CRITICAL MANUFACTURING SECTOR-SPECIFIC AGENCY
OVERVIEW, RESOURCES, AND ACTIVITIES

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16 Critical Infrastructure Sectors

Chemical Sector

The Department of Homeland Security is designated as the Sector-Specific Agency for the Chemical Sector.

Communications Sector

The Communications Sector is an integral component of the U.S. economy, underlying the operations of all businesses, public safety organizations, and government. The Department of Homeland Security is the Sector-Specific Agency for the Communications Sector.

Dams Sector

The Department of Homeland Security is designated as the Sector-Specific Agency for the Dams Sector. The Dams Sector comprises dam projects, navigation locks, levees, hurricane barriers, mine tailings impoundments, and other similar water retention and/or control facilities.

Emergency Services Sector

The Department of Homeland Security is designated as the Sector-Specific Agency for the Emergency Services Sector. The sector provides a wide range of prevention, preparedness, response, and recovery services during both day-to-day operations and incident response.

Financial Services Sector

The Department of the Treasury is designated as the Sector-Specific Agency for the Financial Services Sector.

Government Facilities Sector

The Department of Homeland Security and the General Services Administration are designated as the Co-Sector-Specific Agencies for the Government Facilities Sector.

Information Technology Sector

The Department of Homeland Security is designated as the Sector-Specific Agency for the Information Technology Sector.

Transportation Systems Sector

The Department of Homeland Security and the Department of Transportation are designated as the Co-Sector-Specific Agencies for the Transportation Systems Sector.

Commercial Facilities Sector

The Department of Homeland Security is designated as the Sector-Specific Agency for the Commercial Facilities Sector, which includes a diverse range of sites that draw large crowds of people for shopping, business, entertainment, or lodging.

Critical Manufacturing Sector

The Department of Homeland Security is designated as the Sector-Specific Agency for the Critical Manufacturing Sector.

Defense Industrial Base Sector

The U.S. Department of Defense is the Sector-Specific Agency for the Defense Industrial Base Sector. The Defense Industrial Base Sector enables research, development, design, production, delivery, and maintenance of military weapons systems, subsystems, and components or parts to meet U.S. military requirements.

Energy Sector

The U.S. energy infrastructure fuels the economy of the 21st century. The Department of Energy is the Sector-Specific Agency for the Energy Sector.

Food and Agriculture Sector

The Department of Agriculture and the Department of Health and Human Services are designated as the co-Sector-Specific Agencies for the Food and Agriculture Sector.

Healthcare and Public Health Sector

The Department of Health and Human Services is designated as the Sector-Specific Agency for the Healthcare and Public Health Sector.

Nuclear Reactors, Materials, and Waste Sector

The Department of Homeland Security is designated as the Sector-Specific Agency for the Nuclear Reactors, Materials, and Waste Sector.

Water and Wastewater Systems Sector

The Environmental Protection Agency is designated as the Sector-Specific Agency for the Water and Wastewater Systems Sector.

Critical Manufacturing Sector

- Primary focus:

**Build, sustain, and leverage public-private partnerships
to enhance critical infrastructure security and resilience**

- Established in March 2008

- Only sector defined in the Federal Registrar – core components
  [circa 2008] are:

  - Primary Metals Manufacturing

  - Machinery Manufacturing

  - Electrical Equipment, Appliance, and Component Manufacturing

  - Transportation Manufacturing

Critical Manufacturing Sector (cont.)

- **General Profile**:

  - Manufacturing facilities are geographically concentrated around coastal ports, positioned for massive importing and exporting of materials and products. This may magnify geographic risks and the effects of local disasters.

  - 60% of U.S. exports are produced by the manufacturing industry.

  - Global supply chains have grown longer and more complex — increasing susceptibility to a range of global hazards, but improving production agility.

  - Supply chains focus on efficiency, not redundancy. Lean inventories and just-in-time practices increase vulnerability to long-term disruptions.

Critical Manufacturing Sector (cont.)

- **Sector Components**:

  - **Primary Metals Manufacturing**

    - Primary metals manufacturers convert raw materials into assemblies, intermediate products, and end products. These products can include sheet metal, bar stock, I-beams, slabs, or pipes.

    - The 4,556 manufacturers in this component area were responsible for $270B in U.S. shipments.
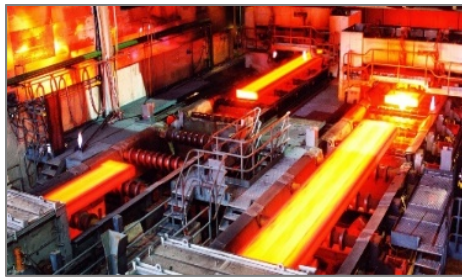
Iron and Steel Mills &
Ferro-Alloy Manufacturing

Alumina and Aluminum
Production & Processing

Non-ferrous Metal Production
& Processing

Critical Manufacturing Sector (cont.)

- **Sector Components** (cont.):
  - **Machinery Manufacturing**
    - Machinery manufacturers produce engines, turbines, and power-transmission equipment. These large, specialized products support infrastructure and primary operations in a number of critical U.S. industries.
    - The 24,124 manufacturers in this component area were responsible for $408B in U.S. shipments.

Engine & Turbine Manufacturing

Power Transmission Equipment

Earth Moving, Mining, Agricultural, & Construction Equipment

Critical Manufacturing Sector (cont.)

Additional commodities being considered:

- **Primary Metals Manufacturing**

  - Steel

  - Piping

  - Powdered metals (Aerospace & Additive Manufacturing)

- **Machinery Manufacturing**

  - Roller bearings

  - Valves

  - Fasteners

Critical Manufacturing Sector (cont.)

- **Sector Components** (cont.):
  - **Electrical Equipment, Appliance, and Component Manufacturing**
    - Electrical equipment manufacturers produce specialized equipment, assemblies, intermediate products, and end products for power generation.
    - The 5,765 manufacturers in this component area were responsible for $124B billion in U.S. shipments.

Electric Motor
Manufacturing

Transformer
Manufacturing

Generator
Manufacturing

Critical Manufacturing Sector (cont.)

- **Sector Components** (cont.):

  - **Transportation Manufacturing**

    - Transportation manufacturers produce cars and trucks, aircraft and component parts, aerospace products and parts, railroad cars and other railroad products, and other transportation equipment.

    - The 11,814 manufacturers in this component area were responsible for $793B in U.S. shipments.

Vehicle & Commercial Ships

Aerospace Products and Parts

Locomotives, Railroad and Transit Cars, and Rail Track Equipment

Critical Manufacturing Sector (cont.)

Additional commodities being considered:

- **Electrical Equipment, Appliance, and Component Manufacturing**

  - Wire & cable

  - Breakers

  - Batteries/lithium

- **Transportation Manufacturing**

  - Diesel engine parts

  - Public transit

Critical Manufacturing Sector (cont.)

- **Sector Components** (cont.):
  - **Electricity Generation**
    - When your end product is Electricity – the CM Sector assists:

Nuclear Power

Fossil Fuels

Hydro Power

Wind Power

Solar Power

Geothermal Power

Critical Manufacturing Sector (cont.)

Additional "core" components being considered:

- **Cybersecurity Supply Chain**
    - Telecommunications
    - Microelectronics

Sector Partnership Environment

Sector Partnership Environment (cont.)

- SSA Management Roles:

- Capacity Building
- Information & Data Sharing
- Partnership Development
- Information & Data Sharing

Sector-specific capacity building (technical resources, training, etc.)

Sector coordination and collaboration mechanisms

SSA Management

Sector stakeholder engagement and outreach

Sector-specific incident management
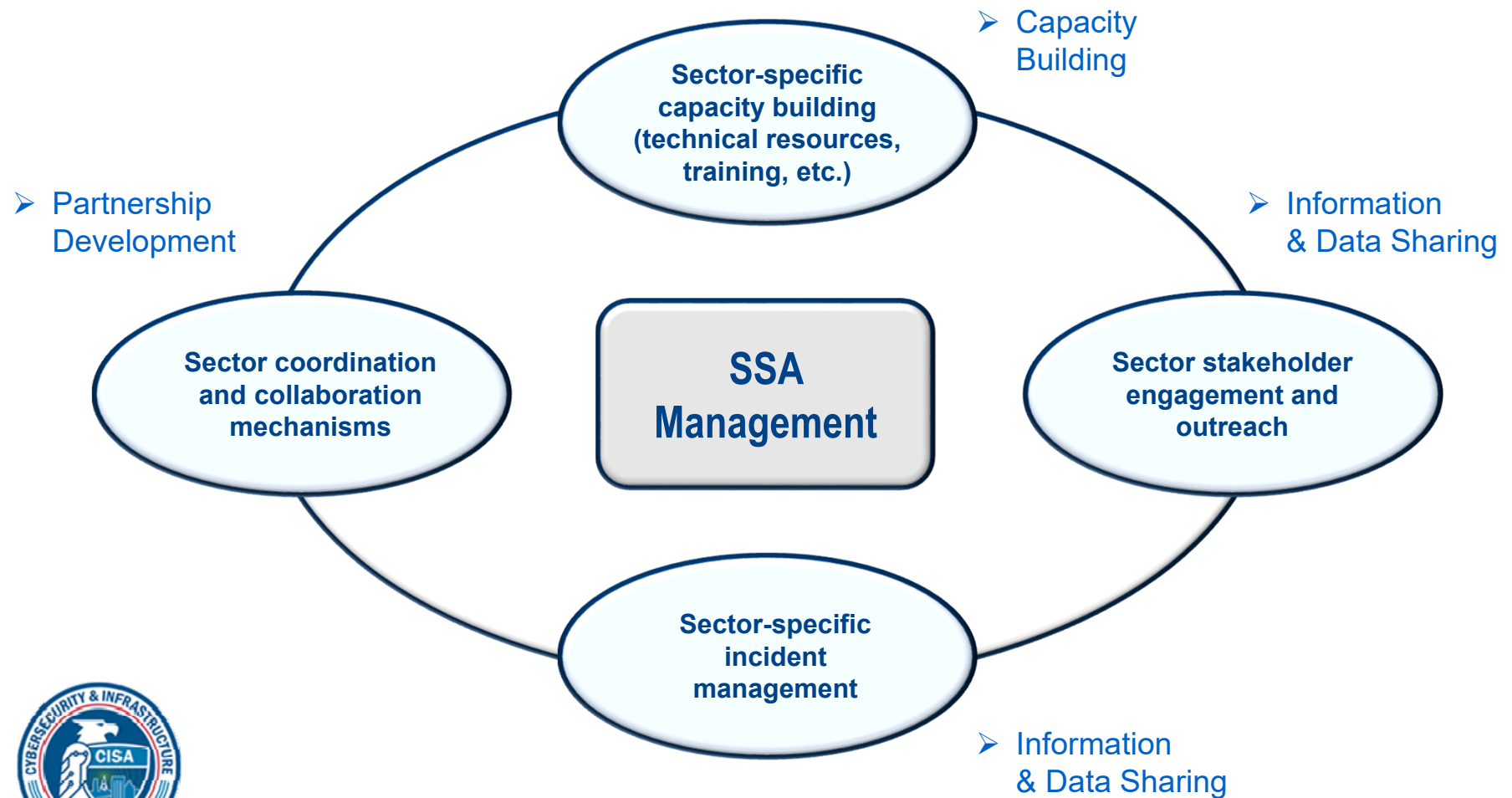
Sector Coordinating Council

- Self-organized, self-led by broad stakeholder base within sector composed of owners and operators and associations
  - Inclusive, broad sector representation once organized
- Development supported and facilitated by DHS/SSA
- Chaired by industry representatives, usually at association level
- Institutionalized process for engagement with DHS/SSA for programmatic planning, strategy, policy, implementation, and joint monitoring of progress
- Covers the full lifecycle of critical infrastructure protection from planning to response/recovery
- Option of administrative/secretariat support

Sector Coordinating Council (cont.)

- **Key Partners – SCC Executive Committee**
  - Chair: **NCR Corporation**
  - Vice Chair: **AGCO Corporation**
  - Secretary: **Aerojet Rocketdyne**
  - Additional Committee Members:
    - The Boeing Company
    - Microsoft
    - PACCAR
    - Alexion Pharmaceuticals
    - Schweitzer Engineering Laboratories, Inc.
    - ABB, Ltd.
    - View, Inc. (first alternate)

Sector Coordinating Council (cont.)

- **Key Partners – CM Sector Coordinating Council**
  - Energy industry Committee Members:
    - Schweitzer Engineering Laboratories, Inc.
    - United Technologies Corporation
    - ABB, Ltd.
    - United States Steel Corporation
    - Raytheon Co.
    - TE Connectivity, Ltd.
    - Penske Corp.
    - The Timken Co.
    - Intel Corp.
    - Cisco Systems, Inc.

Government Coordinating Council

- Counterpart to SCC for each critical infrastructure sector
- Leverages complementary resources within government and between government and industry
  - Key Partners – GCC Members:
    - U.S. Nuclear Regulatory Commission
    - Department of Commerce
    - Department of Defense
    - Department of Energy
    - Department of Health and Human Services
    - Department of Homeland Security
    - Department of Justice
      - Federal Bureau of Investigation
    - Department of Treasury
    - Environmental Protection Agency
    - Office of the Director of National Intelligence

SSA Responsibilities

- Sector-Specific Agencies are the primary Federal entities responsible for coordinating critical infrastructure security and resilience efforts at the national level.

- Primary responsibilities:
  - Sustain effective and representative public-private partnerships.
  - Develop strategic goals to mitigate physical and cyber risks and improve resilience.
  - Support education, training, information sharing and outreach.
  - Provide support to identify vulnerabilities and mitigate incidents.
  - Develop and implement sector-specific plans in support of the National Infrastructure Protection Plan.

Sector-Specific Plan

- The *Critical Manufacturing Sector-Specific Plan* (SSP) sets the strategic direction for voluntary, collaborative efforts to improve sector security and resilience over the next four years

- Describes the Critical Manufacturing Sector's approach to risk management and national preparedness

Critical Manufacturing Sector-Specific Plan

An Annex to the NIPP 2013

2015

Homeland Security

Sector Resources

- **Sector Profiles**:
  - Summarize the unique characteristics of each sector to include:
    - Impact on the economy,
    - Contribution to employment, and
    - Prevalence in everyday life.
  - Educates the public on the importance of each sector in their everyday lives.

Sector Resources (cont.)

- **Sector Landscapes:**
  - Summarize the primary security and resilience issues of importance to and within the context of the sector.
    - Natural Hazards
    - Technological Hazards
    - Cybersecurity
    - Criminal Activities and Terrorism
    - Other (aging infrastructure, dependencies, supply chain, workforce issues)
  - Enable owners and operators to consider the issues within their own unique operating environments and risk profiles.
  - Inform sector partnership (e.g., SCC, GCC) activities.

Sector Resources (cont.)

- **SSA Incident Management and Coordination Playbooks**:

  - Describes operational and administrative practices and provides easy-to-access tools and resources.

  - Assists the organization (in its role as SSA for the sector) in preparing for, responding to, and recovering from an all-hazards incident or event impacting the sector.

  - Applies to both advance-notice and no-notice physical or cyber events that trigger a coordinated response between the organization and its sector partners.

Critical Manufacturing Sector-Specific Agency, Incident Management and Coordination Playbook,
JUNE 2019,

U.S. Department of Homeland Security
Cybersecurity and Infrastructure Security Agency

Sector Resources (cont.)

- **Critical Manufacturing Sector Security Guide (ongoing)**
  - Consolidates industry practices, tools, templates, and checklists regarding major security and resilience issues of interest to the sector.
    - Physical Security
    - Cybersecurity
    - Personnel Security
    - Supply Chain Security
  - Enables owners and operators to select and implement assessments and security measures related to their unique operating environment and risk profile to improve their facility's security and resilience.

CISA CYBER+INFRASTRUCTURE

Critical Manufacturing
Sector Security Guide

AUGUST 2019

U.S. Department of Homeland Security
Cybersecurity and Infrastructure Security Agency
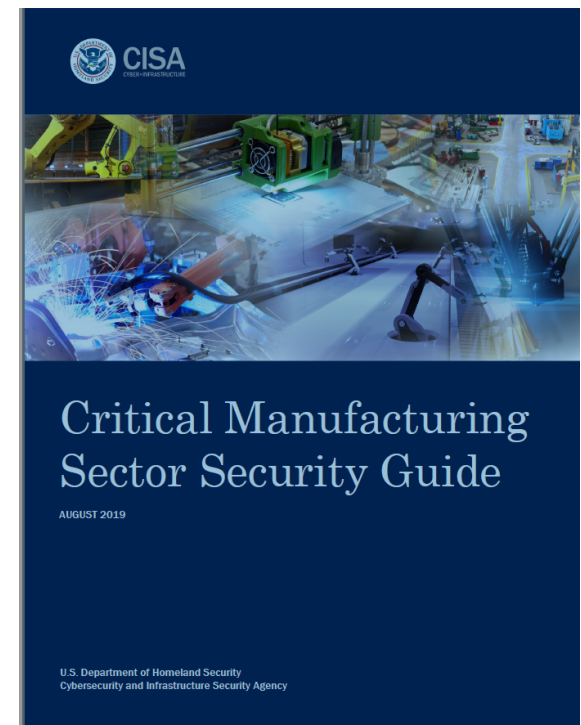
Sector Resources (cont.)

- **Annual National-Level In-Person Events**
  - **Critical Manufacturing Security Conference** *(Spring)*
    - 2019 Conference held in Milwaukee, WI and hosted by SCC member Briggs and Stratton.
    - Typically includes a demonstration of host company's capabilities or products.
  - **Critical Manufacturing Road Show** *(Fall)*
    - Introduces members of industry to Federal departments and regional agencies.
    - Demonstrates government capabilities in mitigation, response, and recovery.
    - Provides an opportunity for classified briefings.

Critical Manufacturing Sector Road Show 2019 San Antonio, TX

Drury Plaza Hotel San Antonio Riverwalk
September 25 - 26, 2019 | 8:00 AM - 5:00 PM

Sponsored by the Cybersecurity and Infrastructure Security Agency and open to all Critical Infrastructure Stakeholders

This free-to-attend event features expert-lead presentations including:

- Customs Trade Partnership Against Terrorism Overview
- Fukushima Lessons Learned
- Regional Threat Panel
- No-Host Voluntary Networking Social
- Supply Chain Security
- Critical Infrastructure Partnership Advisory Council Meeting
- Classified Threat Briefing *
  *Open to those with proper clearance level only

The event is free, but registration is required.

Registration link is below or use your browser to search "2019 Critical Manufacturing Road Show" on GovEvents
Critical Manufacturing Sector Road Show
(https://www.govevents.com/details/33704/2019-critical-manufacturing-sector-road-show/)

Drury Plaza Hotel San Antonio Riverwalk
105 South St. Mary's Street | San Antonio, TX 78205
A room block for attendees is being held at the Drury Plaza until September 3rd.
Reservations may be made by calling 1-800-325-0720 and refer to group number 2388494. Or, visit the following link: DHS Critical Manufacturing Sector Road Show
(https://www.druryhotels.com/bookandstay/newreservation/?groupno=2388494)

Questions? Please contact: criticalmanufacturing@hq.dhs.gov

Sector Resources (cont.)

- **Regional-Level In-Person Events:**
  - **Critical Manufacturing Regional Roundtable**
    - Purpose: To create locally accessible forums and address and mitigate regional-specific concerns, best practices, and information sharing.
    - Audience: Approximately 30 private sector regional critical manufacturing owners and operators from small, medium, and large organizations; as well as state, local, and Federal partners from the region.
    - Outcome: Through dialogue, facilitated discussions, and information sharing, identify ongoing and trending security concerns for the region.
    - Upcoming roundtables:
      - Detroit
      - Cleveland
      - Austin
      - Seattle

For more information:
cisa.gov

Questions?
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A Typical SED Year…