AM	ENDMENT NO Calendar No	
Purpose: In the nature of a substitute.		
IN THE SENATE OF THE UNITED STATES—114th Cong., 1st Sess.		
S. 1846		
То	amend the Homeland Security Act of 2002 to secure critical infrastructure against electromagnetic threats, and for other purposes.	
Referred to the Committee on and ordered to be printed		
Ordered to lie on the table and to be printed		
Amendment In the Nature of a Substitute intended to be proposed by Mr. Johnson		
Viz		
1	Strike all after the enacting clause and insert the fol-	
2	lowing:	
3	SECTION 1. SHORT TITLE.	
4	This Act may be cited as the "Critical Infrastructure	
5	Protection Act of 2015" or the "CIPA".	
6	SEC. 2. EMP AND GMD PLANNING, RESEARCH AND DEVEL-	
7	OPMENT, AND PROTECTION AND PREPARED-	
8	NESS.	
9	(a) In General.—The Homeland Security Act of	
10	2002 (6 U.S.C. 101 et seq.) is amended—	
11	(1) in section 2 (6 U.S.C. 101)—	

1	(A) by redesignating paragraphs (9)
2	through (18) as paragraphs (11) through (20),
3	respectively;
4	(B) by redesignating paragraphs (7) and
5	(8) as paragraphs (8) and (9), respectively;
6	(C) by inserting after paragraph (6) the
7	following:
8	"(7) EMP.—The term 'EMP' means an electro-
9	magnetic pulse caused by a nuclear device or non-
10	nuclear device, including such a pulse caused by an
11	act of terrorism."; and
12	(D) by inserting after paragraph (9), as so
13	redesignated, the following:
14	"(10) GMD.—The term 'GMD' means a geo-
15	magnetic disturbance caused by solar storms or
16	other naturally occurring phenomena.";
17	(2) in section 201(d) (6 U.S.C. 121(d)), by
18	adding at the end the following:
19	"(26)(A) Conduct an intelligence-based review
20	and comparison of the risk and consequence of
21	threats and hazards, including GMD and EMP, fac-
22	ing critical infrastructures, and prepare and submit
23	to the Committee on Homeland Security and Gov-
24	ernmental Affairs of the Senate and the Committee

1	on Homeland Security of the House of Representa-
2	tives—
3	"(i) a recommended strategy to protect
4	and prepare the critical infrastructure of the
5	American homeland against threats of EMP
6	and GMD, including from acts of terrorism
7	and
8	"(ii) not less frequently than every 2 years,
9	updates of the recommended strategy.
10	"(B) The recommended strategy under sub-
11	paragraph (A) shall—
12	"(i) be based on findings of the research
13	and development conducted under section 318;
14	"(ii) be developed in consultation with the
15	relevant Federal sector-specific agencies (as de-
16	fined under Presidential Policy Directive—21)
17	for critical infrastructures;
18	"(iii) be developed in consultation with the
19	relevant sector coordinating councils for critical
20	infrastructures;
21	"(iv) be informed, to the extent prac-
22	ticable, by the findings of the intelligence-based
23	review and comparison of the risk and con-
24	sequence of threats and hazards, including

1	GMD and EMP, facing critical infrastructures
2	conducted under subparagraph (A); and
3	"(v) be submitted in unclassified form, but
4	may include a classified annex.
5	"(C) The Secretary may, if appropriate, incor-
6	porate the recommended strategy into a broader rec-
7	ommendation developed by the Department to help
8	protect and prepare critical infrastructure from ter-
9	rorism, cyber attacks, and other threats and hazards
10	if, as incorporated, the recommended strategy com-
11	plies with subparagraph (B).";
12	(3) in title III (6 U.S.C. 181 et seq.), by adding
13	at the end of the following:
13	••• •••• •••• •••• •••• •••• •••• •••• •••
14	"SEC. 318. GMD AND EMP MITIGATION RESEARCH AND DE-
14	"SEC. 318. GMD AND EMP MITIGATION RESEARCH AND DE-
14 15	"SEC. 318. GMD AND EMP MITIGATION RESEARCH AND DE- VELOPMENT.
<ul><li>14</li><li>15</li><li>16</li></ul>	"SEC. 318. GMD AND EMP MITIGATION RESEARCH AND DEVELOPMENT.  "(a) IN GENERAL.—In furtherance of domestic pre-
<ul><li>14</li><li>15</li><li>16</li><li>17</li></ul>	"SEC. 318. GMD AND EMP MITIGATION RESEARCH AND DEVELOPMENT.  "(a) IN GENERAL.—In furtherance of domestic preparedness and response, the Secretary, acting through the
14 15 16 17 18	"SEC. 318. GMD AND EMP MITIGATION RESEARCH AND DEVELOPMENT.  "(a) IN GENERAL.—In furtherance of domestic preparedness and response, the Secretary, acting through the Under Secretary for Science and Technology, and in con-
<ul><li>14</li><li>15</li><li>16</li><li>17</li><li>18</li><li>19</li></ul>	"SEC. 318. GMD AND EMP MITIGATION RESEARCH AND DEVELOPMENT.  "(a) IN GENERAL.—In furtherance of domestic preparedness and response, the Secretary, acting through the Under Secretary for Science and Technology, and in consultation with other relevant executive agencies and relevant relevant executive agencies and relevant executive agencies."
14 15 16 17 18 19 20	"SEC. 318. GMD AND EMP MITIGATION RESEARCH AND DEVELOPMENT.  "(a) IN GENERAL.—In furtherance of domestic preparedness and response, the Secretary, acting through the Under Secretary for Science and Technology, and in consultation with other relevant executive agencies and relevant owners and operators of critical infrastructure,
14 15 16 17 18 19 20 21	"SEC. 318. GMD AND EMP MITIGATION RESEARCH AND DEVELOPMENT.  "(a) IN GENERAL.—In furtherance of domestic preparedness and response, the Secretary, acting through the Under Secretary for Science and Technology, and in consultation with other relevant executive agencies and relevant owners and operators of critical infrastructure, shall, to the extent practicable, conduct research and development.
14 15 16 17 18 19 20 21 22	"SEC. 318. GMD AND EMP MITIGATION RESEARCH AND DEVELOPMENT.  "(a) IN GENERAL.—In furtherance of domestic preparedness and response, the Secretary, acting through the Under Secretary for Science and Technology, and in consultation with other relevant executive agencies and relevant owners and operators of critical infrastructure, shall, to the extent practicable, conduct research and development to mitigate the consequences of threats of EMP

1	"(1) An objective scientific analysis—
2	"(A) evaluating the risks to critical infra-
3	structures from a range of threats of EMP and
4	GMD; and
5	"(B) which shall—
6	"(i) be conducted in conjunction with
7	the Office of Intelligence and Analysis; and
8	"(ii) include a review and comparison
9	of the range of threats and hazards facing
10	critical infrastructure of the electric grid.
11	"(2) Determination of the critical utilities and
12	national security assets and infrastructures that are
13	at risk from threats of EMP and GMD.
14	"(3) An evaluation of emergency planning and
15	response technologies that would address the find-
16	ings and recommendations of experts, including
17	those of the Commission to Assess the Threat to the
18	United States from Electromagnetic Pulse Attack,
19	which shall include a review of the feasibility of—
20	"(A) rapidly isolating 1 or more portions
21	of the electrical grid from the main electrical
22	grid; and
23	"(B) training utility and transmission op-
24	erators to deactivate transmission lines within

1	seconds of an event constituting a threat of
2	EMP or GMD.
3	"(4) An analysis of technology options that are
4	available to improve the resiliency of critical infra-
5	structure to threats of EMP and GMD, which shall
6	include an analysis of neutral current blocking de-
7	vices that may protect high-voltage transmission
8	lines.
9	"(5) The restoration and recovery capabilities
10	of critical infrastructure under differing levels of
11	damage and disruption from various threats of EMP
12	and GMD, as informed by the objective scientific
13	analysis conducted under paragraph (1).
14	"(6) An analysis of the feasibility of a real-time
15	alert system to inform electric grid operators and
16	other stakeholders within milliseconds of a high-alti-
17	tude nuclear explosion."; and
18	(4) in title V (6 U.S.C. 311 et seq.), by adding
19	at the end the following:
20	"SEC. 526. NATIONAL PLANNING AND EDUCATION.
21	"(a) In General.—The Secretary shall, to the ex-
22	tent practicable—
23	"(1) develop an incident annex or similar re-
24	sponse and planning strategy that guides the re-
25	sponse to a major GMD or EMP event; and

1	"(2) conduct outreach to educate owners and
2	operators of critical infrastructure, emergency plan-
3	ners, and emergency response providers at all levels
4	of government regarding threats of EMP and GMD.
5	"(b) Existing Annexes and Plans.—The incident
6	annex or response and planning strategy developed under
7	subsection (a)(1) may be incorporated into existing inci-
8	dent annexes or response plans.".
9	(b) Technical and Conforming Amendments.—
10	(1) The table of contents in section 1(b) of the
11	Homeland Security Act of 2002 is amended—
12	(A) by inserting after the item relating to
13	section 317 the following:
	"Sec. 318. GMD and EMP mitigation research and development."; and
14	(B) by inserting after the item relating to
15	section 525 the following:
	"Sec. 526. National planning and education.".
16	(2) Section 501(13) of the Homeland Security
17	Act of 2002 (6 U.S.C. 311(13)) is amended by strik-
18	ing "section 101(11)(B)" and inserting "section
19	101(13)(B)".
20	(3) Section 712(a) of title 14, United States
21	Code, is amended by striking "section 2(16) of the
22	Homeland Security Act of 2002 (6 U.S.C. 101(16))"
23	and inserting "section 2 of the Homeland Security
24	Act of 2002 (6 U.S.C. 101)".

1	(c) Deadline for Initial Recommended Strat-
2	EGY.—Not later than 1 year after the date of enactment
3	of this Act, the Secretary of Homeland Security shall sub-
4	mit the recommended strategy required under paragraph
5	(26) of section 201(d) of the Homeland Security Act of
6	2002 (6 U.S.C. 121(d)), as added by this Act.
7	(d) Report.—Not later than 180 days after the date
8	of enactment of this Act, the Secretary of Homeland Secu-
9	rity shall submit to Congress a report describing the
10	progress made in, and an estimated date by which the De-
11	partment of Homeland Security will have completed—
12	(1) including threats of EMP and GMD (as
13	those terms are defined in section 2 of the Home-
14	land Security Act of 2002, as amended by this Act)
15	in national planning, as described in section 526 of
16	the Homeland Security Act of 2002, as added by
17	this Act;
18	(2) research and development described in sec-
19	tion 318 of the Homeland Security Act of 2002, as
20	added by this Act;
21	(3) development of the recommended strategy
22	required under paragraph (26) of section 201(d) of
23	the Homeland Security Act of 2002 (6 U.S.C.
24	121(d)), as added by this Act; and

1 (4) beginning to conduct outreach to educate 2 emergency planners and emergency response pro-3 viders at all levels of government regarding threats 4 of EMP and GMD events.

## 5 SEC. 3. NO REGULATORY AUTHORITY.

- 6 Nothing in this Act, including the amendments made
- 7 by this Act, shall be construed to grant any regulatory
- 8 authority.

## 9 SEC. 4. NO NEW AUTHORIZATION OF APPROPRIATIONS.

- This Act, including the amendments made by this
- 11 Act, may be carried out only by using funds appropriated
- 12 under the authority of other laws.