J(W)		J(W)		J(W)		J(W)							
		PULSE REPETITION FREQUENCY (PRF)				Hz		Hz		Hz		Hz		Hz							
		PULSE WIDTH				sec		sec		sec		sec		sec							
		BEAM DIAMETER (at 1/e point)				cm		cm		cm		cm		cm							
		BEAM DIVERGENCE (at 1/e point)				rad		rad		rad		rad		rad							
MAX PERMISSIBLE EXPOSURE (MPE)		OCULAR POINT		CW OR SINGLE PULSE		$J/cm^2$		$J/cm^2$		$J/cm^2$		$J/cm^2$									
				MULTIPLE PULSE		$J/cm^2$		$J/cm^2$		$J/cm^2$		$J/cm^2$									
		SKIN POINT		CW OR SINGLE PULSE		$J/cm^2$		$J/cm^2$		$J/cm^2$		$J/cm^2$									
				MULTIPLE PULSE		$J/cm^2$		$J/cm^2$		$J/cm^2$		$J/cm^2$									
		SAFE EXPOSURE DISTANCES		NO ATM ATTEN.		CW OR SINGLE PULSE		m		m		m		m							
						MULTIPLE PULSE		m		m		m		m							
		ATM ATTEN.		CW OR SINGLE PULSE		m		m		m		m									
				MULTIPLE PULSE		m		m		m		m									
OPTICAL DENSITIES		UNAIDED		AT EXIT APERTURE		OD		OD		OD		OD									
				AT _____ m		OD		OD		OD		OD									
				AT _____ m		OD		OD		OD		OD									
		OPTICALLY AIDED		AT EXIT APERTURE		OD		OD		OD		OD									
				AT _____ m		OD		OD		OD		OD									
				AT _____ m		OD		OD		OD		OD									
OPTICAL AID DESCRIPTION					DATA SOURCE					FDA EXEMPTION			ANSI CLASS								
POWER		APERTURE		TRANSMITTANCE			AL HAZARD EVALUATION					YES			1		2a		2		
X		cm		%			AFOSH STD 161-10/LHAZ CALCULATIONS					NO			3a		3b		4		

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### **About the ITAOP/savePDF Method**

The traditional Field-by-Field creation process is extremely ineffective and slow.

The only realistic option to create high-quality forms is the Insert-Text-Anywhere-on-Page (ITAOP) method.

The field creation process is about 10,000 times faster than the traditional method; the list of ITAOP features is not even available for the traditional method.

ITAOP savePDF method proved to be very simple and completely reliable for millions of users all over the world (incl. individuals, companies, organizations, government employees).

ANSI CLASS	CONTROL MEASURES (re AFOSH STD 161-10)
ANSI CLASS 1	<input type="checkbox"/> ENGINEERING CONTROLS <ul style="list-style-type: none"> <li><input type="checkbox"/> PROTECTIVE HOUSING</li> <li><input type="checkbox"/> INTERLOCKS ON PROTECTIVE HOUSING (If enclosed class 3b or 4)</li> <li><input type="checkbox"/> SERVICE ACCESS PANEL (If enclosed class 3b or 4)</li> <li><input type="checkbox"/> COLLECTING OPTICS PROTECTION (If MPE exceeded)</li> <li><input checked="" type="checkbox"/> LABELS</li> <li><input type="checkbox"/> TEMPORARY LASER CONTROLLED AREA</li> </ul> <input type="checkbox"/> AFR 50-46 REQUIREMENTS ADDRESSED (for range operations only)
ANSI CLASS 2	<input type="checkbox"/> ENGINEERING CONTROLS <ul style="list-style-type: none"> <li><input type="checkbox"/> VIEWING PORTALS (If MPE exceeded)</li> </ul> <input type="checkbox"/> ADMINISTRATIVE CONTROLS <ul style="list-style-type: none"> <li><input type="checkbox"/> EDUCATION AND TRAINING</li> <li><input type="checkbox"/> ALIGNMENT PROCEDURES</li> </ul>
ANSI CLASS 3a	<input type="checkbox"/> ENGINEERING CONTROLS <ul style="list-style-type: none"> <li><input type="checkbox"/> USE OF LASER IN NAVIGABLE AIRSPACE NEEDS TO BE COORDINATED WITH THE FAA</li> </ul>
ANSI CLASS 3b	<input type="checkbox"/> ENGINEERING CONTROLS <ul style="list-style-type: none"> <li><input type="checkbox"/> KEY CONTROL IF POSSIBLE</li> <li><input type="checkbox"/> NHZ ANALYSIS REQUIRED FOR OPEN BEAM PATH (Indoors &amp; outdoors)</li> <li><input type="checkbox"/> REMOTE INTERLOCK CONNECTOR IF POSSIBLE</li> <li><input type="checkbox"/> BEAM STOP OR ATTENUATOR IF POSSIBLE</li> <li><input type="checkbox"/> ACTIVATION WARNING SYSTEM IF POSSIBLE</li> <li><input type="checkbox"/> AREA POSTING</li> </ul> <input type="checkbox"/> ADMINISTRATIVE CONTROLS <ul style="list-style-type: none"> <li><input type="checkbox"/> SOPs</li> <li><input type="checkbox"/> ACCESS RESTRICTED TO AUTHORIZED PERSONNEL</li> <li><input type="checkbox"/> PPE IF NEEDED (Ocular &amp; skin)</li> <li><input type="checkbox"/> WARNING SIGNS AND LABELS</li> </ul>
ANSI CLASS 4	<input type="checkbox"/> ENGINEERING CONTROLS <ul style="list-style-type: none"> <li><input type="checkbox"/> KEY CONTROL</li> <li><input type="checkbox"/> REMOTE INTERLOCK CONNECTOR</li> <li><input type="checkbox"/> BEAM STOP OR ATTENUATOR</li> <li><input type="checkbox"/> ACTIVATION WARNING SYSTEM</li> <li><input type="checkbox"/> EMISSION DELAY</li> <li><input type="checkbox"/> REMOTE FIRING &amp; MONITORING IF POSSIBLE</li> </ul>

**OTHER POTENTIAL HAZARDS**

ELECTRICAL	TOXIC CHEMICALS (Specify)	CRYOGENIC MATERIALS
HIGH PRESSURE	NOISE	PROJECTILES
ULTRAVIOLET RADIATION	X - RADIATION	TRIPPING, FALLING OBJECTS
	OTHER (Specify)	FIRE HAZARD

REMARKS

PREPARED BY (Name, Grade, AFSC)

REVIEWED BY (Name, Grade, AFSC)