COVID-19 Exposure Prevention Plan

C. Gessner and S. Shimko

Policy-13 (release 2.0)

Release Date: 2020-05-20

Revision Date: 2020-08-31

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## Change Record

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<th>Release</th>
<th>Date</th>
<th>Description</th>
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<tr>
<td>1.0</td>
<td>2020-05-20</td>
<td>Initial release.</td>
<td>Daniel Calabrese</td>
</tr>
<tr>
<td>2.0</td>
<td>2020-08-31</td>
<td>Removed reference to Phases, added new exposure reduction requirements and Guidance for Conditions of Exposure</td>
<td>C. Gessner, S. Shimko, V. Schnader</td>
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Purpose

AURA and its National Optical-Infrared Astronomy Research Laboratory (NOIRLab) are committed to the health and safety of our staff at all locations. In late March 2020, due to the COVID-19 worldwide pandemic, facilities were closed, and staff began working under an emergency telework procedure. This document defines the Safety and Health requirements and procedures for the process of phasing-in the return of some of our staff that will begin to enable the observatories. This document applies to all contractors and visitors that may be allowed on site.

This plan mandates requirements and procedures intended to minimize COVID-19 exposure and spread at the workplace. Failure to comply with the requirements and procedures of this document shall be considered a breach of contract, agreement, or a serious infraction and, depending on the violation, may result in termination of the contract, agreement, employment, disciplinary action, or other sanctions at the discretion of management. In Chile, the disciplinary actions, including work termination, will be made in compliance with the existing labor regulations.

Nothing contained in this plan shall be interpreted to guarantee or assure the health, safety or wellbeing of anyone entering the site, or that the site will be free of COVID-19. In no event shall this document give rise to an independent cause of action or provide any additional personal or governmental rights or liabilities.

This plan is based on information available from the CDC, OSHA, local jurisdictions, and the Chilean government at the time of its development and is subject to change based on further information provided by the CDC, OSHA, Chilean labor Law and protocols of the Chilean Ministry of Health (MINSAL), and other public officials. This plan may be amended based on changing operational needs. To help ensure the health and safety of our staff, AURA reserves the right, at any time, to implement more stringent requirements than those mandated or recommended by the CDC, OSHA, local jurisdictions and the Chilean government.
References

1) CDC Interim Guidance for Businesses and Employers to Plan and Respond to Coronavirus Disease 2019 (COVID-19)

2) OSHA 4000, OSHA Alert COVID-19 Guidance for the Construction Workforce, 04 2020

3) OSHA 3990, Guidance on Preparing Workplaces for COVID-19, 03 2020

4) CDC Interim Guidance for Emergency Medical Services (EMS) Systems and 911 Public Safety Answering Points (PSAPs) for COVID-19 in the United States, March 10, 2020

5) ASSP Hawaii Chapter, COVID-19 Best Practices for a Construction Site, April 2020 Chapter Meeting Webinar


7) General Contractors Association of Hawaii Sample COVID-19, Jobsite Policy, April 10, 2020

8) Chilean Labor Code

9) Chilean Ministry of Health

10) Chilean Work Accident Law 16.744
COVID-19 Exposure Prevention Plan

1. What is COVID-19?

The novel coronavirus, COVID-19 is one of seven types of known human coronaviruses. COVID-19, like the MERS and SARS coronaviruses, likely evolved from a virus previously found in animals. The remaining known coronaviruses cause a significant percentage of colds in adults and children, and these are not a serious threat for otherwise healthy adults.

Patients with confirmed COVID-19 infection have reportedly had mild to severe respiratory illness with symptoms such as fever, cough, and shortness of breath.

According to the U.S. Department of Health and Human Services/Centers for Disease Control and Prevention ("CDC"), Chinese authorities identified an outbreak caused by a novel—or new—coronavirus. The virus can cause mild to severe respiratory illness, amongst other impacts. The outbreak began in Wuhan, Hubei Province, China, and has spread to a growing number of other countries—including the United States.

1.1 How is COVID-19 Spread?

COVID-19, like other viruses, can spread between people. Infected people can spread COVID-19 through their respiratory secretions, especially when they cough or sneeze. According to the CDC, spread from person-to-person is most likely among close contacts (about 6- feet or 2 meters). Person-to-person spread is thought to occur mainly via respiratory droplets, produced when an infected person talks, coughs or sneezes. These droplets land in the mouths or noses of people who are nearby or possibly be inhaled into the lungs. It may be possible that a person can get COVID-19 by touching a surface or object that has the virus on it and then touching their own mouth, nose, or possibly their eyes, but this is not thought to be the main way the virus spreads.
1.2 Basic Steps to Lower Your Risk

Stay home if you are sick or have had close contact with someone who is sick. These are not normal times, and a return to AURA facilities should not be considered a return to “normal” as existed prior to the pandemic. If you are granted access to the workplace, you must follow the recommendations given by AURA. These include, but are not limited to:

11) While on site, everyone must wear AURA-provided masks fully and snugly over the nose and mouth. See Section 6.1 for more details.

12) AURA provided masks must be worn while in public spaces in buildings until further notice. Public spaces include labs, work areas, instrument shops, restrooms, corridors, and other open areas where social distancing may not be possible and other people may be present.

13) An AURA provided mask must be worn or kept with you while on site, at all times.

14) Wearing a mask outside is generally not required unless it is mandated to do so by a local jurisdictions, including but not limited to federal, state, county, city, MINSAL, property owners, and universities. In addition, masks must be worn outside in immediate environment circumstances, such as standing in a congested area, where appropriate separation between individuals is not possible.

15) Safely maintaining at least six feet of separation between other individuals onsite.

16) Avoid physical contact, including handshakes and hugging.

17) Avoiding areas of congestion. Wear your mask if you find yourself in an area of congestion.

18) Use the disinfectant spray or wipes to clean your work surfaces before starting work and after completion of the work.

19) Wash your hands at the start of the shift and frequently thereafter for at least 20 seconds, or use hand sanitizer with 60% to 95% alcohol if hand washing is not available.

20) When working alone, cover your mouth and nose with a tissue or your sleeve (not your hands) when coughing or sneezing.

21) Avoid touching your eyes, nose, or mouth.
22) Touch as little as possible and wipe down surfaces after touching them when possible.

23) Minimize your time onsite if possible.

24) Wearing your mask in a private area such as a single occupancy office is not required. However, even if a space is otherwise private, masks should be worn by all parties if others visit this space. (e.g. a person in an office should wear a mask if they have a visitor, as should the visitor.)

1.3 Symptoms of COVID-19

People with COVID-19 have had a wide range of symptoms reported – ranging from mild symptoms to severe illness.

Symptoms may appear 2-14 days after exposure to the virus. People with these symptoms may have COVID-19:

25) Cough (persistent, dry cough)
26) Shortness of breath or difficulty breathing
27) Fatigue
28) Fever (100.4 degrees F or higher) or chills
29) Muscle or body aches
30) Headache
31) Sore throat
32) New loss of taste or smell
33) This list is not all possible symptoms. Other possible symptoms have been reported, including congestion or runny nose, gastrointestinal symptoms like nausea, vomiting, or diarrhea.
1.4 When to Seek Medical Attention

Look for emergency warning signs* for COVID-19. If someone is showing any of these signs, seek emergency medical care immediately:

34) Trouble breathing
35) Persistent pain or pressure in the chest
36) New confusion
37) Inability to wake or stay awake
38) Bluish lips or face

*This list is not all possible symptoms. Please call your medical provider for any other symptoms that are severe or concerning to you.

Call 911 or call ahead to your local emergency facility: Notify the operator that you are seeking care for someone who has or may have COVID-19.

For Chile:

MINSAL: 600 360 7777
Asociación Chilena de Seguridad (ACHS): 91404

1.5 Vulnerable Individuals

If you believe you have a pre-existing condition that puts you at higher risk of severe illness and have been called back to work at an AURA facility, contact your Human Resources professional to discuss concerns or to request possible special accommodations. CDC defines high risk as age 65 or older, chronic lung disease, moderate to severe asthma, serious heart conditions, immunocompromised (including cancer treatment, smoking, bone marrow or organ transplantation, immune deficiencies, poorly controlled HIV or AIDS, or prolonged use of corticosteroids and other immune weakening medications), severe obesity (body mass index of
40 or higher), diabetes, chronic kidney disease undergoing dialysis, or liver disease.

2. Management Responsibilities

All managers and supervisors shall be familiar with this plan and shall follow and enforce the requirements and procedures of this plan.

2.1 Training

Management is required to ensure all workers scheduled to return to work received the HR and exposure prevention training, before reporting to work at AURA facilities.

2.2 COVID-19 Health Questionnaire Instructions

After being requested to return to an AURA facilities site, workers will be presented the Health Assessment Questionnaire during mandatory exposure prevention training. Workers are to be told, if they are answering “Yes” to any of the questions, do not come to work and contact your manager and Human Resources immediately.

If at any time later, your conditions change and you are answering “Yes” to any of the questions, do not come to work, contact your manager immediately and HR.

Supervisors or attendance recorder shall ensure daily verbal confirmation that all questions of the questionnaire are “No”. If possible, this should be done prior to site entry. The site access questionnaire should be posted on all entrances of the site. If a person answers “Yes” to any of the questions, stay or return home and notify your manager and Human Resources.

NOTE: Individuals with pre-existing conditions that chronically present similar symptoms to those of COVID-19 should contact Human Resources for guidance on completing the form.

2.3 Active Screening

Active screening of workers, as a requirement to enter the AURA site or building, may be
conducted before the start of each shift. Management may assign a person(s) to conduct the screening and act as an “exposure prevention advocate” to aid supervisors and workers to comply with this plan. Management shall enforce the requirements and procedures of this plan.

Active screening will permit people onto the site only if they are determined as “No Identifiable Risk.”

2.3.1 Active Screening Process

39) Individuals waiting on and going through the active screening process must maintain at least 6-foot (2 meters) distance from other people. Consider other methods for safe distancing such as having individuals drive up to a station.

40) The assigned screener may review the questions on the COVID-19 Health Assessment Questionnaire with the individual being screened, while maintaining at least 6-foot distance (2 meters) from the individual.

41) If a person answers ‘Yes’ to any of the questions, the screener will ask them to leave the workplace or site immediately and seek medical evaluation.

42) If a person answers “No” to all questions, the person may proceed onto the site.

43) If a person refuses to be screened, the person may not proceed onto the site. Management and Human Resources should be made aware of the refusal immediately.

2.4 Alternative Active Screening

Management may choose to measure the temperatures of those seeking access to AURA facilities or sites and will follow and comply with manufacturer guidelines and best practices as set forth by the CDC, the health authority in Chile, and other regulators.

2.5 Site Inspections

Management shall ensure AURA facilities or sites shall be inspected regularly for exposure prevention plan compliance. See Appendix sample checklist.
2.6 Contact Tracing

Processes and procedures shall be put in place at each site to document staff contact. HR will notify the center and or site director of exposure and illness information to allow local management to facilitate contact tracing and notify workers of exposure potential, following privacy requirements. In the event of an exposure, management shall have site-specific processes in place to support an investigation of possible contacts or common location contact to other staff.


Everyone approved to be at any one of the sites shall become familiar with this plan, and shall follow the requirements and procedures herein along with any applicable site-specific procedures.

3.1 Employee Exhibits COVID-19 Symptoms

If an employee exhibits COVID-19 symptoms after they arrive at work or during the work day, the employee must notify Human Resources. The employee should immediately be separated from other workers, customers and/or visitors and be sent home.

Employees may return to work if all of the following conditions are met.

1) The employee is symptom free;
2) Ten (10) days have passed since symptoms began, and;
3) The employee has not had a fever for 24 hours without the use of fever-reducing or other symptom-altering medicines (e.g., cough suppressants)

Employees are required to provide Human Resources with documentation from a medical care provider clearing them to return to work, unless this requirement is waived by Human Resources.

For Chile: In both cases the worker shall be advised to consult with a medical doctor or the ACHS in order to determine if he/she is in a condition of a suspected case (presenting an acute condition with at least two of the symptoms of the COVID-19 disease or a severe acute respiratory infection
requiring hospitalization); or a probable case (patient who has been exposed to a close contact with a confirmed case of COVID-19 and with at least one of the symptoms of COVID-19). Workers in Chile should follow the MINSAL Protocols (https://www.minsal.cl/).

### 3.2 Employee Confirmed Positive for COVID-19

An employee who tests positive for COVID-19 will be directed to self-quarantine away from AURA facilities.

Employees that test positive and are asymptomatic (not exhibiting symptoms) must inform Human Resources and may return to work when ten (10) days have passed since the date of their first positive test and they have not had a subsequent illness.

Employees who test positive and have symptoms must inform Human Resources and stay at home until all of the following conditions are met.

1) The employee is symptom free;

2) Ten (10) days have passed since symptoms began, and;

3) The employee has not had a fever for 24 hours without the use of fever-reducing or other symptom-altering medicines (e.g., cough suppressants)

In both cases above, employees who test positive must provide Human Resources with documentation from a medical care provider clearing their return to work, unless this requirement is waived by Human Resources.

#### 3.2.1 Cleaning Protocol

If it has been less than 7 days since the sick workers used the facility, clean and disinfect all areas used by the sick workers following the CDC cleaning and disinfection recommendations and/or the MINSAL Protocols in Chile. In most cases, the facility doesn’t need to shut down. However, do close off any areas used for prolonged periods of time by the sick person:

- Wait 24 hours before cleaning and disinfecting to minimize potential for other workers
being exposed to respiratory droplets. If waiting 24 hours is not feasible, wait as long as possible.

- During this waiting period, open outside doors and windows to increase air circulation in these areas.
- Follow the CDC cleaning and disinfection recommendations and/or the MINSAL Protocols in Chile.

If it has been 7 days or more since the sick workers used the facility, additional cleaning and disinfection is not necessary. Continue routinely cleaning and disinfecting all high-touch surfaces in the facility.

### 3.3 Employee Has Close Contact with an Individual who has Tested Positive for COVID-19

If an employee learns that they have come into close contact outside of AURA facilities with an individual who has tested positive for COVID-19, they will notify Human Resources immediately. Per the CDC, close contact is defined as having close (within 6.0 ft.) and prolonged (generally 15 or more minutes) contact with the COVID-19 individual. The employee will be directed to self-quarantine for 14 days from the last date of close contact with that individual. In addition, the employee should monitor their symptoms for fever (100.4°F), cough, shortness of breath, or other symptoms of COVID-19.

If management determines an employee has been in close contact with an individual at AURA facilities/sites who has tested positive for COVID-19, the employee will be directed to self-quarantine, monitor their health, and maintain appropriate separation from others for 14 days from the last date of close contact with that positive test person. If applicable, management will also notify any contractors, vendors/suppliers or visitors who may have had close contact with the confirmed-positive person.
After 14 days of self-quarantine the employee may return to work if

1) The employee is symptom free; and

2) The conditions of 3.1 or 3.2 above are met should the employee have symptoms of, or be confirmed as having, the COVID-19 virus.

For Chile: Please also refer to the MINSAL specific definition of “Close Contact” in Chile, which defines close contact as an individual who is involved in any of the following situations:

- Provide direct care without the appropriate personal protective equipment (PPE) to confirmed cases with COVID-19.
- Stay in the same closed environment (workplace, home and meeting rooms) and less than 1 meter from a confirmed case with COVID-19 (symptomatic)
- Travel in close proximity (less than 1 meter) with a confirmed case with COVID-19 (symptomatic) in any type of means of transport.

4. Exposure Reduction Requirements

4.1 Personal Hygiene

1) Frequently wash hands with soap and water for at least 20 seconds after touching common surfaces, such as door handles, handrails, and elevator buttons. When soap and running water are unavailable, use an alcohol-based hand rub with at least 60% alcohol. Always wash hands that are visibly soiled.

2) Avoid touching eyes, nose, or mouth with unwashed hands.

3) Practice good respiratory hygiene by covering cough or sneeze with a tissue, then throwing the tissue in the trash. If a tissue is not available, use the inside of the elbow. Immediately wash hands with soap and water for at least 20 seconds. If soap and water are not readily available, clean hands with a hand sanitizer containing at least 60% ethyl alcohol.
4) Avoid close contact with people who are sick.

5) Employees who have symptoms (i.e., fever, cough, or shortness of breath) should notify their supervisor and Human Resources and stay home—DO NOT COME TO WORK.

6) Avoid using other employees’ phones, computers, desks, offices, or other work tools and equipment, when possible. If necessary, clean and disinfect them before and after use.

7) Clean and disinfect frequently used and shared tools and equipment on a regular basis. Use paper towels or napkins when using bathrooms, locker rooms, and other places to avoid direct contact when handling handles, opening valves, etc.

4.2 Social Distancing

Employees and workers shall follow the precautionary measures such as hand washing, avoiding contact with other workers, and good personal hygiene practices before they access the site and after they leave the site.

1) If possible, use online meetings. Meeting rooms will be closed.

2) Employees and workers are to avoid close contact with others by maintaining social distancing of at least 6-feet (2 meters). Minimize time and maximize distance and ensure face masks are worn.

3) Meetings for work crews shall be conducted in smaller groups to meet the 10-person limit (US White House suggestion and Chile Ministry of Health) while maintaining at least 6-foot (2 meters) distance between individuals. If meetings are conducted in-person, attendance will be collected verbally and the meeting leader will sign-in each attendee, to avoid sharing pens. Attendance will not be tracked through passed-around sign-in sheets or mobile devices. Wear facemasks during this type of meeting.

4) If part of the program, hold multiple small stretch and flex sessions to keep group size to less than 10 people, spaced 6 feet (2 meters) apart.

5) To the extent practicable, stagger lunch periods, project start/arrival and end times.

6) Create separation plans so multiple crews maintain required minimum 6-foot (2 meters)
spacing and eliminate trade stacking of work in the same location (i.e., one sub trade per floor).

7) Ensure adequate restrooms, handwashing facilities, and hand sanitizers are available; allow only one person in a restroom at a time.

8) Provide safe distance floor/ground markings where people congregate (i.e., restrooms, wash stations, etc.).

9) Use the cell phone app for attendance if required and available. If required to use fingerprint attendance systems or meal entry; use hand sanitizer or wash hands after using the device. Signs will be posted throughout the area reminding employees of physical distancing, wash their hands and other ways to minimize exposure. Additional information can be found here about social distancing:


4.3 Personal Protective Equipment

4.3.1 Mask Wearing

Surgical masks or other face coverings will be provided by management on a daily basis and more often if needed. The use of homemade or employee-purchased masks will be prohibited when at work; they may be worn when arriving and leaving the workplace.

All staff must wear AURA-provided masks fully and snugly over the nose and mouth. Masks must be worn at all times in public areas. Exceptions to this rule may only be granted by the AURA Chief of Staff.

Masks may be removed when eating or drinking, or when engaging in aerobic activity at altitude. Eating or drinking must be done while socially distanced from other employees.

Staff who require alternatives to AURA-provided masks for personal medical reasons are to discuss with HR. HR may recommend exceptions for medical reasons to the AURA Chief of Staff for approval.
Supervisors of staff who request an exception to this rule for non-medical reasons should discuss their exception request, and desired solution, with their local NOIRLab safety contact. Local planning leads or Program Directors may then recommend exceptions to the NOIRLab Deputy Director to bring to the AURA Chief of Staff.

Masks shall be disposed of daily in trash receptacles, How to wear a mask:


Surgical masks are not respirators and are intended to slow the spread of the virus and help people who may unknowingly have the virus from transmitting it to others. These face coverings should:

1) Fit snugly but comfortably against the side of the face
2) Be secured with ties or ear loops
3) Include multiple layers of material
4) Allow for breathing without restriction
5) Be disposed of after use

4.3.2 Use of N95 Respirators

N95 filtering facemask (respirators) or other air purifying respiratory protection may be provided by management if needed for a specific industrial task. N95 masks and air purifying respiratory protection are regulated by OSHA and should be reserved for work activities that require the use of such protection. Employee purchased masks are not allowed when working.

Workers are encouraged to limit the need for the use of N95 filtering face mask respirators by using engineering and work practice controls to minimize dust. Such controls include the use of water delivery and dust collection systems, as well as limiting exposure time.
4.3.3 Gloves

Gloves should be worn while doing manual labor on-site when practical or required. Working alone in an office setting does not require the use of gloves. The type of glove worn should be appropriate to the task. Disposable gloves shall be used for cleaning. Gloves should not be shared.

Disposable gloves should be properly removed and disposed of after use.

4.3.4 Other PPE

Regular PPE for workers engaged in various tasks will be provided when needed such as fall protection, hard hats, hearing protection and others.

No sharing of PPE is allowed.

4.3.5 Disposal of PPE and Cleaning Materials

Facilities shall provide closable receptacles near entrances to dispose of PPE including masks, wipes, gloves and other materials. Employees can dispose of these materials in work areas but are required to take the used PPE in the local trash liner to the facilities provided receptacles at the end of the shift. Janitorial staff shall dispose of trash with the liners (not leaving the liners behind).

5. Building Access

A person has been assigned by senior management to minimize potential exposures at all the sites by monitoring building access. Some teams of facilities maintenance, IT, and financial personnel will have access to the building for essential functions and are noted on an exceptions list. All people will request entrance by email and the monitor will allow access if the task is deemed essential.
5.1 Minimizing Exposure at Facilities

While we remain in our unusual state of operations, we remind everyone that you may only access our facilities in accordance with approved procedures. You may not unilaterally provide building access to colleagues who have not been approved for such access through the NOIRLab approval process.

5.2 Building Cleaning Practices

Facilities will follow the Ministry of Health of Chile and CDC cleaning guidelines, which includes cleaning and disinfecting frequently used tools and equipment, and areas of the site.

Employees performing cleaning will use proper personal protective equipment, such as nitrile, latex, or vinyl gloves as recommended by the Ministry of Health of Chile and CDC.

Any trash collected from the site must be changed frequently by someone wearing nitrile, latex, or vinyl gloves.

Hand sanitizer dispensers should be maintained depending on availability.

Frequently touched items (i.e. door pulls, doorknobs, handrails, faucets and toilet seats) will be disinfected frequently. See the Clean Site Checklist (Section 11).

Consider adding touch free door pulls in our facilities, where possible:

https://www.restroomdirect.com/footpull_door_opener.aspx
https://www.restroomdirect.com/armpull.aspx

Further information can be found at


Management will arrange for the appropriate cleaning of any areas of the site where a confirmed-positive individual may have contacted. Access to these areas will be restricted before employees
can access that workspace again.

### 5.3 Cleaning Equipment and Tools

Clean and disinfect frequently touched objects and surfaces such as workstations, keyboards, telephones, and doorknobs. Dirty surfaces can be cleaned with soap and water prior to disinfection. To disinfect, use products that meet EPA’s criteria for use against SARS-CoV-2, the cause of COVID-19, and are appropriate for the surface.

Clean and disinfect frequently used tools and equipment at least daily.

Disinfect shared surfaces (door handles, machinery controls, etc.) at least daily and between shifts.

Disinfect equipment that is introduced into the work area.

Avoid sharing tools with co-workers. If not possible, disinfect before and after each use.

### 5.4 Food Handling

1) No sharing of common water or other beverage (e.g. coffee) dispensers at the site.

2) Employees shall bring their own food and proper containers, unless the food is normally provided by the company.

3) For employees that bring their own lunch, they shall bring their own utensils or use disposable utensils.

4) Common lunch areas, kitchen spaces, refrigerators, microwaves, food dispensers, ice machines shall be avoided to the extent possible. Facilities shall consider cordonning off these areas.

5) Workers are encouraged and in some cases are required to bring their own water containers for personal use only.

6) Individual bottled water maybe provided as appropriate.
7) Workers are to label all drinking bottles with their name to avoid sharing.

8) No sharing of food or drink on the site.

9) Wash hands before and after eating.

10) Eating areas should be sanitized after each use.

11) Eating group sizes are to be limited to 10 or fewer persons spaced 6 feet (2 meters) apart.

6. Vehicle Use

6.1 Social Distancing in Vehicles

When in vehicles the potential sources of exposure include having close contact with passengers with COVID-19, or touching surfaces touched or handled by a person with COVID-19. The following are required:

1) Wear the company provided facemask when riding with others.

2) Clean hands by washing hands or use of disinfectant or hand sanitizer.

3) Maintain the 6-foot (2 meters) distance outside of the vehicle.

4) If riding in a bus or van, stagger seats to provide 6-foot (2 meters) distance, load the bus from back to front. Unload from front to back.

5) In cars and small trucks there shall be one person per row of seating, one driver, one passenger. Passenger in the back seat opposite of the driver.

6) Avoid using the recirculated air option for the vehicles’ ventilation during passenger transport; use the vehicles’ vents to bring in fresh outside air and/or lower the vehicle windows.

7) Do not offer items such as water bottles, magazines, or other items.

8) Each person to handle their own personal bags and belongings during pick-up and drop-off.
9) Avoid contact with surfaces frequently touched by passengers or other drivers, such as door frame/handles, windows, seat belt buckles, steering wheel, gearshift, signaling levers, and other vehicle parts before cleaning and disinfection. Avoid touching your eyes, nose, or mouth.

10) Carry tissues in vehicles to use when you cough, sneeze, or touch your face. Passengers to dispose of the tissues after exiting the vehicle.

### 6.2 Cleaning Company Vehicle

At a minimum, clean and disinfect commonly touched surfaces in the vehicle at the end of each use. Ensure cleaning and disinfection procedures are followed consistently and correctly, including the provision of adequate ventilation when chemicals are in use.

Doors should remain open when cleaning the vehicle. When cleaning and disinfecting, individuals should wear disposable gloves compatible with the products being used, as well as any other PPE required according to the product manufacturer’s instructions.

### 6.3 Clean and Disinfecting Vehicles

1) Cleaning and disinfectant spray or disposable wipes and disposal trash bags should be kept in each vehicle.

2) Follow the directions on the cleaning product’s label.

3) If surfaces are visibly dirty, they should be cleaned with detergent or soap and water prior to disinfection.

4) At a minimum, clean and disinfect frequently touched surfaces in the vehicle at the beginning and end of each shift.

5) Use appropriate disinfectants for hard non-porous surfaces.
7. Stop Work Authority and Reporting Non-Compliance

Any person can and shall immediately request stop work of any activity they participate in or witness that could pose a serious threat to the life or health of people, the environment, or equipment while working. Such a stop work request shall be communicated verbally with the individual(s) engaged in the activity or through the supervisor of the activity.

The person asked to stop an activity shall do so immediately. Disagreements or differences of opinion about the need to stop an activity shall occur only after the activity is stopped and people are removed from the hazard.

The appropriate local senior manager and the local safety professional shall be notified immediately to assist in the evaluation of the hazard. The activity can resume after the hazard has been corrected and after the appropriate local senior manager and the local safety professional have acknowledged that correction in writing. The appropriate local senior manager shall forward the written corrective action to the Safety Manager within 24 hours of the resolution. If the resolution is not made locally, then the local senior manager shall notify the Safety Manager and the Site Director to assist in possible resolutions and approvals.

8. Summit/High-Altitude Safety Considerations

8.1 Altitude Issues

Altitude illness or mountain sickness and COVID-19 illness have some shared signs and symptoms such as shortness of breath, difficulty breathing, nausea, vomiting, bluish lips or face, pain or pressure in the chest, even possibly new confusion or inability to wake or stay awake. Current protocols for summits are to call 911 for US based operations or summons the paramedic for Chile based operations. It is important to begin descent as soon as possible if any such severe signs and symptoms manifest.

For mild altitude illness signs and symptoms that persist for more than 10-15 minutes after resting, descent is also required. If severity of signs or symptoms worsen, call 911 or the paramedic, aid
in self-administered oxygen, and immediately descend.

In light of some shared signs and symptoms of altitude and COVID-19 illnesses, workers with mild altitude sickness shall be monitored. If the worker is knowledgeable of their own typical response to altitude, considering possible long time from altitude work, they may be allowed to rest. If the worker exhibits no fever, no history of exposure, no other signs or symptoms, had no symptoms prior to arrival on summit and has oxygen saturation level above 90%, the worker shall be monitored. If there is no improvement in 10 to 15 minutes, the worker must leave the summit. If severity of signs or symptoms worsen, call 911 or the paramedic, aid in self-administered oxygen, and immediately descend.

8.2 Face Mask Use at Altitude

If a worker has trouble breathing in general while wearing a facemask at altitude, (possibly due to the additional strain to respiration through a loose fitting surgical-type mask) the worker will not be able to work on site while facemasks are required. The worker must notify their supervisor, leave the site, and contact Human Resources for guidance.

There is an exception to allow temporarily mask removal in public or common use area for highly aerobic activities like climbing stairs at altitude, if you maintain social distancing, and do not have a general difficulty breathing, such as at rest or at non-strenuous activities.

8.3 Illness and Injuries

First responders to any event that would involve close proximity to assist other workers would first ensure that all involved have appropriate face coverings and the responder puts on disposable gloves and has eye protection. If the event would then cause prolonged close contact such as CPR, responders would immediately obtain and wear additional protective gear from the blood borne pathogens kit (eye and face protection, gloves and gown). Multiple first responders could relieve others to reduce the close contact time, if possible.
8.4 Transportation for Illness or Injury

Transportation of a worker unable to drive themselves off site would require the use of a larger vehicle such as vans or SUV where the driver and the worker could maintain social distancing by having the worker in the farthest seat possible from the driver. Face coverings are required for both and windows and ventilation maximized according to the weather conditions.

8.5 Oxygen Self-Administration

To reduce possible respiratory infection exposure, oxygen administration by nasal cannula is the preferred method over oxygen masks and should be applied under a facemask in a well-ventilated area. Oxygen flow by the nasal cannula is to be kept at or below 6 liters per minute to not produce aerosol out flow (reference EMR safety guidelines). If only an oxygen mask is available, a facemask over the oxygen mask should be applied and the flow also be limited as above.

8.6 CPR

The American Heart Association (AHA) has released guidelines to the public for Hands-Only CPR (Cardio Pulmonary Resuscitation) and first responders should follow this guidance. The use of facemasks for responders and victims is required.
Figure 1: AHA Instructions for Adult CPR

9. Clean Site Checklist

The following checklist should be used for regular cleaning and disinfection of the sites:

1) Schedule regular twice daily cleaning and disinfection of bathrooms and portable toilets.

2) Recommended ratio for workers to portable toilets is one per 10 workers. Ensure portable toilets are spaced at least 6 feet (2 meters) apart.

3) Ensure eating areas if provided, are cleaned after each group.

4) Provide disinfecting wipes/sprays so tools and/or equipment that must be shared can be cleaned/disinfected between uses.

5) Sanitation/Disinfection wipes/sprays should be provided in each piece of shared equipment for workers to clean/sanitize before and after use. This includes but is not...
limited to controls, seats, seatbelts and other frequently touched surfaces associated with operation of the equipment.

6) Establish cleaning protocols and schedules in high-contact workspaces.

7) Provide additional tools, equipment, PPE, and signage to ensure potentially infected areas can be cleaned thoroughly and safely. This includes, but is not limited to:

8) Barrier tape, stanchions, cones, or other temporary barricading methods.

9) Disposable gloves.

10) Respirator and/or face shield per products instructions.

11) Protective clothing (i.e., disposal gown, Tyvek suit).

Consult OSHA guidelines for use of personal protective equipment.

Disinfect/sanitize all common or high-traffic areas including, but not limited to:

1) Handrails

2) Tool box handles and locks

3) Storage room/container door handles and locks

4) Doorknobs

5) Lunch areas

6) Conference rooms

7) Other shared/common areas

8) Restrooms

9) Elevator buttons

10) Faucets

11) Toilet seats

12) Light switches
13) To the extent practicable, delivery personnel should remain in their vehicles.

14) Use disposable nitrile/latex gloves when handling packages or wash your hands afterwards.

15) Where work trailers are used, only necessary employees should enter the trailers and all employees should maintain social distancing while inside the trailers. Site trailers in use should be disinfected at least once per day.

16) Trash must be removed frequently (minimum daily) by someone wearing nitrile, latex, or vinyl gloves.

17) When employees perform construction and maintenance activities within occupied homes, office buildings, and other establishments, these work locations present unique hazards with regards to COVID-19 exposures. All such workers should evaluate the specific hazards when determining best practices related to COVID-19.

18) During work, employees must disinfect the work areas upon arrival, throughout the workday, and immediately before departure.

19) Employees should remind other occupants to keep a personal distance of 6 feet (2 meters) at a minimum. Workers should wash or sanitize hands immediately before starting and after completing the work.

10. **Disinfecting Instructions**

Refer to the EPA List N: Disinfectants for Use against COVID-19

https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2

Management may approve the use of bleach solutions for disinfecting and assign a worker(s) to make the solution. To make a bleach solution, mix:

1) 5 tablespoons (1/3 cup) bleach per gallon of water OR

2) 4 teaspoons bleach per quart of water
Follow the manufacturer’s instructions for application and proper ventilation. Verify that the product is not past its expiration date. Never mix household bleach with ammonia or any other cleanser. Unexpired household bleach will be effective against coronaviruses when properly diluted.

Ensure alcohol solutions have at least 60% ethanol or 70% isopropyl alcohol.

Products with EPA-approved emerging viral pathogen claims are expected to be effective against COVID-19 based on data for harder to kill viruses. Follow the manufacturer’s instructions for all cleaning and disinfection products (e.g., concentration, application method, and contact time, etc.).
11. Appendix A: Sample COVID-19 Health Assessments
CORONAVIRUS (COVID-19) SITE ACCESS QUESTIONNAIRE

XXX PROJECT IS COMMITTED TO MAINTAINING A SAFE WORKPLACE FOR EVERYONE.
In light of recent Coronavirus (COVID-19) developments, effectively immediately, access to the worksite is limited.

ONLY WORKERS WHO ANSWER NO TO ALL THE QUESTIONS MAY BE PERMITTED ACCESS.

PROCEED HOME IF YOU:
- Are experiencing problems with breathing, have a cough or fever.
- Develop these symptoms while on site REPORT THIS TO YOUR SUPERVISOR IMMEDIATELY.
- Answer yes to any of the questions below.

PLEASE READ QUESTIONS AND ANSWER THE BELOW. ONLY DISCLOSE WHICH QUESTIONS WERE YES ANSWERS CONCERNING HEALTH TO HUMAN RESOURCES

IN THE PAST 14 DAYS, have you had any of the following Coronavirus (COVID-19) symptoms?

<table>
<thead>
<tr>
<th>Symptom</th>
<th>YES / NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUGH</td>
<td></td>
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<tr>
<td>SHORTNESS OF BREATH or DIFFICULTY BREATHING</td>
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<td>FEVER or CHILLS</td>
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<td>MUSCLE PAIN or SORE THROAT</td>
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<tr>
<td>NEW LOSS OF TASTE or SENSE OF SMELL</td>
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</table>

IN THE PAST 14 DAYS, have you had close contact with anyone who exhibited the above symptoms or tested positive for Coronavirus (COVID-19)?

YES / NO

IN THE PAST 14 DAYS, have you returned from travel outside of this location?

YES / NO

SCREENING DECISION TREE

RESPONSES TO COVID-19 SITE ACCESS QUESTIONNAIRE

"YES" TO ANY QUESTION ON THE QUESTIONNAIRE

1. DO NOT ENTER SITE
2. NOTIFY YOUR MANAGER
3. CONTACT YOUR MEDICAL PROVIDER
4. NOTIFY HUMAN RESOURCES

MAY GO TO WORK

"NO" TO ALL QUESTIONS ON THE QUESTIONNAIRE

SELF ISOLATE FOR 14 DAYS OR BE FEVER FREE FOR 72+ HOURS
12. **Appendix B: Sample Site Inspection Checklist**

<table>
<thead>
<tr>
<th>Check or Inspect</th>
<th>Date:</th>
<th>Date:</th>
<th>Date:</th>
<th>Initial</th>
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<th>Initial</th>
<th>Week 1</th>
<th>Week 2</th>
<th>Week 3</th>
<th>Week 4</th>
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<tbody>
<tr>
<td>Ample handwashing and hand sanitizer stations are set up and available.</td>
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<td>Lunch and break areas set up in order to accommodate social distancing.</td>
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<td>Lunch and break times have been staggered to prevent overcrowding.</td>
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<td>Employees advised to bring cold lunches to prevent common microwave use.</td>
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<td>Portable toilets spaced out to prevent overcrowding.</td>
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<td>Increased sanitation and disinfection has been implemented.</td>
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<td>Toolbox talks and stretch and flex adjusted for social distancing and reducing group size to under 10 people.</td>
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<td>Sign in sheet process has been adjusted to ensure pens are not shared by employees.</td>
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<td>Workstations are set up to abide by social distancing measures.</td>
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<td>Protocols have been established for not sharing PPE or Tools.</td>
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<td>For reusable PPE, proper sanitation procedures have been outlined and followed.</td>
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<td>COVID-19 Posters have been properly displayed in multiple areas.</td>
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<td>Trailer offices workstation have ample social distancing.</td>
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<td>Trailer offices have increased sanitation measures.</td>
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<td>Inventory masks, disinfectant, wipes and hand sanitizer supplies and report.</td>
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<td>Please speak with employee and ask them their concerns, feeling or perception of things are.</td>
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<td>Take notes below and their name if they are ok with it.</td>
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Example taken from Helix Electric, ASSP Hawaii webinar on COVID-19 Best Practices for a Construction Site, April 2020