AMENDMENT TO THE SENATE AMENDMENTS TO H.R. 22

OFFERED BY MR. UPTON OF MICHIGAN

Page 1032, after line 4, add the following:

1 DIVISION J-ENERGY SECURITY

SEC. 99001. EMERGENCY PREPAREDNESS FOR ENERGY SUPPLY DISRUPTIONS.

4 (a) FINDING.—Congress finds that recent natural 5 disasters have underscored the importance of having resil-6 ient oil and natural gas infrastructure and effective ways 7 for industry and government to communicate to address 8 energy supply disruptions.

9 (b) AUTHORIZATION FOR ACTIVITIES TO ENHANCE
10 EMERGENCY PREPAREDNESS FOR NATURAL DISAS11 TERS.—The Secretary of Energy shall develop and adopt
12 procedures to—

(1) improve communication and coordination
between the Department of Energy's energy response team, Federal partners, and industry;

16 (2) leverage the Energy Information Adminis17 tration's subject matter expertise within the Depart18 ment's energy response team to improve supply
19 chain situation assessments;

1	(3) establish company liaisons and direct com-
2	munication with the Department's energy response
3	team to improve situation assessments;
4	(4) streamline and enhance processes for ob-
5	taining temporary regulatory relief to speed up
6	emergency response and recovery;
7	(5) facilitate and increase engagement among
8	States, the oil and natural gas industry, and the De-
9	partment in developing State and local energy assur-
10	ance plans;
11	(6) establish routine education and training
12	programs for key government emergency response
13	positions with the Department and States; and
14	(7) involve States and the oil and natural gas
15	industry in comprehensive drill and exercise pro-
16	grams.
17	(c) COOPERATION.—The activities carried out under
18	subsection (b) shall include collaborative efforts with State
19	and local government officials and the private sector.
20	(d) REPORT.—Not later than 180 days after the date
21	of enactment of this Act, the Secretary of Energy shall
22	submit to Congress a report describing the effectiveness
23	of the activities authorized under this section.

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 SEC. 99002. RESOLVING ENVIRONMENTAL AND GRID RELI

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 ABILITY CONFLICTS.

3 (a) COMPLIANCE WITH OR VIOLATION OF ENVIRON4 MENTAL LAWS WHILE UNDER EMERGENCY ORDER.—
5 Section 202(c) of the Federal Power Act (16 U.S.C.
6 824a(c)) is amended—

- 7 (1) by inserting "(1)" after "(c)"; and
 - (2) by adding at the end the following:

9 "(2) With respect to an order issued under this subsection that may result in a conflict with a requirement 10 of any Federal, State, or local environmental law or regu-11 lation, the Commission shall ensure that such order re-12 quires generation, delivery, interchange, or transmission 13 of electric energy only during hours necessary to meet the 14 emergency and serve the public interest, and, to the max-15 imum extent practicable, is consistent with any applicable 16 Federal, State, or local environmental law or regulation 17 and minimizes any adverse environmental impacts. 18

19 "(3) To the extent any omission or action taken by 20 a party, that is necessary to comply with an order issued 21 under this subsection, including any omission or action 22 taken to voluntarily comply with such order, results in 23 noncompliance with, or causes such party to not comply 24 with, any Federal, State, or local environmental law or regulation, such omission or action shall not be considered 25 a violation of such environmental law or regulation, or 26

subject such party to any requirement, civil or criminal
 liability, or a citizen suit under such environmental law
 or regulation.

4 ((4)(A) An order issued under this subsection that may result in a conflict with a requirement of any Federal, 5 State, or local environmental law or regulation shall expire 6 7 not later than 90 days after it is issued. The Commission 8 may renew or reissue such order pursuant to paragraphs 9 (1) and (2) for subsequent periods, not to exceed 90 days 10 for each period, as the Commission determines necessary to meet the emergency and serve the public interest. 11

12 "(B) In renewing or reissuing an order under subparagraph (A), the Commission shall consult with the pri-13 mary Federal agency with expertise in the environmental 14 15 interest protected by such law or regulation, and shall include in any such renewed or reissued order such condi-16 tions as such Federal agency determines necessary to min-17 imize any adverse environmental impacts to the extent 18 practicable. The conditions, if any, submitted by such Fed-19 eral agency shall be made available to the public. The 20 21 Commission may exclude such a condition from the re-22 newed or reissued order if it determines that such condi-23 tion would prevent the order from adequately addressing 24 the emergency necessitating such order and provides in

the order, or otherwise makes publicly available, an expla nation of such determination.

3 "(5) If an order issued under this subsection is subse-4 quently stayed, modified, or set aside by a court pursuant 5 to section 313 or any other provision of law, any omission or action previously taken by a party that was necessary 6 7 to comply with the order while the order was in effect, 8 including any omission or action taken to voluntarily com-9 ply with the order, shall remain subject to paragraph 10 (3).".

(b) TEMPORARY CONNECTION OR CONSTRUCTION BY
MUNICIPALITIES.—Section 202(d) of the Federal Power
Act (16 U.S.C. 824a(d)) is amended by inserting "or municipality" before "engaged in the transmission or sale of
electric energy".

16 SEC. 99003. CRITICAL ELECTRIC INFRASTRUCTURE SECU17 RITY.

(a) CRITICAL ELECTRIC INFRASTRUCTURE SECU19 RITY.—Part II of the Federal Power Act (16 U.S.C. 824
20 et seq.) is amended by adding after section 215 the fol21 lowing new section:

22 "SEC. 215A. CRITICAL ELECTRIC INFRASTRUCTURE SECU23 RITY.

24 "(a) DEFINITIONS.—For purposes of this section:

"(1) BULK-POWER SYSTEM; ELECTRIC RELI ABILITY ORGANIZATION; REGIONAL ENTITY.—The
 terms 'bulk-power system', 'Electric Reliability Or ganization', and 'regional entity' have the meanings
 given such terms in paragraphs (1), (2), and (7) of
 section 215(a), respectively.

"(2) CRITICAL ELECTRIC INFRASTRUCTURE.—
The term 'critical electric infrastructure' means a
system or asset of the bulk-power system, whether
physical or virtual, the incapacity or destruction of
which would negatively affect national security, economic security, public health or safety, or any combination of such matters.

14 "(3) CRITICAL ELECTRIC INFRASTRUCTURE IN-15 FORMATION.—The term 'critical electric infrastructure information' means information related to crit-16 17 ical electric infrastructure, or proposed critical elec-18 trical infrastructure, generated by or provided to the 19 Commission or other Federal agency, other than 20 classified national security information, that is des-21 ignated as critical electric infrastructure information 22 by the Commission under subsection (d)(2). Such 23 term includes information that qualifies as critical 24 energy infrastructure information under the Com-25 mission's regulations.

"(4) DEFENSE CRITICAL ELECTRIC INFRASTRUCTURE.—The term 'defense critical electric infrastructure' means any electric infrastructure located in the United States (including the territories)
that serves a facility designated by the Secretary
pursuant to subsection (c), but is not owned or operated by the owner or operator of such facility.

8 "(5) ELECTROMAGNETIC PULSE.—The term 9 'electromagnetic pulse' means 1 or more pulses of 10 electromagnetic energy emitted by a device capable 11 of disabling or disrupting operation of, or destroy-12 ing, electronic devices or communications networks, 13 including hardware, software, and data, by means of 14 such a pulse.

15 "(6) GEOMAGNETIC STORM.—The term 'geo16 magnetic storm' means a temporary disturbance of
17 the Earth's magnetic field resulting from solar activ18 ity.

19 "(7) GRID SECURITY EMERGENCY.—The term
20 'grid security emergency' means the occurrence or
21 imminent danger of—

22 "(A)(i) a malicious act using electronic
23 communication or an electromagnetic pulse, or
24 a geomagnetic storm event, that could disrupt
25 the operation of those electronic devices or com-

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munications networks, including hardware, software, and data, that are essential to the reliability of critical electric infrastructure or of defense critical electric infrastructure; and

"(ii) disruption of the operation of such 6 devices or networks, with significant adverse effects on the reliability of critical electric infra-8 structure or of defense critical electric infra-9 structure, as a result of such act or event; or

10 "(B)(i) a direct physical attack on critical 11 electric infrastructure or on defense critical 12 electric infrastructure; and

13 "(ii) significant adverse effects on the reli-14 ability of critical electric infrastructure or of de-15 fense critical electric infrastructure as a result 16 of such physical attack.

17 "(8) SECRETARY.—The term 'Secretary' means 18 the Secretary of Energy.

19 "(b) AUTHORITY TO ADDRESS GRID SECURITY 20 EMERGENCY.—

21 ((1))AUTHORITY.—Whenever the President 22 issues and provides to the Secretary a written direc-23 tive or determination identifying a grid security 24 emergency, the Secretary may, with or without no-25 tice, hearing, or report, issue such orders for emer-

1 gency measures as are necessary in the judgment of 2 the Secretary to protect or restore the reliability of 3 critical electric infrastructure or of defense critical 4 electric infrastructure during such emergency. As 5 soon as practicable but not later than 180 days after 6 the date of enactment of this section, the Secretary shall, after notice and opportunity for comment, es-7 8 tablish rules of procedure that ensure that such au-9 thority can be exercised expeditiously.

10 "(2) NOTIFICATION OF CONGRESS.—Whenever 11 the President issues and provides to the Secretary a 12 written directive or determination under paragraph 13 (1), the President shall promptly notify congres-14 sional committees of relevant jurisdiction, including 15 the Committee on Energy and Commerce of the 16 House of Representatives and the Committee on En-17 ergy and Natural Resources of the Senate, of the 18 contents of, and justification for, such directive or 19 determination.

"(3) CONSULTATION.—Before issuing an order
for emergency measures under paragraph (1), the
Secretary shall, to the extent practicable in light of
the nature of the grid security emergency and the
urgency of the need for action, consult with appropriate governmental authorities in Canada and Mex-

1	ico, entities described in paragraph (4), the Elec-
2	tricity Sub-sector Coordinating Council, the Commis-
3	sion, and other appropriate Federal agencies regard-
4	ing implementation of such emergency measures.
5	"(4) APPLICATION.—An order for emergency
6	measures under this subsection may apply to—
7	"(A) the Electric Reliability Organization;
8	"(B) a regional entity; or
9	"(C) any owner, user, or operator of crit-
10	ical electric infrastructure or of defense critical
11	electric infrastructure within the United States.
12	"(5) Expiration and reissuance.—
13	"(A) IN GENERAL.—Except as provided in
14	subparagraph (B), an order for emergency
15	measures issued under paragraph (1) shall ex-
16	pire no later than 15 days after its issuance.
17	"(B) EXTENSIONS.—The Secretary may
18	reissue an order for emergency measures issued
19	under paragraph (1) for subsequent periods,
20	not to exceed 15 days for each such period, pro-
21	vided that the President, for each such period,
22	issues and provides to the Secretary a written
23	directive or determination that the grid security
24	emergency identified under paragraph (1) con-

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- tinues to exist or that the emergency measure continues to be required.
- "(6) Cost recovery.—

"(A) 4 CRITICAL ELECTRIC INFRASTRUC-5 TURE.—If the Commission determines that 6 owners, operators, or users of critical electric 7 infrastructure have incurred substantial costs to 8 comply with an order for emergency measures 9 issued under this subsection and that such costs 10 were prudently incurred and cannot reasonably 11 be recovered through regulated rates or market 12 prices for the electric energy or services sold by 13 such owners, operators, or users, the Commis-14 sion shall, consistent with the requirements of 15 section 205, after notice and an opportunity for 16 comment, establish a mechanism that permits 17 such owners, operators, or users to recover such 18 costs.

"(B) DEFENSE CRITICAL ELECTRIC INFRASTRUCTURE.—To the extent the owner or operator of defense critical electric infrastructure is
required to take emergency measures pursuant
to an order issued under this subsection, the
owners or operators of a critical defense facility
or facilities designated by the Secretary pursu-

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ant to subsection (c) that rely upon such infrastructure shall bear the full incremental costs of the measures.

4 "(7) TEMPORARY ACCESS TO CLASSIFIED IN-5 FORMATION.—The Secretary, and other appropriate 6 Federal agencies, shall, to the extent practicable and 7 consistent with their obligations to protect classified 8 information, provide temporary access to classified 9 information related to a grid security emergency for 10 which emergency measures are issued under para-11 graph (1) to key personnel of any entity subject to 12 such emergency measures to enable optimum com-13 munication between the entity and the Secretary and 14 other appropriate Federal agencies regarding the 15 grid security emergency.

16 "(c) DESIGNATION OF CRITICAL DEFENSE FACILI-TIES.—Not later than 180 days after the date of enact-17 ment of this section, the Secretary, in consultation with 18 19 other appropriate Federal agencies and appropriate own-20 ers, users, or operators of infrastructure that may be de-21 fense critical electric infrastructure, shall identify and des-22 ignate facilities located in the United States (including the territories) that are— 23

24 "(1) critical to the defense of the United States;25 and

"(2) vulnerable to a disruption of the supply of
 electric energy provided to such facility by an exter nal provider.

4 The Secretary may, in consultation with appropriate Fed5 eral agencies and appropriate owners, users, or operators
6 of defense critical electric infrastructure, periodically re7 vise the list of designated facilities as necessary.

8 "(d) PROTECTION AND SHARING OF CRITICAL ELEC-9 TRIC INFRASTRUCTURE INFORMATION.—

10 "(1) PROTECTION OF CRITICAL ELECTRIC IN11 FRASTRUCTURE INFORMATION.—Critical electric in12 frastructure information—

13 "(A) shall be exempt from disclosure under
14 section 552(b)(3) of title 5, United States Code;
15 and

"(B) shall not be made available by any
Federal, State, political subdivision or tribal authority pursuant to any Federal, State, political
subdivision or tribal law requiring public disclosure of information or records.

21 "(2) DESIGNATION AND SHARING OF CRITICAL
22 ELECTRIC INFRASTRUCTURE INFORMATION.—Not
23 later than one year after the date of enactment of
24 this section, the Commission, in consultation with

1	the Secretary of Energy, shall promulgate such reg-
2	ulations and issue such orders as necessary to—
3	"(A) designate information as critical elec-
4	tric infrastructure information;
5	"(B) prohibit the unauthorized disclosure
6	of critical electric infrastructure information;
7	"(C) ensure there are appropriate sanc-
8	tions in place for Commissioners, officers, em-
9	ployees, or agents of the Commission who
10	knowingly and willfully disclose critical electric
11	infrastructure information in a manner that is
12	not authorized under this section; and
13	"(D) taking into account standards of the
14	Electric Reliability Organization, facilitate vol-
15	untary sharing of critical electric infrastructure
16	information with, between, and by—
17	"(i) Federal, State, political subdivi-
18	sion, and tribal authorities;
19	"(ii) the Electric Reliability Organiza-
20	tion;
21	"(iii) regional entities;
22	"(iv) information sharing and analysis
23	centers established pursuant to Presi-
24	dential Decision Directive 63;

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1	"(v) owners, operators, and users of
2	critical electric infrastructure in the United
3	States; and
4	"(vi) other entities determined appro-
5	priate by the Commission.
6	"(3) Considerations.—In promulgating regu-
7	lations and issuing orders under paragraph (2), the
8	Commission shall take into consideration the role of
9	State commissions in reviewing the prudence and
10	cost of investments, determining the rates and terms
11	of conditions for electric services, and ensuring the
12	safety and reliability of the bulk-power system and
13	distribution facilities within their respective jurisdic-
14	tions.
15	"(4) PROTOCOLS.—The Commission shall, in
16	consultation with Canadian and Mexican authorities,
17	develop protocols for the voluntary sharing of critical
18	electric infrastructure information with Canadian
19	and Mexican authorities and owners, operators, and
20	users of the bulk-power system outside the United
21	States.
22	"(5) NO REQUIRED SHARING OF INFORMA-
23	TION.—Nothing in this section shall require a person
24	or entity in possession of critical electric infrastruc-
25	ture information to share such information with

Federal, State, political subdivision, or tribal au thorities, or any other person or entity.

3 "(6) SUBMISSION OF INFORMATION TO CON4 GRESS.—Nothing in this section shall permit or au5 thorize the withholding of information from Con6 gress, any committee or subcommittee thereof, or
7 the Comptroller General.

8 "(7) DISCLOSURE OF NONPROTECTED INFOR-9 MATION.—In implementing this section, the Com-10 mission shall segregate critical electric infrastructure 11 information or information that reasonably could be 12 expected to lead to the disclosure of the critical elec-13 tric infrastructure information within documents and 14 electronic communications, wherever feasible, to fa-15 cilitate disclosure of information that is not des-16 ignated as critical electric infrastructure informa-17 tion.

18 "(8) DURATION OF DESIGNATION.—Informa19 tion may not be designated as critical electric infra20 structure information for longer than 5 years, unless
21 specifically re-designated by the Commission.

"(9) REMOVAL OF DESIGNATION.—The Commission shall remove the designation of critical electric infrastructure information, in whole or in part,
from a document or electronic communication if the

Commission determines that the unauthorized disclo sure of such information could no longer be used to
 impair the security or reliability of the bulk-power
 system or distribution facilities.

5 "(10) JUDICIAL REVIEW OF DESIGNATIONS.— 6 Notwithstanding section 313(b), any determination 7 by the Commission concerning the designation of 8 critical electric infrastructure information under this 9 subsection shall be subject to review under chapter 10 7 of title 5, United States Code, except that such re-11 view shall be brought in the district court of the 12 United States in the district in which the complain-13 ant resides, or has his principal place of business, or 14 in the District of Columbia. In such a case the court 15 shall examine in camera the contents of documents or electronic communications that are the subject of 16 17 the determination under review to determine wheth-18 er such documents or any part thereof were improp-19 erly designated or not designated as critical electric 20 infrastructure information.

21 "(e) SECURITY CLEARANCES.—The Secretary shall 22 facilitate and, to the extent practicable, expedite the acqui-23 sition of adequate security clearances by key personnel of 24 any entity subject to the requirements of this section, to 25 enable optimum communication with Federal agencies re-

garding threats to the security of the critical electric infra-1 2 structure. The Secretary, the Commission, and other appropriate Federal agencies shall, to the extent practicable 3 4 and consistent with their obligations to protect classified 5 and critical electric infrastructure information, share time-6 ly actionable information regarding grid security with ap-7 propriate key personnel of owners, operators, and users 8 of the critical electric infrastructure.

9 "(f) Clarifications of Liability.—

10 "(1) COMPLIANCE WITH OR VIOLATION OF THIS 11 ACT.—Except as provided in paragraph (4), to the 12 extent any action or omission taken by an entity 13 that is necessary to comply with an order for emer-14 gency measures issued under subsection (b)(1), in-15 cluding any action or omission taken to voluntarily 16 comply with such order, results in noncompliance 17 with, or causes such entity not to comply with any 18 rule, order, regulation, or provision of this Act, in-19 cluding any reliability standard approved by the 20 Commission pursuant to section 215, such action or 21 omission shall not be considered a violation of such 22 rule, order, regulation, or provision.

23 "(2) RELATION TO SECTION 202(c).—Except as
24 provided in paragraph (4), an action or omission
25 taken by an owner, operator, or user of critical elec-

tric infrastructure or of defense critical electric infrastructure to comply with an order for emergency
measures issued under subsection (b)(1) shall be
treated as an action or omission taken to comply
with an order issued under section 202(c) for purposes of such section.

"(3) SHARING OR RECEIPT OF INFORMATION.—
No cause of action shall lie or be maintained in any
Federal or State court for the sharing or receipt of
information under, and that is conducted in accordance with, subsection (d).

12 "(4) RULE OF CONSTRUCTION.—Nothing in 13 this subsection shall be construed to require dis-14 missal of a cause of action against an entity that, 15 in the course of complying with an order for emer-16 gency measures issued under subsection (b)(1) by 17 taking an action or omission for which they would 18 be liable but for paragraph (1) or (2), takes such ac-19 tion or omission in a grossly negligent manner.".

20 (b) Conforming Amendments.—

(1) JURISDICTION.—Section 201(b)(2) of the
Federal Power Act (16 U.S.C. 824(b)(2)) is amended by inserting "215A," after "215," each place it
appears.

(2) PUBLIC UTILITY.—Section 201(e) of the
 Federal Power Act (16 U.S.C. 824(e)) is amended
 by inserting "215A," after "215,".

4 SEC. 99004. STRATEGIC TRANSFORMER RESERVE.

5 (a) FINDING.—Congress finds that the storage of 6 strategically located spare large power transformers and 7 emergency mobile substations will reduce the vulnerability 8 of the United States to multiple risks facing electric grid 9 reliability, including physical attack, cyber attack, electro-10 magnetic pulse, geomagnetic disturbances, severe weather, 11 and seismic events.

12 (b) DEFINITIONS.—In this section:

(1) BULK-POWER SYSTEM.—The term "bulkpower system" has the meaning given such term in
section 215(a) of the Federal Power Act (16 U.S.C.
824o(a)).

17 (2) CRITICALLY DAMAGED LARGE POWER
18 TRANSFORMER.—The term "critically damaged large
19 power transformer" means a large power trans20 former that—

21 (A) has sustained extensive damage such
22 that—

23 (i) repair or refurbishment is not eco-24 nomically viable; or

1	(ii) the extensive time to repair or re-
2	furbish the large power transformer would
3	create an extended period of instability in
4	the bulk-power system; and
5	(B) prior to sustaining such damage, was
6	part of the bulk-power system.
7	(3) CRITICAL ELECTRIC INFRASTRUCTURE.—
8	The term "critical electric infrastructure" has the
9	meaning given that term in section 215A of the Fed-
10	eral Power Act.
11	(4) ELECTRIC RELIABILITY ORGANIZATION
12	The term "Electric Reliability Organization" has the
13	meaning given such term in section 215(a) of the
14	Federal Power Act (16 U.S.C. 824o(a)).
15	(5) Emergency mobile substation.—The
16	term "emergency mobile substation" means a mobile
17	substation or mobile transformer that is—
18	(A) assembled and permanently mounted
19	on a trailer that is capable of highway travel
20	and meets relevant Department of Transpor-
21	tation regulations; and
22	(B) intended for express deployment and
23	capable of being rapidly placed into service.
24	(6) LARGE POWER TRANSFORMER.—The term
25	"large power transformer" means a power trans-

former with a maximum nameplate rating of 100
 megavolt-amperes or higher, including related crit ical equipment, that is, or is intended to be, a part
 of the bulk-power system.

5 (7) SECRETARY.—The term "Secretary" means6 the Secretary of Energy.

7 (8) SPARE LARGE POWER TRANSFORMER.—The
8 term "spare large power transformer" means a large
9 power transformer that is stored within the Stra10 tegic Transformer Reserve to be available to tempo11 rarily replace a critically damaged large power trans12 former.

13 (c) Strategic Transformer Reserve Plan.—

14 (1) PLAN.—Not later than one year after the 15 date of enactment of this Act, the Secretary, acting 16 through the Office of Electricity Delivery and En-17 ergy Reliability, shall, in consultation with the Fed-18 eral Energy Regulatory Commission, the Electricity 19 Sub-sector Coordinating Council, the Electric Reli-20 ability Organization, and owners and operators of 21 critical electric infrastructure and defense and mili-22 tary installations, prepare and submit to Congress a 23 plan to establish a Strategic Transformer Reserve 24 for the storage, in strategically located facilities, of 25 spare large power transformers and emergency mo-

1	bile substations in sufficient numbers to temporarily
2	replace critically damaged large power transformers
3	and substations that are critical electric infrastruc-
4	ture or serve defense and military installations.
5	(2) Inclusions.—The Strategic Transformer
6	Reserve plan shall include a description of—
7	(A) the appropriate number and type of
8	spare large power transformers necessary to
9	provide or restore sufficient resiliency to the
10	bulk-power system, critical electric infrastruc-
11	ture, and defense and military installations to
12	mitigate significant impacts to the electric grid
13	resulting from—
14	(i) physical attack;
15	(ii) cyber attack;
16	(iii) electromagnetic pulse attack;
17	(iv) geomagnetic disturbances;
18	(v) severe weather; or
19	(vi) seismic events;
20	
20	(B) other critical electric grid equipment
20 21	
	(B) other critical electric grid equipment
21	(B) other critical electric grid equipment for which an inventory of spare equipment, in-

1	structure, and defense and military installa-
2	tions;
3	(C) the degree to which utility sector ac-
4	tions or initiatives, including individual utility
5	ownership of spare equipment, joint ownership
6	of spare equipment inventory, sharing agree-
7	ments, or other spare equipment reserves or ar-
8	rangements, satisfy the needs identified under
9	subparagraphs (A) and (B);
10	(D) the potential locations for, and feasi-
11	bility and appropriate number of, strategic stor-
12	age locations for reserve equipment, including
13	consideration of—
14	(i) the physical security of such loca-
15	tions;
16	(ii) the protection of the confiden-
17	tiality of such locations; and
18	(iii) the proximity of such locations to
19	sites of potentially critically damaged large
20	power transformers and substations that
21	are critical electric infrastructure or serve
22	defense and military installations, so as to
23	enable efficient delivery of equipment to
24	such sites;

1	(E) the necessary degree of flexibility of
2	spare large power transformers to be included
3	in the Strategic Transformer Reserve to con-
4	form to different substation configurations, in-
5	cluding consideration of transformer—
6	(i) power and voltage rating for each
7	winding;
8	(ii) overload requirements;
9	(iii) impedance between windings;
10	(iv) configuration of windings; and
11	(v) tap requirements;
12	(F) an estimate of the direct cost of the
13	Strategic Transformer Reserve, as proposed, in-
14	cluding—
15	(i) the cost of storage facilities;
16	(ii) the cost of the equipment; and
17	(iii) management, maintenance, and
18	operation costs;
19	(G) the funding options available to estab-
20	lish, stock, manage, and maintain the Strategic
21	Transformer Reserve, including consideration of
22	fees on owners and operators of bulk-power sys-
23	tem facilities, critical electric infrastructure,
24	and defense and military installations relying on
25	the Strategic Transformer Reserve, use of Fed-

1	eral appropriations, and public-private cost-
2	sharing options;
3	(H) the ease and speed of transportation,
4	installation, and energization of spare large
5	power transformers to be included in the Stra-
6	tegic Transformer Reserve, including consider-
7	ation of factors such as—
8	(i) transformer transportation weight;
9	(ii) transformer size;
10	(iii) topology of critical substations;
11	(iv) availability of appropriate trans-
12	former mounting pads;
13	(v) flexibility of the spare large power
14	transformers as described in subparagraph
15	(E); and
16	(vi) ability to rapidly transition a
17	spare large power transformer from stor-
18	age to energization;
19	(I) eligibility criteria for withdrawal of
20	equipment from the Strategic Transformer Re-
21	serve;
22	(J) the process by which owners or opera-
23	tors of critically damaged large power trans-
24	formers or substations that are critical electric
25	infrastructure or serve defense and military in-

1	stallations may apply for a withdrawal from the
2	Strategic Transformer Reserve;
3	(K) the process by which equipment with-
4	drawn from the Strategic Transformer Reserve
5	is returned to the Strategic Transformer Re-
6	serve or is replaced;
7	(L) possible fees to be paid by users of
8	equipment withdrawn from the Strategic Trans-
9	former Reserve;
10	(M) possible fees to be paid by owners and
11	operators of large power transformers and sub-
12	stations that are critical electric infrastructure
13	or serve defense and military installations to
14	cover operating costs of the Strategic Trans-
15	former Reserve;
16	(N) the domestic and international large
17	power transformer supply chain;
18	(O) the potential reliability, cost, and oper-
19	ational benefits of including emergency mobile
20	substations in any Strategic Transformer Re-
21	serve established under this section; and
22	(P) other considerations for designing, con-
23	structing, stocking, funding, and managing the
24	Strategic Transformer Reserve.

1 (d) ESTABLISHMENT.—The Secretary may establish 2 a Strategic Transformer Reserve in accordance with the 3 plan prepared pursuant to subsection (c) after the date 4 that is 6 months after the date on which such plan is sub-5 mitted to Congress.

6 (e) DISCLOSURE OF INFORMATION.—Any informa-7 tion included in the Strategic Transformer Reserve plan, 8 or shared in the preparation and development of such 9 plan, the disclosure of which could cause harm to critical 10 electric infrastructure, shall be exempt from disclosure under section 552(b)(3) of title 5, United States Code, and 11 any State, tribal, or local law requiring disclosure of infor-12 mation or records. 13

14 SEC. 99005. ENERGY SECURITY VALUATION.

15 (a) ESTABLISHMENT OF ENERGY SECURITY VALU-ATION METHODS.—Not later than one year after the date 16 of enactment of this Act, the Secretary of Energy, in col-17 laboration with the Secretary of State, shall develop and 18 transmit, after public notice and comment, to the Com-19 mittee on Energy and Commerce and the Committee on 20 21 Foreign Affairs of the House of Representatives and the 22 Committee on Energy and Natural Resources and the 23 Committee on Foreign Relations of the Senate a report 24 that develops recommended United States energy security 25 valuation methods. In developing the report, the Secre-

taries may consider the recommendations of the Adminis tration's Quadrennial Energy Review released on April 21,
 2015. The report shall—

4 (1) evaluate and define United States energy
5 security to reflect modern domestic and global en6 ergy markets and the collective needs of the United
7 States and its allies and partners;

8 (2) identify transparent and uniform or coordi-9 nated procedures and criteria to ensure that energy-10 related actions that significantly affect the supply, 11 distribution, or use of energy are evaluated with re-12 spect to their potential impact on energy security, 13 including their impact on—

14	(A) consumers and the economy;
15	(B) energy supply diversity and resiliency;
16	(C) well-functioning and competitive en-
17	ergy markets;
18	(D) United States trade balance; and
19	(E) national security objectives; and
20	(3) include a recommended implementation
21	strategy that identifies and aims to ensure that the

procedures and criteria referred to in paragraph (2)
are—

24 (A) evaluated consistently across the Fed-25 eral Government; and

(B) weighed appropriately and balanced
 with environmental considerations required by
 Federal law.

4 (b) PARTICIPATION.—In developing the report re-5 ferred to in subsection (a), the Secretaries may consult 6 with relevant Federal, State, private sector, and inter-7 national participants, as appropriate and consistent with 8 applicable law.

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