

SOP: NOVA FILTER CLEANING

Scope: Covers the procedures for draining and cleaning NOVA filters.

Safety: PPE: gloves; eye protection

Procedure:

- Discontinue flow to the filter by manually closing the Influent Valve.
- Open drain valve by placing switch sludge discharge valve in open position
- Turn filter drive and backwash switches to OFF position
- Remove covers on both sides.
- Turn on filter drive and wash down screens. Do not let nozzle come in contact with screens.
- Inspect filter screens for any damage, loose parts.
- Wash down trays on influent side.
- Spray filter with cleaner and rinse filters with hose.
- After cleaning is complete, place unit back in service or leave in standby.

SOP: BELT PRESS –SLUDGE DEWATERING

Scope: Solids handling is necessary to further process settled solids from the liquid treatment processes.

Purpose: Sludge dewatering is the process of removing moisture from solids to reduce its volume and produce a cake-like material suitable for disposal to the landfill.

Safety: PPE: Gloves; eye protection

Dewatering System Startup

Starting up the dewatering system requires all the required subsystems in a ready to start Automatic mode. The dewatering subsystems are controlled by the BFP local control panel selected to dewater the sludge.

The following procedure is for operating Dewatering System in Manual (Hand) Mode.

In this mode, system components are started with their respective start pushbuttons, which are accessed by touching the manual control touch zone that displays the Manual control screen.

Note: Emergency Stop pushbuttons will always stop all equipment.

Dewatering System Pre-start-up

The dewatering system is comprised over several subsystems. Each subsystem must be checked and ready to operate before the startup of the dewatering system is initiated. The equipment to be checked before startup is:

1. Sludge Holding Tank level – Determine the amount of solids to be dewatered and time required at a specific flow rate
2. Sludge Transfer Pump - Valves must be in the correct position and pumps ready to operate in Automatic
3. Wash water Pumps – Valves must be in the correct position, reuse water available and pumps ready to operate in Automatic
4. Polymer System – Polymer must be available, the valves must be in the correct position, reuse water must be available for dilution water and the system must be ready to operate in Automatic.
5. BFP – The valves must be open; the press must be ready to operate.