Chemical Sector Cyber Security Program

Christine Adams, Director, Chemical Sector Cyber Security Program
Neil Hershfield, Director, CIDX Cyber Security Initiative
Cyber Security Program Leadership

- **Executive Board Sponsor**
  - David Kepler, Dow Chemical

- **Executive Sponsors**
  - Tom Archibald, Rohm & Haas
  - Mack Murrell, Dow Chemical

- **Steering Team**
  - Thomas Good, DuPont
  - Cheryl Flannery, Air Products
  - Theresa Jones, Dow Chemical
  - Neil Hershfield, Dow Chemical
  - Lynn Richard, Rohm & Haas
  - Phillip Shupe, Eastman Chemical
Where We Began

- Sector-wide cyber security initiative launched in March 2002
- Chemical Sector Cyber Security Information Sharing Forum
  - Created to address the cyber security challenge
  - Consists of senior-level staff representatives from ten trade associations
  - First action was to appoint a taskforce to create a sector-wide cyber security strategy
- Chemical Sector Cyber Security Strategy published in June 2002
  - Appended to National Strategy to Secure Cyberspace in February 2003
- Chemical Sector Cyber Security Program established in the Fall 2002 to put our strategy into action
Addressing Five Key Components of Cyber Security Strategy

- Fostering involvement and commitment
- Encouraging the establishment of practices and standards
- Encouraging acceleration of improved technology and solutions
- Strengthening the industry’s information sharing network
- Maintaining an active cyber security public advocacy program
Leveraging Proven Sector Initiatives

- Chemical Trade Associations (Forum)
  - Involvement and commitment
  - Public advocacy

- Chemical Industry Data Exchange (CIDX®)
  - Practices and standards
  - Technology acceleration

- Chemical Sector Information Sharing & Analysis Center (ISAC)
  - Information sharing
We Have Been Busy!

- Forging a relationship with the Department of Homeland Security
- Partnering with representatives from other critical infrastructure sectors to develop the “voice of the end user”
- Studying developments in the information sharing arena and recommending an approach for our industry
- Enhancing guidance documents and developing tools to facilitate implementation of Program recommendations
- Developing a toolkit to help trade associations establish an effective cyber security program
Guidance Documents

- Cyber Security Architecture Reference Model
- Report on Cyber Security Vulnerability Assessment Methodologies Version 2.0
- Guidance for Addressing Cyber Security in the Chemical Sector Version 2.1
- The Cyber Security Journey – How to Begin an Integrated Cyber Security Program
- Security Technologies for Manufacturing and Control Systems (ISA)
- Integrating Electronic Security into the Manufacturing and Control Systems Environment (ISA)
- Security Capabilities Profile for Industrial Control Systems (NIST)
White Papers and Webcasts

- **White Papers**
  - A Case for Taking Action on Cyber Security
  - Making the Case for Addressing Cyber Security in Manufacturing Control Systems
  - Key Technology Issues

- **Webcasts Completed**
  - Chemical Sector Cyber Security Executive Briefing

- **Webcasts in Development**
  - Understanding Cyber Security Risks
  - Overall Guidance
  - Case Study: Implementing Guidance
  - Vulnerability Assessment Methodology
  - Reference Model
New Look to Chemical Industry Cyber Security Effort

- Two leading cyber security efforts
  - CIDX Cyber Security Initiative
  - Chemical Sector Cyber Security Program
- Industry bringing them together to more effectively respond to emerging sector needs
- Transition planned for completion on January 1, 2006
- Neil Hershfield will assume Christine Adams responsibilities as Program Director

The consolidated organization will operate as the Chemical Sector Cyber Security Program under ChemITC.
Big Plans for 2006

- Shift emphasis from developing guidance to facilitating implementation through industry trade associations
- Expand external reach, partnering with critical infrastructure sectors and DHS
- Promote manufacturing and control systems security through proactive engagement in standards bodies and government programs
2006 Project Teams

- Engage Trade Associations
- Communication Material and Outreach
- Technology Team
- Manufacturing and Control Systems
- European Team
- Information Sharing
- RAMCAP (Risk Analysis and Management for Critical Asset Protection)
Designed to Help Your Company

- Improve cyber security measures
- Protect continuity of business operations
- Access cost effective practices for risk mitigation and information sharing
- Influence public policy related to chemical sector cyber security concerns
- Improve public safety and reduce potential effects of cyber security incidents on all stakeholders
  - Employees, Customers, Investors, Communities, Government
Chemical Industry Success Depends on You

- Our success as a sector depends on everyone’s involvement

- All companies – large and small – are encouraged to:
  - Get involved with one or more of the Cyber Security Program work teams
  - Take advantage of the Program and its resources
  - Make cyber security a company priority
  - Use available guidance and tools to enhance cyber security performance
  - Open the lines of communication between your company’s organizations that manage security manufacturing, information technology, process control and R&D
Join a Project Team Today!

If you are interested in having someone from your company participate on one or more Cyber Security Project Teams, please contact:

Neil Hershfield
By e-mail – nhershfield@dow.com
By phone – 989.636.4444
Or before you leave today!
Working together across the sector...

We can help prevent, be prepared for, and better able to respond to significant cyber-based infrastructure attacks.

Thank You!