

1 S.39

2 Introduced by Senators White and Shumlin

3 Referred to Committee on

4 Date:

5 Subject: Health; radiation control; dose levels of direct gamma radiation

6 Statement of purpose: This bill proposes to set maximum standards for  
7 allowed dose and exposure levels of direct gamma radiation from nuclear  
8 power stations.

9 An act relating to acceptable dose levels of direct gamma radiation from  
10 nuclear power stations

11 It is hereby enacted by the General Assembly of the State of Vermont:

12 Sec. 1. 18 V.S.A. § 1651a is added to read:

13 § 1651a. DIRECT GAMMA RADIATION STANDARDS FOR NUCLEAR  
14 POWER STATIONS

15 (a) State standards for the exposure of individuals to radiation from nuclear  
16 power stations shall be kept as low as is reasonably achievable.

17 (b) In no case shall standards for exposure to direct gamma radiation from  
18 nuclear power stations exceed:

19 (1) An annual dose objective of 5 millirems for the total body of an  
20 individual in an unrestricted area due to emanations of gamma radiation from a

1 nuclear power station. For the purpose of determining compliance with an  
2 annual dose objective, a measurement of exposure of 20 millirems per year of  
3 gamma radiation at any point on the site boundary of a nuclear power station  
4 shall be considered equivalent to a dose of 5 millirems at the Vermont  
5 residence nearest to the nuclear power station.

6 (2) A quarterly average dose of 12 millirems of gamma radiation above  
7 background radiation at any site boundary of a nuclear power station.

8 (c) A nuclear power station located in the state shall comply with the state  
9 standards established by the department of health under this section.

10 (d) For every month that radiation levels at a facility's fence line exceed the  
11 standards established by the department of health under this section, the  
12 facility owner will be subject to a fine that will be set at a level that equals 50  
13 percent of the corporate profit at the facility for that month.

14 (e) Actions to enforce the provisions of this section shall be brought by the  
15 attorney general before the environmental court.