

1 SB53
2 196873-1
3 By Senator Ward
4 RFD: Fiscal Responsibility and Economic Development
5 First Read: 05-MAR-19

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8 SYNOPSIS: This bill would set safety and cleanliness
9 requirements for the design, construction,
10 permitting, and operation of certain water
11 distribution facilities.

12
13 A BILL
14 TO BE ENTITLED
15 AN ACT

16
17 Relating to the distribution of drinking water; to
18 add Section 22-23-55 to the Code of Alabama 1975, to set
19 safety and cleanliness requirements for the design,
20 construction, permitting, and operation of certain water
21 distribution facilities.

22 BE IT ENACTED BY THE LEGISLATURE OF ALABAMA:

23 Section 1. Section 22-23-55 is added to Article 2 of
24 Chapter 23 of the Code of Alabama 1975, to read as follows:

25 §22-23-55.

26 (a) This section applies to the following:

1 (1) All community water systems that distribute
2 drinking water for consumption by the public.

3 (2) All non-community public water systems that
4 distribute drinking water for consumption by the public and
5 that regularly serve at least 25 of the same individuals for
6 at least six months per year.

7 (b) The following requirements pertain to water main
8 facilities:

9 (1) Water mains shall be constructed of materials
10 which will neither contaminate nor allow deterioration of the
11 water quality.

12 (2) Gaskets, O-rings, and other products used for
13 joining pipe and for setting meters, valves, or other
14 appurtenances shall not be made nor coated with materials
15 which will support microbiological growth and shall be
16 certified as meeting the specifications of the National
17 Sanitation Foundation (NSF)/American National Standard
18 Institute (ANSI) Standard 61.

19 (3) Water mains permitted by the board shall be
20 properly pressure tested and disinfected after installation
21 and shall undergo bacteriological testing showing the absence
22 of coliform. Documentation of the pressure test, disinfection,
23 and bacteriological testing results shall be provided to the
24 board along with a request for a final inspection prior to the
25 setting of meters to serve customers on the lines.

26 (c) The following requirements pertain to water
27 mains installed after January 1, 2013:

1 (1) A minimum horizontal separation of five feet
2 shall be maintained between water mains and sanitary sewer
3 mains.

4 (2) When water and sewer main crossings are
5 necessary, place a continuous casing around one of the mains
6 to allow a minimum separation of five feet between each end of
7 the cased and uncased main.

8 (3) Where possible, install the water main so that
9 the top elevation of the sewer main is a minimum of 18 inches
10 below the bottom elevation of the water main.

11 (4) Unless adequately cased to protect against cross
12 contamination, water mains shall not be installed in a manner
13 that allows for contact with any part of a sewer manhole,
14 septic tank field line, or soil saturated with organic
15 solvents or gasoline.

16 (d) Pumping stations shall be located or constructed
17 so that the pumps and piping are protected from flooding and
18 shall be designed and operated to allow satisfactory pressure
19 and service to customers on the suction and discharge side of
20 the station.

21 (e) The following requirements pertain to finished
22 water storage facilities:

23 (1) Uncovered finished water storage reservoirs that
24 are used to store water that will undergo no further treatment
25 except residual disinfection, and that are open to the
26 atmosphere, are prohibited.

1 (2) All finished water storage structures shall have
2 suitable watertight roofs, hatches, and covers to exclude
3 outside contamination.

4 (3) Access manholes shall be equipped with a locking
5 mechanism.

6 (4) Clearwells and pumping sumps associated with
7 surface treatment plants may not be constructed adjacent to
8 unfinished water units when the compartments are separated by
9 a single wall.

10 (5) All metal water storage facilities shall be
11 protected by paints or other protective coatings. Inside paint
12 systems shall not use lead primer but shall otherwise conform
13 to either of the following:

14 a. The most recent revision of the D102 Coating
15 Steel Water-Storage Tanks standard of the American Water Works
16 Association.

17 b. Any other standard accepted by the board.

18 (6) Protective coatings shall be used and applied in
19 such a manner as to prevent contamination of the water in
20 contact with these coatings.

21 (f) Storage tanks permitted after December 31, 2006,
22 shall:

23 (1) Provide for a minimum fluctuation of 50 percent
24 in water height during all normal operating conditions.

25 Requests for a deviation shall be submitted in writing, and
26 approved deviations shall be issued in writing by the board.

27 The request must include reasons the deviation should be

1 granted and the deviation cannot be made until written
2 approval is received by the board.

3 (2) Minimize water age and provide adequate mixing
4 of water. Inlet pipe diameters or wet risers greater than 36
5 inches shall not be allowed unless approved by the board. Any
6 request for an allowance for larger diameter shall be
7 submitted in writing and shall include reasons for the larger
8 diameter and include design calculations showing that the tank
9 will mix properly and water age will be minimized.

10 (3) Be designed to allow the water storage tank to
11 be removed from service for cleaning and repair as required by
12 rules adopted by the board.

13 (4) Be properly disinfected and undergo
14 bacteriological testing showing the absence of coliform prior
15 to use. Documentation of the disinfection and bacteriological
16 testing results shall be provided to the board along with a
17 request to place the tank into service.

18 Section 2. This act shall become effective on the
19 first day of the third month following its passage and
20 approval by the Governor, or its otherwise becoming law.