The BPF has a fully integrated air handling and emission control system. To get the heat necessary to evaporate the moisture from the wet cake, fuel is burned in air. Exhaust gases from the drying process are separated from the dried solids in the cyclone separator. The majority of the exhaust gases are recycled back to the inlet of the dryer system. Before being recycled, the gas must first be treated in a condensing scrubber to remove particulates and water vapor. Any excess gas not recycled is drawn through a venturi scrubber to polish any remaining particulates in the waste stream. It is then sent to a regenerative thermal oxidizer (RTO) that will destroy any odor-causing vapors before being discharged through the facility stack. By combining the wet scrubbing, condensing, exhaust recirculation, and thermal oxidation, the facility is able to have excellent control of odors from the drying process, minimal emissions, and economical operations.