

Critical Infrastructure Partnership Advisory Council (CIPAC)

2007 CIPAC Plenary Session

July 19, 2007

**Capital Hilton
Washington, DC**

Critical Infrastructure Partnership Advisory Council (CIPAC)

Opening of Meeting Sector Roll Call

Nancy J. Wong

Designated Federal Official, CIPAC

U.S. Department of Homeland Security

All meeting materials will be posted to <http://www.dhs.gov/cipac>

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

**Opening Remarks:
Setting the Stage for the Plenary Session**

Robert B. Stephan

*Assistant Secretary for
Infrastructure Protection, DHS
CIPAC Co-Chair*

Michael Wallace

*President, Constellation
Generation Group
CIPAC Co-Chair*

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

**Complementing the Federal Government:
*The State, Local, Tribal and Territorial Perspective
in Protecting Critical Infrastructure/Key Resources***

Col. Michael McDaniel

*Homeland Security Advisor, State of Michigan
Chair, State, Local, Tribal, and Territorial
Government Coordinating Council (SLTTGCC)*

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Critical Infrastructure Partnership Advisory Council (CIPAC)

Panel I
Working Together to
Ensure Economic Stability

Communications: Information Technology: Banking and Finance:

SCC Chair

SCC Chair

SCC Chair

GCC Chair

GCC Chair

GCC Chair

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Communications Sector
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July 19, 2007

Communications

Notable Accomplishments

- **Completed the Communications Sector-Specific Plan (CSSP) that includes Communications Sector security goals, risk assessment framework, and roles and responsibilities**
- **Maintained a close and collaborative public-private partnership to further advance infrastructure protection within the Communications Sector**
- **Expanded the Communications Sector Coordinating Council to include representation from cable, satellite, and broadcasting sub-sectors**
- **Established two working groups to aid implementation of the CSSP**
 - **CSSP Steering Committee**
 - **CSSP Implementation Working Group**
- **Participated in several National Pandemic Flu Planning efforts, including the NIAC Pandemic Study, Pandemic Preparedness Study with NCS and the Financial Services SCC, as well as a Cross Sector Pandemic Preparedness Study**
- **Developed Communications Sector Module for the Critical Infrastructure/Key Resources Protection Qualification Course**
- **Advanced the rollout of Wireless Shutdown and Restore Protocols**

Communications

Charting the Course

	June 2007 to July 2007	August 2007 to January 2008	January 2008 to April 2008	May 2008/ forward
Risk Assessment	Develop National Sector Risk Assessment (NSRA) methodology	Collaborate with subject matter experts and IT Sector on NSRA	Finalize NSRA	Conduct detailed risk assessments Discuss mitigation options
Cross-sector Interdependencies	Develop process for assisting SSAs with assessing cross-sector risks			SSA outreach
Metrics/Annual Report	Finalize NIPP Core Metrics response (June 15) and Sector Annual Report (July 1)	Draft and finalize sector-specific descriptive metrics		Begin collecting metric data for 2007

- Participation in TOPOFF IV
- Continued participation in Pandemic Planning efforts, including a upcoming Pandemic Workshop in Washington, DC

Communications

Collaborative Efforts

- **Collaborated with the Information Technology (IT) Sector**
 - **Participated in IT Sector risk assessment methodology working group meetings and included IT Sector representatives in Communications Sector discussions**
 - **Conducted first joint IT-Communications Coordinating Councils meeting in September 2006 with second meeting tentatively scheduled for Fall 2007**
 - **Initiated Joint Communications/Information Technology Regional Preparedness Task Force**
- **Collaborated with National Cyber Security Division and Science and Technology Directorate on development of research and development (R&D) requirements and Broad Agency Announcement calling for R&D efforts in nine technical topic areas**
- **Participated in the Chemical Sector Comprehensive Review by providing expertise on the communications infrastructure**

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Communications Panel Discussion

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Information Technology Sector
2007 CIPAC Plenary Session Report-Out

July 19, 2007

Information Technology

Notable Accomplishments

- **Established working partnership as a fundamental principle to guide efforts to advance IT Sector security and resilience**
 - **Built on existing initiatives (e.g., IT Information Sharing and Analysis Center (IT-SAC), National Cyber Security Partnership) to form the IT SCC in Jan 2006**
 - **Developed trust relationships within industry as well as across industry and government (e.g., DHS National Cyber Security Division (NCSD), Office of Infrastructure Protection)**
- **Completed the 2007 IT Sector Specific Plan (SSP) that includes specific near- and long-term actions to advance the IT Sector's goals**
[\[http://www.it-scc.org/documents/itscc/Information_Technology_SSP_2007.pdf\]](http://www.it-scc.org/documents/itscc/Information_Technology_SSP_2007.pdf)
 - **Drafted IT SSP from blank sheet with integrated industry-government leadership and writing teams**
 - **Began IT SSP implementation work in anticipation of May 2007 formal SSP release**
- **Delivered Final 2007 Sector CI/KR Protection Annual Report for the IT Sector on progress to identify, prioritize, and coordinate protection efforts**

Information Technology

Charting the Course

- **Increasing participation in sector coordination and information-sharing mechanisms (e.g., the SCC, GCC, and IT Information Sharing and Analysis Center [IT-ISAC]) through coordinated outreach and awareness activities on the IT SSP**
- **Continuing IT SSP implementation efforts**
 - **Refining risk approach, facilitating information sharing, raising awareness of IT Sector R&D priorities**
 - **Working with government to identify needed resources to implement IT SSP**
- **Participating in national-level exercises, such as Top Officials 4 (TOPOFF 4) (Oct 2007) and Cyber Storm II (March 2008)**
- **Collaborating on international activities (e.g., bilaterals, PCIS Chair, Cyber Storm II)**
- **Creating IT Sector Pandemic Flu Sector Planning Guidance in collaboration with Communications Sector, workshop in Aug 2007**
- **Coordinating across sectors through the Critical Infrastructure Protection Congress, San Diego, Oct 2007**

Information Technology

Collaborative Efforts

- **Established the Cross Sector Cyber Security Working Group (CSCSWG) to bring together public and private sector representatives from all 17 CI/KR sectors to collaboratively reduce cyber risk**
 - **Co-chairs are the Energy/Electricity sub-sector, IT SCC, and DHS' Office of Cybersecurity and Communications**
- **Continuing long-standing collaboration with Communications Sector**
 - **Annual Joint IT and Communications Coordinating Councils (SCCs and GCCs) meeting in late Fall**
 - **Documenting of top shared priorities for IT and Communications Sectors**
- **Enabling cyber information sharing through the IT-ISAC and ISAC Council**
- **Since Dec 1999, supporting multiple-sector collaboration through the Partnership for Critical Infrastructure Security (PCIS) [<http://www.pcis.org/>]**
- **Supporting the National Infrastructure Advisory Council (NIAC), including the Partnership Model and Pandemic Flu Studies**

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Information Technology Panel Discussion

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Banking and Finance Sector
2007 CIPAC Plenary Session Report-Out

July 19, 2007

Banking and Finance

Notable Accomplishments

- **Exercises:**
 - **Regional Table Top Exercises: (e.g. ChicagoFIRST, FloridaFIRST & BARCfirst)**
 - **National Exercises (e.g. Cyber Storm, Cyber Tempest, TOPOFF3, FBIIC/FSSCC Pandemic Flu Exercise)**

- **Partnerships:**
 - **Public-Private (e.g. Quarterly Joint Meetings, Infectious Disease Forum)**
 - **NCS Pandemic Study and Best Practices**
 - **RPC FIRST**
 - **FS-ISAC**

- **Research & Development:**
 - **Published Research Challenges and Research Agenda documents**
 - **Contributed to other publications**
 - **Work with University and College research programs**

- **Publications & Letters:**
 - **Developed the Banking and Finance Sector Specific Plan and Annual Reports**
 - **Contributed to the improvements to the DHS NRP, NIPP and PCII publications**
 - **Contributed to the NIAC Report on Pandemic Flu Vaccine Prioritization**

Banking and Finance

Charting the Course

Next Steps:

- **Publish results and recommendations from NCS Pandemic Study and Best Practices**
- **Conduct FBIIC/FSSCC Pandemic Flu Exercise in September**
- **Write After Exercise Report for FBIIC/FSSCC Pandemic Flu Exercise**
- **Participate in TOPOFF 4 Exercise**
- **Continue to hold quarterly Joint FSSCC/FBIIC Meetings and Infectious Disease Forum Meetings**
- **Write 2007 FSSCC Annual Report**
- **Establish more permanency in the FSSCC management structure**
- **Focus on sector interdependency issues**

Collaborative Efforts

- **Collaborating with Telecommunications, Energy, Transportation, CDC, State Dept. etc. in the development of the FBIIC/FSSC Pandemic Flu Exercise**
- **NCS Pandemic Study and Best Practices**
- **Utilize DOE Visualization and Modeling reports for hurricane impact analysis**
- **Guests at recent FBIIC/FSSCC meetings have included representatives for:**
 - **Telecommunications Sector**
 - **Oil & Gas Sector**
 - **IT Sector**
 - **PCIS**
 - **UK Tripartite**
 - **DHS, CDC, HHS, Secret Service**

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Banking and Finance Panel Discussion

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Panel II
Protecting America's
Distinctive Landscape

Commercial Facilities:

SCC Chair

GCC Chair

Government Facilities:

GCC Chair

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Commercial Facilities Sector
2007 CIPAC Plenary Session Report-Out

July 19, 2007

Commercial Facilities

Arenas to Zoos

Public Assembly	Sports Leagues	Resorts	Lodging	Outdoor Events	Entertainment and Media	Real Estate	Retail
<ul style="list-style-type: none"> ■Movie Theatres ■Convention Centers ■Performing Arts Centers ■Zoos ■Aquariums ■Museums ■Stadiums ■Arenas 	<ul style="list-style-type: none"> ■Arenas ■Stadiums ■Horse Racing Tracks ■Auto Racing Tracks ■Professional and Amateur Sports Leagues 	<ul style="list-style-type: none"> ■Casinos ■Hotels ■Conference Centers ■Arenas ■Shopping Malls 	<ul style="list-style-type: none"> ■Hotels ■Conference Centers 	<ul style="list-style-type: none"> ■Amusement Parks ■Fairs ■Exhibitions ■Outdoor Events ■Hotels 	<ul style="list-style-type: none"> ■Production Studios (TV & Movie) ■Broadcast Studios (TV & Radio) ■Print Media ■Transmission ■Hotels 	<ul style="list-style-type: none"> ■Office Buildings ■Industrial Buildings ■Multi-Family Towers & Condos ■Self Storage Facilities 	<ul style="list-style-type: none"> ■Retail Centers ■Shopping Malls ■Movie Theatres

Commercial Facilities

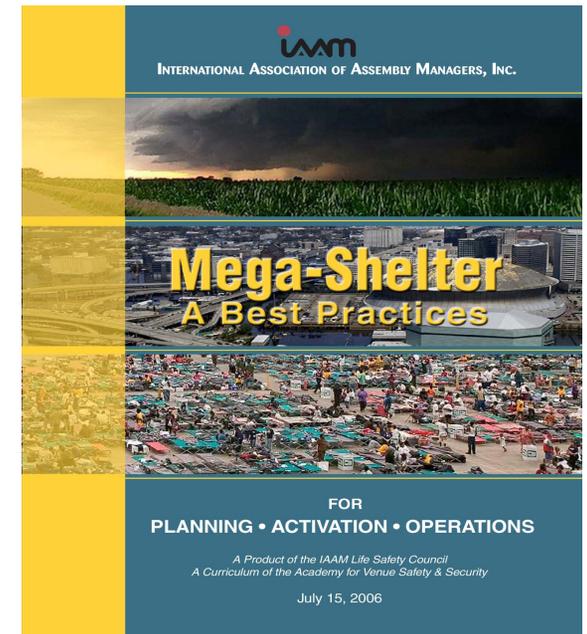
CFSCC Framework – Partners View

Public Assembly Facilities	Sports Leagues	Resorts	Lodging	Outdoor Events Facilities	Entertainment and Media	Real Estate	Retail
<ul style="list-style-type: none"> ▪NATO ▪IAAM ▪American Zoo and Aquarium Assoc. ▪American Association of Museums 	<ul style="list-style-type: none"> ▪MLB ▪NFL ▪NBA ▪NHL ▪MLS ▪PGA, LPGA ▪NCAA ▪USOC ▪USTA ▪Rodeo ▪Arena Football League ▪NASCAR ▪US Soccer Federation ▪The Walt Disney Company 	<ul style="list-style-type: none"> ▪Gaming Detection Associates ▪The Venetian ▪Bellagio ▪Tropicana Casino Resort ▪Harrah's Entertainment, Inc. ▪MGM-Mirage ▪Boyd Gaming ▪Golden Nugget ▪MGM Grand ▪Caesars Palace 	<ul style="list-style-type: none"> ▪AHLA 	<ul style="list-style-type: none"> ▪Int. Assoc. of Amusement Parks and Attractions ▪Int. Assoc. of Fairs and Expositions ▪World Waterpark Assoc. ▪National Recreation and Park Assoc. ▪The Walt Disney Company 	<ul style="list-style-type: none"> ▪Motion Picture Assoc. of America ▪NBC Universal ▪Warner Bros. ▪The Walt Disney Company ▪Fox Entertainment Group ▪DreamWorks Animation SKG 	<ul style="list-style-type: none"> ▪Self Storage Assoc. ▪National Multi-Housing Council ▪National Assoc. of Industrial & Office Properties ▪BOMA, Int. ▪The Real Estate Roundtable ▪National Assoc. of Real Estate Investment Trusts ▪National Assoc. of Realtors ▪National Apartment Assoc. 	<ul style="list-style-type: none"> ▪ICSC ▪NRF ▪RILA

Commercial Facilities

Notable Accomplishments

- DHS Security Awareness Courses
- CF SSA Pandemic Flu Engagement
- Vulnerability Identification Self-Assessment Tool
- IAAM ViSAT Training
- IAAM Best Practices Guides
- ICSC Security Guard Training
- Real Estate ISAC Public Service Ads



Commercial Facilities

Charting the Course

- **Continued Collaborative Efforts**
- **Bomb Making Materials Awareness**
- **U.S. Sports Leagues Protective Measures Guide**
- **Outreach to State/Local Responders**
- **Sub-sector Expansion**
- **Public Assembly - American Assn. Museums**

Commercial Facilities

Collaborative Efforts

■ **NASCAR Evacuation Template**



- Working with Emergency Services Sector and State/Local Officials

■ **“Return to Normalcy” after Incident of Nation Significance**

- Retail/Grocery/Drug Stores/Gas Stations status to General Public, FEMA

■ **High Density Urban Table Top Exercise**

- Local Exercise in Boston and DC testing Neighborhood Readiness with financial, public health, local, state and federal homeland security officials

■ **Potential Partnership with Mass Transit Modal**

- Many Commercial Facilities Buildings are adjacent/collocated

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Commercial Facilities Panel Discussion

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Government Facilities Sector
2007 CIPAC Plenary Session Report-Out

July 19, 2007

Government Facilities

Notable Accomplishments

- **Created an understanding of Government Facilities as a Sector with common issues, concerns, and risks**
- **Established Government Coordinating Council (GCC) consisting of Federal and State representation with more than 70 active participants**
- **Completed and issued Sector-Specific Plan to provide a foundation for infrastructure protection activities throughout the Government Facilities Sector**
- **Connected disparate operations of security partners that contribute to reducing risk**
- **Issued guidance and fact sheets for Sector security partners to assist their efforts**
- **Sharing information on best practices and resources for Sector security partners**
- **Coordinating with the Department of Education to address infrastructure protection issues for the Education Facilities Sub-Sector**

Government Facilities

Charting the Course

- **Development of risk assessment and management tool with modules to accommodate varying security partner needs**
- **Coordination with Continuity of Operations efforts under HSPD-20 to ensure that essential government functions are protected as a key portion of the nation's critical infrastructure**
- **Providing tools and expertise to Sector security partners to support efforts to enhance protection**
- **Continue to reach out to and engage State, Local, Tribal, and Territorial partners**

Government Facilities

Collaborative Efforts

- **Cross-Sector coordination to address government-owned facilities that fall under other sectors due to predominant use**
- **Partnership with the FEMA Office of Continuity Programs to ensure that essential government functions are protected and appropriate security and contingency considerations are conducted**
- **Coordination with Federal Departments and Agencies to develop of the Sector risk assessment tool**
- **Participating in various working groups and forums to provide expertise:**
 - **HIFLD**
 - **ICWG**
 - **ISC**
 - **SHIRA**
 - **National Academy of Sciences**
 - **GovSec Conference**
 - **FLETC**
 - **Federal Facilities Council**
 - **DHS S&T**
 - **DHS NCSD**

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Government Facilities Panel Discussion

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Panel III

Power & Water United to Reduce Risk: *A Study of Interdependencies*

Water:

SCC Chair
GCC Chair

Energy:

SCC Chair
GCC Chair

Dams:

SCC Chair
GCC Chair

Nuclear:

SCC Chair
GCC Chair

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Water Sector
2007 CIPAC Plenary Session Report-Out

July 19, 2007

Water

Notable Accomplishments

Coordinating Councils

Water Sector Coordinating Council (WSCC)

- Established in 2004, the WSCC consists of 16 utility managers and one representative from each of the eight national drinking water and wastewater associations
- Provides sector leadership, feedback, and guidance to federal partners
- The WSCC holds quarterly face-to-face meetings

Government Coordinating Council (GCC)

- Established in 2004, the GCC consists of federal, state, and local government partners
- Serves as a liaison between public and private water sector partners
- The GCC meets face-to-face on a quarterly basis

Notable Accomplishments

Risk Assessment Methodologies

Water Sector Utilities Conducted Risk Assessments

- Nearly 100% of all drinking water systems serving populations of +3,300 completed risk assessments
- Though not required by law, many wastewater systems have voluntarily chosen to complete risk assessments

National Infrastructure Protection Plan (NIPP) Consistency

- The sector is working to ensure existing assessment methodologies are compatible with the NIPP baseline criteria for risk assessments

Water

Notable Accomplishments

WaterISAC

Established Information-Sharing Mechanism

- Established in 2002, the Water Information Sharing and Analysis Center (WaterISAC) is a centralized resource that gathers, analyzes, and disseminates water-related security information
- WaterISAC and its free service, WaterSC, reach over 12,000 water utilities
- Funded in part through an EPA grant, WaterISAC is the sector's operational arm

Water

Notable Accomplishments

*****Water/Wastewater Agency Response Networks*****

Mutual Aid & Assistance

- Water/Wastewater Agency Response Network (WARN) systems facilitate a utilities-helping-utilities approach to supplying valuable inter/intra-state mutual aid and assistance in a quick and efficient manner
- EPA-funded WARN development workshops have reached utilities from all 50 states
- Nine states have operational WARN systems; remaining 41 states are currently in the process of developing WARN agreements

Water

Charting the Course

Continuing to Move Sector Security Forward...

- Developing Sector-Specific Metrics
- Piloting Water Security Initiative and Water Laboratory Alliance
- Assisting with Pan Influenza Planning
- Developing Decontamination Planning Strategies
- Conducting Consequence Analysis

Water

Collaborative Efforts

Strengthening the Public/Private Partnership by Working Together...

- Simulation and Analysis Request in the 2007 Water Sector Annual Report
- Water Environment Federation's Water Sector Interdependencies Training
- Refining EPA's Features of an Active and Effective Security Programs
- Completed the Water Sector-Specific Plan

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Water Panel Discussion

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Energy Sector
Electricity and Oil & Natural Gas
2007 CIPAC Plenary Session Report-Out

July 19, 2007

Energy

Notable Accomplishments

- Partnership structured to enable full Sector collaboration when applicable, in addition to individual Electricity and Oil & Natural Gas activities
- Energy Sector-Specific Plan (joint Electricity AND Oil & Natural Gas), Pipeline Modal Annex to the Transportation SSP
- Cyber security Roadmap to Secure Control Systems in the Energy Sector
- Electricity:
 - North American Electric Reliability Corporation (NERC) established as the electric reliability organization with legal authority to enforce standards
 - NERC-approved mandatory cyber security standards
 - Edison Electric Institute and NERC spare transformer programs
- Oil and Natural Gas:
 - Working groups established to provide input on regulatory matters with the U.S. Coast Guard and DHS; address pipeline security issues with DOT, TSA and other agencies
 - Sector Pandemic Plan in collaboration with National Infrastructure Advisory Committee (NIAC)
 - Development of Homeland Security Information Network (HSIN) platform for Oil and Natural Gas Sector to facilitate information sharing of CI/KR information

Charting the Course

- **SSP Implementation moving forward:**
 - **Sector planning and state of readiness for a pandemic**
 - **Sector-specific metrics**
 - **Enhance situational awareness, visualization**
 - **Enhance processes to share and protect information (PCII, Information Sharing Environment)**
- **Increase focus on enhancing sector resilience**

Collaborative Efforts

- **With Communications, Information Technology, and Banking and Finance – sharing information from the electricity sector during emergencies to understand priorities and monitor the situation**
- **With Health and Human Services – for pandemic planning (e.g. identify number of critical energy sector personnel for possible antiviral and vaccine distribution)**
- **With other sector SSAs – on issues such as metrics, data collection, and interdependencies**
- **With DOT/Committee on Marine Transportation System on issues relating to ports and the transportation of energy commodities**
- **With all sectors on Cross-Sector Cyber Security Working Group**

Critical Infrastructure Partnership Advisory Council (CIPAC)

Energy Panel Discussion

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Dams Sector
2007 CIPAC Plenary Session Report-Out

July 19, 2007

Dams

Notable Accomplishments

- **Successfully completed the Dams Sector Specific Plan through effective collaboration of the Dams Sector Coordinating Council (SCC) and Government Coordinating Council (GCC).**
- **Achieved a solid partnership between public and private sector security partners, as highlighted in the 2007 Dams Sector Annual Report.**
- **Established Dams Sector joint workgroups to effectively address the following areas: Asset Identification, Security Education, Information Sharing, Research and Development, and Risk Analysis and Management for Critical Asset Protection (RAMCAP).**
- **Established the Dams Sector Federal Interagency Coordination Workgroup to further integrate safety, security, and resiliency efforts at the Federal level.**
- **Conducted assessments on dams along the US-Mexico border, in collaboration with the International Boundary and Water Commission.**
- **Expanded representation of international sector security partners on the Dams SCC, including Ontario Power Generation and Hydro Quebec.**
- **Developed classified briefing for sector stakeholders regarding the criticality of dams, including information on threats, vulnerabilities, and consequences.**

Dams

Charting the Course

- Continue development of sector-specific reference documents in collaboration with sector security partners: *Security Awareness Handbook*, *Security Awareness Guide*, *Protective Measures Handbook*, and *Crisis Management Handbook*.
- Continue development of a strategic plan for security and protection of levees and flood damage reduction systems in accordance with the sector partnership model.
- Support creation of State Dam Security Panel to provide an effective forum to address security and protection issues in collaboration with state dam safety regulatory offices.
- Support development of regional consequence analysis methodologies that capture infrastructure interdependencies and cascading effects associated with failures of dams, navigation locks, and levees along river basins.
- Support development of a sector specific set of self-assessment tools to quantify consequence and vulnerability information (RAMCAP Module for Dams and Navigation Locks).
- Continue to work with international partners to establish the *International Committee on Dam Security* under the auspices of the International Commission on Large Dams (ICOLD).

Dams

Collaborative Efforts

- **Continue joint efforts with private sector stakeholders (Archer Daniels Midland Co.), state agencies (Illinois Terrorism Task Force, Illinois Department of Transportation), federal agencies (U.S. Coast Guard, U.S. Army Corps of Engineers) to evaluate potential economic impact associated with disruption of the Illinois Waterway System.**
- **Establish ad-hoc teams to address mitigation of cyber vulnerabilities and to support pandemic preparedness efforts considering a cross-sector perspective.**
- **Continue collaboration with organizations such as the National Dam Safety Review Board and the Interagency Committee on Dam Safety to foster the coordination and leverage of resources between dam security and dam safety.**
- **Support joint exercises involving scenarios affecting multiple dams, considering cascading effects, and including first responders for all impacted jurisdictions.**
- **Dams SCC members utilize Electricity or Water Sector ISAC (Information Sharing and Analysis Center) as circumstances warrant.**

Critical Infrastructure Partnership Advisory Council (CIPAC)

Dams Panel Discussion

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Nuclear Sector
2007 CIPAC Session Report-Out

July 19, 2007

Nuclear

Notable Accomplishments

- **Conducted forward looking strategy sessions, 'Security Vision 2009' to chart a three year road map for the sector**
- **Active promotion and use of HSIN by Nuclear Power Plant subsector personnel (100% of companies and 85% of nuclear sites have access)**
- **Participated in NIAC Pandemic Study Group; contributed to Pandemic Planning NIAC Report, approved by the White House**
- **Fortified cyber security in collaboration with other sectors**
- **Prompt Notification cross-sector attack simulation exercise successfully completed**
- **Industry supporting NICC with sector advisors on call for major emergencies**
- **Supported issuance of the NIPP, the NSSP and the SAR (Sector Annual Report)**
- **Positive rapport between NGCC and NSCC, promoting public-private IP partnership**
- **Classified HITRAC Briefings for sector personnel conducted quarterly at NEI**
- **Support TOP OFF Exercise**

Nuclear

Charting the Course

- **Complete the Power Plants' Comprehensive Reviews (91% complete) and RAMCAP program (97% complete)**
- **Continue Enhancements and Potential Gap closures through the CROWN process**
- **Planning HSIN outreach to additional sub-sector personnel (R-Isotopes, RTR, Cyber Security)**
- **Continue development of Sector specialized HSIN Portals (Security Operating Experience and Suspicious Activities Tracking).**
- **Complete NIAC Study Groups on Insider Threat Mitigation and Chemical-Biological-Radiological Threat Studies**
- **Nuclear Sector Specialist loanee assignment to HITRAC to assist in Threat and vulnerability analysis**
- **Further strengthening of cross-sector Cyber Security defenses**
- **Continue Deployment of Pandemic Preparedness Strategies**
- **Support other DHS related activities such as Top Off Exercise, SSP Reviews, PCIS/CIPAC Initiatives**

Nuclear

Collaborative Efforts

- **Share and spread CR/RAMCAP learnings to other sectors, beginning with the Chemical Sector**
- **Support of cross-sector NIAC Study activities such as the CI/KR Pandemic Report, Insider Threat Mitigation and CBR Studies. NSCC/NEI hosted several of the NIAC SG meetings, including facilitating classified meetings.**
- **Enhancing Cyber Security defenses is a cross-sector activity**
- **Pandemic Preparedness learnings were shared on an outreach basis with other sectors that requested assistance. Presentations on Nuclear Pandemic preparedness were made to EEI, IT, and Finance Industry Groups, etc.**
- **Prompt Notification exercise was a cross-sector exercise that went beyond the Nuclear Sector**

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Nuclear Panel Discussion

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

2007 CIPAC Plenary Session

**All meeting materials will be posted to
<http://www.dhs.gov/cipac>**

Critical Infrastructure Partnership Advisory Council (CIPAC)

Panel IV

Preparedness and Response Successes: *Using Collaboration and Speed to Save Lives*

**Food and
Agriculture:**
SCC Chair
GCC Chair

**Healthcare and
Public Health:**
SCC Chair
GCC Chair

Chemical:
SCC Chair
GCC Chair

**Emergency
Services:**
GCC Chair

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Food and Agriculture Sector
2007 CIPAC Plenary Session Report-Out

July 19, 2007

Food and Agriculture

Notable Accomplishments

- **Executing the partnership between private sector, Department of Homeland Security (DHS) and both Sector Specific Agencies (SSAs) -- Food and Drug Administration (FDA) and United States Department of Agriculture (USDA)**
- **Completed the FDA and USDA Food and Agriculture Sector Specific Plans**
- **Conducted two tabletop exercises between government and the private sector**
- **Establishment of Systematic Coordination with DHS's Homeland Infrastructure Threat and Risk Analysis Center (HITRAC)**

Food and Agriculture

Notable Accomplishments

- **Enabling of the private sector security clearance program to screen private sector individuals for security clearances**
- **Establishment of a Joint Committee on Research (JCR) - A Sector owner-operator-led working group whose purpose is to study potential gaps in agricultural security and food defense research and development (R&D) efforts**
- **Development of a Food Processing Subcouncil Continuity of Operations Template for Pandemic Flu preparation**
- **Food Processing Subcouncil workshop with USDA to consider food defense countermeasures**

Food and Agriculture

Charting the Course

- **Increase State and local government participation in Food and Agriculture Sector Activities**
- **Continue coordinated preparation for a pandemic flu event**
- **Enhance 2-way communications, including better use of DHS-provided communication tools - HSIN-FA and the ENS**
- **Undertake efforts to understand and enhance communication and coordination mechanisms, as well as roles and responsibilities of sector partners, related to incident/event management and response**

Charting the Course

- **Continued participation in the Strategic Partnership Program on Agroterrorism (SPPA) - a method of conducting vulnerability assessments with sector partners**
- **Conduct a Table Top Exercise in the Fall of 2007 that focuses on a deliberate contamination event that includes food and animals**
- **Continue to focus on expansion of FASCC involvement and constituency**

Collaborative Efforts

- **Along with other Sectors, FA-SCC members participated in the National Infrastructure Advisory Council's study group for the prioritization of critical infrastructure for a pandemic outbreak in the United States**

- **Select Processor/Manufacturer Subcouncil members and select FA-GCC members are in the early stages of planning a multi-sector vulnerability assessment specifically analyzing an interdependency between the food sector and another sector**

- **The National Center for Food Protection and Defense in collaboration with the Sector is leading an effort called the State Guidance Criticality Project in order to develop a guidance tool to allow for the identification of critical food and agriculture sector elements/systems/assets.**

Critical Infrastructure Partnership Advisory Council (CIPAC)

Food and Agriculture Panel Discussion

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Healthcare and Public Health Sector
2007 CIPAC Plenary Session Report-Out

July 19, 2007

Healthcare and Public Health

Notable Accomplishments

- **Formed a network of private sector representatives that participate as members of the Healthcare Sector Coordinating Council (HSCC)**
- **Established solid working relationship among members of the Government Coordinating Council (GCC)**
- **Engaged the HSCC and GCC for successful completion of the Healthcare and Public Health Sector Specific Plan and Sector Annual Report**
- **Advanced the partnership between HHS and DHS through the activities required from the National Infrastructure Protection Plan**

Healthcare and Public Health

Notable Accomplishments

- **Obtained security clearances for HSCC sub-council leads**
- **Articulated the healthcare workforce as an fundamental critical asset of the Healthcare and Public Health Sector**
- **Defined the critical infrastructure protection issues facing the sector within the Partnership Model of the HSCC and GCC**

Healthcare and Public Health

Charting the Course

- **Refine mechanism for communication among HHS (Sector Specific Agency), DHS, HSCC, GCC, and beyond**
- **Spread the word within the sector of the importance of CI/KR protection working toward resiliency**
- **Identify broad national critical assets, systems, networks and functions as the next step in the risk management framework**
- **Facilitate the threat and vulnerability assessment of specific CI/KR**
- **Pursue activities for the preparation, response, mitigation and recovery within the sector identified by the HSCC and GCC (e.g., prioritization of healthcare facilities for resources and restoration)**

Healthcare and Public Health

Charting the Course

- **Continue actionable planning to include all sector partners in preparing for a pandemic flu event, utilizing modeling and simulation to help focus sector efforts, and participating in national exercises**
- **Work in concert with fellow sectors on shared dependencies to ensure planning and protection efforts are coordinated**
- **Establish focused work groups to address specialized sector needs, such as the R&D Governance Organization for the sector**
- **Identify best practices and gaps related to the protection of the healthcare and public health workforce**

Healthcare and Public Health

Collaborative Efforts

- **Successfully developed nationally critical sector criteria with GCC and HSCC participation**
- **Serving as Subject matter Experts, HSCC and GCC members participate in Expert Panels for DHS and HHS: Pandemic Planning, Risk Assessment reviews, and medical material stockpile recommendations**
- **Participating in other sector GCC and joint meetings to ensure understanding of common issues and dependencies**
- **Socializing the importance of sector CI/KR protection to Healthcare and Public Health public and private sector partners**

Critical Infrastructure Partnership Advisory Council (CIPAC)

***Healthcare and Public Health
Panel Discussion***

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Chemical Sector
2007 CIPAC Plenary Session Report-Out

July 19, 2007

Chemical

Notable Accomplishments

- **Established a culture and working relationship based on Partnership resulting in increased information sharing and collaborative approach on mutual goals**
 - Sector Specific Plan issued
 - Sector Annual Report completed
 - Co-Sponsored June 2007 Chemical Sector Security Summit
 - HSIN-Chemical for security and disaster communications
 - Bi-weekly communications on suspicious activities (physical and cyber)
 - Exchange of subject-matter experts to support security initiatives and programs

Chemical

Charting the Course

- **Started implementation of Chemical Facility Anti-Terrorism Standards (CFATS)**
- **Developing Voluntary Recognition Program**
- **Preparing release of Web-based Security Awareness Training Program**
- **Developing Vehicle Born Improvised Explosive Device training for facility security officers**
- **Sector will participate in TOPOFF 4**
- **Participate in planning and execution of the national cyber exercise, Cyber Storm II**
- **Support in defining and setting targets for R&D programs**
- **Develop and track Sector Specific Metrics**

Chemical

Collaborative Efforts

- **Participated in the Chemical Comprehensive Reviews** (*Emergency Services, Transportation, and Communications Sectors*)
- **American Petroleum Institute joined the Chemical SCC** (*Oil and Natural Gas Sector*)
- **Provided subject-matter experts and input to several programs on facility security, transportation security and cyber security** (*Oil and Natural Gas, Transportation, Communications Sectors, DHS, TSA, USCG, FBI*)
- **Exchanged threat and vulnerability information on recent events, use of chlorine in Iraq, explosive and chemical weapon precursors** (*DHS, TSA, FBI*)
- **Planned for 2007 – greater collaboration with the Transportation and Emergency Services Sectors on hazardous materials**

Critical Infrastructure Partnership Advisory Council (CIPAC)

Chemical Panel Discussion

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Emergency Services Sector
2007 CIPAC Plenary Session Report-Out

July 19, 2007

Emergency Services

Notable Accomplishments

- **Collaborated to publish the Sector Specific Plan (SSP) and complete Sector Annual Report (SAR)**
- **Achievements of the EMR-ISAC**
 - **Published a CIP Process Job Aid and Homeland Security Advisory System Guide to assist in the implementation of CIP**
 - **Provides INFOGRAMS, CIP Bulletins, and CIP Information FOUO to communicate timely and consequential homeland security information**
 - **Developed a 5-minute EMR-ISAC CIP promotional video, as well as a 60-minute CIP video highlighting CIP initiatives**
- **Partnered with PSCD to assist in the facilitation of the Chemical Comprehensive Review (CR), a cooperative government-led analysis of Critical Infrastructure/Key Resources (CI/KR) within the Chemical Sector**

Emergency Services

Charting the Course

- **Establish a process to inform sector partners of available grant funding.**
- **Establish an information sharing environment through the HSIN portal.**
- **Utilize CIPAC to establish working groups with security partners to foster achievement of SSP implementation actions.**
- **Engage in outreach opportunities to include quarterly GCC and SCC meetings and conferences sponsored by sector partners.**
- **Sector will participate in TOPOFF 4.**
- **Develop and utilize sector specific metrics.**

Emergency Services

Collaborative Efforts

- **Participated in the Chemical Comprehensive Review Process (Chemical, Transportation and Communications Sectors)**
- **Participated in the NASCAR Mass Evacuation Planning initiative (Commercial Facilities Sector)**
- **Supported the Navy during the development of the Navy Firefighting and Emergency Services Vision 2030 (Defense Industrial Base)**
- **Worked with the Public Health and Healthcare Sector to facilitate an understanding of sector assets and functions, and relationship to the NIPP**

Critical Infrastructure Partnership Advisory Council (CIPAC)

Emergency Services Panel Discussion

2007 CIPAC Plenary Session

Panel V

Supply Chain Strategies

Defense	Transportation Systems:	Postal and Shipping:
Industrial Base:	<i>GCC Chair & SCC Chairs:</i>	<i>SCC Chair</i>
<i>SCC Chair</i>	<i>Aviation, Highway & Motor</i>	<i>GCC Chair</i>
<i>GCC Chair</i>	<i>Carrier, Maritime, Mass Transit</i>	

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Defense Industrial Base
2007 CIPAC Plenary Session Report-Out

July 19, 2007

Defense Industrial Base

Notable Accomplishments

- **Developed and instituted an objective approach to identify, prioritize, and assess Defense Industrial Base (DIB) assets**
- **Instituted a process to provide Defense Critical Infrastructure Program (DCIP) and National Infrastructure Protection Plan (NIPP) Awareness Training to critical DIB sites**
- **Developed a Critical Infrastructure Protection-Mission Assurance Assessment (CIP-MAA) focused on DIB critical assets, systems, networks, and functions ~ endorsed by the Department of Defense (DoD) Joint Requirements Oversight Council**
- **Developed and distributed an *Infrastructure Resiliency Guide* as a tool for asset owners to better understand their infrastructure dependencies and be proactive in instituting mitigation options**
- **Developed the DIB Sector Specific Plan**

Defense Industrial Base

Notable Accomplishments

- **Established a working group to study the issue of “Access Control” to DIB CI/KR facilities by persons other than employees performing direct contract tasks, i.e., facility maintenance personnel, etc.**
- **Introduced Sector Council members to the Homeland Security Information Network (HSIN) as a DIB Sector information sharing tool**
- **Placed member on Insider Threat Working Group of the National Infrastructure Advisory Council (NIAC)**
- **Briefed Defense Science Board panel on DIB sector CIP challenges**

Defense Industrial Base

Charting the Course

- **Pursue goals and milestones documented in the Sector Specific Plan**
- **Continue on-going site visits to increase awareness and education at critical DIB sites and expand outreach to other DIB facilities**
- **Expand existing assessment efforts to incorporate enhanced cyber security practices**
- **Conduct sector analysis to identify alternate sources of supply or expertise**
- **Explore development of Protected Critical Infrastructure Information (PCII) into a DoD-wide program**
- **Expand the use of the Homeland Security Information Network (HSIN)**
- **In partnership with the Defense Contract Management Agency (DCMA), developing a proposal to identify, organize, and train teams of dedicated military Reserve component personnel to respond to incidents involving DIB assets**

Defense Industrial Base

Charting the Course

- **Expand SCC membership to gain representation for all segments and sub-segments of the DIB**
- **Co-host DIB CIP Conference to enhance awareness of DIB Sector issues and importance of collaboration with SSA**
- **Explore key cross-sector coordination requirements to identify / explore implications of critical interdependencies**

Defense Industrial Base

Collaborative Efforts

- **The Homeland Infrastructure Foundation Level Data (HIFLD) Working Group - a coalition of federal, state, and local government organizations, Federally-Funded Research and Development Centers (FFRDC), is working with DHS, ASD(HD&ASA), National Geo-spatial Agency, and the USGS to establish a charter for the development of geo-spatial standards**
- **DoD and DHS, in collaboration with local and jurisdictional authorities in Southern CA, are identifying “first responder” capability gaps where DHS grant money could be applied to better respond to critical DIB sites**
- **Working with Department of State’s Bureau of Political-Military Affairs to implement initiatives with interagency and foreign partners to enhance protection of DIB and other international critical infrastructures on which DoD relies**
- **Establishing a framework through the Security and Prosperity Partnership with Canada to expand DIB and DCIP efforts into Canada**

Critical Infrastructure Partnership Advisory Council (CIPAC)

Defense Industrial Base Panel Discussion

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Transportation Systems Sector
2007 CIPAC Plenary Session Report-Out

July 19, 2007

Transportation Systems

Notable Accomplishments

- **Completed NIPP-related tasks**
- **Executive Order 13416 Strengthening Surface Transportation Security**
- **Enhanced, expedited screening**
- **Expanded assessment initiatives**
- **Improved information sharing**
- **Built on existing--and updated--guidelines and requirements**
- **Transportation and Port Security Grant Programs**

Transportation Systems

Charting the Course

- **Implementing goals, objectives and actions of the:**
 - **National Strategy for Aviation Security**
 - **National Strategy for Transportation Security**
 - **National Maritime Transportation Security Plan**
 - **Transportation System Sector-Specific Plan and Modal Plans**
- **Implement credentialing initiatives**
 - **Transportation Worker Identification Credential**
 - **SIDA Regulations**
 - **Background checks of applicants for Commercial Driver Licenses with HAZMAT endorsements**
- **Set Guidelines and Requirements**
 - **Revision of Pipeline Security Guidelines**
 - **TIH Final Rule**
- **Improve and measure effectiveness of stakeholder engagement**
- **Collaboratively define and set targets for R&D programs**

Transportation Systems

Collaborative Efforts

- **Transportation Systems and Energy**
 - **Pipeline security**
- **Transportation Systems and Postal and Shipping**
- **Transportation Systems and Chemical**
 - **Toxic Inhalation Hazards (TIH) Chemicals**
- **Transportation Systems and Agriculture and Food**
 - **Fertilizers**

Highway and Motor Carrier

Notable Accomplishments

- **First accomplishment: stood up HMC-SCC**
- **Established writing team for HMC Annex to NIPP**
 - **Concerns about process and input**
- **Created issues working groups:**
 - **Credentialing, Freight, Infrastructure, Pandemic/Emergency Planning, Passenger**
 - **Close working relationships on Pandemic activities**
- **Initiated joint effort with GCC to develop a risk-based Security Sensitive Hazmat list**

Highway and Motor Carrier

Charting the Course

- **Seek greater participation by relevant agencies on GCC**
- **Annual review of Highway Annex of the Transportation Sector Security Plan of NIPP**
- **Firmly establish a risk-based, cost-benefit approach for developing security requirements**
 - **Finalize list of Security Sensitive Hazardous Materials (SSHM)**
 - **Examine closely the application of technology for security purposes**
- **Continue to increase activities and input from HMC-SCC working-group**

Highway and Motor Carrier

Collaborative Efforts

- **Increase relationship among SCCs of various modes**
 - **Participation in the Transportation Sector Coordination Council (TSCC)**
- **Grow the interrelationship with other relevant sector SCCs**
 - **First meeting with Ag and Food SCC to review transportation security initiatives**
- **HMC-SCC Member of Partnership for Critical Infrastructure Security (PCIS)**

Critical Infrastructure Partnership Advisory Council (CIPAC)

Transportation Systems Panel Discussion

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

Postal and Shipping Sector
2007 CIPAC Session Report-Out

July 19, 2007

Postal and Shipping

Notable Accomplishments

- **Established a culture and working relationship based on Partnership resulting in increased information sharing and collaborative approach on mutual goals**
 - **Sector Specific Plan issued**
 - **Sector Annual Report completed**

Postal and Shipping

Charting the Course

- **Implement P&S SSP**
- **Sector will participate in TOPOFF 4**
- **Support in defining and setting targets for R&D programs**
- **Develop and track Sector Specific Metrics**
- **Increase HSIN use across the sector**

Postal and Shipping

Collaborative Efforts

- **Coordination of GCC participation in design & development of exercise planning. Increasing sector outreach through**
- **Conducting outreach & security awareness to industry organizations and associations (i.e., MCAA & XLA).**
- **Directing information exchange by provide sector driven web portals.**

Critical Infrastructure Partnership Advisory Council (CIPAC)

Postal and Shipping Panel Discussion

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

The Sector Partnership's Role in Incident Management

Robert F. Shea

*Associate Deputy Administrator
Federal Emergency Management Agency*

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

The Path Forward: Working Together to Address CI/KR Interdependencies

Robert B. Stephan

*Assistant Secretary for
Infrastructure Protection, DHS
CIPAC Co-Chair*

Michael Wallace

*President, Constellation
Generation Group
CIPAC Co-Chair*

2007 CIPAC Plenary Session

Critical Infrastructure Partnership Advisory Council (CIPAC)

2007 CIPAC Plenary Session

July 19, 2007

**Capital Hilton
Washington, DC**