



## Key Breakthrough Revealed at Cooling Technology Expo

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The global pandemic has put a keen spotlight on the safety of the air people breathe and the water they consume. The World Health Organization (WHO) has now updated its air quality guidelines for the first time in 15 years as the U.N. agency says the harmful health effects of air pollution kick in at lower levels than previously thought.

Cooling towers, an essential component on large buildings and facilities (including most of the world's data centers), can become 'super spreaders' of Legionnaires Disease, an acute bacterial infection of the lower respiratory tract that is not rare and causes severe pneumonia, due to the misuse of toxic and environmentally hazardous treatment chemicals to kill bacteria.

Expert chemical consultant, Loraine Huchler, P. E., presented today at the annual Cooling Technology Institute Conference and CTI Expo an alternative and novel non-thermal Plasma Disinfection System (PDS) 'continuous kill' solution. The field test results validated that the "use of PDS technology can eliminate cooling towers as a source of Legionellosis infections, no matter how much drift escapes from the cooling towers." This technology has another important outcome: lower construction and operating costs of new buildings because PDS makes water-cooled HVAC systems safe, avoiding the expensive alternative: air-cooled HVAC assets."

Bill Gates has pointed out "as the global population moves to cities, the world's building stock will double in area by 2060. That's like adding another New York City every month for 40 years."

PDS developer, CEO Patrick Hughes of Reverse Ionizer, LLC says "The PDS can be retrofitted into existing buildings and large facilities that require large amounts of water. Facilities like data centers often use large volumes of reclaimed water that requires much greater chemical treatment. Using the PDS lowers the risk exposure of building owners and occupants while protecting the general public and surrounding communities from unsuspectingly breathing in pathogens and contaminants spread by cooling towers."