Texas Chemical Council

Mission:
• To create a globally competitive environment for the chemical industry in Texas in a manner that is positive for the State of Texas and its citizens.

Members:
• 70 Member Companies
• 200 Manufacturing & Research Facilities
• Over $150 Billion in Physical Assets
• 75,000 direct jobs / 400,000 indirect jobs
Association of Chemical Industry of Texas

Mission:
• Chemical Manufacturers and Suppliers working together for the future of Texas.

Members:
• 400 Member Companies
• Contractors, Suppliers, Vendors, Service Providers
• 400,000 industry related jobs
State of Disruption
COVID-19
*(Coronavirus Disease-2019)*

- First U.S. Case on January 21, 2020
- First U.S. Death on March 1, 2020
- Global Coronavirus Cases – 5,077,028
  - Global Deaths – 329,054
- Total U.S. Cases – 1,589,834
  - Total U.S. Deaths – 94,830
- Total Texas Cases – 51,323
  - Total Texas Deaths – 1,419
COVID-19 Declarations & Orders

March 13  Emergency Disaster Declaration *(30 Days)*

March 19  Executive Order (GA-8)
  • Prohibits Social Gathering in groups of more than 10 people
  • Closed Schools
  • Closed Restaurants, Bars, & Gyms
  • Prohibited visitors to Nursing Homes

March 22  Executive Order (GA-9)
  • Creates Supply Chain Strike Force

March 24  Harris County Issues Stay at Home Order

  Executive Order (GA-10)
  • Increase PPE Supply

March 26  Executive Order (GA-11)
  • 14 Day Quarantine for Travelers from New Orleans

March 29  Executive Order (GA-12)
  • Border Check Points & 14 Day Quarantine for Louisiana Travelers

March 31  Executive Order (GA-14)
  • Statewide Adoption of CISA Guidance for Essential Workers
Local Orders

- Harris County
- Galveston County
- Brazoria County
- Chambers County
- Jefferson County
- Orange County
- Matagorda County
- Victoria County
- San Patricio County
- Nueces County
- Gregg County
- Henderson County
Presidental Policy Directive 21 (PPD-21):

- National policy to strengthen and maintain secure, functioning, and resilient critical infrastructure.

Department of Homeland Security (DHS)

- Cybersecurity & Infrastructure Security Agency (CISA)
- 16 critical infrastructure sectors whose assets, systems, and networks, whether physical or virtual, are considered so vital to the United States that their incapacitation or destruction would have a debilitating effect on security, national economic security, national public health or safety, or any combination thereof.
CISA Critical Infrastructure Sectors

Chemical Sector

Commercial Facilities Sector
Shopping, Business, Entertainment, or Lodging

Communications Sector

Critical Manufacturing Sector

Dams Sector
Dam projects, navigation locks, levees, hurricane barriers, mine tailings impoundments, and other similar water retention and/or control facilities.

Defense Industrial Base Sector

Emergency Services Sector

Energy Sector
CISA Critical Infrastructure Sectors

Financial Services Sector

Food and Agriculture Sector

Government Facilities Sector

Healthcare and Public Health Sector

Information Technology Sector

Nuclear Reactors, Materials, and Waste Sector

Transportation Systems Sector

Water and Wastewater Systems Sector
COVID-19 Declarations & Orders

March 13  Emergency Disaster Declaration *(30 Days)*

March 19  Executive Order (GA-8)
  • Prohibits Social Gathering in groups of more than 10 people
  • Closed Schools
  • Closed Restaurants, Bars, & Gyms
  • Prohibited visitors to Nursing Homes

March 22  Executive Order (GA-9)
  • Creates Supply Chain Strike Force

March 24  Harris County Issues Stay at Home Order
  Executive Order (GA-10)
  • Increase PPE Supply

March 26  Executive Order (GA-11)
  • 14 Day Quarantine for Travelers from New Orleans

March 29  Executive Order (GA-12)
  • Border Check Points & 14 Day Quarantine for Louisiana Travelers

March 31  Executive Order (GA-14)
  • Statewide Adoption of CISA Guidance for Essential Workers
How Industry is Tackling Adversity
The Business of Chemistry manufactures thousands of chemicals and materials that improve and sustain our quality of life.

- Critical Products to fight the coronavirus
  - Chemicals for Cleaning & Disinfection
  - Safety & Protection / Personal Protective Equipment (PPE)
CLEANING AND DISINFECTION

Chemistry contributes 75% of the value of material inputs in cleaning compounds.

Intermediate Products
- Sodium bicarbonate
- Calcium carbonate
- Chlorine
- Propylene
- Biocide chemistries
- Sodium hydroxide
- Ethylene, ethylene oxide, benzene
- Anionic solutions
- Ammonium chloride
- Isopropyl alcohol
- Ethanol/ethyl alcohol

Oil & Gas, Minerals
- Ethane, Propane, Naphtha, Ammonia, Methanol

Chemical Plant

Cleaners and disinfectants
Hand sanitizers
Dish soap and laundry detergents
Spray disinfectants
Surface cleaners
Household and commercial bleach
Chemical Industry Response

• Development of Best Practices for Protecting Essential Workers and preventing the spread of the virus
  • Activation of Emergency Preparedness Plans
  • Travel Restrictions
  • Segregation of Non-Essential Workers
  • CDC Guidelines
  • Closing of Cafeterias and Canteens
  • Increased Sanitation and Disinfection
  • PPE for Essential Workers
  • Daily Health Screening and Thermal Scanning of all Essential Workers
  • Social Distancing Procedures
  • Modified Shift Rotations
  • Quarantine Bench
Chemical Industry Response

➢ TCC Coordination with Texas Dept. of Emergency Management (TDEM) & State Operations Center (SOC)

➢ Personal Protective Equipment (PPE)
  ▪ Face Masks
    • ExxonMobil – Increased Polypropylene Production
      • (200 Million Masks / mth)
    • Braskem – 40 employees / 28 day Live-In Rotations
  ▪ Medical Garments
    • Surgical Gowns
      • ExxonMobil – Increased Polypropylene Production
        • (20 Million Surgical Gowns / mth)
    • Tyvek Coveralls
      • DuPont Partnership w/ DHHS, FEMA, & FedEx
        • (500,000 coveralls / wk)
Medical Gloves
- Latex
- Nitrile
- Vinyl

Face Shields
- TDEM Request
- Plastic Sheeting for Medical Face Shields
  - Lubrizol & Nike Collaboration
  - Eastman Chemical – 100,000 face shields / wk
  - Koch Industries – 3D Printing to make Shield Visors
  - Dow – “Open Source” Design for Accelerated Production
Chemical Industry Response

➢ Hand Sanitizer
  • Increased Demand for Ethyl Alcohol & Isopropyl Alcohol
  • Companies Repurposed Operations
    • Dow – 55,000 gallons/week to Health Systems and Gov’t Agencies
    • Huntsman – 5 tons donated to Medical Facilities
    • ExxonMobil – Increased production of isopropyl alcohol - (1.5 M Gallons / mth)
    • LyondellBasell – 55 gallon drums & 1 gallon containers to Texas Counties
    • BASF –1,000+ gallons donated to TDEM and Local Communities
    • Arkema – 10,000 gallons donated to State Emergency Management Divisions
    • Chevron Phillips Chemical – 100,000 half-gallon bottles donated for Hand Sanitizer
    • Texas Brine – 600 bottles of Hand Sanitizer donated to Victoria County

➢ Financial Assistance
  • Over $10 Million donated for Global Response & Recovery for COVID-19
ReOpen Texas

April 17  Executive Order (GA-17)
  • ReOpen Texas Strikeforce

April 27  Executive Order (GA-20)
  • ReOpen Texas Phase 1 & 2

May 4  Phase 1 ReOpening
  • Restaurants
  • Movie Theaters
  • Retail to Go

May 5  Executive Order (GA-21)
  • Phase 1 extended to Barbershops and Hair Salons

May 18  Phase 2 ReOpening
  • Gyms
  • Non-essential Manufacturing
  • Commercial Buildings