## The Commonwealth of Massachusetts

In the Year Two Thousand Ten

An Act to promote the safe operation of utility vaults.

*Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same, as follows:* 

1	SECTION 1.	Chapter	166 of the	e General	Laws is	s hereby	amended b	y inserting	after

- 2 section 34B the following sections:-
- 3 Section 34A. Definitions
- 4 "Company" shall mean a distribution company or electric company as defined in section
  5 1 of chapter 164.

6 "Inspector" shall mean one or more employees of a municipality, including the inspector

7 of buildings, building commissioner or local inspector of a city, town or district or a municipal

8 inspector of wires appointed under section 32. An inspector shall not be employed by or

- 9 otherwise associated with an owner or a company.
- 10 "Owner" shall mean the owner of property on which a transformer vault is located;
- 11 except that "owner" shall not include any "company" as defined in this section.
- 12 "Transformer vault" or "vault" shall mean a totally enclosed structure or room in which
- 13 energized network transformers, network protectors and related equipment are housed.

14 Section 34B. Application

15 Sections 34A through 34E, inclusive, shall apply to all transformer vaults owned, leased 16 or otherwise controlled by an owner and which contain equipment owned, maintained, repaired 17 or operated by a company, but shall not apply to company-owned transformer vaults. 18 Section 34C. Inspection 19 Every owner shall ensure that a qualified inspector performs a yearly inspection of all 20 transformer vaults. The inspector shall inspect the vault location, size, ventilation, doorways, 21 walls, floors, ceilings, lighting, drainage and protective equipment to ensure that the transformer 22 vault meets the minimum standards set forth in sections 34D. Nothing in this section shall be 23 interpreted to require any public or private inspector to perform an inspection except upon 24 payment of such fees as are customary and usual. 25 Should the inspector find that the transformer vault does not conform to the provisions of 26 these sections, the inspector shall inform the owner of items which do not so conform and which 27 require maintenance or repair. The owner shall be responsible for such maintenance or repair.

28 After completion of any required maintenance and repairs, the inspector shall perform a re-

29 inspection to ensure that the required maintenance and repairs have been completed. All

30 inspection and re-inspection fees shall be paid by the owner of the transformer vault to the

31 municipality.

32 Section 34D. Standards

33 Transformer vaults shall meet the following requirements:

34 (a) The vault space shall be large enough to accommodate the transformer(s) and other
35 equipment located within the vault.

36 (b) The walls, wall partitions and roofs of vaults shall be constructed of materials that
37 have adequate structural strength for the conditions with a minimum fire resistance of 3 hours.

(c) Each doorway leading into a vault from the building interior or out of a vault to the
building interior shall be provided with a tight-fitting door that has a minimum fire rating of 3
hours. The inspector may also require a fire-rated door for an exterior wall opening where
conditions warrant. Each door shall be properly hinged and self-closing.

42 (d) Doors shall be equipped with locks, and doors shall be kept locked, access being
43 allowed only to qualified persons. Personnel doors shall swing out and be equipped with panic
44 bars, pressure plates, or other devices that are normally latched but that open under simple
45 pressure.

Sidewalk hatches located within or above transformer vaults shall be made accessible by
ladders composed of fire and heat resistant materials. The location of doorways shall be marked
with reflective tape located on the floors and doors. All doorways shall be marked with a sign
reading "DANGER – HIGH VOLTAGE WITHIN – KEEP OUT – ACCESS RESTRICTED TO
QUALIFIED PERSONS ONLY."

(e) Transformer vaults shall be constructed so as to maintain adequate ventilation of the vault in the event of smoke or other unsafe condition. Ventilation openings shall be covered with durable gratings, screens, or louvers, according to the treatment required in order to avoid unsafe conditions yet still provide for adequate ventilation of the vault. All ventilation openings

55	to the indoors shall be provided with automatic closing fire dampers that operate in response to a
56	vault fire. Ventilating ducts shall be constructed of fire resistant material.
57	(f) Vaults shall contain 24-hour lighting with an alternate power source.
58	(g) Vaults shall be equipped with smoke detectors, carbon dioxide detectors, grounding
59	systems, convenience, and heat detection systems.
60	(h) Materials shall not be stored in transformer vaults.
61	Section 34E. Violations
62	If upon re-inspection the inspector determines that the owner has willfully or negligently
63	failed within a reasonable time to perform any maintenance or repair required as a result of an
64	inspection, such owner shall be punished by a fine of not more than \$1,000 in each instance.