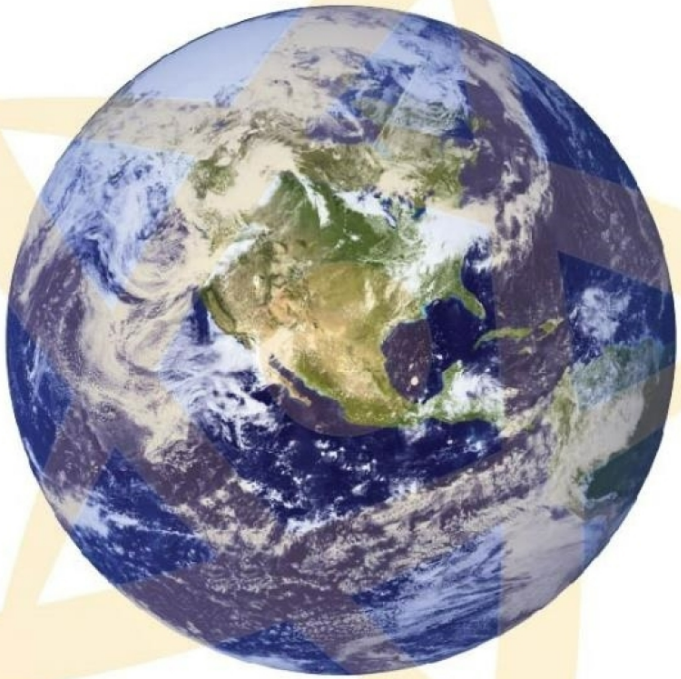
SAND2022-7934C

National Nuclear Security Administration

Novel Approach to Training Law Enforcement for the Radiological Threat – A Partnership Between the Hungarian National Police and U.S. NNSA Office of Radiological Security



IAEA International Conference on Safety and Security of Radioactive Sources

22 June 2022

Meghan Van Den Avyle, Sandia National Laboratories
Orsolya Várnai, Central European CBRN-E Training Centre

Sandia National Laboratories

ORS Office of Radiological Security
Protect · Remove · Reduce

Sandia National Laboratories is a multimission laboratory managed and operated by National Technology and Engineering Solutions of Sandia LLC, a wholly owned subsidiary of Honeywell International Inc. for the U.S. Department of Energy's National Nuclear Security Administration

Sandia National Laboratories is a multimission laboratory managed and operated by National Technology & Engineering Solutions of Sandia, LLC, a wholly owned subsidiary of Honeywell International Inc., for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-NA0003525.

National Nuclear Security Administration

Overview

The U.S. Department of Energy/National Nuclear Security Administration's Office of Radiological Security (ORS) has established an initiative to develop innovative and sustainable radiological response training and engagement tools for law enforcement.

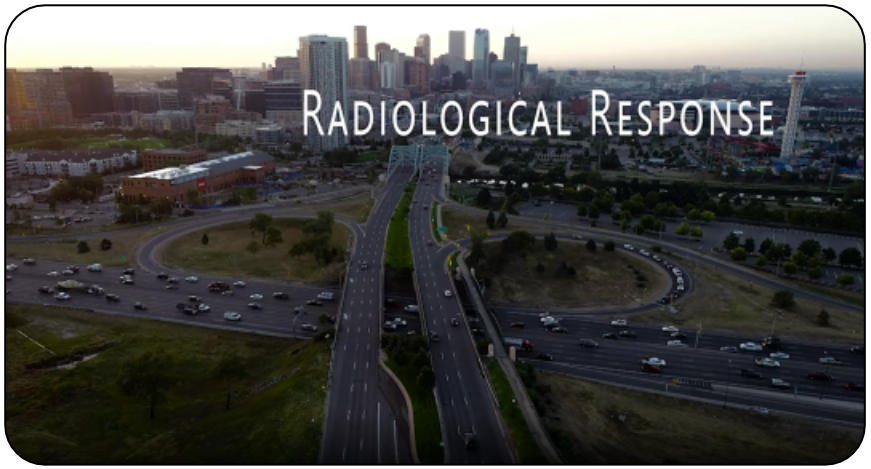
Engaging law enforcement in the protection of radioactive materials is important because a well prepared, coordinated, and timely response is crucial to help prevent or mitigate the theft of high-consequence radioactive materials.

National Nuclear Security Administration

Radiological Response Awareness Video

One tool developed under ORS's response engagement initiative is the *Radiological Response Awareness Video.*

The goal of a radiological response awareness video is to provide law enforcement agencies with a tool to rapidly deliver awareness level training to frontline officers, supervisors, and specialized units regarding agency-specific radiological response strategy, local radioactive materials of concern, and personal protection measures.



ORS Office of Radiological Security
Protect · Remove · Reduce

National Nuclear Security Administration

ORS-Hungary Partnership

ORS first began developing these videos in partnership with major U.S. city police forces.

In 2021, ORS and Hungary began a collaboration to develop the first *international* radiological response awareness video.

A team was established to develop the video which included U.S. radiological response experts, the Hungarian National Police, the Hungarian Atomic Energy Authority, and a video production company. This team leveraged relationships established through previous radioactive material protection partnership activities in Hungary.

ORS Office of Radiological Security
Protect · Remove · Reduce

RENDŐRSÉG POLICE

Hungarian Atomic Energy Authority

National Nuclear Security Administration

Relevancy and Impact

To ensure the video would be highly relevant and impactful to the Hungarian National Police, the radiological response training video was to:

- be produced in Hungarian and owned by the Hungarian National Police
- contain interviews with local first responders, law enforcement, department leadership, radiological material experts, and site radiological security officers
- be around 10 minutes in length
- be easily distributed through a variety of mobile platforms to allow for a large audience to be quickly trained at no cost

National Nuclear Security Administration

Learning Objectives

The video team began by establishing a set of desired learning objectives for the video audience which included the ability to:

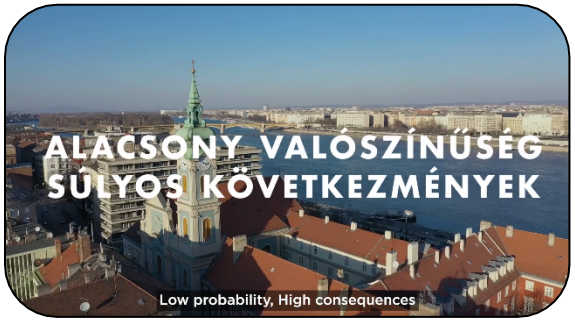
- comprehend the basics of radiation and hazards associated with exposure and contamination
- describe typical facilities where radiological material is stored and used
- understand threats to radioactive materials
- recognize the risk and potential consequences of theft of radioactive materials
- appreciate the need for timely response for threats to radioactive material
- understand the concept of containment for the prevention of theft of radiological material
- define the concepts of time, distance, and shielding
- Understand response responsibilities and local procedures

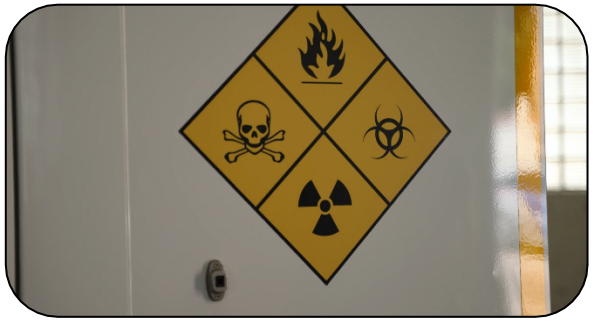
ORS Office of Radiological Security
Protect · Remove · Reduce

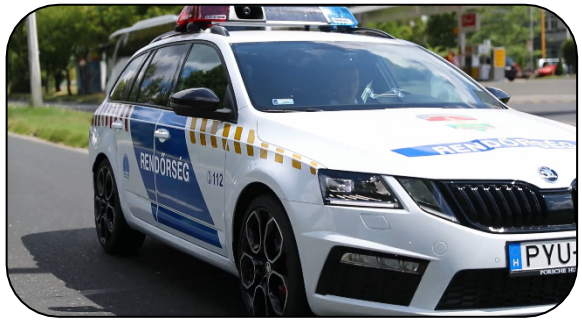
National Nuclear Security Administration

Results

The video development effort took approximately six months and resulted in the successful completion of a 14 minute video for the Hungarian National Police.







The video has been incorporated into the Hungarian National Police's training curriculum and has helped to bring radiological response awareness to over 500 police officers.

The video has also been shared with the Hungarian Defence Forces.

DEPARTMENT OF ENERGY · UNITED STATES OF AMERICA

ORS Office of Radiological Security
Protect · Remove · Reduce

National Nuclear Security Administration

Conclusion

When there is a need to provide quick training to a broad law enforcement audience, a brief instructional video is effective.

Providing law enforcement agencies with a training tool that is high-impact and requires minimal long-term resources is invaluable.

The Hungarian National Police radiological response awareness video serves as a model for other countries who have an interest in preparing for a radiological threat event.

National Nuclear Security Administration

Questions?

Meghan Van Den Avyle
mvanden@sandia.gov

Orsolya Várnai
varnaioj@kr.police.hu

ORS Office of Radiological Security
Protect · Remove · Reduce