

INSTALLATION PROFILE

Spur Gear Drives in Continuous Operation

Since 1969

Installed 1969

August 2016

Walker Process Spur Gear Drive Assemblies with Continuous Service since Installation for over 45 years.

Ottawa, IL WWTP

The original Wastewater Treatment Facility was built in 1956. The facility included primary treatment consisting of primary settling tanks with rectangular chain and flight type collector mechanisms, anaerobic digesters, and sludge drying beds.

In 1967 the facility was upgraded to include secondary treatment using Contact/Stabilization. The upgrade involved installation of two (2) 60 foot diameter pier circular clarifier mechanisms by Walker Process Equipment.

In 1984 the operation of the primary treatment rectangular collector mechanisms was discontinued and shut down, as it was discovered that the Contact/Stabilization was able to effectively handle the treatment of the flow.

The Walker Process collector mechanisms at the Ottawa treatment plant have been in continuous duty service for over 45 years.

Recent pictures one of the collectors and the spur gear drive are in the images below.

The Walker Process spur gear drive units at Ottawa plant are 42" pitch diameter, have cast iron housings, cast iron spur gears. The drive units are manufactured at Walker's factory in Aurora, Illinois, and there are no third-party manufacturers involved except for the drive motors. The spur gear housings include replaceable heat-treated steel inserts and run in oil baths. Proper attention by plant staff to debris and condensation control, which may contaminate the oil baths and increases the oil levels, is necessary but is not asking too much of plant staff.

The plant staff is pleased with the operation of the Walker collectors and the collectors require only routine maintenance. Only infrequently is it necessary to replace miscellaneous items such as roller chain sprockets and chain.

