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IN THE SENATE OF THE UNITED STATES

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Received; read twice and referred to the Committee on Energy and Natural
Resources

SEPTEMBER 27, 2010

Reported by Mr. BINGAMAN, with an amendment

[Strike out all after the enacting clause and insert the part printed in *italic*]

AN ACT

To amend the Federal Power Act to protect the bulk-power system and electric infrastructure critical to the defense of the United States against cybersecurity and other threats and vulnerabilities.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Grid Reliability and
5 Infrastructure Defense Act” or the “GRID Act”.

1 **SEC. 2. AMENDMENT TO THE FEDERAL POWER ACT.**

2 (a) **CRITICAL ELECTRIC INFRASTRUCTURE SECUR-**
3 **RITY.**—Part II of the Federal Power Act (16 U.S.C. 824
4 et seq.) is amended by adding after section 215 the fol-
5 lowing new section:

6 **“SEC. 215A. CRITICAL ELECTRIC INFRASTRUCTURE SECUR-**
7 **RITY.**

8 “(a) **DEFINITIONS.**—For purposes of this section:

9 “(1) **BULK-POWER SYSTEM; ELECTRIC RELI-**
10 **ABILITY ORGANIZATION; REGIONAL ENTITY.**—The
11 terms ‘bulk-power system’, ‘Electric Reliability Or-
12 ganization’, and ‘regional entity’ have the meanings
13 given such terms in paragraphs (1), (2), and (7) of
14 section 215(a), respectively.

15 “(2) **DEFENSE CRITICAL ELECTRIC INFRA-**
16 **STRUCTURE.**—The term ‘defense critical electric in-
17 frastructure’ means any infrastructure located in the
18 United States (including the territories) used for the
19 generation, transmission, or distribution of electric
20 energy that—

21 “(A) is not part of the bulk-power system;
22 and

23 “(B) serves a facility designated by the
24 President pursuant to subsection (d)(1), but is
25 not owned or operated by the owner or operator
26 of such facility.

1 “(3) DEFENSE CRITICAL ELECTRIC INFRA-
2 STRUCTURE VULNERABILITY.—The term ‘defense
3 critical electric infrastructure vulnerability’ means a
4 weakness in defense critical electric infrastructure
5 that, in the event of a malicious act using electronic
6 communication or an electromagnetic pulse, would
7 pose a substantial risk of disruption of those elec-
8 tronic devices or communications networks, includ-
9 ing hardware, software, and data, that are essential
10 to the reliability of defense critical electric infra-
11 structure.

12 “(4) ELECTROMAGNETIC PULSE.—The term
13 ‘electromagnetic pulse’ means 1 or more pulses of
14 electromagnetic energy emitted by a device capable
15 of disabling, disrupting, or destroying electronic
16 equipment by means of such a pulse.

17 “(5) GEOMAGNETIC STORM.—The term ‘geo-
18 magnetic storm’ means a temporary disturbance of
19 the Earth’s magnetic field resulting from solar activ-
20 ity.

21 “(6) GRID SECURITY THREAT.—The term ‘grid
22 security threat’ means a substantial likelihood of—

23 “(A)(i) a malicious act using electronic
24 communication or an electromagnetic pulse, or
25 a geomagnetic storm event, that could disrupt

1 the operation of those electronic devices or com-
2 munications networks, including hardware, soft-
3 ware, and data, that are essential to the reli-
4 ability of the bulk-power system or of defense
5 critical electric infrastructure; and

6 “(ii) disruption of the operation of such
7 devices or networks, with significant adverse ef-
8 fects on the reliability of the bulk-power system
9 or of defense critical electric infrastructure, as
10 a result of such act or event; or

11 “(B)(i) a direct physical attack on the
12 bulk-power system or on defense critical electric
13 infrastructure; and

14 “(ii) significant adverse effects on the reli-
15 ability of the bulk-power system or of defense
16 critical electric infrastructure as a result of
17 such physical attack.

18 “(7) GRID SECURITY VULNERABILITY.—The
19 term ‘grid security vulnerability’ means a weakness
20 that, in the event of a malicious act using electronic
21 communication or an electromagnetic pulse, would
22 pose a substantial risk of disruption to the operation
23 of those electronic devices or communications net-
24 works, including hardware, software, and data, that

1 are essential to the reliability of the bulk-power sys-
2 tem.

3 “(8) LARGE TRANSFORMER.—The term ‘large
4 transformer’ means an electric transformer that is
5 part of the bulk-power system.

6 “(9) PROTECTED INFORMATION.—The term
7 ‘protected information’ means information, other
8 than classified national security information, des-
9 ignated as protected information by the Commission
10 under subsection (c)(2)—

11 “(A) that was developed or submitted in
12 connection with the implementation of this sec-
13 tion;

14 “(B) that specifically discusses grid secu-
15 rity threats, grid security vulnerabilities, de-
16 fense critical electric infrastructure
17 vulnerabilities, or plans, procedures, or meas-
18 ures to address such threats or vulnerabilities;
19 and

20 “(C) the unauthorized disclosure of which
21 could be used in a malicious manner to impair
22 the reliability of the bulk-power system or of
23 defense critical electric infrastructure.

24 “(10) SECRETARY.—The term ‘Secretary’
25 means the Secretary of Energy.

1 “(11) SECURITY.—The definition of ‘security’
2 in section 3(16) shall not apply to the provisions in
3 this section.

4 “(b) EMERGENCY RESPONSE MEASURES.—

5 “(1) AUTHORITY TO ADDRESS GRID SECURITY
6 THREATS.—Whenever the President issues and pro-
7 vides to the Commission (either directly or through
8 the Secretary) a written directive or determination
9 identifying an imminent grid security threat, the
10 Commission may, with or without notice, hearing, or
11 report, issue such orders for emergency measures as
12 are necessary in its judgment to protect the reli-
13 ability of the bulk-power system or of defense critical
14 electric infrastructure against such threat. As soon
15 as practicable but not later than 180 days after the
16 date of enactment of this section, the Commission
17 shall, after notice and opportunity for comment, es-
18 tablish rules of procedure that ensure that such au-
19 thority can be exercised expeditiously.

20 “(2) NOTIFICATION OF CONGRESS.—Whenever
21 the President issues and provides to the Commission
22 (either directly or through the Secretary) a written
23 directive or determination under paragraph (1), the
24 President (or the Secretary, as the case may be)
25 shall promptly notify congressional committees of

1 relevant jurisdiction, including the Committee on
2 Energy and Commerce of the House of Representa-
3 tives and the Committee on Energy and Natural Re-
4 sources of the Senate, of the contents of, and jus-
5 tification for, such directive or determination.

6 “(3) CONSULTATION.—Before issuing an order
7 for emergency measures under paragraph (1), the
8 Commission shall, to the extent practicable in light
9 of the nature of the grid security threat and the ur-
10 gency of the need for such emergency measures, con-
11 sult with appropriate governmental authorities in
12 Canada and Mexico, entities described in paragraph
13 (4), the Secretary, and other appropriate Federal
14 agencies regarding implementation of such emer-
15 gency measures.

16 “(4) APPLICATION.—An order for emergency
17 measures under this subsection may apply to—

18 “(A) the Electric Reliability Organization;

19 “(B) a regional entity; or

20 “(C) any owner, user, or operator of the
21 bulk-power system or of defense critical electric
22 infrastructure within the United States.

23 “(5) DISCONTINUANCE.—The Commission shall
24 issue an order discontinuing any emergency meas-

1 ures ordered under this subsection, effective not
2 later than 30 days after the earliest of the following:

3 “(A) The date upon which the President
4 issues and provides to the Commission (either
5 directly or through the Secretary) a written di-
6 rective or determination that the grid security
7 threat identified under paragraph (1) no longer
8 exists.

9 “(B) The date upon which the Commission
10 issues a written determination that the emer-
11 gency measures are no longer needed to address
12 the grid security threat identified under para-
13 graph (1), including by means of Commission
14 approval of a reliability standard under section
15 215 that the Commission determines adequately
16 addresses such threat.

17 “(C) The date that is 1 year after the
18 issuance of an order under paragraph (1).

19 “(6) COST RECOVERY.—If the Commission de-
20 termines that owners, operators, or users of the
21 bulk-power system or of defense critical electric in-
22 frastructure have incurred substantial costs to com-
23 ply with an order under this subsection and that
24 such costs were prudently incurred and cannot rea-
25 sonably be recovered through regulated rates or

1 market prices for the electric energy or services sold
2 by such owners, operators, or users, the Commission
3 shall, after notice and an opportunity for comment,
4 establish a mechanism that permits such owners, op-
5 erators, or users to recover such costs.

6 “(e) MEASURES TO ADDRESS GRID SECURITY
7 VULNERABILITIES.—

8 “(1) COMMISSION AUTHORITY.—If the Commis-
9 sion, in consultation with appropriate Federal agen-
10 cies, identifies a grid security vulnerability that the
11 Commission determines has not adequately been ad-
12 dressed through a reliability standard developed and
13 approved under section 215, the Commission shall,
14 after notice and opportunity for comment and after
15 consultation with the Secretary, other appropriate
16 Federal agencies, and appropriate governmental au-
17 thorities in Canada and Mexico, promulgate a rule
18 or issue an order requiring implementation, by any
19 owner, operator, or user of the bulk-power system in
20 the United States, of measures to protect the bulk-
21 power system against such vulnerability. Before pro-
22 mulgating a rule or issuing an order under this
23 paragraph, the Commission shall, to the extent prac-
24 ticable in light of the urgency of the need for action
25 to address the grid security vulnerability, request

1 and consider recommendations from the Electric Re-
2 liability Organization regarding such rule or order.
3 The Commission may establish an appropriate dead-
4 line for the submission of such recommendations.

5 “(2) CERTAIN EXISTING CYBERSECURITY
6 VULNERABILITIES.—Not later than 180 days after
7 the date of enactment of this section, the Commis-
8 sion shall, after notice and opportunity for comment
9 and after consultation with the Secretary, other ap-
10 propriate Federal agencies, and appropriate govern-
11 mental authorities in Canada and Mexico, promul-
12 gate a rule or issue an order requiring the imple-
13 mentation, by any owner, user, or operator of the
14 bulk-power system in the United States, of such
15 measures as are necessary to protect the bulk-power
16 system against the vulnerabilities identified in the
17 June 21, 2007, communication to certain ‘Electricity
18 Sector Owners and Operators’ from the North
19 American Electric Reliability Corporation, acting in
20 its capacity as the Electricity Sector Information
21 and Analysis Center.

22 “(3) RESCISSION.—The Commission shall ap-
23 prove a reliability standard developed under section
24 215 that addresses a grid security vulnerability that
25 is the subject of a rule or order under paragraph (1)

1 or (2), unless the Commission determines that such
2 reliability standard does not adequately protect
3 against such vulnerability or otherwise does not sat-
4 isfy the requirements of section 215. Upon such ap-
5 proval, the Commission shall rescind the rule pro-
6 mulgated or order issued under paragraph (1) or (2)
7 addressing such vulnerability, effective upon the ef-
8 fective date of the newly approved reliability stand-
9 ard.

10 “(4) GEOMAGNETIC STORMS.—Not later than 1
11 year after the date of enactment of this section, the
12 Commission shall, after notice and an opportunity
13 for comment and after consultation with the Sec-
14 retary and other appropriate Federal agencies, issue
15 an order directing the Electric Reliability Organiza-
16 tion to submit to the Commission for approval under
17 section 215, not later than 1 year after the issuance
18 of such order, reliability standards adequate to pro-
19 tect the bulk-power system from any reasonably
20 foreseeable geomagnetic storm event. The Commis-
21 sion’s order shall specify the nature and magnitude
22 of the reasonably foreseeable events against which
23 such standards must protect. Such standards shall
24 appropriately balance the risks to the bulk-power
25 system associated with such events, including any

1 regional variation in such risks, and the costs of
2 mitigating such risks.

3 ~~“(5) LARGE TRANSFORMER AVAILABILITY.—~~

4 Not later than 1 year after the date of enactment
5 of this section, the Commission shall, after notice
6 and an opportunity for comment and after consulta-
7 tion with the Secretary and other appropriate Fed-
8 eral agencies, issue an order directing the Electric
9 Reliability Organization to submit to the Commis-
10 sion for approval under section 215, not later than
11 1 year after the issuance of such order, reliability
12 standards addressing availability of large trans-
13 formers. Such standards shall require entities that
14 own or operate large transformers to ensure, individ-
15 ually or jointly, adequate availability of large trans-
16 formers to promptly restore the reliable operation of
17 the bulk-power system in the event that any such
18 transformer is destroyed or disabled as a result of
19 a reasonably foreseeable physical or other attack or
20 geomagnetic storm event. The Commission’s order
21 shall specify the nature and magnitude of the rea-
22 sonably foreseeable attacks or events that shall pro-
23 vide the basis for such standards. Such standards
24 shall—

1 “(A) provide entities subject to the stand-
2 ards with the option of meeting such standards
3 individually or jointly; and

4 “(B) appropriately balance the risks asso-
5 ciated with a reasonably foreseeable attack or
6 event, including any regional variation in such
7 risks, and the costs of ensuring adequate avail-
8 ability of spare transformers.

9 “(d) CRITICAL DEFENSE FACILITIES.—

10 “(1) DESIGNATION.—Not later than 180 days
11 after the date of enactment of this section, the
12 President shall designate, in a written directive or
13 determination provided to the Commission, facilities
14 located in the United States (including the terri-
15 tories) that are—

16 “(A) critical to the defense of the United
17 States; and

18 “(B) vulnerable to a disruption of the sup-
19 ply of electric energy provided to such facility
20 by an external provider.

21 The number of facilities designated by such directive
22 or determination shall not exceed 100. The Presi-
23 dent may periodically revise the list of designated fa-
24 cilities through a subsequent written directive or de-
25 termination provided to the Commission, provided

1 that the total number of designated facilities at any
2 time shall not exceed 100.

3 ~~“(2) COMMISSION AUTHORITY.—If the Commis-~~
4 ~~sion identifies a defense critical electric infrastruc-~~
5 ~~ture vulnerability that the Commission, in consulta-~~
6 ~~tion with owners and operators of any facility or fa-~~
7 ~~cilities designated by the President pursuant to~~
8 ~~paragraph (1), determines has not adequately been~~
9 ~~addressed through measures undertaken by owners~~
10 ~~or operators of defense critical electric infrastruc-~~
11 ~~ture, the Commission shall, after notice and an op-~~
12 ~~portunity for comment and after consultation with~~
13 ~~the Secretary and other appropriate Federal agen-~~
14 ~~cies, promulgate a rule or issue an order requiring~~
15 ~~implementation, by any owner or operator of defense~~
16 ~~critical electric infrastructure, of measures to protect~~
17 ~~the defense critical electric infrastructure against~~
18 ~~such vulnerability. The Commission shall exempt~~
19 ~~from any such rule or order any specific defense~~
20 ~~critical electric infrastructure that the Commission~~
21 ~~determines already has been adequately protected~~
22 ~~against the identified vulnerability. The Commission~~
23 ~~shall make any such determination in consultation~~
24 ~~with the owner or operator of the facility designated~~

1 by the President pursuant to paragraph (1) that re-
2 lies upon such defense critical electric infrastructure.

3 “(3) COST RECOVERY.—An owner or operator
4 of defense critical electric infrastructure shall be re-
5 quired to take measures under paragraph (2) only to
6 the extent that the owners or operators of a facility
7 or facilities designated by the President pursuant to
8 paragraph (1) that rely upon such infrastructure
9 agree to bear the full incremental costs of compli-
10 ance with a rule promulgated or order issued under
11 paragraph (2).

12 “(e) PROTECTION OF INFORMATION.—

13 “(1) PROHIBITION OF PUBLIC DISCLOSURE OF
14 PROTECTED INFORMATION.—Protected informa-
15 tion—

16 “(A) shall be exempt from disclosure under
17 section 552(b)(3) of title 5, United States Code;
18 and

19 “(B) shall not be made available pursuant
20 to any State, local, or tribal law requiring dis-
21 closure of information or records.

22 “(2) INFORMATION SHARING.—

23 “(A) IN GENERAL.—Consistent with the
24 Controlled Unclassified Information framework
25 established by the President, the Commission

1 shall promulgate such regulations and issue
2 such orders as necessary to designate protected
3 information and to prohibit the unauthorized
4 disclosure of such protected information.

5 “(B) SHARING OF PROTECTED INFORMA-
6 TION.—The regulations promulgated and orders
7 issued pursuant to subparagraph (A) shall pro-
8 vide standards for and facilitate the appropriate
9 sharing of protected information with, between,
10 and by Federal, State, local, and tribal authori-
11 ties, the Electric Reliability Organization, re-
12 gional entities, and owners, operators, and
13 users of the bulk-power system in the United
14 States and of defense critical electric infrastruc-
15 ture. In promulgating such regulations and
16 issuing such orders, the Commission shall take
17 account of the role of State commissions in re-
18 viewing the prudence and cost of investments
19 within their respective jurisdictions. The Com-
20 mission shall consult with appropriate Canadian
21 and Mexican authorities to develop protocols for
22 the sharing of protected information with, be-
23 tween, and by appropriate Canadian and Mexi-
24 can authorities and owners, operators, and

1 users of the bulk-power system outside the
2 United States.

3 ~~“(3) SUBMISSION OF INFORMATION TO CON-~~
4 ~~GRESS.—Nothing in this section shall permit or au-~~
5 ~~thorize the withholding of information from Con-~~
6 ~~gress, any committee or subcommittee thereof, or~~
7 ~~the Comptroller General.~~

8 ~~“(4) DISCLOSURE OF NON-PROTECTED INFOR-~~
9 ~~MATION.—In implementing this section, the Com-~~
10 ~~mission shall protect from disclosure only the min-~~
11 ~~imum amount of information necessary to protect~~
12 ~~the reliability of the bulk-power system and of de-~~
13 ~~fense critical electric infrastructure. The Commission~~
14 ~~shall segregate protected information within docu-~~
15 ~~ments and electronic communications, wherever fea-~~
16 ~~sible, to facilitate disclosure of information that is~~
17 ~~not designated as protected information.~~

18 ~~“(5) DURATION OF DESIGNATION.—Informa-~~
19 ~~tion may not be designated as protected information~~
20 ~~for longer than 5 years, unless specifically redesign-~~
21 ~~ated by the Commission.~~

22 ~~“(6) REMOVAL OF DESIGNATION.—The Com-~~
23 ~~mission may remove the designation of protected in-~~
24 ~~formation, in whole or in part, from a document or~~
25 ~~electronic communication if the unauthorized diselo-~~

1 sure of such information could no longer be used to
2 impair the reliability of the bulk-power system or of
3 defense critical electric infrastructure.

4 “(7) JUDICIAL REVIEW OF DESIGNATIONS.—

5 Notwithstanding subsection (f) of this section or sec-
6 tion 313, a person or entity may seek judicial review
7 of a determination by the Commission concerning
8 the designation of protected information under this
9 subsection exclusively in the district court of the
10 United States in the district in which the complain-
11 ant resides, or has his principal place of business, or
12 in the District of Columbia. In such a case the court
13 shall determine the matter de novo, and may exam-
14 ine the contents of documents or electronic commu-
15 nications designated as protected information in
16 camera to determine whether such documents or any
17 part thereof were improperly designated as protected
18 information. The burden is on the Commission to
19 sustain its designation.

20 “(f) JUDICIAL REVIEW.—The Commission shall act

21 expeditiously to resolve all applications for rehearing of
22 orders issued pursuant to this section that are filed under
23 section 313(a). Any party seeking judicial review pursuant
24 to section 313 of an order issued under this section may

1 obtain such review only in the United States Court of Ap-
2 peals for the District of Columbia Circuit.

3 “(g) PROVISION OF ASSISTANCE TO INDUSTRY IN
4 MEETING GRID SECURITY PROTECTION NEEDS.—

5 “(1) EXPERTISE AND RESOURCES.—The Sec-
6 retary shall establish a program, in consultation with
7 other appropriate Federal agencies, to develop tech-
8 nical expertise in the protection of systems for the
9 generation, transmission, and distribution of electric
10 energy against geomagnetic storms or malicious acts
11 using electronic communications or electromagnetic
12 pulse that would pose a substantial risk of interrup-
13 tion to the operation of those electronic devices or
14 communications networks, including hardware, soft-
15 ware, and data, that are essential to the reliability
16 of such systems. Such program shall include the
17 identification and development of appropriate tech-
18 nical and electronic resources, including hardware,
19 software, and system equipment.

20 “(2) SHARING EXPERTISE.—As appropriate,
21 the Secretary shall offer to share technical expertise
22 developed under the program under paragraph (1),
23 through consultation and assistance, with owners,
24 operators, or users of systems for the generation,
25 transmission, or distribution of electric energy lo-

1 eated in the United States and with State commis-
2 sions. In offering such support, the Secretary shall
3 assign higher priority to systems serving facilities
4 designated by the President pursuant to subsection
5 (d)(1) and other critical-infrastructure facilities,
6 which the Secretary shall identify in consultation
7 with the Commission and other appropriate Federal
8 agencies.

9 ~~“(3) SECURITY CLEARANCES AND COMMUNICA-~~
10 ~~TION.—~~The Secretary shall facilitate and, to the ex-
11 tent practicable, expedite the acquisition of adequate
12 security clearances by key personnel of any entity
13 subject to the requirements of this section to enable
14 optimum communication with Federal agencies re-
15 garding grid security threats, grid security
16 vulnerabilities, and defense critical electric infra-
17 structure vulnerabilities. The Secretary, the Com-
18 mission, and other appropriate Federal agencies
19 shall, to the extent practicable and consistent with
20 their obligations to protect classified and protected
21 information, share timely actionable information re-
22 garding grid security threats, grid security
23 vulnerabilities, and defense critical electric infra-
24 structure vulnerabilities with appropriate key per-
25 sonnel of owners, operators, and users of the bulk-

1 power system and of defense critical electric infra-
2 structure.

3 “(h) CERTAIN FEDERAL ENTITIES.—For the 11-year
4 period commencing on the date of enactment of this sec-
5 tion, the Tennessee Valley Authority and the Bonneville
6 Power Administration shall be exempt from any require-
7 ment under subsection (b) or (c) (except for any require-
8 ment addressing a malicious act using electronic commu-
9 nication).”.

10 (b) CONFORMING AMENDMENTS.—

11 (1) JURISDICTION.—Section 201(b)(2) of the
12 Federal Power Act (16 U.S.C. 824(b)(2)) is amend-
13 ed by inserting “215A,” after “215,” each place it
14 appears.

15 (2) PUBLIC UTILITY.—Section 201(c) of the
16 Federal Power Act (16 U.S.C. 824(c)) is amended
17 by inserting “215A,” after “215,”.

18 **SEC. 3. BUDGETARY COMPLIANCE.**

19 The budgetary effects of this Act, for the purpose of
20 complying with the Statutory Pay-As-You-Go Act of 2010,
21 shall be determined by reference to the latest statement
22 titled “Budgetary Effects of PAYGO Legislation” for this
23 Act, submitted for printing in the Congressional Record
24 by the Chairman of the House Budget Committee, pro-

1 vided that such statement has been submitted prior to the
2 vote on passage.

3 **SECTION 1. CRITICAL ELECTRIC INFRASTRUCTURE.**

4 *Part II of the Federal Power Act (16 U.S.C. 824 et*
5 *seq.) is amended by adding at the end the following:*

6 **“SEC. 224. CRITICAL ELECTRIC INFRASTRUCTURE.**

7 *“(a) DEFINITIONS.—In this section:*

8 *“(1) CRITICAL ELECTRIC INFRASTRUCTURE.—*

9 *The term ‘critical electric infrastructure’ means sys-*
10 *tems and assets, whether physical or virtual, used for*
11 *the generation, transmission, or distribution of elec-*
12 *tric energy affecting interstate commerce that, as de-*
13 *termined by the Commission or the Secretary (as ap-*
14 *propriate), are so vital to the United States that the*
15 *incapacity or destruction of the systems and assets*
16 *would have a debilitating impact on national secu-*
17 *rity, national economic security, or national public*
18 *health or safety.*

19 *“(2) CRITICAL ELECTRIC INFRASTRUCTURE IN-*

20 *FORMATION.—The term ‘critical electric infrastruc-*

21 *ture information’ means critical infrastructure infor-*

22 *mation relating to critical electric infrastructure.*

23 *“(3) CRITICAL INFRASTRUCTURE INFORMA-*

24 *TION.—The term ‘critical infrastructure information’*

25 *has the meaning given the term in section 212 of the*

1 *Critical Infrastructure Information Act of 2002 (6*
2 *U.S.C. 131).*

3 “(4) *CYBER SECURITY THREAT.*—*The term*
4 *‘cyber security threat’ means the imminent danger of*
5 *an act that disrupts, attempts to disrupt, or poses a*
6 *significant risk of disrupting the operation of pro-*
7 *grammable electronic devices or communications net-*
8 *works (including hardware, software, and data) essen-*
9 *tial to the reliable operation of critical electric infra-*
10 *structure.*

11 “(5) *CYBER SECURITY VULNERABILITY.*—*The*
12 *term ‘cyber security vulnerability’ means a weakness*
13 *or flaw in the design or operation of any program-*
14 *mable electronic device or communication network*
15 *that exposes critical electric infrastructure to a cyber*
16 *security threat.*

17 “(6) *SECRETARY.*—*The term ‘Secretary’ means*
18 *the Secretary of Energy.*

19 “(b) *AUTHORITY OF COMMISSION.*—

20 “(1) *IN GENERAL.*—*The Commission shall issue*
21 *such rules or orders as are necessary to protect crit-*
22 *ical electric infrastructure from cyber security*
23 *vulnerabilities.*

24 “(2) *EXPEDITED PROCEDURES.*—*The Commis-*
25 *sion may issue a rule or order without prior notice*

1 *or hearing if the Commission determines the rule or*
2 *order must be issued immediately to protect critical*
3 *electric infrastructure from a cyber security vulner-*
4 *ability.*

5 *“(3) CONSULTATION.—Before issuing a rule or*
6 *order under paragraph (2), to the extent practicable,*
7 *taking into account the nature of the threat and ur-*
8 *gency of need for action, the Commission shall consult*
9 *with the entities described in subsection (e)(1) and*
10 *with officials at other Federal agencies, as appro-*
11 *priate, regarding implementation of actions that will*
12 *effectively address the identified cyber security*
13 *vulnerabilities.*

14 *“(4) TERMINATION OF RULES OR ORDERS.—A*
15 *rule or order issued to address a cyber security vul-*
16 *nerability under this subsection shall expire on the ef-*
17 *fective date of a standard developed and approved*
18 *pursuant to section 215 to address the cyber security*
19 *vulnerability.*

20 *“(c) EMERGENCY AUTHORITY OF SECRETARY.—*

21 *“(1) IN GENERAL.—If the Secretary determines*
22 *that immediate action is necessary to protect critical*
23 *electric infrastructure from a cyber security threat,*
24 *the Secretary may require, by order, with or without*
25 *notice, persons subject to the jurisdiction of the Com-*

1 *mission under this section to take such actions as the*
2 *Secretary determines will best avert or mitigate the*
3 *cyber security threat.*

4 *“(2) COORDINATION WITH CANADA AND MEX-*
5 *ICO.—In exercising the authority granted under this*
6 *subsection, the Secretary is encouraged to consult and*
7 *coordinate with the appropriate officials in Canada*
8 *and Mexico responsible for the protection of cyber se-*
9 *curity of the interconnected North American elec-*
10 *tricity grid.*

11 *“(3) CONSULTATION.—Before exercising the au-*
12 *thority granted under this subsection, to the extent*
13 *practicable, taking into account the nature of the*
14 *threat and urgency of need for action, the Secretary*
15 *shall consult with the entities described in subsection*
16 *(e)(1) and with officials at other Federal agencies, as*
17 *appropriate, regarding implementation of actions*
18 *that will effectively address the identified cyber secu-*
19 *rity threat.*

20 *“(4) COST RECOVERY.—The Commission shall*
21 *establish a mechanism that permits public utilities to*
22 *recover prudently incurred costs required to imple-*
23 *ment immediate actions ordered by the Secretary*
24 *under this subsection.*

1 “(d) *DURATION OF EXPEDITED OR EMERGENCY*
2 *RULES OR ORDERS.*—Any rule or order issued by the Com-
3 mission without prior notice or hearing under subsection
4 (b)(2) or any order issued by the Secretary under subsection
5 (c) shall remain effective for not more than 90 days unless,
6 during the 90 day-period, the Commission—

7 “(1) gives interested persons an opportunity to
8 submit written data, views, or arguments (with or
9 without opportunity for oral presentation); and

10 “(2) affirms, amends, or repeals the rule or
11 order.

12 “(e) *JURISDICTION.*—

13 “(1) *IN GENERAL.*—Notwithstanding section 201,
14 this section shall apply to any entity that owns, con-
15 trols, or operates critical electric infrastructure.

16 “(2) *COVERED ENTITIES.*—

17 “(A) *IN GENERAL.*—An entity described in
18 paragraph (1) shall be subject to the jurisdiction
19 of the Commission for purposes of—

20 “(i) carrying out this section; and

21 “(ii) applying the enforcement authori-
22 ties of this Act with respect to this section.

23 “(B) *JURISDICTION.*—This subsection shall
24 not make an electric utility or any other entity

1 *subject to the jurisdiction of the Commission for*
2 *any other purpose.*

3 “(3) *ALASKA AND HAWAII EXCLUDED.—Except*
4 *as provided in subsection (f), nothing in this section*
5 *shall apply in the State of Alaska or Hawaii.*

6 “(f) *DEFENSE FACILITIES.—Not later than 1 year*
7 *after the date of enactment of this section, the Secretary*
8 *of Defense shall prepare, in consultation with the Secretary,*
9 *the States of Alaska and Hawaii, the Territory of Guam,*
10 *and the electric utilities that serve national defense facilities*
11 *in those States and Territory, a comprehensive plan that*
12 *identifies the emergency measures or actions that will be*
13 *taken to protect the reliability of the electric power supply*
14 *of the national defense facilities located in those States and*
15 *Territory in the event of an imminent cybersecurity threat.*

16 “(g) *PROTECTION OF CRITICAL ELECTRIC INFRA-*
17 *STRUCTURE INFORMATION.—*

18 “(1) *IN GENERAL.—Section 214 of the Critical*
19 *Infrastructure Information Act of 2002 (6 U.S.C.*
20 *133) shall apply to critical electric infrastructure in-*
21 *formation submitted to the Commission or the Sec-*
22 *retary under this section to the same extent as that*
23 *section applies to critical infrastructure information*
24 *voluntarily submitted to the Department of Homeland*
25 *Security under that Act (6 U.S.C. 131 et seq.).*

1 “(2) *RULES PROHIBITING DISCLOSURE.*—Not-
2 *withstanding section 552 of title 5, United States*
3 *Code, the Secretary and the Commission shall pre-*
4 *scribe regulations prohibiting disclosure of informa-*
5 *tion obtained or developed in ensuring cyber security*
6 *under this section if the Secretary or Commission, as*
7 *appropriate, decides disclosing the information would*
8 *be detrimental to the security of critical electric infra-*
9 *structure.*

10 “(3) *PROCEDURES FOR SHARING INFORMA-*
11 *TION.*—

12 “(A) *IN GENERAL.*—*The Secretary and the*
13 *Commission shall establish procedures on the re-*
14 *lease of critical infrastructure information to en-*
15 *tities subject to this section, to the extent nec-*
16 *essary to enable the entities to implement rules*
17 *or orders of the Commission or the Secretary.*

18 “(B) *REQUIREMENTS.*—*The procedures*
19 *shall—*

20 “(i) *limit the dissemination of infor-*
21 *mation described in subparagraph (A) to*
22 *ensure that the information is not used for*
23 *an unauthorized purpose;*

24 “(ii) *ensure the security and confiden-*
25 *tiality of the information;*

1 “(iii) protect the constitutional and
2 statutory rights of any individuals who are
3 subjects of the information; and

4 “(iv) provide data integrity through
5 the timely removal and destruction of obso-
6 lete or erroneous names and information.”.

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[Report No. 111-331]

AN ACT

To amend the Federal Power Act to protect the bulk-power system and electric infrastructure critical to the defense of the United States against cybersecurity and other threats and vulnerabilities.

SEPTEMBER 27, 2010

Reported with an amendment