

Industrial Hygiene in Commercial Buildings

♦ Computers & Printers

Ozone & VOCs
Carbon Black Particulates
Electrostatic Fields
Worker Ergonomics

♦ Cleaning Chemicals & Chemical Storage

VOCs from Cleaners, Disinfectants & Air Fresheners
Latex Allergens (Latex Gloves)
Chemicals, Herbicides, Pesticides & Fungicides

♦ Exterior Structural & Other Issues

Poor Drainage Grading, Wicking & Standing Water
Exterior Cracks & Gaps, Sealant Failures
Improper Vapor Barriers & VOC Vapor Intrusion
Gutter Obstructions & Ice Dams
Trees Roots Causing Cracked Underground Piping (Natural Gas & Sewage)
Exterior Plants Causing Moisture Problems
Exterior Pesticides & Herbicides Infiltration
Pollen Infiltration
Parking Lot Fuel Leaks, Idling Vehicles (VOCs & CO)

♦ Employee Bathroom/Locker Room

VOCs from Air Fresheners & Personal Products
Candle Soot
Radon from Water
Leaky Drain (Mold/Bacteria/Viruses/Endotoxins)
Leaks to Lower Unit & Standing Water
Lack of Proper Ventilation & Sewage Gas
Legionnaires' Risk from Faucets & Showers

♦ Cooling Tower on the Roof

Improper Use of Biocides
Elevated Humidity
Pontiac Fever, Legionnaires' Disease Risk
Fall Protection During Maintenance
Confined Space Concerns

♦ Inhabitants

Smokers
Communicable Diseases (Norovirus/MRSA)
Skin Fragments & Body Odors
Dust Mites & Other Allergens

♦ Boiler Room/Facilities/Furnace Area

Boiler Leaks
Faulty Electric Water Heater - Legionella Risk
Improper Boiler Ventilation & Combustion Causing Gases and Particulates
Lack of, and/or, Improper Air Filtration
Intake Vent Near Factory Trash Receptacle
Birds Near Trash Receptacle Causing Risk of Histoplasmosis, Psittacosis, Cryptococcosis, Odors, Allergens, and Possible Bird Flu Risk
Intake Damper not Properly Sized and Closed
Exhaust Vent too Close to Air Intake
Ozone from UV Modules in HVAC Systems
Degreasing Operations, Exposure to Hazardous Chlorinating Solvents
Precision Machine Milling & Cutting Operations, Exposure to Oils & Solvents Causing Contact Dermatitis
Exposure to Legionella, Mycobacterium, Pseudomonas

♦ Flooring & Carpeting

Asbestos Floor Tiles
VOCs from Carpeting and Cement Paint & Stains
Formaldehyde from Building Materials & Components
Lead in Old Paint
Improperly Sealed Concrete
Non-HEPA Vacuuming
Potential Microbial & Chemical Reservoirs in Carpet
Vapor Intrusion from Spills/Leaks of VOCs Underground

♦ Cutting, Planing & Dustwork

Asbestos & Vermiculite
Leaking Pipes
Dead Ends on Plumbing (Legionella Risk)
Improper Exchange Rates
Improper Negative Pressurization/Unbalanced
Dust & Debris with Leaking Ductwork
Improper Venting of Bathroom Fan into Plenum
Temperature Extremes



♦ Factory Area

Welding Fumes (Hex Chrome, Metals (including Mn), Fluorides)
Paint Fumes (VOC Solvents, Lead, Hex Chrome, Isocyanates)
Repetitive Motions, Ergonomic Issues, Non-Slip Surfaces & Hearing Safety
Eye & Hand Protection, Machine Guarding
Welding Safety, Flame-Retardant Clothing, Fire Extinguishers, Flammable Materials, "Flash"
Gas Detection

♦ Interior Plastic

Insects and Insect Fragments & Allergens
Pollen & Allergens, Standing Water
Herbicides, Insecticides & Fungicides

♦ Loading Ramp

VOCs from Stored Chemicals
Forklift Diesel Particulate Matter & Carbon Monoxide, NOx, SOx
Electric Forklifts, Battery Acid, Hydrogen, Lead Dust
Propane Forklifts, Aldehydes, CO, NOx
Pesticides & Herbicides
Vehicle Exhaust Infiltration
Off Gassing of Stored Fuels

♦ Break Room

VOCs from Cleaning Products
Metals, VOC Contamination from Factory Floor (Poor Hygiene)
Allergens from Cockroaches & Rodents
Leaky Refrigerator, Water Dispenser
Cooking Odors
Improper Ventilation & Combustion of Gas Range
Leaky Water Purifier

♦ Natural Environmental Conditions

Excessive Natural Outdoor Humidity Leading to Discomfort & Microbial Growth
Poisonous Plants, Bees, Wasps, Hornets & Varmints

♦ Active Building Maintenance & Construction

Welding Fumes (Hex Chrome-Metals (including Mn), Fluorides)
Confined Space Conditions
VOCs from Chemicals, Paints & Varnishes
Pesticides & Herbicides
Confined Spaces

♦ Chimneys & Exhausts With

Improper Combustion
Down Drafting of Fumes
Improper Chimney Flashing Resulting in Water Leaks
Poor Masonry, Cracks Allowing Water Intrusion

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For Additional Information

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