

15A NCAC 18E .0702 RAW SEWAGE LIFT STATIONS

(a) Raw sewage lift stations for wastewater systems with a DDF greater than 3,000 gpd shall meet all setbacks for wastewater systems in accordance with Table IX of Rule .0601(a) of this Subchapter.

(b) Raw sewage lift stations for wastewater systems with a DDF greater than 3,000 gpd shall meet the following design and construction standards:

- (1) dual pumps shall be provided for stations serving two or more buildings or for a facility with more than six water closets;
- (2) pumps shall be listed by a third-party electrical testing and listing agency, such as Underwriter's Laboratories;
- (3) pumps shall be grinder pumps or solids-handling pumps capable of handling a minimum of three-inch spheres. If the raw sewage lift station serves no more than a single water closet, lavatory, and shower, two-inch solids handling pumps shall be acceptable;
- (4) minimum pump capacity shall be two and one half times the average daily flow;
- (5) raw sewage lift stations serving single buildings shall be designed for pump run times between three to 10 minutes at average daily flow;
- (6) pump station emergency storage capacity and total liquid capacity shall be determined in accordance with Rule .0802 of this Subchapter except for a sealed, watertight chamber serving an individual building, in which case a minimum storage capacity of eight hours shall be required; and
- (7) all applicable requirements for pump tanks and dosing systems as set forth in Rule .0802 and Section .1100 of this Subchapter shall apply to raw sewage lift stations.

(c) A raw sewage lift station that is a sealed, watertight chamber shall meet the setback requirements for collection sewers in Rule .0601(k) of this Subchapter. Sealed, watertight chambers shall be a single prefabricated unit with a sealed top lid, and preformed inlet and outlet pipe openings connected with solvent welds, O-ring seals, rubber boots, stainless steel straps, or equivalent.

*History Note: Authority G.S. 130A-335(e), (f), and (f1); S.L. 2024-49, s.4.24;
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