



CASE STUDY

PROJECT NAME

Coal-Burning Power Plant

DESIGN FLOW

40,000 Gallons Per Day

PROCESS USED

Extended Aeration

DEGREE OF TREATMENT

Flow Equalization

Sludge Chamber

Aeration

Clarification

UV Disinfection

WASTE TYPE

Domestic

LOCATION

Northern Indiana

Power Plant Replaces Dated Treatment System with Package Treatment Plant

SUMMARY

The facility contracted Delta to construct a steel extended aeration package plant to replace an existing older, undersized unit to treat domestic sanitary waste generated by plant employees. A lift station was used as a collection basin that pumped the wastewater to the treatment system. A heavy duty grinder was installed at the receiving end of the plant to reduce particle size of incoming solid waste prior to entering the treatment train. The design included a flow equalization chamber to maintain consistent flow rates to the secondary treatment chamber during peak hours via time dosed controlled duplex non-clog submersible pumps. Water levels were continuously monitored using a VEGAPULS liquid level radar system. Delta provided the lift station, steel package plant, ancillary equipment and controls for a turn-key package on this project.



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