

# Validation Verification

Updated: December 15, 2005

This certifies that the undersigned have reviewed and concur with the following test reports on PureAir Photohydroionization for indoor air and surface treatment. Test reports from the following organizations were reviewed and summarized:


- California Microbiology Center – (mold and bacteria)
- RGF's Lab validated by independent and in-house licensed professional engineers and IAQ Specialist (ozone levels, mold, bacteria, odor)
- Inter BasicResources Labs for Sunbeam Corporation (mold and bacteria)
- Performance Analytical, Inc. NELAP Accredited Labs (VOC's and odors)
- Kane Regional Hospital, Pittsburgh, PA (bacteria and odor)
- Allegheny County Coroner, Dr. Wecht (odor and bacteria)
- Khalidi Medical Center (bacteria)
- Dr. Marcial -Vega, Health Horizons Medical Director – (bacteria)
- Kansas State University (mold, bacteria and virus)
- ABC Labs - Sunshine Foods for USDA & FSIS (bacteria)
- Steris Labs, Inc. (surface bacteria)
- Chinese Government Labs - Subway (for SARS protection)
- EPA Est. #067400-FL-001
- NORCARGO AS and Air Care AS (bacteria and odor)
- UK University –Advanced Oxidation (Mould and Yeast Growth Study in Bakery)


The following results were documented and reviewed:

- Airborne bacteria reductions: 34.5% - 94%
- Odor reductions: 30% - 100%
- VOC reductions: 71% - 98%
- Sneeze Test – 3 feet: 78% average (6 samples)
- Surface bacteria reduction: 99%
- For SARS protection up to 72.92% average microbial reduction (4 samples taken in Subway)
- Ozone levels: .01 - .02 ppm. (.05 ppm is the Federal safe limit for ozone.) \*
- Norwalk Virus – 99.9%
- Cargo Container – Bacteria Colonies 96% reduction/ odor reduction 100%
- Airborne mold reductions: 71% - 97.8%
- Mould on Bread Surface 88% Reduction and 4 day shelf life extension and up to 4 log Reduction of Yeast on Jam

\* NOTE: .01 - .02 ppm is equal to ozone levels in the country or a forest.


Reviewed and Concurred by:

  
James A. Hart, P.E.  
Chemical Engineer  
Ohio License No.58285

  
Sharon B. Rinehimer  
Attorney, FL and NJ Bar  
Florida Bar No. 354872

STATE OF FLORIDA            )  
  ) ss:  
COUNTY OF PALM BEACH    )

The foregoing instrument was acknowledged before me this 19<sup>th</sup> day of December, 2005 by James A. Hart and Sharon B. Rinehimer, who are personally known to me and who did take an oath.

  
Louise C. Melillo  
Notary Public



LOUISE C. MELILLO  
MY COMMISSION # DD 086422  
EXPIRES: February 13, 2006  
Bonded Thru Budget Notary Services