National Tribal Air Association

Indoor Air Quali

An Overview of COVID in the Workplace & Funding for Tribes: Re-Opening Tribal Buildings

Wednesday, July 29th, 2pm ET



Webinar Agenda:

- 2. An Overview of COVID in the workplace & Indoor Air Quality Considerations
- workplace
- 4. Questions & Discussion



Thompson Duffy (NPAIHB), Gillian Mittelstadt

Informational webinars will last 1.5 hours register!

Click here to

IAQ Considerations to Assist Tribes in **Re-Opening Tribal Buildings: An Overview of COVID** in the Workplace and **Funding for Tribes**

July 29, 2020

Webinar Agenda:

- 1. Welcome and Introductions: Ernie Grooms, NTAA IAQ Work Group Lead
- 2. An Overview of COVID in the workplace & Indoor Air Quality Considerations:
 - a. An Indigenous Perspectives on COVID: Philmer Bluehouse, Traditional Diné Peacemaker
 - b. Latest science review: Mansel Nelson, Institute for Tribal Environmental Professionals
 - c. Summary of Recommendations: Holly Thompson Duffy, Environmental Health Consultant for the Northwest Portland Area Indian Health Board
- 3. Funding for Tribes to re-open the workplace
 - a. CARES Act Technical Assistance Guidance: Oxcenia O'Domin of Alaska Native Tribal

 Health Consortium
 - b. Indoor Air Funding Directory for Tribes: *Gillian Mittelstaedt of the Tribal Healthy Homes Network*
 - c. Overview of HUD Funds: Danielle Schopp from the U.S. Department of Housing and Urban Development's Office of Native American Programs (HUD ONAP)
 - d. Overview of EPA Indoor Air Quality Resources: Pat Childers and Nate McMichael, EPA's Office of Air and Radiation (EPA OAR)
- 4. Review Attendee Questions and Discussion: Andy Bessler, NTAA Project Director



An Overview of COVID in the workplace & Indoor Air Quality Considerations:

Reopening Businesses & Offices Amid the COVID-19 Pandemic

Holly Thompson Duffy, NW Portland Area Indian Health Board





Reopening Decisions

- Guided by cultural values, non-maleficence, & grounded in public health principles
- Risks vs. benefits
- Identifying & meeting "gating criteria"
 - Downward trajectory of cases (or other comparable metrics/benchmarks suggesting reduced risk)
 - Health care capacity
 - Public health capacity
 - Rapid testing/diagnostic capacity



Environmental Public Health Risk Assessment Tool



Mitigation Measures:

Modified Hierarchy of Controls

Physical Distancing

Engineering
Controls

Administrative
Controls

PPE

Formal process for evaluating risks & hazards:

- To identify high risk operations
- Develop & implement mitigation measures
- Monitor & evaluate risk over time

How it works:

- Measure the <u>likelihood</u> of COVID-19 disease transmission
- Measure the <u>consequences</u> of health, social, political and economic impacts

Risk = Likelihood x Consequence





Prioritize Based Off Risk Level

BUSINESS	RISK FACTORS								
DOSINESS	LIKELIHOOD				CONSEQUENCE			RISK RATING Relative Threat	RISK CATEGORY I - III
Туре	Time	Distance	Size of Population	Public Health Factor*	Health Impact	Service Impact	Susceptibility of Population at Risk	0 - 100%	
Restaurant, embedded within a Casino, with exterior and interior entry/egress	2	2	3	1	3	3	3	66.67%	П
Casinos	2	3	3	1	3	3	3	75.00%	Ш
Restaurants (stand alone)	1	2	2	1	2	2	3	38.89%	П
Salon, spas, saunas and other personal care	2	3	1	1	3	2	2	45.37%	п
Gym/Finess centers	1	1	2	1	2	1	1	18.52%	1
Museums	2	1	1	1	2	1	2	23.15%	1
Hotels	3	1	2	1	2	3	3	51.85%	п
Camp grounds	3	1	2	1	2	2	1	32.41%	1
Outdoor venues (concerts, sports, Pow Wow)	2	2	3	1	3	1	3	51.85%	п
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MONITORING & EVALUATION FREQUENCY						
LOW	III: 0-33%	Once a month				
MODERATE	II: 34-66%	Bi-weekly				
HIGH	l: 67 - 100%	Once a week				





Exposure Risk Varies by Job

Define level of risk for each job:

- Very High- jobs with high potential exposure to known or suspected sources of COVID-19 during medical procedures
 - Ex: doctors, nurses, EMTs, laboratory staff, dentists
- High- jobs with high potential exposure to known or suspected COVID-19 sources
 - Ex: others who work at healthcare facilities like pharmacist or support staff





Exposure Risk Varies by Job

Most workers fall into one of these levels:

- Medium- jobs that have frequent and/or close contact with the public, clients or coworkers who may be infected but are not known to be
 - Ex: grocery store clerks, food service workers, counselors, hair salons, teachers
- Low (caution)- jobs that can maintain 6' from others for most of the day
 - Ex: offices where desks are 6' apart

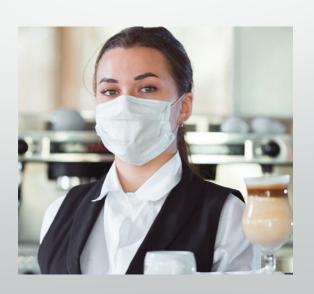




Before Opening: Comprehensive Prevention & Control Plan

- Employee Health & Safety & Leave
- Cleaning & Disinfecting
- Hygiene & PPE
- Physical Distancing
- Training & Communication
- Daily Health Screening
- Travel
- Monitoring & Evaluation









Before Opening: Building Safety

- Conduct comprehensive Environmental Health & Safety Inspection
- IAQ specific considerations:
 - HVAC system efficiency and function
 - HVAC filter (replace and/or upgrade)
 - Ventilation
 - Others: rodents, sewer gases, identifying leaks & mold, flush pipes





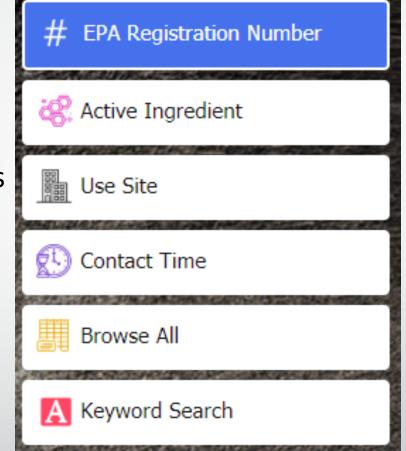
ACH & Time Required for Airborne-Contaminant Removal by efficiency

ACH § ¶	Time (mins.) required for removal 99% efficiency	Time (mins.) required for removal 99.9% efficiency
2	138	207
4	69	104
6+	46	69
8	35	52
10⁺	28	41
12+	23	35
15⁺	18	28
20	14	21
50	6	8



Cleaning & Disinfecting

- FIRST clean THEN disinfect
- Use EPA List to select products for use
- Read & follow all label directions for mixing, applying, storage & disposal
- Safety during application
- IAQ concerns with bleach and other harsh chemicals







Tools to Improve IAQ



- Upgrade Filter (MERV13-16; HEPA)
- Air purifiers (True HEPA)
- UV Air Sanitizer
- Electrostatic Disinfectant Sprayer









Facility Specific IAQ Considerations

- Gaming Operations
 - Smoking
- Health Care Facilities
 - Ventilation
 - Air exchanges (ACH)
 - Cleaning products
 - PPE
- Childcares & Schools
 - Cleaning products











NPAIHB Tools for Reopening

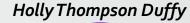
- Risk Analysis Tool & Guidance
- Guidelines & Checklists by facility type:
 - Food service operations
 - Gaming operations
 - Tribal Office & Admin operations
- "Return to Work" PPT presentation (customizable) & handout
- Air Purifier Consumer Guide
- Cleaning & Disinfecting Factsheet



Guidance on Reopening Tribal Communities and Economies



- Returning to Work Amidst the COVID-19 Pandemic (PowerPoint with Audio)
- Returning to Work Amidst the COVID-19 Pandemic (Text Summary)
- Facility Risk Analysis Reopening Tool
- Guidance on Using the Facility Reopening Risk Analysis Tool
- Reopening Gaming Operations Specific Considerations
- COVID-19 Checklist Gaming Fillable
- Reopening Food Service Specific Considerations
- COVID-19 Checklist Food Service Fillable
- Guidelines for Reopening Tribal Offices and Administrative Operations
- OVID-19 Checklist Tribal Offices and Administrative Operations
- Clinical and Epi Risk Assessments for Reopening









Resources for More Information:

NPAIHB:

http://www.npaihb.org/covid-19/

CDC:

https://www.cdc.gov/coronavirus/2019-ncov/index.html

• EPA:

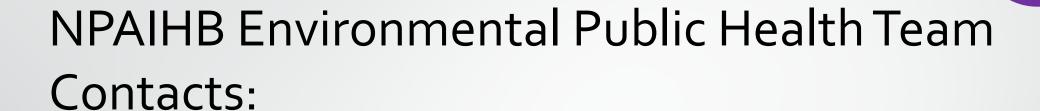
https://www.epa.gov/coronavirus/disinfectant-use-and-coronavirus-covid-19

- ASHRAE: www.ashrae.org
- OSHA- Guidance on Preparing Workplaces for COVID-19.

Https://www.osha.gov/Publications/OSHA3990.pdf







Celeste Davis, REHS, MPH - Director cdavis@npaihb.org, cell: 505.670.8380

Ryan Sealy, MPH – EH Scientist rsealy@npaihb.org

Shawn Blackshear, Sr. EH Specialist (Aug. 1)

Antoinette Aguirre, BS – EH Specialist aaguirre@npaihb.org

Holly Thompson Duffy – EH Consultant <a href="https://

