

SECOND REGULAR SESSION

# SENATE BILL NO. 1066

99TH GENERAL ASSEMBLY

INTRODUCED BY SENATOR EIGEL.

Read 1st time February 28, 2018, and ordered printed.

ADRIANE D. CROUSE, Secretary.

6191S.02I

## AN ACT

To amend chapter 386, RSMo, by adding thereto one new section relating to hardening of the electric grid against certain storms.

*Be it enacted by the General Assembly of the State of Missouri, as follows:*

Section A. Chapter 386, RSMo, is amended by adding thereto one new section, to be known as section 386.385, to read as follows:

**386.385. 1. For purposes of this section, the following terms shall mean:**

(1) "Electromagnetic pulse", one or more pulses of electromagnetic energy capable of disabling, disrupting, or destroying a transmission and distribution electrical system;

(2) "Geomagnetic storm", a temporary disturbance of the Earth's magnetic field resulting from solar activity.

**2. The commission shall procure, through a competitive bidding process, an entity to perform a study plan to assess the current and future infrastructure's responsiveness to the potential negative impacts of a geomagnetic disturbance or electromagnetic pulse capable of disabling, disrupting, or destroying an electric transmission and distribution system, and to identify mitigation measures. In order to qualify to perform the study plan, such entity shall:**

(1) Have been a member of the IEEE Electromagnetic Compatibility Society for at least ten years;

(2) Have participated in the International Electrotechnical Commission for at least ten years;

(3) Have specific experience in assessing and hardening power systems; and

(4) Have a minimum of five projects working directly with

22 electric power suppliers in assessing and hardening power systems.

23 3. Upon the commission procuring an entity to perform such  
24 study plan, the awarded entity shall:

25 (1) Consult with electrical corporations in this state to assess  
26 how their current and future infrastructure may be impacted by  
27 electromagnetic pulses and geomagnetic storms;

28 (2) Examine the vulnerabilities of the state's transmission  
29 infrastructure to the potential negative impacts of a geomagnetic  
30 disturbance or electromagnetic pulse capable of disabling, disrupting,  
31 or destroying a transmission and distribution system, and identify  
32 mitigating measures;

33 (3) Identify the most vulnerable components of the state's  
34 transmission system;

35 (4) Identify mitigation measures to decrease the negative  
36 impacts of an electromagnetic pulse and geomagnetic storm; and

37 (5) Identify, to the extent possible, the ability of electrical  
38 utilities to retrofit existing infrastructure to mitigate the impacts of an  
39 electromagnetic pulse and geomagnetic storm, and estimate costs for  
40 such retrofitting.

41 4. The awarded entity shall conduct such study plan by June 1,  
42 2019, and shall deliver a copy of such study plan to the  
43 commission. The commission shall promulgate rules, based upon the  
44 study plan, that identify effective design measures that can be taken by  
45 electrical corporations to protect the electric transmission and  
46 distribution system against the potential negative impacts of  
47 geomagnetic disturbances or electromagnetic pulses. Such rules shall  
48 not be limited to requiring changes in electrical corporation  
49 operational procedures as the sole method of protecting the electric  
50 grid.

51 5. Beginning January 1, 2021, electrical corporations shall begin  
52 implementing the rules promulgated by the commission based upon the  
53 study plan, with such implementation being completed by January 1,  
54 2025. Any rule or portion of a rule, as that term is defined in section  
55 536.010 that is created under the authority delegated in this section  
56 shall become effective only if it complies with and is subject to all of  
57 the provisions of chapter 536, and, if applicable, section 536.028. This  
58 section and chapter 536 are nonseverable and if any of the powers

59 vested with the general assembly pursuant to chapter 536, to review, to  
60 delay the effective date, or to disapprove and annul a rule are  
61 subsequently held unconstitutional, then the grant of rulemaking  
62 authority and any rule proposed or adopted after August 28, 2018, shall  
63 be invalid and void.

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Bill

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