

# FACT SHEET

## AIR FORCE RANGE RESIDUE RESOURCE RECOVERY (R4) GUIDE

Approximately 4.8 million pounds of ordnance are used in training on Air Force (AF) ranges each year.<sup>1</sup> The management and disposition of the ordnance-related residue and by-products of these ranges is a highly complex endeavor, subject to numerous DoD and environmental requirements. If you direct AF active range management activities, this guide is for you.

**What is the Purpose of this R4 Guide?** The AF issued this R4 Guide to provide specific management considerations when dealing with R4 and Material Potentially Presenting an Explosive Hazard (MPPEH), focusing on steps required for disposition following classification as Material Documented as Safe (MDAS). The information and processes provided in this Guide are compiled from numerous DoD and AF resources, including Draft DoD Manual (DoDM) 4140.62, *Management and Disposition of MPPEH*.

This Guide applies to AF active, reserve, and Air National Guard installations. It focuses on the roles of installation environmental managers, range managers, Qualified Recycling Program (QRP) managers, AF-level project managers, and other stakeholders that plan, conduct, or oversee AF active range management activities.

### What is Range Residue?

Range Residue consists of practice munitions, residual scrap from expenditure of high-explosive rounds, munitions components, target remnants, and any unnatural materials left by using units of the range.

**MPPEH** is material owned or controlled by the DoD that, prior to determination of its explosives safety status, potentially contains explosives or munitions or a high enough concentration of explosives that the material could present an explosive hazard. MPPEH can include military munitions and munitions debris, range-related debris, and other debris.

**The potential for MPPEH to present an explosive hazard is the single characteristic that distinguishes it from other AF property.**

**What is the R4 Management Process?** This Guide details the entire management process for dealing with range residue, and walks the user through the process using the five basic steps in the successful management of MPPEH.



This Guide also specifies what would be required if at any time in the process Explosive Safety Status is compromised or Material Documented as an Explosive Hazard (MDEH) is discovered in the process chain.

### What are the Environmental Considerations of R4?

This Guide highlights federal statutes and regulations relevant to the management of MPPEH; and is based on applicable federal statutes and regulations, as well as DoD policies. This is important when there is the potential for activities or operations to release, emit, or dispose of pollutants and contaminants, hazardous substances, or solid wastes into the environment. Additionally, range clearance activities have the potential to impact natural or cultural resources. Compliance with applicable federal and state environmental statutes and regulations is required and will help prevent any potential impact to human health and the environment.

**Point of Contact.** For more information, please contact AFCEC/CZTQ at [afcec.cztq@us.af.mil](mailto:afcec.cztq@us.af.mil).

The R4 Guide can be found on the web at [HTTP://www.AFCEC.af.mil/Resources/MilitaryRanges](http://www.AFCEC.af.mil/Resources/MilitaryRanges)

<sup>1</sup> [www.navadamagazine.com/issues/read/military\\_in\\_nevada/](http://www.navadamagazine.com/issues/read/military_in_nevada/)