S&T Stakeholders Conference

Chemical Security Analysis Center

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PARTNERING FOR A SAFER NATION
CSAC Program Objective

Mission: To provide analysis and scientific assessment of the chemical threat against the American homeland and American public.

Objectives:
- Chemical threat awareness, assessment and analysis
- Integration and analysis of chemical threat information and data
- Reachback capability to provide expert analysis support
- Science-based risk assessment

Payoffs:
- Centralized repository of chemical threat data
- Comprehensive S&T based assessments of chemical threat materials
- Centralized reachback capability for chemical threat information
- A prioritized assessment of chemical threats to provide guidance to Interagency activities
The Chemical Threat Spectrum

Chemical warfare agents (CWAs)
- Chemical warfare nerve agents
- Nearly impossible to obtain, must be synthesized by terrorists
- Nerve agents (G, V) - Have seen previous terrorist use
- Blister Agents (H, HN, HD)

Organophosphorus and Chlorinated Pesticides
- A number of very toxic compounds
- Easily obtained

Toxic industrial chemicals (TICs)
- Large array of materials - Chlorine, Phosgene, Anhydrous Acids, Cyanides, Fluoroacetates … etc.
- Reasonably accessible - Produced in millions of tons annually
- Releases have the capacity to cause a catastrophic number of casualties (Bhopal)
Chemical Security Analysis Center

- **Hazard Assessment**
- **CTRA**
- **Knowledge Management**

**Reachback**

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Chemical Infrastructure Risk Assessment

- Dispersion Modeling Review
- Support To CFATS
- Toxicity Estimates

Chemical Supply Chain Risk
- Inherently Safer Technologies

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Summary

- CSAC continues to grow
  - 15 permanent staff
  - Six key performers
- CSAC continues to fill need for S&T based studies and analyses, for both DHS and the interagencies
- CSAC is committed to scientifically defendable, credible studies and analyses related to the chemical hazard