

# **Chemical Industry Security at Dow**

**Wicher Mintjes**

**Emergency Services & Security  
Expertise Center**

# Integrated approach to security

- Dow has a fully integrated approach to Chemical Industry Security
- Security approach is depicted in a security poster; copies are available
- All elements of the Responsible Care Security Code are linked to this integrated approach
- This presentation will show these links

# Integrated approach to security

# AN INTEGRATED APPROACH TO CHEMICAL INDUSTRY SECURITY

NATIONAL SECURITY

## RISK-BASED APPROACH

Prioritize & Set Risk-Based Performance Targets

Assess Vulnerabilities

Apply Appropriate Tools to Mitigate Risk



**REduce PRESSURE**  
Extra Security for Sensitive Chemicals

**LOWER TEMP.**  
Evaluate Storage & Process Options  
Use Alternates Where Process Allows

**REDUCE INVENTORY**  
Make & Use in Process without Storage

RADAR

### SITE & FACILITY SECURITY

SUPPLY CHAIN

SUPPLY CHAIN

**Crisis Management Plans**

EMS

EMERGENCY RESPONSE

**CUSTOMER SCREENING**

OK to ORDER

**INFORMATION / CYBER SECURITY**

PROCESS STABILIZER

INTERNET INTRANET

NETWORK ACCESS

CONFIDENTIAL

**BACKGROUND PROFILE**

**PERSONNEL SECURITY**

I.D. BADGE

INSPECTIONS



# Leadership commitment

# Leadership commitment

- Dow applies the same safety and security approaches wherever it operates – worldwide
- Implemented Responsible Care Security Code after 9/11

# Risk Analysis

# Risk Analysis

N A T I O N A L S E C U R I T Y

## RISK-BASED APPROACH

**Prioritize & Set Risk-Based  
Performance Targets**



**Assess  
Vulnerabilities**



**Apply Appropriate  
Tools to Mitigate Risk**

# Implementation of security measures



**REDUCE  
PRESSURE**

**REDUCE INVENTORY**

**LOWER TEMP.**

**Evaluate  
Storage  
& Process  
Options**

**Extra Security  
for Sensitive  
Chemicals**

**Make  
& Use in Process without  
Storage**

**Use Alternates  
Where Process  
Allows**



# SITE & FACILITY SECURITY



**PROCESS**

**INTRANET**

**NETWORK ACCESS**

USER:

PASSWORD:

ACCESS CODE:

**BACKGROUND  
PROFILE**



**PERSONNEL  
SECURITY**



# SUPPLY CHAIN



# INFORMATION / CYBER SECURITY

DOWN

# Training, guidance and information

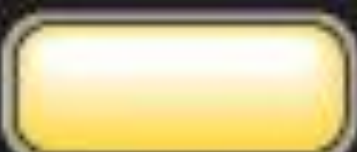
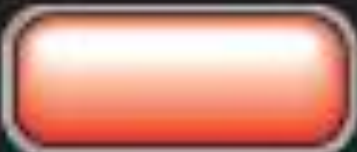
# Training, guidance and information

- Partnership & information sharing with governments
- Work with shippers, carriers and government on supply chain security
- Community Awareness
- Training of Emergency Responders

# Response to security threats and incidents

ce  
Risk

**NATIONAL  
RISK LEVEL**



PLY  
AIN



**Crisis Management Plans**



OK to

**EMERGENCY RESPONSE**

# Audits, Verification & Continuous Improvement

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- Security is fully integrated in the Dow Management Systems
- All security programs and systems will follow the Plan-Do-Check-Act cycle

# **Thank You**

**Wicher Mintjes**

**Emergency Services & Security Expertise Center**