



INTERAGENCY AGREEMENT BETWEEN THE UNITED STATES  
CONSUMER PRODUCT SAFETY COMMISSION (CPSC) AND  
US ARMY GARRISON, ADELPHI LABORATORY CENTER (USAG ALC),  
BLOSSOM POINT RESEARCH FACILITY, WELCOME MARYLAND (BPRF)

I. PARTIES

CPSC is an independent regulatory commission and agency of the United States Government. The Blossom Point Research Facility is a military range under the authority of the U.S. Army Garrison, Adelphi Laboratory Center in Adelphi, Maryland, a component of the U.S. Department of Defense.

II. PURPOSE

This Interagency Agreement ("Agreement") specifies the terms of the parties' agreement and actions the parties will take to carry out in Procurement Request No. REA-2600-15-0060, including, but not limited to, CPSC's lease of land from USAG ALC for storage of CPSC materials, use of USAG ALC land for CPSC materials testing and destruction, and support services provided by USAG ALC to CPSC during materials testing and destruction.

III. AUTHORITY

CPSC AUTHORITY: Section 27(g) of the Consumer Product Safety Act, (15 U.S.C. 2076(g)).

DOD Authority: DOD Directive, 6050.8, 27 February 1986, Storage and Disposal of Non-DOD Owned Hazardous or Toxic Materials on DOD Installations; Title 10, USC, Section 2692, Chapter 159; Army Regulation AR 385-63 Range Safety.

IV. STATEMENT OF WORK AND PARTY RESPONSIBILITIES

- a. USAG ALC will lease CPSC 1.5 acres of land to carry out CPSC's mission. CPSC will have exclusive use of this land during the lease period. CPSC will place two Department of Defense approved explosives magazines and store CPSC samples, including fireworks samples, in the explosives magazines along Loop

Road at Blossom Point. CPSC will provide a lightning protection system for each explosive magazine.

- b. USAG ALC will provide grounds maintenance on the leased land, to include:
  - i. Annual inspection of the lightning protection system. USAG ALC will report any failures or deficiencies with the lightning protection system to CPSC and CPSC will be responsible for repair and maintenance for the lightning protection system.
  - ii. Weekly grass cutting on the leased land during spring, summer, and fall (1 hour a week; 40 hours a year).
- c. USAG ALC will provide CPSC with exclusive use of the leased land, security services for the leased land, including preventing unauthorized access to leased land and samples stored in the explosive magazines.
- d. USAG ALC will provide support services to CPSC during sample testing and research, including use of the Blossom Point Research Facility's testing range for CPSC sample testing and research, communications, assistance during testing, firefighting and emergency services.
- e. CPSC will follow the storage protocols set forth in this Agreement.
  - i. CPSC will be responsible for transportation of all samples to the BPRF and within the facility grounds. CPSC will transport the samples in accordance with applicable law and agency directives and policies.
  - ii. CPSC's lease specifically includes use of the Blossom Point Research Facility for sample testing, following the protocols set forth in this Agreement.
  - iii. CPSC's lease specifically includes use of the BPRF for sample testing, following the protocols set forth in this Agreement.
  - iv. CPSC will be responsible for disposal of all waste materials generated by CPSC as a result of sample testing and analysis.

#### V. CPSC ACCESS TO BLOSSOM POINT

USAG ALC will permit CPSC access to, and use of, the leased land, for the purposes specified in this Agreement at any time from 0700 to 1530, Monday through Friday (with the exception of federal holidays or government closures) via scheduling.

Upon arrival at Blossom Point, CPSC employees will:

1. Report to Blossom Point administration building (511) and sign the visitor's log
2. Meet with the Range Control Officer and Range Safety Officer to confirm availability of range site used for CPSC sample testing,
3. Confirm permission to move onto the range area and
4. Provide a written inventory of CPSC samples

#### VI. CPSC SAMPLE STORAGE PROTOCOL

The parties agree to the following protocol for CPSC handling and storage of samples at BPRF:

1. The CPSC Range Control Officer will get approval, from the USAG ALC Range Control Officer and/or Site Manager before delivery to the site, that all magazines and locks meet the Department of Defense standards.
2. CPSC will provide magazines and locks that meet Department of Defense approval. The magazines and locks will be approved by the USAG ALC Range Control Officer.
3. CPSC will store all samples within a Department of Defense approved explosives magazines and secure with Department of Defense approved locks. All locks and magazines will be provided by CPSC.
4. CPSC will provide an up to date sample inventory to USAG ALC, BPRF at each site visit.
5. USAG ALC will ensure CPSC employees obtain authorization to enter the testing range.
6. USAG ALC will provide a communications radio to CPSC employees in order to maintain direct contact between the parties at all times while CPSC employees are on USAG ALC property.
7. USAG ALC will direct CPSC staff onto the range by an approved route and direct CPSC staff to a parking area at or about the CPSC Office of Facilities Services (EXFS) testing chamber or Laboratory Sciences (LSC) test site.

#### VII. GENERAL SAMPLE TESTING PROTOCOL

The parties agree to the following general protocol, to apply to all CPSC tests of samples, including fireworks, at BPRF:

- a. CPSC agrees to follow USAG ALC written policies and verbal instructions from the Blossom Point Range Control Officer and/or Blossom Point Range Safety Officer.
- b. On the day of the test, CPSC will review CPSC's testing plan with Blossom Point's Range Control Officer and/or Range Safety Officer and address USAG ALC safety concerns.
- c. CPSC employees will obtain authorization from the Range Control Officer and/or Range Safety Officer before entering Blossom Point's testing range.
- d. Blossom Point's Range Control Officer and/or Range Safety Officer will provide CPSC with a communications radio to maintain direct contact during testing.
- e. CPSC staff will be shown onto the range by approved route and park the CPSC vehicle at or about the testing chamber or test site.
- f. CPSC employees will inspect the test site for all trash, debris, other test materials. USAG ALC will remove any non-CPSC trash, debris, or test materials from the range in advance of testing.
- g. USAG ALC employees will not assist with handling, loading, or testing of CPSC samples.
- h. USAG ALC employees will remain on site during CPSC testing and be prepared to provide firefighting and emergency medical services, immediately upon request.

## VIII. CPSC CHAMBER TEST PROTOCOL

In addition to observing the Agreement's General Protocol, CPSC employees will remain on the range after completing chamber testing activities until Blossom Point's Range Control Officer approves departure. CPSC will safely and securely pack testing equipment, inspect the test site for safety, ensure all fires or burning materials are extinguished, and obtain Range Control Officer's authorization before leaving the range.

After Blossom Point's Range Control Officer approves CPSC employees request to leave the range, CPSC employees will return the communication equipment, sign-out in the log book, and leave Blossom Point.

## IX. CPSC FIELD TEST PROTOCOL

In addition to observing the Agreement's General Protocol, the parties agree to specific procedure for field tests:

### a. Pre-Testing Protocol

- i. CPSC will provide adequate and appropriate firefighting equipment, including but not limited to, a water truck with fuel, a full tank of water, and a water pump in working order.
- ii. The Blossom Point Range Control Officer will advise CPSC of the appropriate travel route to the designated testing location.
- iii. CPSC will obtain verbal permission to begin testing from Blossom Point's Range Control Officer before igniting the first firework sample.
- iv. USAG will provide safety supervision, radio availability, firefighting services and clean-up of test range areas.
- v. USAG ALC employees will not assist with handling, loading, or testing of CPSC samples.
- vi. USAG ALC employees will remain on site during CPSC testing and be prepared to provide firefighting and emergency medical services, immediately upon request.

### b. Post Testing Protocol

- i. CPSC will survey the test field and remove spent samples, including fireworks devices. CPSC will collect and perform and render a safe procedure of any fireworks sample that did not function, by soaking the sample with water from the fire truck and carefully place the sample in a disposal container.
- ii. CPSC will notify Blossom Point's Range Control Officer, by radio or in person, that CPSC has completed sample testing and request permission to return to the USAG ALC/BPRF administration building.

- iii. CPSC will follow all Range Control Officer instructions, including instructions on return travel to the USAG ALC/BPRF administration building and sign out at the main office building prior to leaving Blossom Point.
- iv. CPSC will move unspent fireworks and debris from the disposal container to the test chamber.

## X. EMERGENCY PROTOCOL

### a. In the Event of a Fire

In the event of a fire, CPSC will cease all fireworks testing activity and immediately notify the Range Control Officer or Range Safety Officer. USAG ALC will provide firefighting services to CPSC during testing, including fire suppression using smothering devices or use of a water truck to extinguish a fire. CPSC employees will not attempt to suppress a fire under any circumstances.

CPSC will resume sample testing if a fire is extinguished safely and quickly.

CPSC will notify the Range Control Officer and Range Safety Officer if a fire cannot be easily and quickly contained by USAG ALC firefighting personnel. CPSC will follow instructions provided by the Blossom Point Range Control Officer at all times.

### b. In the Event of an Injury

If possible, CPSC employees will contact the Range Control Officer or Range Safety Officer for assistance, then secure the scene (it may be necessary to extinguish a fire or douse a live fireworks device with water), and attempt to stabilize the injured person.

Blossom Point will follow USAG ALC procedures to provide medical treatment or aid to the injured person.

## XI. SAFETY TRAINING, CERTIFICATIONS, AND OTHER REQUIREMENTS

CPSC will ensure that its employees conducting sample testing at Blossom Point maintain training certifications as required by Blossom Point. Upon request, CPSC will provide employee training certifications to Blossom Point Range Control Officer. CPSC will review safety procedures relating to this agreement annually and make updates as required.

CPSC employees will report all safety issues or cause for concern to Blossom Point Range Control Officer, including vehicle operations, equipment failure or damage, accidents and or injuries.

CPSC will use personal protection equipment (PPE) at all times during sample handling, transfer, loading of the test chamber and fireworks testing to include eye protection (ANSI-Z87.1), dust masks, gloves, full outer jumpsuits (optional) and safety shoes.

XII. LIABILITY AND RISK OF LOSS

Subject to the availability of funds and applicability of governing law, each party to this Agreement assumes the risk of damage to its own property and injury to its own personnel in executing this Agreement.

XIII. PERIOD OF PERFORMANCE

1. This Agreement will go into effect upon signature by both parties. Changes may be made to this Agreement with the written consent of both parties. This Agreement will remain in effect until the earlier of (a) May 20, 2018, or (b) the termination by either party with a 60-day prior written notice to the other party.
2. Funding for FY-2015 is provided in this agreement from the effective date through 9/30/2015. Future funding shall be added by modifications to this agreement.
3. This agreement may be modified by mutual consent of both parties or canceled upon 60 calendar days advance written notice by either party.

XIV. DISAGREEMENTS

Disputes related to this Agreement shall be resolved in accordance with instructions provided in the Treasury Financial Manual (TFM) Volume 1, Part 2, Chapter 4700, Appendix 10; *Intragovernmental Business Rules*, at: <http://www.fms.treas.gov/finstandard/reference.html>.

XV. POINT OF CONTACT

**FOR CPSC:**

James D. Shupe  
Services Management Officer  
U.S. Consumer Product Safety Commission  
4330 East West Highway  
Bethesda, MD 20814  
Tel: 301-987-2211  
Email: [jshupe@cpsc.gov](mailto:jshupe@cpsc.gov)

Douglas L. Brown  
Director, Office of Facilities Services  
U.S. Consumer Product Safety Commission  
4330 East West Highway  
Bethesda, MD 20814  
Tel: 301-504-7846  
Fax: 301-504-0148  
Email: [dbrown@cpsc.gov](mailto:dbrown@cpsc.gov)

**FOR USAG ALC/BPRF:**

John E. Kaiser, Jr.  
Exec. Assistant for Blossom Point Research Facility  
15000 Blossom Point Road

Welcome, MD 20693  
Tel: 301-394-1534  
Email: [john.e.kaiser8.civ@mail.mil](mailto:john.e.kaiser8.civ@mail.mil)

Mary B. Woolworth  
US Army Garrison  
Adelphi Laboratory Center, Resource Manager  
Adelphi, MD  
Tel: 301-394-1202  
Email: [mary.b.woolworth.civ@mail.mil](mailto:mary.b.woolworth.civ@mail.mil)

XVI. PAYMENT OFFICE INFORMATION

CPSC PAYMENT OFFICE  
CPSC Accounts Payable Branch, AMZ-160  
PO Box 25710  
Oklahoma City, OK 73125

AGENCY PAYMENT OFFICER:  
Debbie Young, Agency Payment Officer  
Enterprise Service Center  
Office of Financial Operations  
Federal Aviation Administration  
PO Box 25710  
Oklahoma City, OK 73125  
(405) 954-7467  
[9-AMC-AMZ-CPSC-Accounts-Payable@faa.gov](mailto:9-AMC-AMZ-CPSC-Accounts-Payable@faa.gov)

XVII. COST AND TRANSFER OF FUNDS

The total cost for this Agreement is estimated at \$49,650.00, provided with CPSC FY-2015 funds.

XVIII. ACCOUNTING DATA

The transfer of funds shall be from CPSC to USAG ALC through checks or MIPRS.

**Transfer From:**  
CPSC  
BETC: DISB  
Taxpayer ID Number (TIN): 520978750  
Agency Location Code (ALC): 61-00-0001  
DUNS 069287522  
US Treasury Code: 61150100

Blossom Point Expenses thru 9/30						
	Item #	Acct Data	Days	Cost per Day	Total	
EXFS	0001	EXFS002600 253W0	10	3,000	30,000	
EXFS	0002	EXFS002600 253X0	Lump sum through 9/30		1,650	
EXH R	0003	EXHR004200 253B0	6	3,000	18,000	
<b>Grand Total</b>					<b>49,650</b>	

AMOUNT: \$ 49,650.00

ACCOUNTING DATA:

ITEM 0001: 0100A15DSE 2015 9994200000 EXFS002600 253W0 - \$30K

ITEM 0002: 0100A15DSE 2015 9994200000 EXFS002600 253X0 - \$1,650

ITEM 0003: 0100A15DSE 2015 3116300000 EXHR004200 253B0 - \$18K

**To:**

BETC: COLL

Taxpayer ID Number (TIN): 540887499

Agency Location Code (ALC):

DUNS

US Treasury Code:

AMOUNT: \$ 49,650.00

ACCOUNTING DATA:

**XIX. ATTACHMENTS**

The parties attach the USAG ALC Standard Operating Procedures that apply to all military and civilian personnel while using the ranges or facilities at Blossom Point. The parties also attach a sample magazine inventory to document CPSC samples per this Agreement.

- a. US Army ALC-BPRF SOP NO. BP-0001 Dated: 1 May 2015
- b. CPSC Magazine Inventory

**XX. NO DELEGATION OR AGENCY RELATIONSHIP CREATED BY THIS AGREEMENT**

- a. No provision of this Agreement shall be construed as a delegation by CPSC of any of its statutory authority to USAG ALC; and
- b. This Agreement does not establish an agency relationship and USAG ALC has no authority to act as CPSC's agent or commit CPSC in any manner with respect to the Services.

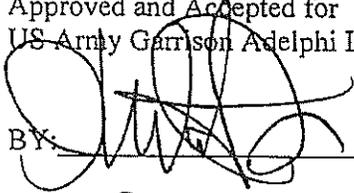
XXI. GOVERNING LAW

This Agreement, and the rights and obligations of the parties hereto, shall be governed by and construed in accordance with the laws of the United States.

XXII. SIGNATURES AND COUNTERPARTS

The authorized officials whose signatures appear below are duly authorized to execute this Agreement on behalf of their respective organizations. This Agreement may be executed in counterparts.

Approved and Accepted for  
US Army Garrison Adelphi Lab.

BY: 

TITLE: Garrison Mgr

DATE: 8/4/15

Approved and Accepted for  
Consumer Product Safety Commission

BY: AAhmad  
Eddie Ahmad

Digitally signed by AAhmad  
DN: o=CPSC, ou=HQ, ou=EXAD,  
cn=AAhmad  
Date: 2015.08.05 10:22:45 -0400

TITLE: Contracting Officer

DATE: \_\_\_\_\_

**U.S. Army  
Adelphi Laboratory Center  
Blossom Point Research Facility (BPRF)  
Welcome, Maryland 20693**

**STANDING OPERATING PROCEDURES**

1. OPERATION: General Range Operations

2. Estimated Daily Production Rate: N/A

3. Organizational Symbol: IMAL-ZBP

4. SOP NO. BP-0001 Date: 1 May 2015

a. REV NO. \_\_\_\_\_ DATE: \_\_\_\_\_

b. Change NO. \_\_\_\_\_ DATE: \_\_\_\_\_

c. Authority. \_\_\_\_\_ DATE: \_\_\_\_\_

5. PREPARED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
Dorothea Thompson PHONE: COMM 301 394-1532  
Operations Officer

6. APPROVAL BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
Jack Kaiser PHONE: COMM 301 394-1534  
Installation Range Control Officer

**U.S. Army Adelphi Laboratory Center  
Blossom Point Research Facility  
Welcome, Maryland 20693**

**May 10, 2013**

**Safety  
RANGE AND FACILITY OPERATIONS**

**Summary**

This revised regulation updates the policies, safety procedures, and administrative procedures for requesting and using live fire ranges and research facilities at the U.S. Army Blossom Point Research Facility (BPRF).

**Applicability**

This regulation is applicable to all personnel, military and civilian, engaged in any activity, official or unofficial, while using the ranges or facilities at Blossom Point Research Facility, Welcome Maryland

**Supplementation**

Supplementation of this regulation is prohibited without prior approval from the proponent.

**Suggested improvements**

The proponent of this SOP is the Blossom Point Range Control, Range Control Officer Directorate of Installation Management, IMCOM. Users may send comments and suggested improvements to [john.e.kaiser8.civ@mail.mil](mailto:john.e.kaiser8.civ@mail.mil)

**Appendix A**

References

AR- 385-63  
Range Safety

AR 385-40  
Army Accidents Investigations and Reporting

AR 95-20  
Contractors Flight and Air Operations

DA PAM 385-26  
The Army Electrical Safety Program

**Appendix B**

IRCO- Installation Range Control Officer

RSO- Range Safety Officer

RCO- Range Control Officer

OIC- Officer in Charge

POV- Privately Owned Vehicle

POW – Privately Owned Weapon

IAW- In accordance with

SOP – Standard Operating Procedure

AR- Army Regulation

POL- Petroleum and Oil Lubricants

NFPA – National Fire Protection Association

NRTL – Nationally Recognized Testing Laboratory

GCFI- ground fault circuit interrupter

AHJ - authority having jurisdiction

**The following prohibited activities are not all inclusive.**

Other prohibitions may be declared at varying times throughout the year due to weather, fire danger, flooding, environmental, or other conditions.

1. Handling unexploded ordnance, or removing any item from any range or impact area is prohibited under penalties provided for by Federal Law and the Uniform Code of Military Justice. This includes, but is not limited to, the unauthorized removal of brass, scrap metal, or ammunition residue.
2. Collecting prehistoric or historic artifacts, fossils or old objects, or digging or destroying archeological or paleontological sites, is prohibited within the confines of Blossom Point Research Facility as part of the installation's Integrated Resources Management Program.
3. Digging slit trenches, gun positions, sumps, or holes of any other type, or cutting vegetation of any type or in any manner is prohibited. All digging requirements must be approved by the Installation Range Control Officer and performed by Blossom Point personnel.
4. Blocking roads, trails, or fire breaks, unless specifically approved by Range Control.
5. Entry to or use of any range or test facility without the approval of Range Control.
6. Use of unscheduled ranges, facilities, or any other areas for personal convenience, to include the discharge of any Privately Owned Weapon (POW) for the purpose of target practice or zeroing. Additionally, POWs will not be permitted on any range.
7. Nonstandard use of ranges, or test facilities, unless specifically noted on original test request, and approved by Range Control.
8. Firing weapons at wild game while utilizing a range or test area. Details of any injury or death of wild game will be immediately reported to Range Control.

9. Driving of Privately Owned Vehicles (POV) to include motorcycles and off road vehicles except in case of an emergency or approval of Range Control.

10. Entering any road, trail or firebreak without prior approval of Range Control.

**Using units, agencies, and organizations will-**

1. Submit a test request for utilization of ranges, or facilities along with a Test Plan and a SOP to [dorothea.f.thompson.civ@mail.mil](mailto:dorothea.f.thompson.civ@mail.mil) and [john.e.kaiser8.civ@mail.mil](mailto:john.e.kaiser8.civ@mail.mil) at a minimum of 30 days before the anticipated date of use.

2. Designate an Officer In Charge (OIC) and a Range Safety Officer (RSO). The requirements for appointment of OIC and RSO require approval from the Installation Range Control Officer (IRSO).

3. Ensure the OIC and RSO report to Range Control prior to the scheduled date of testing to become familiar with the local SOP published specifically to their activity and the range where testing is to be conducted. Both individuals will have in their possession and be knowledgeable of the range communication radio.

4. Ensure that individuals selected to be OIC and RSO are thoroughly trained and have demonstrated a complete knowledge of procedures to operate the weapon, the ranges and test areas. Submit any certifications of training to Range Control for approval and to be placed on file until their expiration. The training will also include safety procedures.

5. Ensure personnel reporting to Range Control to sign for ranges, facilities, or test areas have in their possession a properly approved test request, and a properly executed risk assessment for the activity to be conducted.

6. Request permission to go "HOT" from Range Control IAW the scheduled testing start time on the approved request for the activity. Testing activity will not start until Range Control has issued a "HOT" status to the requesting unit.

7. Inform Range Control or Operations, as far in advance as possible, when use of a scheduled range or facility has been cancelled.
8. Ensure that no alterations are made to range facilities and that Government property is not damaged or destroyed. Immediately report deficiencies and damages to Range Control.
9. Ensure that all personnel and visitors use personal protection equipment as required.
10. Upon completion of testing, remove all trash, and litter from the ranges, facilities and test areas used.
11. Request a "COLD" status from Range Control upon completion of range activities. This will be accomplished upon the determination by the OIC that no further live fire will take place and the last task of the event has been completed for the day.

### **General Safety**

The following topics regarding safety are general in nature and apply to all users of Blossom Point Research Facility regardless of activities.

Safety inspections by Range Control personnel are conducted periodically during range activities.

Range Control personnel will not be denied access to any range, facility, or test area by the using unit. Range Control personnel have the authority and responsibility to declare a cease fire or to halt any activity which is deemed by them to be unsafe or unauthorized. The Range Control Officer, or his designated representative, has the authority to decertify the OIC and or RSO. In such instances, all activity will be stopped until a qualified individual is appointed by the Installation Range Control Officer (IRSO).

**In addition the following safety procedures will be strictly adhered to—**

All weapons or energetic materials taken to a range will be stored in the Blossom Point approved day bunkers.

All weapons located on a live-fire range will be presumed to be loaded. Under no circumstances will weapons be pointed at anything other than the authorized targets. All weapons will be inspected by a designated Range Safety Officer. No weapon will be advanced to, or removed from the firing line until inspected twice. The weapon should be checked by the individual or OIC, the individual or OIC should look away, and check the chamber again for ammunition. The weapon inspection is to ensure that the weapon is unloaded, cleared and the selector lever is placed in the "SAFE" position.

All weapons will be fired remotely or by static fire when possible.

The red flag will be displayed and or the flashing red light will be lit before firing. The flashing red light is required for limited visibility and or night operations. Prior to firing, all individuals on the range will be informed of the safety limits of the range.

No smoking is allowed within 50 feet of ammunition or explosives storage areas, range buildings, or in the firing area.

Ammunition and/or explosives will be transported and handled only under the direct supervision of qualified Blossom Point personnel and or certified individuals who are thoroughly familiar with the safety regulations listed in AR 385-63.

Caution will be exercised while opening boxes containing ammunition or explosives so that no sparks are produced. No more ammunition or explosives should be uncrated than is necessary for four hours of research.

Ensure all persons involved in the operation turn cell phones off during operations.

Personnel will be protected in an approved bomb proof or removed from the danger zone at the time of firing and outside of the fragmentation zones for safety.

The Net Explosive Weight (NEW) limit for BPRF is 15 pounds (TNT equivalent) hazard division 1.1. The specific explosive limits of the specific operating area, building or room shall be observed.

The explosive limit for the thermo baric test chamber is 10 pounds TNT equivalent.

The NEW for 1.3 powders/propellants permitted on the range at one time will be assigned on a case by case basis and will include concurrence of the Installation Range Control Officer, and relevant supporting data and analysis for the assignment. Powders/propellants with a probability to “Mass Detonate” will be limited to 15 pounds NEW.

Ammunition and/or explosives held for use on any range will not be subjected to hazardous conditions. Ammunition and/ or explosives will be stored well away from active firing and back blast areas, in areas not subject to grass fires, and off roadways. Ammunition and /or explosives will be protected from the direct rays of the sun, and covered during inclement weather, especially after uncrating.

**Ammunition malfunctions/misfires will be handled as follows—**

Misfire is a failure to fire or detonate, which may be due to a faulty firing mechanism or a faulty element in the propelling charge explosive train.

Procedures for handling misfires are outlined in the manufacturer’s operational guide for each weapon system and shall be followed during a misfire.

These instructions are to be followed without deviation. Special care will be taken when handling misfires in hot weapons.

Under those conditions, ammunition which will not fire after and after re-fire procedures have been followed will remain in the weapon until the appropriate cooling off period has ensued, (30 minutes) with the weapon pointed down range, evacuated, and protected from molestation. In any event, retrieved misfires (using approved retrieval methods) are to be segregated from other Ammunition and marked. The Installation Range Control Officer will assess the situation and has the option to call in an EOD specialist to determine what needs to be done.

**Electrical Safety**

**DA PAM 385-26 Reference available at building 511**

**Risk management**

An approved risk management worksheet with job hazard analysis is required in all electrical related operations. A risk assessment will be developed in all electrical related operations before work is started within the limited approach

boundary or arc flash boundary of energized electrical conductors and circuit parts operating at 50 volts (V) or more or where an electrical hazard exists. Appropriate control measures will be implemented prior to start of work. Job hazard analysis will be developed for all workers working within limited approach boundary or arc flash boundary of energized electrical conductors and circuit parts operating at 50V or more or where an electrical hazard exists.

### **General Electrical Requirements**

The following will apply to all workplaces, including military quarters and field locations:

- a.* Unqualified personnel will not conduct any electrical work and will not approach unprotected energized parts, including power lines. See paragraphs 3–8 through 3–10 for specific distances in DA PAM 385-26.
- b.* All electrical equipment used in Army workplaces will be listed by a NRTL or inspected and approved by the AHJ.
- c.* All equipment will be used in accordance with manufacturer’s instructions or technical manuals.

### **Extension cords**

Use extension cords only when necessary and only on a temporary basis. The following usage guidelines apply:

- a.* Use only polarized extension cords with polarized appliances
- b.* Replace cracked or worn extension cords with appropriately rated and sized cords that have NRTL listing, safety closures, and other safety features.
- c.* Insert plugs fully so that no part of the prongs is exposed when the extension cord is in use.

- d.* Check the plug and the body of the extension cord while the cord is in use. Replace the cord if it is hot. This is an indication that the cord is overloaded and should be replaced with a cord having larger conductors.
- e.* Do not use staples or nails to attach extension cords to a baseboard or to another surface. This could damage the cord and present a shock or fire hazard.
- f.* Ensure appliances are used with cords that are rated at or above the current and voltage need by the appliance.
- g.* Use only three-wire extension cords for appliances and power tools with three-prong plugs. Never remove the third (round or U-shaped) grounding prong, which is a safety feature designed to reduce the risk of shock and electrocution. Never use adaptors designed to defeat the grounding connection. Flexible cord used with grounding type equipment will contain an equipment grounding conductor.
- h.* When using outdoor tools and appliances, use only extension cords labeled for outdoor use and protected by a GFCI device.
- i.* Stringing of extension cords (daisy chain or splitting) or going from one cord to several (tree branching) is prohibited unless approved by local safety authority.
- j.* Use power strips only for low amperage equipment such as computer monitor, fan, computer, printer, and so forth and they will not be daisy chained. Do not plug extension cords into plug strips.
- k.* Do not use extension cords in areas where flammable liquids are stored or used unless they are properly rated in accordance with NFPA 70 (NEC).
- l.* Cord- and plug-connected tools and equipment have the same issues as extension cords; therefore, these requirements also apply to their use.
- m.* When using extension cords and cord- and plug-connected equipment in wet or damp locations, indoor or outdoor, a GFCI will be used for protection against shock or electrocution.

*n.* Job-made extension cords are prohibited. Only purchased, approved extension cords are acceptable.

### **Portable electric heaters**

The local command will establish a policy on portable electric heaters. Portable electric heaters are high-wattage appliances that have the potential to overload circuits and/or cords or ignite nearby combustible materials like curtains, beds, sofas, paper, clothing, and flammable liquids. If ignition results from a heater left on and unattended, a major fire could result.

*a.* Never operate a heater suspected of being damaged. Before use, inspect the heater, cord, and plug for damage.

Follow all operation and maintenance instructions or visit <http://www.recalls.gov> to see if that model of electric heater has been recalled. Also visit the Consumer Safety Product Services Web site at <http://www.cpsc.gov> for additional information.

*b.* Never leave the heater operating while unattended or while sleeping.

*c.* Keep combustible material such as beds, sofas, curtains, papers, and clothes at least 3 ft (0.9 m) from the front, sides, and rear of the heater.

*d.* Be sure the heater plug fits tightly into the wall outlet. If not, do not use the outlet to power the heater.

*e.* During use, check frequently to determine if the heater plug or cord, wall outlet, or faceplate is hot. If so, discontinue use of the heater and have a qualified electrician check and/or replace the plug or faulty wall outlet(s). If the cord is hot, disconnect the heater, and have it inspected and/or repaired by an authorized repair person.

*f.* Never power the heater with an extension cord or power strip.

*g.* Ensure that the heater is placed on a stable, level surface, and located where it will not be knocked over.

- h.* Always keep electric heaters away from water, and never touch an electric heater if skin or clothing is wet.
- i.* In older buildings, consult with supporting facility electricians to determine if the building wiring can support the additional load of portable electric heaters

### **Electrical receptacles**

Electrical outlets in walls and floors may present shock and electrical fire hazards to Army personnel facilities, and equipment. Use and install receptacles in accordance with NFPA 70 (NEC) and manufacturer's instructions.

The following are general guidelines:

- a.* Only qualified personnel will install receptacles or replace damaged receptacles or those which feel hot, emit smoke or sparks, have loose fitting plugs, have signs of melting or carbonization (soot), or those where plugged-in lamps flicker or fail to light.
- b.* To prevent damage to receptacles, appliances should be switched off before unplugging from a receptacle.
- c.* Immediately discontinue use of a receptacle outlet that is too hot  
Obtain help from a qualified electrician as soon as possible. Follow local procedures for contacting a qualified electrician. Contact your supervisor.
- d.* Do not unplug appliances by pulling on the cord. The brittle plastic face of the receptacle may crack and break away, leaving live parts of the receptacle exposed. Unplugging by pulling on the cord also damages the cord by breaking strands of the conductors.
- e.* Attachment plugs and receptacles must not be connected or altered in a manner which would prevent proper continuity of the equipment grounding conductor at the point where plugs are attached to receptacles. Attachment plugs and receptacles must not be altered to allow the grounding pole of a plug to be inserted into slots intended for connection to the current-carrying conductors. Adapter plugs that defeat the grounding connections will not be used.

## **Range and Test Area use**

Adequate ventilation will be provided for all types of fuel powered equipment to prevent accumulation of carbon monoxide.

Flammable materials will be stored and used properly. Gasoline will not be stored inside buildings or tents; it will not be used as a cleaning agent or solvent.

Operation of kitchen equipment, space heaters, generator equipment, lanterns, and related equipment will be restricted to trained personnel. The area around the equipment will be cleared of flammable and combustible materials to prevent fires.

Generators, refueling vehicles, and electrical equipment will be properly bonded and grounded.

Vertical antennas will be located to ensure that a distance of at least twice the antenna height is maintained between power lines and antenna, to preclude contact during assembly and disassembly.

## **Loading room procedures for Blossom Point**

Only qualified personnel will be permitted to engage in explosive operations. A minimum of two (2) qualified operators are necessary for any hazardous operation. Personnel for each operation are limited to the minimum number necessary to accomplish each task in a safe and efficient manner. Explosive personnel and transients limits will be posted in each location. Visitors and personnel not assigned to the operation are not allowed to participate in any hazardous operation and are under the authority of the Installation Range Control Officer (IRCO) and the Officer in Charge (OIC). Operators will wear approved eye protection when working with explosive components. All work being performed with electrically initiated or static sensitive explosive devices will be accomplished in shielded rooms. Operators will wear eye protection, cotton clothing, conductive shoes and wrist bands. Shoes and wrist bands will be tested at the beginning of each work day.

Safety hand tools shall be constructed of spark resistant materials such as bronze, lead alloys and “K” Monel metals which, under normal conditions of use will not produce sparks. They must have wood or plastic handles or other insulation.

Power tools such as electronic test equipment (Oscilloscopes, digital cameras, electronic microscopes, monitors, ohm meters, scales and other similar items and tools) may be used in the loading room if there is no known threat of creating an “explosive atmosphere” such as created during the process of pouring or pressing or energetic materials. During such operations only approved “explosion proof” equipment will be permitted in the loading area. Such operations will be detailed in a supplement to this SOP. All bonding and conductive flooring will be tested annually and meet specifications as required by AR 385-64. The testing is to be accomplished by the Garrison Adelphi Laboratory Center Electrician. The test results will be kept at the facility and copies furnished to the Garrison Safety Manager. When working with sensitive explosives the humidity should be kept at 45-60%.

### **Hazardous Materials Limit**

The Net Explosive Weight (NEW) limit for BPRF loading room is 20 pounds hazard division 1.1, 1.2, and 200 pounds of 1.3 at any one time.

### **Lightning**

While lightning strikes are not predictable, recognized precautions should be taken to decrease the likelihood of lightning casualties. Thunderstorms build up tremendous electrical potential, which searches for the shortest and easiest path to the ground. Therefore, lightning is attracted to metal fences, wires, or the tallest object available, such as trees, isolated buildings, antennas, towers, animals, or people in open areas.

**The following precautions are recommended—**

1. When an electrical storm is approaching, the Installation Range Control Officer (IRSO) and /or the RSO at the range or test area will make a decision regarding the lightning hazard and whether halting activities is necessary. This decision will be based on information gathered from the lightening detection system installed at building 511.
2. Personnel will dismount from all metal machinery and move to a safe distance. A safe distance is approximately 100 yards from metal machinery, depending upon the terrain and conditions.
3. Personnel in an outside area should avoid hilltops, haystacks, lone trees, flagpoles, fences, overhead wires, tents, and metallic objects, such as weapons of any kind, open top vehicles, trucks, and HMMWVS (High-Mobility Multi Wheeled Vehicle). Personnel may safely remain in enclosed vehicles.
4. Should personnel be unavoidably caught in a flat, open space or on a bare hilltop, they will not be allowed to huddle together. They should disperse to reduce the attraction of lightning to a mass of bodies.
5. Personnel should attempt to take shelter in dense woods or a grove of trees but avoid trees standing alone. Personnel will maintain a low profile if caught in an open, flat area. When taking shelter, only the minimum metal objects should be retained. In the event buildings are available in the immediate area, personnel should seek shelter in the largest building possible. A well-grounded metal frame building offers the most protection.
6. In the event of one or more lightning casualties, notify Range Control immediately by the quickest and safest means. Range Control will immediately call for emergency medical support. In many instances personnel are only temporarily stunned or paralyzed and can be revived with prompt first aid measures. Immediate attention should be directed to those who may appear to be immobile. Individuals who are stunned or dazed but moving about can usually recover alone but will require examination by medical personnel as soon as possible. Those who's breathing and/or heartbeat has stopped need immediate attention. Brain damage can occur in as little as four minutes. Should such a casualty occur, a qualified person should begin artificial respiration and

cardiopulmonary resuscitation, treat for shock, and evacuate to the nearest hospital emergency room.

### **Accident or Incident Reporting**

Accidents or incidents involving weapons, ammunition, explosives, or pyrotechnics, which result in death or injury to personnel or damage to equipment, will cause a cessation of all activities. Range Control will be notified immediately with the details of the accident or incident. The first priority is to obtain medical support on or off site for personnel sustaining injury. Weapons, ammunition firing data, and material related to the accident are to be left in place. Safety and Security personnel will be contacted by Range Control to conduct appropriate investigations.

In the event of an accident or incident not causing death or injury to personnel or substantial damage to equipment, Range Control will be notified immediately. The Range Control Officer or his representative will assess the impact and determine if testing is to continue, and notify appropriate personnel to conduct necessary investigations.

Accidents are to be reported IAW AR 385-40 on DA Form 285 (U.S. Army Accident Report).

#### **Essential elements of information include--**

- (1) Time, date, and place of accident.
- (2) Name
- (3) Cause of accident.
- (4) Nature of injury or injuries.
- (5) Was the injured person evacuated to the hospital? If so, at what time and what facility?
- (6) Person submitting report. (Name, duty position, and telephone number)

## **Range/Wild Fires**

If a fire starts on a range or test area or in the vicinity of a building there will be an immediate halt of all activities will occur, and the range/or test area will remain in a "COLD" status until Range Control issues a new "HOT" status. No live fire range will be given a "HOT" status until all personnel involved in evaluating or fighting the fire have returned from down range and have been accounted for. If a wildfire starts in the explosives storage area all roadways will be immediately closed until the Installation Range Control Officer gives the all clear.

The using unit of any live fire range, test area, or facility will immediately notify Range Control, via the quickest means available, of any fire observed, regardless of the size or cause. This report will include the exact location, the cause, approximate size, and immediate action taken to suppress the fire (per unit fire suppression plan or as directed during initial Range Control briefing).

Range Control will notify the local Fire Department, who will determine the subsequent action. Once on site, the senior Fire Department official assumes command and control of the fire site and fire fighting operations. The Range Control Officer will locate the fire scene as requested by the local fire department fire fighters and provide assistance as necessary.

## **Air land or Airdrop Operations**

The use of facilities and areas for air land or airdrop operations must be requested IAW this SOP.

### **The aircraft team is responsible for--**

- (1) Advance face-to-face coordination with Range Control to ensure safe operation of aircraft with respect to other activities. Routes, altitudes, times, radio frequencies, and specific activities are to be provided to Range Control.
- (2) Maintaining communications with Range Control for the purpose of coordinating entry and exit of the area and ensuring safety.
- (3) Clearing the airstrip or drop zone of personnel and equipment in coordination with ground safety personnel from the using unit.

**Ground safety personnel from the using unit will-**

- (1) Establish and maintain communications with Range Control. Failed communication at any time will automatically place the unit in a cold status. All operations will cease until communications has been re-established.
- (2) Coordinate with the pilot to ensure that equipment and personnel are clear of the drop zone.
- (3) Ensure that the using unit has coordinated for or requested medical personnel, equipment, and vehicles; and that they are on-site at the drop zone prior to the start of any exercise.

**Unmanned Air Vehicle Systems Qualification (UAS)**

Qualifications for civilian employees of Government agencies and Government contractors must have the appropriate military or civilian certifications or ratings in the system mission. This necessary qualification, training, evaluation, and current requirements of regulation AR 95–20, and a contract and/or statement of work for the UAS to be flown and/or operated, shall be on site prior, during and after flight operations.

**Air Craft Operator**

The Aircraft Operator (AO) will be designated and will have access to the controls.

**External Operator**

The External Officer (EO) is the UAS crewmember responsible for the actual takeoff and landing of the UAS, not incorporating an automatic takeoff and landing system.

Flight must stay below 500ft above ground level (AGL).

**Prohibited missions**

The UAS will not be used to conduct flights for personal use.

**Unmanned Aircraft System ground crewmember**

The UAS ground crewmembers (mechanics and technicians) that perform duties on the UAS that are essential to specific phases of the maintenance mission will be:

1. Trained to perform UAS and/or aviation maintenance operations on the system. Furnish proof of experience.
2. Trained to perform their duties in accordance with the appropriate technical manuals and unit training SOP.
3. If required to perform duties as a technical inspector, designated (in writing) by the UAS unit commander.

**Environmental Hazard**

If a spill occurs inform the Range Control Officer. The Blossom Point installation personnel will follow the response, reporting, and cleanup procedures appropriate to the level of spill. Personnel will promptly correct and cleanup (using available absorbents or spill kits) any visible POL discharges which are still on an impervious surface. All POL (Petroleum and Oil Lubricants) spills of any size that contact the ground or surface water or any size spills of a hazardous material (even on impervious surfaces) are reported immediately.

**RSO- Range Safety Officer Responsibilities**

1. The RSO receives the range safety briefing from the installation range control organization on use of the ranges.
2. Ensures before granting clearance to fire—
  - (a) Weapons and personnel are properly positioned.
  - (b) Authorized ammunition and or explosives, to include proper charge, fuze, and fuze settings are used
  - (c) Firing settings and weapons systems are within prescribed safety limits.

- (d) SDZ is clear of all unauthorized personnel.
- (e) Proper hearing protection is worn by personnel within noise hazard areas.
- (f) Proper eye protection is worn by personnel within eye hazard areas.
- (g) Permission is received from range control to commence live-fire operations.

3. Prior to commencing live-fire operations, conducts final coordination with the OIC. This coordination will include a summary of checks, inspections, and actions that the RSO has completed, verification that required communications has been established, and that a "hot status" has been received from range control.

4. Orders immediate cease-fire or check fire when any unsafe condition occurs.

5. Is physically present at the site.

6. Reports all accidents and ammunition malfunctions to the range OIC.

7. Verifies, upon completion of firing or firing order, to the OIC that all weapons and weapons systems and or explosives are clear and safe before allowing removal from the firing area

8. Conducts range safety briefings to include emergency procedures.

9. Posts range guards, range flags, barriers, and limit of fire markers and signals.

10. Ensures range equipment is on the range prior to firing.

11. Establishes and maintains open communication with Range Control.

12. Reports and marks any unexploded ordnance (UXO).

13. Knowledgeable of the weapons systems and or explosives in use.

14. Coordinates all fire and maneuver with Range Control.

15. Responsible for overall safe conduct of firing

### **OIC- Officer in Charge Responsibilities**

The OIC must complete the Army certification program established by the installation. The OIC must be equal to a GS 7 or above.

### **The OIC-**

1. Arrives at the range or training site before the unit.

2. Checks communications and ensures that backup communications are available

3. Briefs the safety officer and the other participants.

4. Ensures all range equipment is present and operational.
5. Controls the firing of live fire exercises
6. Maintains all required communications.
7. Notifies range control that firing has been terminated.
8. Debriefs personnel
9. Ensures that the range area is cleared in accordance with the local SOP





