Case Study: Williams Sausage

For over 55 years Williams Sausage operated with the belief their Country Flavor Formula would sell sausage. They blend only the finest whole hog cuts flavored with a family recipe of the finest herbs and spices, without adding sugar. It worked, so starting with a single truck the firm grew from western Tennessee to a national firm which has required many plant expansions. And with the focus on producing quality products plant discharge was the last area getting attention. The lagoon system was simply outmatched for the necessary wastewater treatment from such a major pork processing facility.

PEWE personnel surveyed the situation and designed an effective treatment system. A plan was presented with a detailed equipment layout and specifications for the extensive project which would process wastewater at a rate of 250gpm.

Biological & DAF Design

The new system included a sump pit, transfer pumps, an externally fed PEWE SuperSkreen SSE for gross solids removal, an EQ balance tank with pH control, flow proportional feed by a PEWE PolyAccu DoseTM chemical make-down unit, a stainless steel PEWE HD2XLeratorTM DAF unit complete with modern Rogue MAX RGT regenerative turbine aeration. And the new plant is fully automated with a PEWE Command Control panel.
Pay Off
Williams Sausage is quite satisfied with the new wastewater treatment plant. The local POTW can now count on consistent discharge. With the Union City production facility expanded and sporting a beauty of a wastewater system, Plant Manager Tommy Ray Sr commented “this is going to be the first place we will bring customers” as they are especially proud of their Green achievement.

Final Results
Upon start-up the new wastewater pretreatment system immediately achieved results. The total suspended solids (TSS), fats oils grease (FOG) and biochemical oxygen demand (BOD) were removed below discharge requirements. Sludge solids are pumped to a custom built steam heat-able tank for later oil recovery and disposal.