

1 Q. **Re Replace Fuel Storage Facility - Postville (B-45)**

2 Please provide a copy of the relevant Gasoline and Associated Products Regulations
3 (GAP).

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6 A. The Storage and Handling of Gasoline and Associated Products Regulations (GAP)
7 are a publicly available document located on the House of Assembly web page
8 under the Environmental Protection Act. Please see below the specific sections of
9 the regulations that are referred to in the report.

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11 **Construction and installation standards**

12 27. (1) Steel underground storage tanks shall be constructed, shop tested, installed and
13 maintained in accordance with the U.L.C.

14 (a) CAN4-S603.1 latest edition including the associated appendices and shall bear a U.L.C.
15 label; or

16 (b) CAN4-S603 latest edition with impressed current cathodic protection and shall bear a U.L.C.
17 label.

18 (2) Fibreglass underground storage tanks shall be constructed, shop tested and installed in
19 accordance with U.L.C. CAN4-S615, latest edition and shall bear a U.L.C. label.

20 (3) An impressed current cathodic protection system shall consist of a number of anodes
21 connected to an external direct current power source, installed in such a manner that the
22 static potential between the storage tank system and a saturated copper/copper sulfate half
23 cell in contact with the soil shall read negative 850 millivolts or more negative.

24 (4) The system referred to in subsection (3) shall be designed and installed employing sound
25 engineering methods and taking into consideration factors such as the configuration of
26 multiple tank systems, soil resistivity and existing structures in the immediate area.

27 (5) Shop fabricated aboveground horizontal storage tanks shall be constructed and shop tested in
28 accordance with the U.L.C. CAN4-S601, latest edition, and shall bear a U.L.C. label.

29 (6) Shop fabricated aboveground vertical storage tanks shall be constructed and shop tested in
30 accordance with the U.L.C. CAN4-S630, latest edition, and shall bear a U.L.C. label.

1 (7) Field erected aboveground tanks shall be constructed in accordance with American
2 Petroleum Institute Standard 650, latest edition.

3 (8) Aboveground storage tanks shall be surrounded by a dyke which shall be designed and
4 constructed as follows:

5 (a) where a dyked area contains only one storage tank, the dyked area shall retain not less than
6 110% of the capacity of the tank;

7 (b) where a dyked area contains more than one storage tank, the dyked area shall retain not less
8 than 110% of the capacity of the largest tank or 100% of the capacity of the largest tank plus
9 10% of the aggregate capacity of all the other tanks, whichever is greater;

10 (c) the base and walls of the dyke shall have an impermeable lining of clay, concrete, solid
11 masonry or other material designed, constructed and maintained to be liquid tight to a
12 permeability of 25 litres/metre²/day; and

13 (d) a method for the elimination of water accumulations inside the dyke shall be incorporated in
14 the dyke design and construction.

15 (9) The area immediately surrounding loading or unloading facilities at bulk plants shall be
16 designed to drain to an oil separator or a storage tank and shall be on concrete flooring and
17 the collecting device shall be of a size sufficient to contain a spill during loading or
18 unloading.

19 (10) When the bulk storage tanks are not in operation or under competent supervision, the gates
20 and other access ways shall be closed and locked and the loading valves, filling and gauging
21 pipes shall be locked except those operated by electrical, remote controls.

22 (11) At the plant's main gate the operator shall install in full view a plate bearing his or her name,
23 address and telephone number and the name, address and telephone number of his or her
24 authorized representative.

25 (12) All piping systems associated with a storage tank system shall be designed, constructed and
26 installed to comply with the minimum requirements of the pertinent subsection of Part 4 of
27 the latest edition of the National Fire Code.