



The purpose of this Standard Operating Procedure is to give all members of Pueblo Municipal Shooters and anyone using the range knowledge of the proper procedures to clean the range safely to a standard that will protect our children and adult members of the range

1. CLEANING AREAS AND PROCEDURES DOWN RANGE:

A. DOWN RANGE: The down range area is defined as the area that begins at the red line and continues to the backstop. During normal operations this area can only be entered by RSOs, instructors and maintenance personnel. Before entering into the down range area, all personnel must use the protection booties that are provided by the range. Once you have entered the downrange area you cannot leave that area without removing the contaminated booties.

There are two dust mops located in the down range area one on the north side and one on the south side of the center wall. These are to be used to **ONLY** clean the area in front of the red line (firing line) up to the lead containment gully. The material will be swept into a pile and the brass separated from the target debris. Separation of brass from target debris must be done in the down range area. There is a box screen that can be used to separate the brass from the debris. The brass can then be put in the red buckets. The remaining debris will be put in the hazmat barrel located in the range area. **Do not** cross the firing line with the booties on. If you need to go back down range, you must put the booties back on without contaminating the firing area. At no time are the dust mops to be removed from the down range area without being put in a plastic garbage bag.

After sweeping the area of all large debris, the power washer can be brought in and the area may be power mopped. D-Lead is the compound that must be mixed with the water to clean the floor. The D-Lead and water used in the power washer must be mixed according to the manufacturer's direction on the D-lead bottle. When finished, the washer should be pulled up to the red line and the wheels and tires wiped off with a paper towel, before entering back into the shooting area. Place the paper towel in the trash can. Once D-Lead has been used lead contaminates are suspended in the solution and can be disposed of in the normal manner. The same procedure is to be used for both sides, i.e., lanes 1-5 and lanes 6-10.

B. SHOOTING AREA: The Shooting area is from the red line back to the loading benches and from range door to range door. A third dust mop will be in the shooting area. This mop will be used **only** for cleaning the shooting area behind the red line (firing line). No brooms will be allowed in the shooting area with the exception of small dust brooms to pick up brass. To retrieve brass in front of the benches rakes are provided to pull the brass behind the benches for collection.. Dust pans and small dust brooms will be used to collect the brass off the floor. The collected brass is retrieved by the person shooting it for reloading or put in the red barrels for disposal by the range.

When the area is being prepared for Jr. Marksman or children shooting in the prone position the area from the firing line back 6 feet should be sprayed with "D-Lead" and then dust mopped to remove any

large debris. Once this area is cleaned no one should go down range. If anyone has to go down range, the area must be sprayed again after the individual(s) are back behind the firing line. The person(s) going down range must wear protective booties.

Pads used for shooting in the prone position should be disinfected at least monthly during use. This will be done by spraying D-Lead and wiping both sides with a paper towel "Use one per side". The wiping material can be thrown in a regular trash can as it is not considered hazmat. All pads should be picked up prior to raking up fired brass to reduce the chance of contaminating the shooting pads. If there is any chance a pad might be contaminated, it should be sprayed and cleaned as if it was totally contaminated.

C. Conference Room: There will be a dust pan and broom for cleaning the conference room. At no time will dust mops, mops or brooms be taken into the firing range or shooting area. Any chairs or tables taken into the range for an event must be decontaminated before bringing back into the conference room. If there is a class held in the conference room where firearms, ammo, or firearm cleaning materials are used, all tables should be covered with disposable table cloths. All tables and chairs should be cleaned with D-Lead and wiped down, after all firearm, ammo and cleaning material is removed from the room. If any material is spilled on the floor, the areas should be wiped up and then sprayed with D-Lead and wiped with a clean paper towel. If drinks are allowed during a cleaning class, drinks should be kept away from the areas the cleaning is being done. **The mops from in the firing range are not allowed in the conference room for cleaning.**

2. FILTERS

A. Filters are used to remove lead and unburned powder contaminants from the air being discharged from the down range area. Subsequently, these filters are very contaminated and must be handled accordingly.

B. Changing Filters: The filters are located at the far end of the down range by the backstop. The down range area should be dust mopped before starting. Changing these filters is a hazmat job. **White suits, booties, gloves and masks are available to be worn by anyone who assists in changing the filters.** The filters are changed by removing an access panel located next to the center wall and above the backstop. The access panel is removed by removing the metal screws and the spacers. This provides access for filter removal. There are 11-2 inch filters and 11-5 inch filters on each side. As the filters are removed, they should be handed down and put in plastic bags then returned to the boxes that the new filters came in. The new filters should be put in place and the spacers and plate should be reinstalled. The box should be marked **DIRTY**. The boxes should be returned to the shed and stacked until a second filter change occurs.

After the second change, all dirty filters should be packed in the provided hazmat box with the liner in place. After all dirty filters are packed in the box, the box should be sealed, set on a pallet until the PSC hazmat trucking company picks up the box for disposal. The box should be covered with the designated blue tarp and securely tied down to prevent any damage from the weather. The person picking up the box will remove the tarp and leave it. Packing of the box should be done on a Tuesday as the truck is scheduled for Wednesday pick-ups in Pueblo.

A call should be made on Monday to Stericycle Environmental Solutions for hazardous waste removal to ensure the truck will be there Wednesday. The number is 612-466-4220 (Client Services Representative). Due to our location, an effort should be made to not leave the box outside any longer than necessary. After changing the filters, the down range area should be dust mopped to remove excess lead from the floor. Wash hands thoroughly after handling "D-Lead" as it is a skin and eye irritant

References:

U.S. Navy: Firing Range Industrial Hygiene Technical Guide

Indoor Firing Range Design Guide

CDC NIOSH Alert: Preventing Occupational Exposures to Lead and Noise at Indoor Firing Ranges