

BOARD CONFIDENTIAL

Updated Contacts and Modified Justification For Support

Attached as Exhibit A is an updated list of the contacts with Senators and Congressmen made by the Committee for the time period between April 2020 and July 2020.

All of these calls went well. The calls were for the purpose of acquainting the particular Representative or Senator with the ARRL's intent to file newer, stronger legislation to replace the withdrawn ARPA bill.

It is said it is an ill wind that blows no good. C-19 is one of those winds.

In response to President Trump's declaration of a National Emergency the U.S. Department of Homeland Security tasked its Cybersecurity & Infrastructure Agency ("CISA") with identifying critical infrastructure that should remain open and operating during the C-19 crisis. In response, CISA issued its *Guidance on the Essential Critical Infrastructure Workforce* that identified Essential Critical Infrastructure Workers on March 19, 2020. That *Guidance* identified Amateur Radio as component of critical communications infrastructure.

On March 25, 2020, the State of Texas, acting on the CISA 3.19.20 *Guidance* issued directives to all Amateur Radio organizations and State agencies that the State considered Amateur Radio to be a component of critical communications infrastructure.

This declaration validated our argument that Amateur Radio's emergency communications capabilities warranted Congressional consideration for granting relief from private land use restrictions.

Using and based on these declarations we modified our previous presentations to contrast Amateur Radio's Federal and State designation as critical infrastructure with the oppressive limitations imposed by private land use restrictions on our ability to fulfill that role. Our initial efforts were directed at the Texas and Oklahoma delegations since Texas and Oklahoma are the two States with the most Presidentially declared disasters.

The approach and shifted focus have been very effective and well received.

Attached as Exhibit B is the presentation paper, we have been providing to each Congressional office with which we speak.

Senate Focus

Due to Sen. Wicker's Chairmanship of the Senate Commerce Committee and the presence of Sen. Blumenthal, Sen. Cantwell, Sen. Cruz and Sen. Gardner on the same committee we have shifted our focus from the House to the Senate with the intent to run the new bill through the Senate first and then to the House.

Why is the presence of the named Senators attractive? Sen. Cruz is from Texas, the State that followed CISA's *Guidance*, the State with the most Presidentially declared disasters and Sen. Cruz lives in the Houston area — a primary hurricane impact zone.

Sen. Gardner [Colorado]: Former Vice Director/now Section Manager Robert Wareham has a good personal relationship with Sen. Gardner. Sen. Gardner's brother-in-law is a licensed Ham who resides in Robert Wareham's Section. Robert has contacted the brother-in-law and we are confident the two points of contact will result in Sen. Gardner agreeing to be a sponsor.

Sen. Cantwell [Washington]: She is the Ranking Member of the Senate Commerce Committee and as a Washington State Senator was instrumental in passing Amateur Radio friendly legislation. We believe that when we are able to make contact that she is likely to again agree to support her Washington constituents by sponsoring the legislation.

Sen. Blumenthal [Connecticut]: was a Senate sponsor for ARPA. As an update, Jim Tiemstra, John Robert Stratton and Matt Keelen of TKG met with Sen. Blumenthal's telecommunications aide on July 15, 2020. A meeting that was to have been no more than a half hour in length became a one-hour meeting due to the aide's genuine interest and enthusiasm for our concerns. The aide was very familiar with Amateur Radio, actually expressing an interest in obtaining his license and stating he had Ham friends.

The meeting was one of our more engaged meetings. The aide was familiar with both ARPA and our new draft, understood and believed the critical infrastructure argument and spent time exploring possible objections to the legislation and how those objections might be countered. He insisted on being connected to Sen. Wicker's staff that is working on our new legislation, promised to bring the matter to Sen. Blumenthal's Chief of Staff with a probable recommendation that Sen. Blumenthal again support the legislation.

In addition, we have received a very favorable response from Sen. Inhofe [Oklahoma] who is a former member of Sen. Wicker's committee and is a personal friend of Sen. Wicker and from Sen. Cornyn [Texas], the former GOP Minority Whip. If Sen. Inhofe and Sen. Cornyn's responses convert to sponsorships and we pick up the targeted Senate Commerce Committee members, the probability of our legislation being passed to the Senate floor by Sen. Wicker's committee is very high.

Ad Hoc Legislative Advocacy Committee

July 2020

Exhibit A

ARRL Legislative Advocacy Committee Conference Calls
April – July 2020

CONNECTICUT

Senate from Connecticut

1. Blumenthal, Richard **(D)** CT Senator - 7.16.20 *call*
2. Murphy, Chris **(D)** CT Senator - 6.24.20 *call*

U.S. House of Representatives from Connecticut (5)

3. Himes, Jim **(D)** CT 4th Congressional District - 6.22.20 *call*
4. Courtney, Joe **(D)** CT 2nd Congressional District - 6.30.20 *call*

COLORADO

Senate from Colorado

5. Gardner, Cory **(R)** CO Senator

OKLAHOMA

Senate from Oklahoma

6. Inhofe, James **(R)** OK Senator - 5.18.20 *call*

U.S. House of Representatives from Oklahoma (5 members)

7. Cole, Tom **(R)** - OK 4th Congressional District - 5.14.20 *call*
8. Hern, Kevin **(R)** - OK 1st Congressional District - 5.21.20 *call*
9. Lucas, Frank **(R)** - OK 3rd Congressional District - 5.19.20 *call*
10. Mullin, Markwayne **(R)** - OK 2nd Congressional District - 4.23.20 *call*

TEXAS

Senate from Texas

11. Cornyn, John **(R)** - TX Senator - 7.9.20 *call*
12. Cruz, Ted **(R)** - TX Senator - 4.22.20 *call*

U.S. House of Representatives from Texas (36 members)

13. Brady, Kevin (R) - TX 8th Congressional District – 4.22.20 *call*
14. Burgess, Michael C. (R) (M.D.) – TX 26th Congressional District - 4.24.20 *call*
15. Carter, John (R) - TX 31st Congressional District – 6.19.20 *call to be rescheduled*
16. Crenshaw, Dan (R) - TX 2nd Congressional District – 4.22.20 *call*
17. Flores Bill (R) - TX 17th Congressional District - 5.20.20 *call*
18. Garcia, Sylvia (D) – TX 29th Congressional District - 4.28.20 *call*
19. Gonzalez, Vincente (D) – TX 15th Congressional District - 4.20.20 *call*
20. Gohmert, Louie (R) - TX 1st Congressional District - 5.18.20 *call*
21. Marchant, Kenny (R) – TX 24th Congressional District – 4.23.20 *call*
22. McCaul, Michael (R) – TX 10th Congressional District – 4.20.20 *call*
23. Roy, Chip (R) – TX 21st Congressional District – 4.28.20 *call*
24. Olson, Pete (R) – TX 22nd Congressional District – 5.26.20 *call*
25. Thornberry, Mac (R) – TX 13th Congressional District – 6.15.20 *call*
26. Weber, Randy (R) - TX 14th Congressional District - 4.28.20 *call*
27. Williams, Roger (R) – TX 25th Congressional District - 6.15.20 *call to be rescheduled*
28. Wright Ron (R) - TX 6th Congressional District - 5.18.20 *call*

Exhibit B

Amateur Radio Is Considered Critical Infrastructure

“Communications and its supporters are considered critical infrastructure ...
Amateur Radio operator and operations supporting governmental entities are critical ...

[3.25.20, Texas Division of Emergency Management Email](#)

Timeline Of Amateur Radio Designation As Critical Infrastructure

The Cybersecurity & Infrastructure Agency (“CISA”), a division of the U.S. Department of Homeland Security (“DHS”), in support of President Trump’s March 16, 2020 *Coronavirus Guidance For America* and declaration of a National Emergency, issued a [Memorandum](#) on March 19, 2020 identifying Essential Critical Infrastructure Workers during the Covid-19 response. (Exhibit 1).

The Memorandum included a list, “*CISA Guidance on the Essential Critical Infrastructure Workforce, Version 1.0*” (“Guidance”), that identified “workers who conduct a range of operations and services that are essential to continued critical infrastructure viability [Page 6 of the Guidance](#) identified Communications And Information Technology as critical infrastructure. (Exhibit 1).

On March 25, 2020, the Texas Division of Emergency Management (“TDEM”), acting pursuant to the authority of CISA’s 3.19.20 Guidance, notified all Amateur Radio operations (ARES, RACES and MARS) that the State of Texas had designated Amateur Radio operators and operations as part of Texas’ critical infrastructure. ([Exhibit 2](#)).

To underscore the authority carried by that designation, TDEM authorized Texas Amateur Radio operators to use CISA’s letter waiving the applicability of “no travel” orders to Amateur Radio operators responding to activation requests and requesting that they be accorded all assistance necessary. ([Guidance, Page 10 and Exhibit 3](#)).

Amateur Radio Was Considered Critical Infrastructure Before the C-19 National Emergency

One of the purposes for which Amateur Radio exists is to serve as a local and nationwide voluntary non-commercial emergency communications service. 47 C.F.R. 97.1(a).

Texas codified in 2009 that Amateur Radio was a critical part of its emergency communications planning. Tex. Gov’t Code §418.051(c)10).

Amateur Radio As Critical Communications Infrastructure Is Threatened With Extinction

The irony of the designation of Amateur Radio as critical infrastructure is that while the emergency response professionals recognize Amateur Radio for what it is — an extremely essential and necessary tool when the black swans land on deck — Amateur Radio’s ability to meet the expectations of those who rely on it and its ability to expand and maintain that ability is being continually diminished.

It is diminished and its future availability threatened by the continuing scourge of private land use restrictions that are imposed on almost all new residential construction in the United States. These restrictions prohibit the operation of Amateur Radio from a private residence or prohibit the installation of the exterior antennas necessary for Amateur Radio communications.

Anyone can purchase a NASCAR race car; but ownership doesn't mean you should expect to win Daytona. To win requires training and practice. It also requires the opportunity and a place to practice.

Anyone can purchase an Amateur Radio; but ownership doesn't mean you should expect to be able to provide emergency communications during an emergency. To provide the communications support needed in an emergency requires training and practice. It also requires that you have the opportunity and a place to practice.

That opportunity and place to practice are denied by private land use restrictions.

America maintains a military reserve force — the Army, Navy, Marine Corps and Air Force Reserves — and the National Guard. These reserves exist to respond in emergencies, but they would be worthless were they not provided the opportunity to train and the place and equipment needed to train.

Amateur Radio is a statutorily created national volunteer reserve emergency communications corps — and has been for over 105 years.

But that trained reserve is disappearing. If Amateur Radio operators are denied the right to install operating stations and thus denied the opportunity to train and practice, their numbers will diminish over time to the point the service will no longer be able to fulfill its function as a necessary critical infrastructure component.

America's government responders recognize Amateur Radio and its licensed operators for what we are — critical communications infrastructure — as evidenced by the actions of CISA, DHS and the State of Texas.

But, unless private land use restrictions that prohibit the operation of Amateur Radio from the residences of its members are eliminated — America's free, voluntary, critical infrastructure of a trained corps of emergency communication responders will eventually cease to exist.

John Robert Stratton
N5AUS
ARRL West Gulf Division Director

Exhibit 1

CISA March 19, 2020 Memorandum
On Identification of Critical Infrastructure



March 19, 2020

MEMORANDUM ON IDENTIFICATION OF ESSENTIAL CRITICAL INFRASTRUCTURE WORKERS DURING COVID-19 RESPONSE

FROM: Christopher C. Krebs
Director
Cybersecurity and Infrastructure Security Agency (CISA)

As the Nation comes together to slow the spread of COVID-19, on March 16th, the President issued updated Coronavirus Guidance for America. This guidance states that:

“If you work in a critical infrastructure industry, as defined by the Department of Homeland Security, such as healthcare services and pharmaceutical and food supply, you have a special responsibility to maintain your normal work schedule.”

The Cybersecurity and Infrastructure Security Agency (CISA) executes the Secretary of Homeland Security’s responsibilities as assigned under the Homeland Security Act of 2002 to provide strategic guidance, promote a national unity of effort, and coordinate the overall federal effort to ensure the security and resilience of the Nation’s critical infrastructure. CISA uses trusted partnerships with both the public and private sectors to deliver infrastructure resilience assistance and guidance to a broad range of partners.

In accordance with this mandate, and in collaboration with other federal agencies and the private sector, CISA developed an initial list of “Essential Critical Infrastructure Workers” to help State and local officials as they work to protect their communities, while ensuring continuity of functions critical to public health and safety, as well as economic and national security. The list can also inform critical infrastructure community decision-making to determine the sectors, sub-sectors, segments, or critical functions that should continue normal operations, appropriately modified to account for Centers for Disease Control (CDC) workforce and customer protection guidance.

The attached list identifies workers who conduct a range of operations and services that are essential to continued critical infrastructure viability, including staffing operations centers, maintaining and repairing critical infrastructure, operating call centers, working construction, and performing management functions, among others. The industries they support represent, but are not necessarily limited to, medical and healthcare, telecommunications, information technology systems, defense, food and agriculture, transportation and logistics, energy, water and wastewater, law enforcement, and public works.

We recognize that State, local, tribal, and territorial governments are ultimately in charge of implementing and executing response activities in communities under their jurisdiction, while the Federal Government is in a supporting role. As State and local communities consider COVID-19-related restrictions, CISA is offering this list to assist prioritizing activities related to continuity of operations and incident response, including the appropriate movement of critical infrastructure workers within and between jurisdictions.

Accordingly, this list is advisory in nature. It is not, nor should it be considered to be, a federal directive or standard in and of itself.

In addition, these identified sectors and workers are not intended to be the authoritative or exhaustive list of critical infrastructure sectors and functions that should continue during the COVID-19 response. Instead, State and local officials should use their own judgment in using their authorities and issuing implementation directives and guidance. Similarly, critical infrastructure industry partners will use their own judgment, informed by this list, to ensure continued operations of critical infrastructure services and functions. All decisions should appropriately balance public safety while ensuring the continued delivery of critical infrastructure services and functions.

CISA will continue to work with you and our partners in the critical infrastructure community to update this list as the Nation's response to COVID-19 evolves. We also encourage you to submit how you might use this list so that we can develop a repository of use cases for broad sharing across the country.

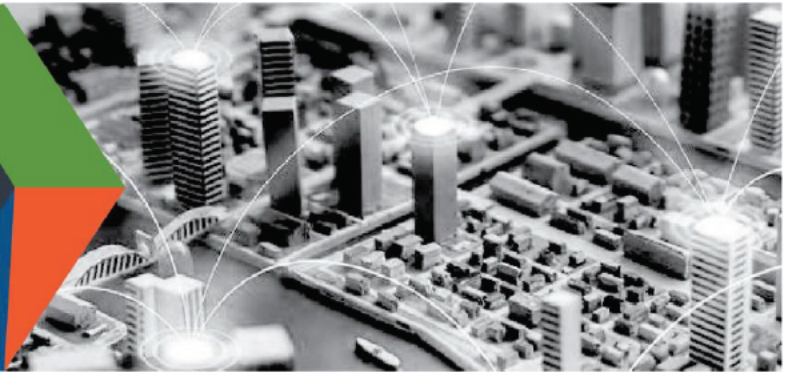
Should you have questions about this list, please contact CISA at CISA.CAT@cisa.dhs.gov.

Attachment: "Guidance on the Essential Critical Infrastructure Workforce: Ensuring Community and National Resilience in COVID-19 Response"



CISA
CYBER+INFRASTRUCTURE

DEFEND TODAY, SECURE TOMORROW



Guidance on the Essential Critical Infrastructure Workforce: Ensuring Community and National Resilience in COVID-19 Response

Version 1.0 (March 19, 2020)

THE IMPORTANCE OF ESSENTIAL CRITICAL INFRASTRUCTURE WORKERS

Functioning critical infrastructure is imperative during the response to the COVID-19 emergency for both public health and safety as well as community well-being. Certain critical infrastructure industries have a special responsibility in these times to continue operations.

This guidance and accompanying list are intended to support State, Local, and industry partners in identifying the critical infrastructure sectors and the essential workers needed to maintain the services and functions Americans depend on daily and that need to be able to operate resiliently during the COVID-19 pandemic response.

This document gives guidance to State, local, tribal, and territorial jurisdictions and the private sector on defining essential critical infrastructure workers. Promoting the ability of such workers to continue to work during periods of community restriction, access management, social distancing, or closure orders/directives is crucial to community resilience and continuity of essential functions.

CONSIDERATIONS FOR GOVERNMENT AND BUSINESS

This list was developed in consultation with federal agency partners, industry experts, and State and local officials, and is based on several key principles:

1. Response efforts to the COVID-19 pandemic are locally executed, State managed, and federally supported
2. Everyone should follow guidance from the CDC, as well as State and local government officials, regarding strategies to limit disease spread.
3. Workers should be encouraged to work remotely when possible and focus on core business activities. In-person, non-mandatory activities should be delayed until the resumption of normal operations.
4. When continuous remote work is not possible, businesses should enlist strategies to reduce the likelihood of spreading the disease. This includes, but is not necessarily limited to, separating staff by off-setting shift hours or days and/or social distancing. These steps can preserve the workforce and allow operations to continue.

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Essential Critical Infrastructure Workforce

5. All organizations should implement their business continuity and pandemic plans, or put plans in place if they do not exist. Delaying implementation is not advised and puts at risk the viability of the business and the health and safety of the employees.
6. In the modern economy, reliance on technology and just-in-time supply chains means that certain workers must be able to access certain sites, facilities, and assets to ensure continuity of functions.
7. Government employees, such as emergency managers, and the business community need to establish and maintain lines of communication.
8. When government and businesses engage in discussions about critical infrastructure workers, they need to consider the implications of business operations beyond the jurisdiction where the asset or facility is located. Businesses can have sizeable economic and societal impacts as well as supply chain dependencies that are geographically distributed.
9. Whenever possible, jurisdictions should align access and movement control policies related to critical infrastructure workers to lower the burden of workers crossing jurisdictional boundaries.


IDENTIFYING ESSENTIAL CRITICAL INFRASTRUCTURE WORKERS

The following list of sectors and identified essential critical infrastructure workers are an initial recommended set and are intended to be overly inclusive reflecting the diversity of industries across the United States. CISA will continually solicit and accept feedback on the list (both sectors/sub sectors and identified essential workers) and will evolve the list in response to stakeholder feedback. We will also use our various stakeholder engagement mechanisms to work with partners on how they are using this list and share those lessons learned and best practices broadly. We ask that you share your feedback, both positive and negative on this list so we can provide the most useful guidance to our critical infrastructure partners. **Feedback can be sent to CISA.CAT@CISA.DHS.GOV.**




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HEALTHCARE / PUBLIC HEALTH


- Workers providing COVID-19 testing; Workers that perform critical clinical research needed for COVID-19 response
- Caregivers (e.g., physicians, dentists, psychologists, mid-level practitioners, nurses and assistants, infection control and quality assurance personnel, pharmacists, physical and occupational therapists and assistants, social workers, speech pathologists and diagnostic and therapeutic technicians and technologists)
- Hospital and laboratory personnel (including accounting, administrative, admitting and discharge, engineering, epidemiological, source plasma and blood donation, food service, housekeeping, medical records, information technology and operational technology, nutritionists, sanitarians, respiratory therapists, etc.)
- Workers in other medical facilities (including Ambulatory Health and Surgical, Blood Banks, Clinics, Community Mental Health, Comprehensive Outpatient rehabilitation, End Stage Renal Disease, Health Departments, Home Health care, Hospices, Hospitals, Long Term Care, Organ Pharmacies, Procurement Organizations, Psychiatric Residential, Rural Health Clinics and Federally Qualified Health Centers)
- Manufacturers, technicians, logistics and warehouse operators, and distributors of medical equipment, personal protective equipment (PPE), medical gases, pharmaceuticals, blood and blood products, vaccines, testing materials, laboratory supplies, cleaning, sanitizing, disinfecting or sterilization supplies, and tissue and paper towel products
- Public health / community health workers, including those who compile, model, analyze and communicate public health information
- Blood and plasma donors and the employees of the organizations that operate and manage related activities
- Workers that manage health plans, billing, and health information, who cannot practically work remotely
- Workers who conduct community-based public health functions, conducting epidemiologic surveillance, compiling, analyzing and communicating public health information, who cannot practically work remotely
- Workers performing cybersecurity functions at healthcare and public health facilities, who cannot practically work remotely
- Workers conducting research critical to COVID-19 response
- Workers performing security, incident management, and emergency operations functions at or on behalf of healthcare entities including healthcare coalitions, who cannot practically work remotely
- Workers who support food, shelter, and social services, and other necessities of life for economically disadvantaged or otherwise needy individuals, such as those residing in shelters
- Pharmacy employees necessary for filling prescriptions
- Workers performing mortuary services, including funeral homes, crematoriums, and cemetery workers
- Workers who coordinate with other organizations to ensure the proper recovery, handling, identification, transportation, tracking, storage, and disposal of human remains and personal effects; certify cause of death; and facilitate access to mental/behavioral health services to the family members, responders, and survivors of an incident

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LAW ENFORCEMENT, PUBLIC SAFETY, FIRST RESPONDERS

- Personnel in emergency management, law enforcement, Emergency Management Systems, fire, and corrections, including front line and management
- Emergency Medical Technicians
- 911 call center employees
- Fusion Center employees
- Hazardous material responders from government and the private sector.
- Workers – including contracted vendors – who maintain digital systems infrastructure supporting law enforcement and emergency service operations.

FOOD AND AGRICULTURE

- Workers supporting groceries, pharmacies and other retail that sells food and beverage products
- Restaurant carry-out and quick serve food operations - Carry-out and delivery food employees
- Food manufacturer employees and their supplier employees—to include those employed in food processing (packers, meat processing, cheese plants, milk plants, produce, etc.) facilities; livestock, poultry, seafood slaughter facilities; pet and animal feed processing facilities; human food facilities producing by-products for animal food; beverage production facilities; and the production of food packaging
- Farm workers to include those employed in animal food, feed, and ingredient production, packaging, and distribution; manufacturing, packaging, and distribution of veterinary drugs; truck delivery and transport; farm and fishery labor needed to produce our food supply domestically
- Farm workers and support service workers to include those who field crops; commodity inspection; fuel ethanol facilities; storage facilities; and other agricultural inputs
- Employees and firms supporting food, feed, and beverage distribution, including warehouse workers, vendor-managed inventory controllers and blockchain managers
- Workers supporting the sanitation of all food manufacturing processes and operations from wholesale to retail
- Company cafeterias - in-plant cafeterias used to feed employees
- Workers in food testing labs in private industries and in institutions of higher education
- Workers essential for assistance programs and government payments
- Employees of companies engaged in the production of chemicals, medicines, vaccines, and other substances used by the food and agriculture industry, including pesticides, herbicides, fertilizers, minerals, enrichments, and other agricultural production aids
- Animal agriculture workers to include those employed in veterinary health; manufacturing and distribution of animal medical materials, animal vaccines, animal drugs, feed ingredients, feed, and bedding, etc.; transportation of live animals, animal medical materials; transportation of deceased animals for disposal; raising of animals for food; animal production operations; slaughter and packing plants and associated regulatory and government workforce
- Workers who support the manufacture and distribution of forest products, including, but not limited to timber, paper, and other wood products
- Employees engaged in the manufacture and maintenance of equipment and other infrastructure necessary to agricultural production and distribution

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ENERGY

Electricity industry:

- Workers who maintain, ensure, or restore the generation, transmission, and distribution of electric power, including call centers, utility workers, reliability engineers and fleet maintenance technicians
- Workers needed for safe and secure operations at nuclear generation
- Workers at generation, transmission, and electric blackstart facilities
- Workers at Reliability Coordinator (RC), Balancing Authorities (BA), and primary and backup Control Centers (CC), including but not limited to independent system operators, regional transmission organizations, and balancing authorities
- Mutual assistance personnel
- IT and OT technology staff – for EMS (Energy Management Systems) and Supervisory Control and Data Acquisition (SCADA) systems, and utility data centers; Cybersecurity engineers; cybersecurity risk management
- Vegetation management crews and traffic workers who support
- Environmental remediation/monitoring technicians
- Instrumentation, protection, and control technicians

Petroleum workers:

- Petroleum product storage, pipeline, marine transport, terminals, rail transport, road transport
- Crude oil storage facilities, pipeline, and marine transport
- Petroleum refinery facilities
- Petroleum security operations center employees and workers who support emergency response services
- Petroleum operations control rooms/centers
- Petroleum drilling, extraction, production, processing, refining, terminal operations, transporting, and retail for use as end-use fuels or feedstocks for chemical manufacturing
- Onshore and offshore operations for maintenance and emergency response
- Retail fuel centers such as gas stations and truck stops, and the distribution systems that support them

Natural and propane gas workers:

- Natural gas transmission and distribution pipelines, including compressor stations
- Underground storage of natural gas
- Natural gas processing plants, and those that deal with natural gas liquids
- Liquefied Natural Gas (LNG) facilities
- Natural gas security operations center, natural gas operations dispatch and control rooms/centers natural gas emergency response and customer emergencies, including natural gas leak calls
- Drilling, production, processing, refining, and transporting natural gas for use as end-use fuels, feedstocks for chemical manufacturing, or use in electricity generation
- Propane gas dispatch and control rooms and emergency response and customer emergencies, including propane leak calls
- Propane gas service maintenance and restoration, including call centers

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- Processing, refining, and transporting natural liquids, including propane gas, for use as end-use fuels or feedstocks for chemical manufacturing
- Propane gas storage, transmission, and distribution centers

WATER AND WASTEWATER

Employees needed to operate and maintain drinking water and wastewater/drainage infrastructure, including:


- Operational staff at water authorities
- Operational staff at community water systems
- Operational staff at wastewater treatment facilities
- Workers repairing water and wastewater conveyances and performing required sampling or monitoring
- Operational staff for water distribution and testing
- Operational staff at wastewater collection facilities
- Operational staff and technical support for SCADA Control systems
- Chemical disinfectant suppliers for wastewater and personnel protection
- Workers that maintain digital systems infrastructure supporting water and wastewater operations


TRANSPORTATION AND LOGISTICS


- Employees supporting or enabling transportation functions, including dispatchers, maintenance and repair technicians, warehouse workers, truck stop and rest area workers, and workers that maintain and inspect infrastructure (including those that require cross-border travel)
- Employees of firms providing services that enable logistics operations, including cooling, storing, packaging, and distributing products for wholesale or retail sale or use.
- Mass transit workers
- Workers responsible for operating dispatching passenger, commuter and freight trains and maintaining rail infrastructure and equipment
- Maritime transportation workers - port workers, mariners, equipment operators
- Truck drivers who haul hazardous and waste materials to support critical infrastructure, capabilities, functions, and services
- Automotive repair and maintenance facilities
- Manufacturers and distributors (to include service centers and related operations) of packaging materials, pallets, crates, containers, and other supplies needed to support manufacturing, packaging staging and distribution operations
- Postal and shipping workers, to include private companies
- Employees who repair and maintain vehicles, aircraft, rail equipment, marine vessels, and the equipment and infrastructure that enables operations that encompass movement of cargo and passengers
- Air transportation employees, including air traffic controllers, ramp personnel, aviation security, and aviation management
- Workers who support the maintenance and operation of cargo by air transportation, including flight crews, maintenance, airport operations, and other on- and off- airport facilities workers

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PUBLIC WORKS

- Workers who support the operation, inspection, and maintenance of essential dams, locks and levees
- Workers who support the operation, inspection, and maintenance of essential public works facilities and operations, including bridges, water and sewer main breaks, fleet maintenance personnel, construction of critical or strategic infrastructure, traffic signal maintenance, emergency location services for buried utilities, maintenance of digital systems infrastructure supporting public works operations, and other emergent issues
- Workers such as plumbers, electricians, exterminators, and other service providers who provide services that are necessary to maintaining the safety, sanitation, and essential operation of residences
- Support, such as road and line clearing, to ensure the availability of needed facilities, transportation, energy and communications
- Support to ensure the effective removal, storage, and disposal of residential and commercial solid waste and hazardous waste

COMMUNICATIONS AND INFORMATION TECHNOLOGY

Communications:

- Maintenance of communications infrastructure- including privately owned and maintained communication systems- supported by technicians, operators, call-centers, wireline and wireless providers, cable service providers, satellite operations, undersea cable landing stations, Internet Exchange Points, and manufacturers and distributors of communications equipment
- Workers who support radio, television, and media service, including, but not limited to front line news reporters, studio, and technicians for newsgathering and reporting
- Workers at Independent System Operators and Regional Transmission Organizations, and Network Operations staff, engineers and/or technicians to manage the network or operate facilities
- Engineers, technicians and associated personnel responsible for infrastructure construction and restoration, including contractors for construction and engineering of fiber optic cables
- Installation, maintenance and repair technicians that establish, support or repair service as needed
- Central office personnel to maintain and operate central office, data centers, and other network office facilities
- Customer service and support staff, including managed and professional services as well as remote providers of support to transitioning employees to set up and maintain home offices, who interface with customers to manage or support service environments and security issues, including payroll, billing, fraud, and troubleshooting
- Dispatchers involved with service repair and restoration

Information Technology:

- Workers who support command centers, including, but not limited to Network Operations Command Center, Broadcast Operations Control Center and Security Operations Command Center
- Data center operators, including system administrators, HVAC & electrical engineers, security personnel, IT managers, data transfer solutions engineers, software and hardware engineers, and database administrators
- Client service centers, field engineers, and other technicians supporting critical infrastructure, as well as

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Essential Critical Infrastructure Workforce

manufacturers and supply chain vendors that provide hardware and software, and information technology equipment (to include microelectronics and semiconductors) for critical infrastructure

- Workers responding to cyber incidents involving critical infrastructure, including medical facilities, SLTT governments and federal facilities, energy and utilities, and banks and financial institutions, and other critical infrastructure categories and personnel
- Workers supporting the provision of essential global, national and local infrastructure for computing services (incl. cloud computing services), business infrastructure, web-based services, and critical manufacturing
- Workers supporting communications systems and information technology used by law enforcement, public safety, medical, energy and other critical industries
- Support required for continuity of services, including janitorial/cleaning personnel

OTHER COMMUNITY-BASED GOVERNMENT OPERATIONS AND ESSENTIAL FUNCTIONS

- Workers to ensure continuity of building functions
- Security staff to maintain building access control and physical security measures
- Elections personnel
- Federal, State, and Local, Tribal, and Territorial employees who support Mission Essential Functions and communications networks
- Trade Officials (FTA negotiators; international data flow administrators)
- Weather forecasters
- Workers that maintain digital systems infrastructure supporting other critical government operations
- Workers at operations centers necessary to maintain other essential functions
- Workers who support necessary credentialing, vetting and licensing operations for transportation workers
- Customs workers who are critical to facilitating trade in support of the national emergency response supply chain
- Educators supporting public and private K-12 schools, colleges, and universities for purposes of facilitating distance learning or performing other essential functions, if operating under rules for social distancing
- Hotel Workers where hotels are used for COVID-19 mitigation and containment measures

CRITICAL MANUFACTURING

- Workers necessary for the manufacturing of materials and products needed for medical supply chains, transportation, energy, communications, food and agriculture, chemical manufacturing, nuclear facilities, the operation of dams, water and wastewater treatment, emergency services, and the defense industrial base.


HAZARDOUS MATERIALS


- Workers at nuclear facilities, workers managing medical waste, workers managing waste from pharmaceuticals and medical material production, and workers at laboratories processing test kits
- Workers who support hazardous materials response and cleanup
- Workers who maintain digital systems infrastructure supporting hazardous materials management operations

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FINANCIAL SERVICES

- Workers who are needed to process and maintain systems for processing financial transactions and services (e.g., payment, clearing, and settlement; wholesale funding; insurance services; and capital markets activities)
- Workers who are needed to provide consumer access to banking and lending services, including ATMs, and to move currency and payments (e.g., armored cash carriers)
- Workers who support financial operations, such as those staffing data and security operations centers

CHEMICAL

- Workers supporting the chemical and industrial gas supply chains, including workers at chemical manufacturing plants, workers in laboratories, workers at distribution facilities, workers who transport basic raw chemical materials to the producers of industrial and consumer goods, including hand sanitizers, food and food additives, pharmaceuticals, textiles, and paper products.
- Workers supporting the safe transportation of chemicals, including those supporting tank truck cleaning facilities and workers who manufacture packaging items
- Workers supporting the production of protective cleaning and medical solutions, personal protective equipment, and packaging that prevents the contamination of food, water, medicine, among others essential products
- Workers supporting the operation and maintenance of facilities (particularly those with high risk chemicals and/or sites that cannot be shut down) whose work cannot be done remotely and requires the presence of highly trained personnel to ensure safe operations, including plant contract workers who provide inspections
- Workers who support the production and transportation of chlorine and alkali manufacturing, single-use plastics, and packaging that prevents the contamination or supports the continued manufacture of food, water, medicine, and other essential products, including glass container manufacturing


DEFENSE INDUSTRIAL BASE

- Workers who support the essential services required to meet national security commitments to the federal government and U.S. Military. These individuals, include but are not limited to, aerospace; mechanical and software engineers, manufacturing/production workers; IT support; security staff; security personnel; intelligence support, aircraft and weapon system mechanics and maintainers
- Personnel working for companies, and their subcontractors, who perform under contract to the Department of Defense providing materials and services to the Department of Defense, and government-owned/contractor-operated and government-owned/government-operated facilities

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Exhibit 2

Texas Division of Emergency Management
Notice
That Amateur Radio and Amateur Radio
Operators Are Critical Communications
Infrastructure

From: Kevin Lemon <Kevin.Lemon@tdem.texas.gov>

Sent: Wednesday, March 25, 2020 6:33 PM

To: Bcater <bcater@portarthurpd.com>; bill@swanshome.net; bshaw@westcentraltexas.org; Clint Thetford <CThetford@lubbockcounty.gov>; Clint Thetford <CThetford@lubbockcounty.gov>; Clinton Thetford2 (cthetford@hotmail.com) <cthetford@hotmail.com>; Dale Durham <daled43@gmail.com>; David Wisdom (dwisdom@geogroup.com) <dwisdom@geogroup.com>; David Wisdom (W5drw@stx.rr.com) <W5drw@stx.rr.com>; Jim, KA5QKL <jjud654@aol.com>; Jimmy Carlen (jcarlen3000@yahoo.com) <jcarlen3000@yahoo.com>; John Newman2 (n9jn@etecs.org) <n9jn@etecs.org>; Lemon, Kevin <Lemon>; Mark Lomax (mtlomax@eprod.com) <mtlomax@eprod.com>; Roy Walker <rwalke@swbell.net>; Roy Walker (wa5yzd@arrl.net) <wa5yzd@arrl.net>; TxLawMan@aol.com; w5mct@etecs.org

Cc: kerbyray@yahoo.com; Art <conyarts@stx.rr.com>; Rodney H. Warner AAA6RD <rhwarner@me.com>; barthdm@gmail.com; Charles Byars (w5gpo@swbell.net) <w5gpo@swbell.net>; Christopher Ebert (chief54@gmx.com) <chief54@gmx.com>; David Reeder (Wa0urj@yahoo.com) <Wa0urj@yahoo.com>; Dexter Lewis (dd-lewis@sbcglobal.net) <dd-lewis@sbcglobal.net>; Dick Zimmer (dickz@suddenlink.net) <dickz@suddenlink.net>; 'Dr. David Woolweaver' (drwoolweaver@yahoo.com) <drwoolweaver@yahoo.com>; DRO Jim Wilken (n5vl@trinitystudio.com) <n5vl@trinitystudio.com>; Gerald Buxton III (dro4hurst@texasraces.org) <dro4hurst@texasraces.org>; halm@hal-pc.org; Herbert Gehring (elpraces@elpasotexas.gov) <elpraces@elpasotexas.gov>; James Overton - RACES (kf5wdj@kf5wdj.com) <kf5wdj@kf5wdj.com>; Jerry Goodson DRO 05 <jgoodsonpd@gmail.com>; Jim Reynolds (jimreynolds@pblea.org) <jimreynolds@pblea.org>; Jimmy Wilken (RACESDRO20@gmail.com) <RACESDRO20@gmail.com>; Joe Connell (jths_68@yahoo.com) <jths_68@yahoo.com>; k5rik@arrl.net; KE5MHJ <ke5mhj@144200.net>; KE5UBO@outlook.com; Louis Petit Jr. (wb5bmb@sbcglobal.net) <wb5bmb@sbcglobal.net>; Michael Miles (wd5efy@arrl.net) <wd5efy@arrl.net>; Michael Miles (wd5efy@suddenlink.net) <wd5efy@suddenlink.net>; n5qns406@gmail.com; Noel Villarreal <afa6vn@sbcglobal.net>; Rik Chapman - gmail <chapman.rik@gmail.com>; Robert (Ric) Wade (Rwade@rgv.rr.com) <Rwade@rgv.rr.com>; Robert G. Jones (w5bj@verizon.net) <w5bj@verizon.net>; Ruth Lewis <ruthlewis@hamsters.name>; Sidney Pettitt (gpetitt@stx.rr.com) <gpetitt@stx.rr.com>; Troy Reno (treno@centramedia.net) <treno@centramedia.net>; waderic420@gmail.com; dgmosher46@gmail.com; Drew Dickenson (drew.dickenson@gmail.com) <drew.dickenson@gmail.com>; Gary Armstrong KC5NOX (garyarmstrong@sbcglobal.net) <garyarmstrong@sbcglobal.net>; Gene Coldwell <coldwell@csptexas.com>; Gerald Grant (wb5r@juno.com) <wb5r@juno.com>; Johnathan Cooper (jcoop903@gmail.com) <jcoop903@gmail.com>; Michael Wisby (mwusmm@msn.com) <mwusmm@msn.com>; Patrick Rogers <w5dvg@sbcglobal.net>; Rachel Wilken (rachel@trinitystudio.com) <rachel@trinitystudio.com>; Richard Stroup (silverchief1941@yahoo.com) <silverchief1941@yahoo.com>; William Mahaney (n5wkm06@gmail.com) <n5wkm06@gmail.com>; John Roberts <robertsjohnj@gmail.com>; Kevin Dunlevy (kevin.dunlevy@sbcglobal.net) <kevin.dunlevy@sbcglobal.net>; Reed Daughtry (nahdvtv@gmail.com) <nahdvtv@gmail.com>

Subject: CISA Access Letter for Amateur Radio

All,

DHS / CISA, have published guidance on what and who fall under critical infrastructure its support. Communications and its supporters are considered critical infrastructure. I have requested and received confirmation that Amateur Radio operators and operations supporting governmental entities are critical and therefore these personnel may be allowed to travel in support of such duties.

The attached Access letter can be printed and carried by Amateur Radio operators while performing support functions during shelter in place periods. Request you reach out to your RACES members, as well as other Amateur Radio operators that may be providing assistance to governmental / public safety / medical / other critical entities during this period. Please stress the need to avoid abusing this authorization.

The second attachment provides more guidance on the variety of industries that are considered critical.

Thank you all for your support now and always.

Stay safe. This too shall pass.

Kevin Lemon, A.A., B.B.A.

Technical Operations Specialist / SRO

KD5KL Amateur Extra

Texas Division of Emergency Management

512 424 2208, ext 2451

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—image001.jpg





March 19, 2020

**MEMORANDUM ON IDENTIFICATION OF ESSENTIAL CRITICAL
INFRASTRUCTURE WORKERS DURING COVID-19 RESPONSE**

FROM: Christopher C. Krebs
Director
Cybersecurity and Infrastructure Security Agency (CISA)

As the Nation comes together to slow the spread of COVID-19, on March 16th, the President issued updated Coronavirus Guidance for America. This guidance states that:

“If you work in a critical infrastructure industry, as defined by the Department of Homeland Security, such as healthcare services and pharmaceutical and food supply, you have a special responsibility to maintain your normal work schedule.”

The Cybersecurity and Infrastructure Security Agency (CISA) executes the Secretary of Homeland Security’s responsibilities as assigned under the Homeland Security Act of 2002 to provide strategic guidance, promote a national unity of effort, and coordinate the overall federal effort to ensure the security and resilience of the Nation's critical infrastructure. CISA uses trusted partnerships with both the public and private sectors to deliver infrastructure resilience assistance and guidance to a broad range of partners.

In accordance with this mandate, and in collaboration with other federal agencies and the private sector, CISA developed an initial list of “Essential Critical Infrastructure Workers” to help State and local officials as they work to protect their communities, while ensuring continuity of functions critical to public health and safety, as well as economic and national security. The list can also inform critical infrastructure community decision-making to determine the sectors, sub-sectors, segments, or critical functions that should continue normal operations, appropriately modified to account for Centers for Disease Control (CDC) workforce and customer protection guidance.

The attached list identifies workers who conduct a range of operations and services that are essential to continued critical infrastructure viability, including staffing operations centers, maintaining and repairing critical infrastructure, operating call centers, working construction, and performing management functions, among others. The industries they support represent, but are not necessarily limited to, medical and healthcare, telecommunications, information technology systems, defense, food and agriculture, transportation and logistics, energy, water and wastewater, law enforcement, and public works.

We recognize that State, local, tribal, and territorial governments are ultimately in charge of implementing and executing response activities in communities under their jurisdiction, while the Federal Government is in a supporting role. As State and local communities consider COVID-19-related restrictions, CISA is offering this list to assist prioritizing activities related to continuity of operations and incident response, including the appropriate movement of critical infrastructure workers within and between jurisdictions.

Accordingly, this list is advisory in nature. It is not, nor should it be considered to be, a federal directive or standard in and of itself.

In addition, these identified sectors and workers are not intended to be the authoritative or exhaustive list of critical infrastructure sectors and functions that should continue during the COVID-19 response. Instead, State and local officials should use their own judgment in using their authorities and issuing implementation directives and guidance. Similarly, critical infrastructure industry partners will use their own judgment, informed by this list, to ensure continued operations of critical infrastructure services and functions. All decisions should appropriately balance public safety while ensuring the continued delivery of critical infrastructure services and functions.

CISA will continue to work with you and our partners in the critical infrastructure community to update this list as the Nation's response to COVID-19 evolves. We also encourage you to submit how you might use this list so that we can develop a repository of use cases for broad sharing across the country.

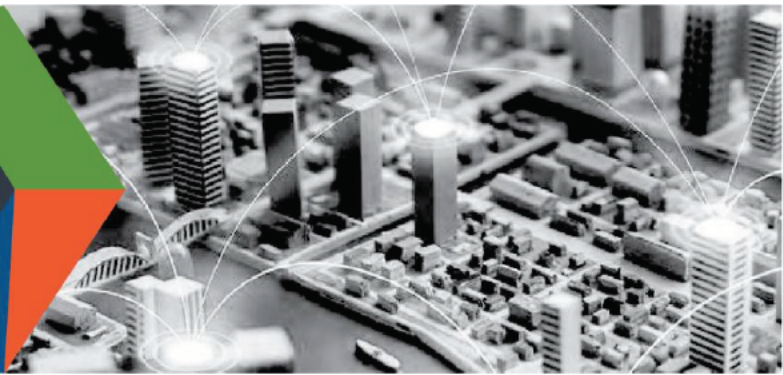
Should you have questions about this list, please contact CISA at CISA.CAT@cisa.dhs.gov.

Attachment: "Guidance on the Essential Critical Infrastructure Workforce: Ensuring Community and National Resilience in COVID-19 Response"



CISA
CYBER+INFRASTRUCTURE

DEFEND TODAY, SECURE TOMORROW



Guidance on the Essential Critical Infrastructure Workforce: Ensuring Community and National Resilience in COVID-19 Response

Version 1.0 (March 19, 2020)

THE IMPORTANCE OF ESSENTIAL CRITICAL INFRASTRUCTURE WORKERS

Functioning critical infrastructure is imperative during the response to the COVID-19 emergency for both public health and safety as well as community well-being. Certain critical infrastructure industries have a special responsibility in these times to continue operations.

This guidance and accompanying list are intended to support State, Local, and industry partners in identifying the critical infrastructure sectors and the essential workers needed to maintain the services and functions Americans depend on daily and that need to be able to operate resiliently during the COVID-19 pandemic response.

This document gives guidance to State, local, tribal, and territorial jurisdictions and the private sector on defining essential critical infrastructure workers. Promoting the ability of such workers to continue to work during periods of community restriction, access management, social distancing, or closure orders/directives is crucial to community resilience and continuity of essential functions.

CONSIDERATIONS FOR GOVERNMENT AND BUSINESS

This list was developed in consultation with federal agency partners, industry experts, and State and local officials, and is based on several key principles:

1. Response efforts to the COVID-19 pandemic are locally executed, State managed, and federally supported
2. Everyone should follow guidance from the CDC, as well as State and local government officials, regarding strategies to limit disease spread.
3. Workers should be encouraged to work remotely when possible and focus on core business activities. In-person, non-mandatory activities should be delayed until the resumption of normal operations.
4. When continuous remote work is not possible, businesses should enlist strategies to reduce the likelihood of spreading the disease. This includes, but is not necessarily limited to, separating staff by off-setting shift hours or days and/or social distancing. These steps can preserve the workforce and allow operations to continue.

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Essential Critical Infrastructure Workforce

5. All organizations should implement their business continuity and pandemic plans, or put plans in place if they do not exist. Delaying implementation is not advised and puts at risk the viability of the business and the health and safety of the employees.
6. In the modern economy, reliance on technology and just-in-time supply chains means that certain workers must be able to access certain sites, facilities, and assets to ensure continuity of functions.
7. Government employees, such as emergency managers, and the business community need to establish and maintain lines of communication.
8. When government and businesses engage in discussions about critical infrastructure workers, they need to consider the implications of business operations beyond the jurisdiction where the asset or facility is located. Businesses can have sizeable economic and societal impacts as well as supply chain dependencies that are geographically distributed.
9. Whenever possible, jurisdictions should align access and movement control policies related to critical infrastructure workers to lower the burden of workers crossing jurisdictional boundaries.


IDENTIFYING ESSENTIAL CRITICAL INFRASTRUCTURE WORKERS


The following list of sectors and identified essential critical infrastructure workers are an initial recommended set and are intended to be overly inclusive reflecting the diversity of industries across the United States. CISA will continually solicit and accept feedback on the list (both sectors/sub sectors and identified essential workers) and will evolve the list in response to stakeholder feedback. We will also use our various stakeholder engagement mechanisms to work with partners on how they are using this list and share those lessons learned and best practices broadly. We ask that you share your feedback, both positive and negative on this list so we can provide the most useful guidance to our critical infrastructure partners. **Feedback can be sent to CISA.CAT@CISA.DHS.GOV.**




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HEALTHCARE / PUBLIC HEALTH


- Workers providing COVID-19 testing; Workers that perform critical clinical research needed for COVID-19 response
- Caregivers (e.g., physicians, dentists, psychologists, mid-level practitioners, nurses and assistants, infection control and quality assurance personnel, pharmacists, physical and occupational therapists and assistants, social workers, speech pathologists and diagnostic and therapeutic technicians and technologists)
- Hospital and laboratory personnel (including accounting, administrative, admitting and discharge, engineering, epidemiological, source plasma and blood donation, food service, housekeeping, medical records, information technology and operational technology, nutritionists, sanitarians, respiratory therapists, etc.)
- Workers in other medical facilities (including Ambulatory Health and Surgical, Blood Banks, Clinics, Community Mental Health, Comprehensive Outpatient rehabilitation, End Stage Renal Disease, Health Departments, Home Health care, Hospices, Hospitals, Long Term Care, Organ Pharmacies, Procurement Organizations, Psychiatric Residential, Rural Health Clinics and Federally Qualified Health Centers)
- Manufacturers, technicians, logistics and warehouse operators, and distributors of medical equipment, personal protective equipment (PPE), medical gases, pharmaceuticals, blood and blood products, vaccines, testing materials, laboratory supplies, cleaning, sanitizing, disinfecting or sterilization supplies, and tissue and paper towel products
- Public health / community health workers, including those who compile, model, analyze and communicate public health information
- Blood and plasma donors and the employees of the organizations that operate and manage related activities
- Workers that manage health plans, billing, and health information, who cannot practically work remotely
- Workers who conduct community-based public health functions, conducting epidemiologic surveillance, compiling, analyzing and communicating public health information, who cannot practically work remotely
- Workers performing cybersecurity functions at healthcare and public health facilities, who cannot practically work remotely
- Workers conducting research critical to COVID-19 response
- Workers performing security, incident management, and emergency operations functions at or on behalf of healthcare entities including healthcare coalitions, who cannot practically work remotely
- Workers who support food, shelter, and social services, and other necessities of life for economically disadvantaged or otherwise needy individuals, such as those residing in shelters
- Pharmacy employees necessary for filling prescriptions
- Workers performing mortuary services, including funeral homes, crematoriums, and cemetery workers
- Workers who coordinate with other organizations to ensure the proper recovery, handling, identification, transportation, tracking, storage, and disposal of human remains and personal effects; certify cause of death; and facilitate access to mental/behavioral health services to the family members, responders, and survivors of an incident

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LAW ENFORCEMENT, PUBLIC SAFETY, FIRST RESPONDERS

- Personnel in emergency management, law enforcement, Emergency Management Systems, fire, and corrections, including front line and management
- Emergency Medical Technicians
- 911 call center employees
- Fusion Center employees
- Hazardous material responders from government and the private sector.
- Workers – including contracted vendors – who maintain digital systems infrastructure supporting law enforcement and emergency service operations.

FOOD AND AGRICULTURE


- Workers supporting groceries, pharmacies and other retail that sells food and beverage products
- Restaurant carry-out and quick serve food operations - Carry-out and delivery food employees
- Food manufacturer employees and their supplier employees—to include those employed in food processing (packers, meat processing, cheese plants, milk plants, produce, etc.) facilities; livestock, poultry, seafood slaughter facilities; pet and animal feed processing facilities; human food facilities producing by-products for animal food; beverage production facilities; and the production of food packaging
- Farm workers to include those employed in animal food, feed, and ingredient production, packaging, and distribution; manufacturing, packaging, and distribution of veterinary drugs; truck delivery and transport; farm and fishery labor needed to produce our food supply domestically
- Farm workers and support service workers to include those who field crops; commodity inspection; fuel ethanol facilities; storage facilities; and other agricultural inputs
- Employees and firms supporting food, feed, and beverage distribution, including warehouse workers, vendor-managed inventory controllers and blockchain managers
- Workers supporting the sanitation of all food manufacturing processes and operations from wholesale to retail
- Company cafeterias - in-plant cafeterias used to feed employees
- Workers in food testing labs in private industries and in institutions of higher education
- Workers essential for assistance programs and government payments
- Employees of companies engaged in the production of chemicals, medicines, vaccines, and other substances used by the food and agriculture industry, including pesticides, herbicides, fertilizers, minerals, enrichments, and other agricultural production aids
- Animal agriculture workers to include those employed in veterinary health; manufacturing and distribution of animal medical materials, animal vaccines, animal drugs, feed ingredients, feed, and bedding, etc.; transportation of live animals, animal medical materials; transportation of deceased animals for disposal; raising of animals for food; animal production operations; slaughter and packing plants and associated regulatory and government workforce
- Workers who support the manufacture and distribution of forest products, including, but not limited to timber, paper, and other wood products
- Employees engaged in the manufacture and maintenance of equipment and other infrastructure necessary to agricultural production and distribution

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ENERGY

Electricity industry:

- Workers who maintain, ensure, or restore the generation, transmission, and distribution of electric power, including call centers, utility workers, reliability engineers and fleet maintenance technicians
- Workers needed for safe and secure operations at nuclear generation
- Workers at generation, transmission, and electric blackstart facilities
- Workers at Reliability Coordinator (RC), Balancing Authorities (BA), and primary and backup Control Centers (CC), including but not limited to independent system operators, regional transmission organizations, and balancing authorities
- Mutual assistance personnel
- IT and OT technology staff – for EMS (Energy Management Systems) and Supervisory Control and Data Acquisition (SCADA) systems, and utility data centers; Cybersecurity engineers; cybersecurity risk management
- Vegetation management crews and traffic workers who support
- Environmental remediation/monitoring technicians
- Instrumentation, protection, and control technicians

Petroleum workers:

- Petroleum product storage, pipeline, marine transport, terminals, rail transport, road transport
- Crude oil storage facilities, pipeline, and marine transport
- Petroleum refinery facilities
- Petroleum security operations center employees and workers who support emergency response services
- Petroleum operations control rooms/centers
- Petroleum drilling, extraction, production, processing, refining, terminal operations, transporting, and retail for use as end-use fuels or feedstocks for chemical manufacturing
- Onshore and offshore operations for maintenance and emergency response
- Retail fuel centers such as gas stations and truck stops, and the distribution systems that support them

Natural and propane gas workers:

- Natural gas transmission and distribution pipelines, including compressor stations
- Underground storage of natural gas
- Natural gas processing plants, and those that deal with natural gas liquids
- Liquefied Natural Gas (LNG) facilities
- Natural gas security operations center, natural gas operations dispatch and control rooms/centers natural gas emergency response and customer emergencies, including natural gas leak calls
- Drilling, production, processing, refining, and transporting natural gas for use as end-use fuels, feedstocks for chemical manufacturing, or use in electricity generation
- Propane gas dispatch and control rooms and emergency response and customer emergencies, including propane leak calls
- Propane gas service maintenance and restoration, including call centers

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- Processing, refining, and transporting natural liquids, including propane gas, for use as end-use fuels or feedstocks for chemical manufacturing
- Propane gas storage, transmission, and distribution centers

WATER AND WASTEWATER

Employees needed to operate and maintain drinking water and wastewater/drainage infrastructure, including:


- Operational staff at water authorities
- Operational staff at community water systems
- Operational staff at wastewater treatment facilities
- Workers repairing water and wastewater conveyances and performing required sampling or monitoring
- Operational staff for water distribution and testing
- Operational staff at wastewater collection facilities
- Operational staff and technical support for SCADA Control systems
- Chemical disinfectant suppliers for wastewater and personnel protection
- Workers that maintain digital systems infrastructure supporting water and wastewater operations


TRANSPORTATION AND LOGISTICS


- Employees supporting or enabling transportation functions, including dispatchers, maintenance and repair technicians, warehouse workers, truck stop and rest area workers, and workers that maintain and inspect infrastructure (including those that require cross-border travel)
- Employees of firms providing services that enable logistics operations, including cooling, storing, packaging, and distributing products for wholesale or retail sale or use.
- Mass transit workers
- Workers responsible for operating dispatching passenger, commuter and freight trains and maintaining rail infrastructure and equipment
- Maritime transportation workers - port workers, mariners, equipment operators
- Truck drivers who haul hazardous and waste materials to support critical infrastructure, capabilities, functions, and services
- Automotive repair and maintenance facilities
- Manufacturers and distributors (to include service centers and related operations) of packaging materials, pallets, crates, containers, and other supplies needed to support manufacturing, packaging staging and distribution operations
- Postal and shipping workers, to include private companies
- Employees who repair and maintain vehicles, aircraft, rail equipment, marine vessels, and the equipment and infrastructure that enables operations that encompass movement of cargo and passengers
- Air transportation employees, including air traffic controllers, ramp personnel, aviation security, and aviation management
- Workers who support the maintenance and operation of cargo by air transportation, including flight crews, maintenance, airport operations, and other on- and off- airport facilities workers

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PUBLIC WORKS

- Workers who support the operation, inspection, and maintenance of essential dams, locks and levees
- Workers who support the operation, inspection, and maintenance of essential public works facilities and operations, including bridges, water and sewer main breaks, fleet maintenance personnel, construction of critical or strategic infrastructure, traffic signal maintenance, emergency location services for buried utilities, maintenance of digital systems infrastructure supporting public works operations, and other emergent issues
- Workers such as plumbers, electricians, exterminators, and other service providers who provide services that are necessary to maintaining the safety, sanitation, and essential operation of residences
- Support, such as road and line clearing, to ensure the availability of needed facilities, transportation, energy and communications
- Support to ensure the effective removal, storage, and disposal of residential and commercial solid waste and hazardous waste

COMMUNICATIONS AND INFORMATION TECHNOLOGY

Communications:


- Maintenance of communications infrastructure- including privately owned and maintained communication systems- supported by technicians, operators, call-centers, wireline and wireless providers, cable service providers, satellite operations, undersea cable landing stations, Internet Exchange Points, and manufacturers and distributors of communications equipment
- Workers who support radio, television, and media service, including, but not limited to front line news reporters, studio, and technicians for newsgathering and reporting
- Workers at Independent System Operators and Regional Transmission Organizations, and Network Operations staff, engineers and/or technicians to manage the network or operate facilities
- Engineers, technicians and associated personnel responsible for infrastructure construction and restoration, including contractors for construction and engineering of fiber optic cables
- Installation, maintenance and repair technicians that establish, support or repair service as needed
- Central office personnel to maintain and operate central office, data centers, and other network office facilities
- Customer service and support staff, including managed and professional services as well as remote providers of support to transitioning employees to set up and maintain home offices, who interface with customers to manage or support service environments and security issues, including payroll, billing, fraud, and troubleshooting
- Dispatchers involved with service repair and restoration

Information Technology:


- Workers who support command centers, including, but not limited to Network Operations Command Center, Broadcast Operations Control Center and Security Operations Command Center
- Data center operators, including system administrators, HVAC & electrical engineers, security personnel, IT managers, data transfer solutions engineers, software and hardware engineers, and database administrators
- Client service centers, field engineers, and other technicians supporting critical infrastructure, as well as

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Essential Critical Infrastructure Workforce

manufacturers and supply chain vendors that provide hardware and software, and information technology equipment (to include microelectronics and semiconductors) for critical infrastructure

- Workers responding to cyber incidents involving critical infrastructure, including medical facilities, SLTT governments and federal facilities, energy and utilities, and banks and financial institutions, and other critical infrastructure categories and personnel
- Workers supporting the provision of essential global, national and local infrastructure for computing services (incl. cloud computing services), business infrastructure, web-based services, and critical manufacturing
- Workers supporting communications systems and information technology used by law enforcement, public safety, medical, energy and other critical industries
- Support required for continuity of services, including janitorial/cleaning personnel

OTHER COMMUNITY-BASED GOVERNMENT OPERATIONS AND ESSENTIAL FUNCTIONS

- Workers to ensure continuity of building functions
- Security staff to maintain building access control and physical security measures
- Elections personnel
- Federal, State, and Local, Tribal, and Territorial employees who support Mission Essential Functions and communications networks
- Trade Officials (FTA negotiators; international data flow administrators)
- Weather forecasters
- Workers that maintain digital systems infrastructure supporting other critical government operations
- Workers at operations centers necessary to maintain other essential functions
- Workers who support necessary credentialing, vetting and licensing operations for transportation workers
- Customs workers who are critical to facilitating trade in support of the national emergency response supply chain
- Educators supporting public and private K-12 schools, colleges, and universities for purposes of facilitating distance learning or performing other essential functions, if operating under rules for social distancing
- Hotel Workers where hotels are used for COVID-19 mitigation and containment measures

CRITICAL MANUFACTURING

- Workers necessary for the manufacturing of materials and products needed for medical supply chains, transportation, energy, communications, food and agriculture, chemical manufacturing, nuclear facilities, the operation of dams, water and wastewater treatment, emergency services, and the defense industrial base.

HAZARDOUS MATERIALS

- Workers at nuclear facilities, workers managing medical waste, workers managing waste from pharmaceuticals and medical material production, and workers at laboratories processing test kits
- Workers who support hazardous materials response and cleanup
- Workers who maintain digital systems infrastructure supporting hazardous materials management operations

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FINANCIAL SERVICES

- Workers who are needed to process and maintain systems for processing financial transactions and services (e.g., payment, clearing, and settlement; wholesale funding; insurance services; and capital markets activities)
- Workers who are needed to provide consumer access to banking and lending services, including ATMs, and to move currency and payments (e.g., armored cash carriers)
- Workers who support financial operations, such as those staffing data and security operations centers

CHEMICAL

- Workers supporting the chemical and industrial gas supply chains, including workers at chemical manufacturing plants, workers in laboratories, workers at distribution facilities, workers who transport basic raw chemical materials to the producers of industrial and consumer goods, including hand sanitizers, food and food additives, pharmaceuticals, textiles, and paper products.
- Workers supporting the safe transportation of chemicals, including those supporting tank truck cleaning facilities and workers who manufacture packaging items
- Workers supporting the production of protective cleaning and medical solutions, personal protective equipment, and packaging that prevents the contamination of food, water, medicine, among others essential products
- Workers supporting the operation and maintenance of facilities (particularly those with high risk chemicals and/or sites that cannot be shut down) whose work cannot be done remotely and requires the presence of highly trained personnel to ensure safe operations, including plant contract workers who provide inspections
- Workers who support the production and transportation of chlorine and alkali manufacturing, single-use plastics, and packaging that prevents the contamination or supports the continued manufacture of food, water, medicine, and other essential products, including glass container manufacturing


DEFENSE INDUSTRIAL BASE


- Workers who support the essential services required to meet national security commitments to the federal government and U.S. Military. These individuals, include but are not limited to, aerospace; mechanical and software engineers, manufacturing/production workers; IT support; security staff; security personnel; intelligence support, aircraft and weapon system mechanics and maintainers
- Personnel working for companies, and their subcontractors, who perform under contract to the Department of Defense providing materials and services to the Department of Defense, and government-owned/contractor-operated and government-owned/government-operated facilities

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CISA
CYBER + INFRASTRUCTURE

CIOCC
CISA Integrated Operations Coordination Center

NCC
National Communications Coordination Branch

UNCLASSIFIED

March 16, 2020

To Whom It May Concern:

The bearer of this letter is providing emergency communications sustainment and restoration support to critical communications infrastructure facilities in response to:

COVID-19 Declaration of National Emergency

These critical communications facilities are necessary to ensure first responder, emergency responders, public messaging, and 911 communications providing lifesaving capabilities are functional during this period of National Emergency. In the course of providing this support, the bearer must be able to travel to and access the infrastructure facilities during curfews and restricted travel periods in order to prevent loss of service or restore of critical communications services.

The Cyber and Infrastructure Security Agency's (CISA) National Communications Coordination Branch (NCC) requests any courtesy that can be extended be offered to the bearer of this letter during this response. Request support through the following date:

From: March 16, 2020 To: May 28, 2020

CISA/NCC greatly appreciates your cooperation and is working with the bearer to coordinate the rapid restoration of critical communications networks and continuance of communications retail capabilities supporting responders and community at large during this national emergency.

The bearer is responsible for payment of services received.

The CIOCC – Comms has a 24-hour point of contact to address any questions or concerns related to this request and can be reached at (703) 235-5080 or at NCC@hq.dhs.gov.

John O'Connor
Director, National Communications Coordination Branch
Cybersecurity and Infrastructure Security Agency

Exhibit 3

CISA Letter Granting Exemption From Travel Restrictions



CISA
CYBER + INFRASTRUCTURE

CIOCC
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