Clean Air

PRESS RELEASE FOR IMMEDIATE RELEASE

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RGF RELEASES NEW STUDY IN CONJUNCTION WITH KANSAS STATE UNIVERSITY ON PHOTOHYDROIONIZATION (PHI™) FOR THE INACTIVATION OF H1N1 ON SURFACES

West Palm Beach, FL - RGF Environmental Group. Inc. known worldwide for their environmental systems using advanced oxidation, has released a study in conjunction with Kansas State University for the inactivation of H1N1 on stainless steel surfaces. The study, conducted by RGF and Kansas State University, demonstrates how RGF's PHI™ Cell's Advanced Oxidation Plasma provides inactivation of Influenza H1N1 or 99+% under controlled laboratory conditions. The following are excerpts from the Kansas State University report:

An Evaluation of Photohydroionization (PHI™) for the Inactivation of Influenza A H1N1 on Stainless Steel Surfaces.

This is a progress report on the evaluation of RGF's PHI™ technology for inactivating Influenza H1N1 on environmental surfaces. RGF utilizes PHI™ technology in a number of their Indoor Air Quality systems, notably the Guardian Air and REME HVAC cells. Additional research is planned to fully evaluate the effect of the Advances Oxidation Plasma (AOP) produced by the PHI™ system on Influenza H1N1 under controlled laboratory conditions.

Influenza A H1N1 (ATCC # VR-333) was evaluated in this study. The virus cultures were used to inoculate the external surface on stainless steel coupons. The inoculated samples were air dried for 1 hour prior to PHITreatment being initiated. The one hour drying allowed the inoculated cells to attach to the surface host and minimize growth of inoculated cells during drying.

A bio-containment chamber was equipped with a PHI™ cell and allowed to equilibrate for a period of two hours prior to placement of 12 inoculated coupons inside the chamber.

The study demonstrated the effectiveness of the Advanced Oxidation Plasma produced by the PHI™ cell in the inactivation of Influenza A-H1N1. After 6 hours of treatment, levels of the H1N1 virus on inoculated stainless steel coupons were below the detection limit. No recovery was observed at 8, 12, or 24 hours.

This preliminary study indicates that the effect of the Advanced Oxidation Plasma produced by the PHI™ cell were effective at inactivating Influenza A H1N1 virus on inoculated stainless steel coupons under the conditions of these tests. Additional testing is recommended to evaluate other strains of the virus and other environmental surfaces and application parameters.

Tests Performed By Kansas State's Distinguished Regents Professor Doctor James Marsden.

Disclaimer: RGF's PHI and REME products have not yet been approved, cleared or otherwise authorized by FDA and are not intended to diagnose, mitigate, prevent, treat or cure the H1N1 Flu Virus.

H1N1 Virus