



# LASER HAZARD EVALUATION FORM

## GENERAL INFORMATION

PRINCIPAL INVESTIGATOR \_\_\_\_\_ LASER SAFETY OFFICER \_\_\_\_\_

LASER / LASER SYSTEM LOCATION \_\_\_\_\_

LASER TYPE \_\_\_\_\_ LASER MANUFACTURER \_\_\_\_\_

MODEL NO. \_\_\_\_\_ SERIAL NO. \_\_\_\_\_

WAVE LENGTH / WAVE LENGTH RANGE (nm) \_\_\_\_\_ MAX/AVE POWER (W) \_\_\_\_\_

PULSED yes  no  RATE (HZ) \_\_\_\_\_ DURATION (s) \_\_\_\_\_ POWER (J) \_\_\_\_\_

BEAM DIAMETER \_\_\_\_\_ BEAM DIVERGENCE (mRAD) \_\_\_\_\_

## LASER HAZARDS

MPE (W/CM<sup>2</sup>) \_\_\_\_\_ OPTICAL DENSITY (OD) \_\_\_\_\_ NOMINAL HAZARD DISTANCE (m) \_\_\_\_\_

DIFFUSE HAZARD DISTANCE (m) \_\_\_\_\_

### CHEMICAL HAZARDS

COOLANTS   
SOLVENTS   
GASES

OTHER \_\_\_\_\_

### OPTICAL HAZARDS

DISCHARGE TUBES   
UV/ WELDING   
VISIBLE   
IR

OTHER \_\_\_\_\_ OTHER \_\_\_\_\_

### LASER GENERATED HAZARDS

AIR CONTAMINANTS   
CHEMICAL FUMES   
METALLIC FUMES   
METALLIC DUSTS

### VENTILATION PROVIDED

LOCAL EXHAUS   
GENERAL VENTILATION   
OTHER \_\_\_\_\_

### NOISE ISSUES

YES   
NO   
KNOWN dBA \_\_\_\_\_

### FIRE HAZARDS

IMPROPER BEAM ENCLOSURES   
COMBUSTIBLE MATERIALS   
GAS / VAPOR IGNITION   
ELECTRICAL CIRCUITS

### ELECTRICAL HAZARDS

POWER SOURCES   
EXPOSED WIRING   
MISSING COVERS   
STORED ENERGY (CAPACITORS, ETC)

### IS LOCK OUT REQUIRED

YES  NO

### PROCEDURES ESTABLISHED

YES  NO

### COMPRESSED GAS CYLINDERS

PROPERLY STORED   
RESTRAINED   
REQUIRED SIGNAGE   
NO MISSING CAPS

## HAZARD CONTROL MEASURES

### SIGNAGE REQUIRED

DANGER   
CAUTION   
NOTICE

### PROTECTIVE DEVICES FOR STRAY BEAMS

BEAM BLOCKS  PATH COVERS   
BARRIERS  CURTAINS

### LASERS IN AREA

### EYE PROTECTION (OD)

OTHER PPE \_\_\_\_\_

### TRAINING PROVIDED BY

LSO   
OPERATOR   
MANUFACTOR

### ALIGNMENT PROCEDURES PRESENT

YES  NO

### STANDARD OPERATING PROCEDURES ESTABLISHED

YES  NO

COMPLETED BY: \_\_\_\_\_ DATE: \_\_\_\_\_