

## Final Check and System Startup

1. Secure the access openings. Install a sealed access cover on the pretreatment, anoxic and clarification chamber risers. Install a vented cover on the aeration chamber riser. Secure all access covers with the fasteners provided. **DANGER: All access covers must be secured with fasteners provided. Never allow access risers to be left uncovered or partially covered. Failure to secure access covers and safety nets could result in bodily injury, illness or death. Riser safety nets are available from Norweco for concrete or plastic risers.**
2. Place the dedicated circuit breaker for the Hydro-Kinetic Green system in the main service panel in the "on" position.
3. To commission the telemetry system, first insure the phone/network cable is properly installed. Place the control center power switch in the "off" position. While holding in the reset button, place the power switch in the "on" position. Continue to hold the reset button for 5 seconds. Release the reset button and allow the telemetry system up to 60 seconds to call out and complete the commissioning process. The phone/network light will illuminate during the call out process. If commissioning is successful, the alarm light will flash 5 short flashes and stop as verification. If commissioning is unsuccessful, refer to the Service Pro Model 801P Installation and Operation Instructions.
4. If no telemetry system is installed, press and hold the RESET button on the control center for 5 seconds. The audible alarm should sound and the alarm light should illuminate.
5. The system is operational once all installation and startup steps have been completed to this point. It will take 2 to 6 weeks for the system to reach biological maturity, depending upon system loading.

## Deeper Burial Requirements

Special consideration should be taken if the Hydro-Kinetic Green tank is buried deeper than 18 ½" below grade. However, the tank should never be buried deeper than 36 ½" below grade. If deep burial is required, first fill the tank with 12" of clean ballast water. Next, backfill around the entire tank with gravel up to the base of the risers. Once gravel is in place, fill the tank with clean water to the design flow line. Finally, backfill to grade with native soil.

## Special Anti-Flotation System

In areas where high water is a concern, it may be necessary to provide additional anti-flotation measures to secure the Hydro-Kinetic Green tank. Anti-flotation is not required when the tank is installed with at least 18" of fill over the tank and the soil density of the backfill is at least 100 pounds per cubic foot. Failure to follow these anti-flotation recommendations may result in damage to the tank or shifting in the excavation and may void all or part of the limited warranty.

If anti-flotation is required, consult a soil scientist to measure soil density. Once soil density is defined, refer to the SHALLOW BURIAL AND REDUCED SOIL DENSITY HOLD DOWN REQUIREMENTS chart below. After the amount of additional hold down weight is determined, it is recommended that a pair of concrete beams of appropriate size be placed at the base of the excavation. Alternately, 0.60 CCA treated lumber beams may be used. Treated lumber beams and anti-flotation strap assemblies are available from Norweco. Beams must not be placed directly under the perimeter of the Hydro-Kinetic Green tank. The weight of the soil over the beams significantly contributes to the tank hold down forces. Placing beams under the tank will limit the amount of soil anchoring the beams into the excavation and should never be done.

Secure the anti-flotation beams to the Hydro-Kinetic Green tank with properly rated hold down straps that attach to the lifting lugs located at the top of each of the five chambers. The weight of the beams plus the weight of the soil over the beams must be greater than the required hold down weight shown in the table below.

HYDRO-KINETIC® GREEN SHALLOW BURIAL AND REDUCED SOIL DENSITY HOLD DOWN REQUIREMENTS						
Soil Density (lbs. per cu.ft.)	80	90	100	110	120	130
Fill Over Tank (inches)	Additional Weight Required (lbs.)	Additional Weight Required (lbs.)	Additional Weight Required (lbs.)	Additional Weight Required (lbs.)	Additional Weight Required (lbs.)	Additional Weight Required (lbs.)
6	11,652	10,316	8,980	7,643	6,307	4,971
8	10,442	8,954	7,467	5,979	4,492	3,004
10	9,231	7,593	5,954	4,315	2,676	1,037
12	8,021	6,231	4,441	2,651	861	*
14	6,811	4,869	2,928	986	*	*
16	5,600	3,508	1,415	*	*	*
18	4,390	2,146	STANDARD INSTALLATION	*	*	*
20	3,179	784	*	*	*	*
22	1,969	*	*	*	*	*
24	759	*	*	*	*	*
26	*	*	*	*	*	*

\* HOLD DOWN WEIGHT NOT REQUIRED