

# Case Study



## Rendering Plants South Florida

*HGI Industries has created cutting edge ultra violet hydroxyl generating technology which has been at the forefront of high volume odor processing, air-decontamination and air-purification. HGI's patented technology is the world's only scientifically proven non-contained Hydroxyl Generator. The ODOROX® products line of non-chemical devices provides an environmentally safe solution for removing odors and destroying diseases verified by the independent labs as listed below.*

### Problem

Rendering plant converts restaurant grease, and animal carcasses into animal feed and biodiesel. The plant was in close proximity to encroaching commercial center and was cited for odor emissions (\$25,000 per day). The plant was plagued by vermin which was attracted by odors. The plant was currently spending \$75,000 a month on chemicals (masking agents) which were unable to resolve odor problems.



### Odor Solution

HGI recommended that Odorox systems be placed strategically near the animal feed areas for treatment and disinfection. The boiler incineration and cooking areas had additional duct work added and air handler to control the fugitive vapors. Tight fitting doors were added to close in the building and allow the large MVP series to treat all the rising vapors more efficiently from the elevated mezzanine. The enhanced containment successfully treated the majority of vapors.



# Case Study



## Rendering Plant – South Florida

### Results

By installing the HGI technology at strategic locations throughout the plant, including the mezzanine area where the cooking vapors accumulated and the conveyor areas where the solids were transported (bone meal), salmonella incidences were reduced 90%. In addition, portable BOSS models were placed in the staff lunch and locker rooms creating a healthy environment for workers. Water consumption that was used in cleaning the facility was reduced by 10,000 gallon month and the hydroxyl atmosphere eliminated the need to process everyday saving on fuel consumption.



### Long Term

The rendering facility stated that the equipment was unobtrusive and maintenance free (other than yearly optics replacement). HGI's odor abatement technology has significantly reduced odors by over 90%. Insect and rodent problems have disappeared and the facility has given HGI an open invitation to bring potential customers to their facility to view the proven Odorox technology in action.

