Voluntary Chemical Security Initiatives: CISA ChemLock

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Where do we see gaps in the U.S.’s current approach to chemical security? How can we leverage our expertise and resources to address them?
Addressing the Challenge

Challenge:
How can CISA best help regulated and unregulated chemical security partners to take additional voluntary steps to reduce the risk of terrorist attacks involving dangerous chemicals?

Our solution:
A suite of security risk management products, technical services, and incentives that facilitate and motivate meaningful action by entities that manufacture, store, distribute, transport, and sell dangerous chemicals.
Know your chemicals.

Lock in your security posture.
Intended for Facilities with Dangerous Chemicals

**Toxics and Toxic Precursors**
Can cause death or serious injury through inhalation
► Examples: Ammonia, chlorine

**Flammables**
Can create a vapor cloud that explodes
► Examples: Butane, propane

**Explosives and Explosive Precursors**
Can be used to create an explosive device
► Examples: Ammonium nitrate, hydrogen peroxide
Chemical Security Is Not Just for Chemical Industry

- Colleges and Universities
- Cold Chain/Refrigeration
- Fisheries and Hatcheries
- Energy Utilities
- Agricultural Production
- Laboratories
- Mining
- Industrial Manufacturing
- Paints and Coatings
- Plastics Manufacturing
- Pulp and Paper
- Semiconductor Manufacturing
- Motor Racing
- Warehouses/Distribution
- Water Treatment
Four Pillars of ChemLock

1. On-site assessments and assistance
2. ChemLock resources
3. Exercises and drills
4. Training courses

[Source: cisa.gov/chemlock]
On-Site Assessments and Assistance

Which security measures will best enhance security at your facility?

- Risk management processes
- Cyber and physical security gap assessment
- Assessment of existing security measures
- Recommendations for adding or enhancing security measures
- Assistance in developing tailored security plans

Facilities can request on-site assessments and assistance at cisa.gov/chemlock.
Guidance Documents:
Helps facilities build a step-by-step chemical security plan tailored to their business model and unique circumstances

- ChemLock: Secure Your Chemicals
- ChemLock: Secure Your Chemicals Facility Plan Template
- Secure Your Chemicals: Before, During, and After a Pandemic
ChemLock Publications (cont.)

Fact Sheets: Focuses on a particular aspect of chemical security

- ChemLock Overview
- ChemLock: Reporting Suspicious Activities and Security Incidents
- ChemLock: Chemical Product Stewardship
- ChemLock: Drone Activity
- ChemLock: Chemical Security Considerations for No-Notice Events
- ChemLock: Chemical Security Self-Assessment
- ChemLock: Security on a Budget
ChemLock Publications (cont.)

**Flyers:** Brings general awareness to chemical threats and need for chemical security measures
  - Know Your Chemicals
  - Secure Your Chemicals: Chemical Threats

**Toolkits:** Provides variety of resources to help facilities evaluate chemical security and preparedness
  - In development
Exercises and Drills

- CISA Tabletop Exercise Packages (CTEPs), drills, and general materials to help conduct exercises tailored to chemical security
  - Active Shooter
  - Drone Threat
  - Cyberattacks
  - Fire as a Weapon
  - Active Threat Communication
  - Complex Coordinated Attack
  - Edged Weapon
  - Major Earthquake
  - Vehicle Ramming
  - Improvised Explosive Device
  - Vehicle-Borne Improvised Explosive Device
  - Theft and Diversion
  - Insider Threat
  - Chemical Release/Spill
  - Civil Unrest

Facilities can request live exercise that are tailored to the needs and requests of the participating facility at cisa.gov/chemlock.
Training Courses

ChemLock Training 1 – Why Chemical Security?
An introductory course that provides an overview to chemical security and identifies key components for chemical security awareness.

ChemLock Training 2 – Secure Your Chemicals: Planning
An in-depth course that:
- Provides an overview of the ChemLock: Secure Your Chemicals resource
- Identifies elements of a security plan, examples, lessons learned, and best practices
- Walks through how to create a tailored, scalable security plan
How Do I Sign Up for a ChemLock Service?

- Visit cisa.gov/chemlock
- Fill out our short service request form
- CISA will contact you to follow up
How Does ChemLock Relate to CFATS?

- The ChemLock program is NOT a pathway to regulation under CFATS
- Participation in any portion of CISA’s ChemLock program does not replace any reporting or compliance requirements under CISA’s Chemical Facility Anti-Terrorism Standards (CFATS) regulation (6 CFR part 27).
- Some ChemLock services—such as on-site chemical security assessments or assistance—are only available to facilities that are not high-risk facilities covered under CFATS.
- Some ChemLock activities may fulfill CFATS requirements, depending on your specific security plan.
ChemLock Long-Term Project Vision

ChemLock Tools and Services
- Launched 2021
- Can be selected a la carte
- Open to both CFATS and non-CFATS facilities

ChemLock Membership Program
- Proposed program projected for 2023 or beyond
- Offers tangible incentives to facilities that complete activities and adopt security measures. Incentives would be leveled commensurate to the activity completed/security adopted, and the program would require enrollment and verification.
- Open to CFATS and non-CFATS facilities who meet certain criteria of possessing dangerous chemicals
Questions?

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