

(Coversheet)

## USSOCOM Experimentation Event

### Safety Worksheet

Revision 0.5

**Purpose:**

To identify safety risks associated with the operation of equipment to be demonstrated at a USSOCOM experimentation event and to ensure proper mitigations are identified and implemented facilitating a safe demonstration.

**Instructions:**

This worksheet is to be filled out in full by all applicants and submitted to [tech\\_exp@socom.mil](mailto:tech_exp@socom.mil) along with any supporting documentation.

Answers to the questionnaire and supporting documents shall be customized to the specific demonstration as planned or proposed. Generic hazard analyses can be provided if the system will be operated in the same manner for which the analyses were created.

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Submission Title: \_\_\_\_\_

Submission # (if known): \_\_\_\_\_

Short Description of the technology, system & planned demonstration:

*(this can reference a section of the technical submission or be a reproduction of text therein)*

Does your system contain a LASER or other source of optical radiation:  Yes  No

If you answered YES, please provide the following....

NOHD with/without magnification as applicable

OD

design wavelength

beam divergence

output power

verification of output

Independent government verification/measurement (by any of the Service laser technical safety authorities).

Does your system contain energetic materials:  YES  NO

If you answered YES, please provide the following....

Interim Hazard Classification (IHC)

Any preliminary evaluation of fuzing systems, summary of prior testing, etc.

Does your system contain a Radio-Frequency, Magneto-Inductive or other emitter:  YES  NO

If you answered YES, please provide the following....

Frequency, power density, antenna gain, independent measurement, analysis, certification, etc.

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A hazard analysis in accordance with MIL-STD-882E, "Standard Practice: System Safety", is required for each submission. Use of the format below is encouraged, but other formats are acceptable as long as the following fields are provided for each hazard:

Hazard Description

Mishap Probability\*

Mishap Severity\*

Risk Category\*

Hazard Controls / Mitigations

\*if the chosen format provides both 'initial' and 'mitigated/residual' ratings, they must be clearly identified.

Note: Additional information may be requested based upon content of information provided.

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Template:

Hazard Title – Hazard #	
Hazard Description	Hazard Probability/Severity/Category
Description shall include hazard Source, Mechanism & Outcome/Effect	Format will be Hazard Severity (1-4), Hazard Probability (A-E), and Hazard Category (High, Serious, Medium, Low)
Hazard Controls/Mitigations	
<ol style="list-style-type: none"><li>1. List all precautions, mitigations, warnings &amp; controls which can be implemented to reduce the mishap's probability of occurrence</li><li>2.</li><li>3.</li></ol>	

Example:

Ocular Injury – Hazard #	
Hazard Description	Hazard Probability/Severity/Category
Device emission of optical radiation is unintentionally reflected off target into eyes of participant causing permanent loss of sight	2–D, Medium
Hazard Controls/Mitigations	
<ol style="list-style-type: none"><li>1. Provide the approved Laser Safety worksheet in attachment A to the Laser Safety Officer</li><li>2. All participants at the range will be required to wear eye protection consistent with OD...</li><li>2. Targets will be selected to reduce reflection.</li><li>3. The danger zone provided in attachment B shall be used during the demonstration.</li></ol>	

Lasers:

Energetics:

RADHAZ