



TOPIC: Simplex Pump Systems - OPSC/7/#6

CODE: Oregon Plumbing Specialty Code (OPSC): 2021 Edition

REVISED: March 30, 2023 [Rebecca Esau], Director

REFERENCE: Oregon Plumbing Specialty Code – Chapter 7, 710.3 (3) & 710.9

SUBJECT: Simplex Pumps in Commercial Buildings

QUESTION: Can a single pump system (simplex pump) be used in the sewage ejector system in a commercial building when plumbing fixtures cannot be drained by gravity?

RESPONSE: The Bureau of Development Services (BDS) has determined that, when plumbing fixtures cannot be drained by gravity in commercial buildings, the use of simplex pumps will be allowed subject to the following:

- A.** A simplex pump may be used to serve the following:
1. A maximum three bathroom plumbing fixtures (water closet, lavatory, urinal or shower/tub);
 2. A maximum of one laundry tub, two floor drains, two trench drains, and two floor sinks;
 3. One clothes washer; or
 4. A maximum of two sinks in a commercial kitchen.
- B.** Simplex pumps are allowed under the following conditions:
1. More than one simplex pump is allowed in a building;
 2. Each simplex pump must have an individual sub-drain with a sewage ejector pump to a gravity drain; and
 3. The sizing of the simplex pump and sewage ejector required is per OPSC 710.3.

Other alternatives may be reviewed and considered on a case-by-case basis through the BDS administrative appeals process.