Plumbing system components for recreational vehicles

2.3 **body waste:** Solid waste materials, inclusive of urine and feces, deposited in plumbing fixtures.

2.10 **liquid waste:** The discharge from any fixture, appliance, area, or appurtenance that does not include discharges from water closets and urinals.

10 Waste holding tanks

10.1 Design and construction

10.1.1 Tanks shall have interior surfaces free of recessed areas and shall have internal corners with a continuous radius of at least 1 in (25.4 mm). Tanks shall have a minimum uniform slope of 2 1/2 in (17.2 mm) per ft (0.3 m) for body waste tanks and ¼ in (6.4 mm) per ft (0.3 m) for liquid waste tanks to a 3 in (76.2 mm) minimum diameter drain outlet. Drain outlets for body waste tanks shall be 3 in (76.2 mm) nominal pipe size (NPS), and for liquid waste tanks shall be 1 1/2 in (38.1 mm) NPS. Tanks shall be at least 3 in (76.2 mm) deep.

10.1.2 Tanks shall be reinforced to withstand the normal stresses of the use environment such as road shock or vibration.

10.1.3 Body waste tank inlet connections shall be vertical and shall have a nominal 3.0-in (76.2 mm) NPS diameter minimum pipe size or as recommended by the manufacturer of the toilet. The inlet may be integrated with a standard closet flange. Liquid waste tank inlet connections shall be vertical and shall have 1 1/2 in (38.1 mm) NPS.

Reasons:

10.1.1 The proposal specifies drainage requirements for slope and outlet sizes that are consistent with current tank construction, and coordinates with specifications required for listing to IAPMO TS-2 Standard For Wasteholding Tanks.

10.1.3 The proposed change to the first sentence allows for installation of pressure and vacuum operated toilets which are listed for installation using 1 1/2" nominal pipe in addition to the standard 3 in inlet for a conventional RV toilet. The proposed change to the last sentence is for consistency in the dimensional description.