H. R. 4257

IN THE SENATE OF THE UNITED STATES

May 7, 2012

Received; read twice and referred to the Committee on Homeland Security and Governmental Affairs

AN ACT

To amend chapter 35 of title 44, United States Code, to revise requirements relating to Federal information security, and for other purposes.

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

1 SECTION 1. SHORT TITLE.

- This Act may be cited as the "Federal Information
- 3 Security Amendments Act of 2012".
- 4 SEC. 2. COORDINATION OF FEDERAL INFORMATION POL-
- 5 ICY.
- 6 Chapter 35 of title 44, United States Code, is amend-
- 7 ed by striking subchapters II and III and inserting the
- 8 following:
- 9 "SUBCHAPTER II—INFORMATION SECURITY
- 10 **"§ 3551. Purposes**
- "The purposes of this subchapter are to—
- "(1) provide a comprehensive framework for en-
- suring the effectiveness of information security con-
- trols over information resources that support Fed-
- eral operations and assets;
- 16 "(2) recognize the highly networked nature of
- the current Federal computing environment and pro-
- vide effective Governmentwide management and
- 19 oversight of the related information security risks,
- 20 including coordination of information security efforts
- 21 throughout the civilian, national security, and law
- 22 enforcement communities assets;
- 23 "(3) provide for development and maintenance
- of minimum controls required to protect Federal in-
- 25 formation and information systems;

- "(4) provide a mechanism for improved oversight of Federal agency information security programs and systems through a focus on automated and continuous monitoring of agency information systems and regular threat assessments;
 - "(5) acknowledge that commercially developed information security products offer advanced, dynamic, robust, and effective information security solutions, reflecting market solutions for the protection of critical information systems important to the national defense and economic security of the Nation that are designed, built, and operated by the private sector; and
- "(6) recognize that the selection of specific technical hardware and software information security solutions should be left to individual agencies from among commercially developed products.

18 **"§ 3552. Definitions**

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- 19 "(a) Section 3502 Definitions.—Except as pro-
- 20 vided under subsection (b), the definitions under section
- 21 3502 shall apply to this subchapter.
- 22 "(b) Additional Definitions.—In this subchapter:
- 23 "(1) ADEQUATE SECURITY.—The term 'ade-
- 24 quate security' means security commensurate with
- 25 the risk and magnitude of the harm resulting from

- the unauthorized access to or loss, misuse, destruction, or modification of information.
 - "(2) Automated and continuous monitoring' means monitoring, with minimal human involvement, through an uninterrupted, ongoing real time, or near real-time process used to determine if the complete set of planned, required, and deployed security controls within an information system continue to be effective over time with rapidly changing information technology and threat development.
 - "(3) Incident.—The term 'incident' means an occurrence that actually or potentially jeopardizes the confidentiality, integrity, or availability of an information system, or the information the system processes, stores, or transmits or that constitutes a violation or imminent threat of violation of security policies, security procedures, or acceptable use policies.
 - "(4) Information security' means protecting information and information systems from unauthorized access, use, disclosure, disruption, modification, or destruction in order to provide—

1	"(A) integrity, which means guarding
2	against improper information modification or
3	destruction, and includes ensuring information
4	nonrepudiation and authenticity;
5	"(B) confidentiality, which means pre-
6	serving authorized restrictions on access and
7	disclosure, including means for protecting per-
8	sonal privacy and proprietary information; and
9	"(C) availability, which means ensuring
10	timely and reliable access to and use of infor-
11	mation.
12	"(5) Information system.—The term infor-
13	mation system' means a discrete set of information
14	resources organized for the collection, processing,
15	maintenance, use, sharing, dissemination, or disposi-
16	tion of information and includes—
17	"(A) computers and computer networks;
18	"(B) ancillary equipment;
19	"(C) software, firmware, and related proce-
20	dures;
21	"(D) services, including support services;
22	and
23	"(E) related resources.

1	"(6) Information technology.—The term
2	'information technology' has the meaning given that
3	term in section 11101 of title 40.
4	"(7) National Security System.—
5	"(A) Definition.—The term 'national se-
6	curity system' means any information system
7	(including any telecommunications system) used
8	or operated by an agency or by a contractor of
9	an agency, or other organization on behalf of an
10	agency—
11	"(i) the function, operation, or use of
12	which—
13	"(I) involves intelligence activi-
14	ties;
15	"(II) involves cryptologic activi-
16	ties related to national security;
17	"(III) involves command and
18	control of military forces;
19	"(IV) involves equipment that is
20	an integral part of a weapon or weap-
21	ons system; or
22	"(V) subject to subparagraph
23	(B), is critical to the direct fulfillment
24	of military or intelligence missions; or

1	"(ii) is protected at all times by proce-
2	dures established for information that have
3	been specifically authorized under criteria
4	established by an Executive order or an
5	Act of Congress to be kept classified in the
6	interest of national defense or foreign pol-
7	iey.
8	"(B) EXCEPTION.—Subparagraph
9	(A)(i)(V) does not include a system that is to
10	be used for routine administrative and business
11	applications (including payroll, finance, logis-
12	tics, and personnel management applications).
13	"(8) THREAT ASSESSMENT.—The term 'threat
14	assessment' means the formal description and eval-
15	uation of threat to an information system.
16	"§ 3553. Authority and functions of the Director
17	"(a) In General.—The Director shall oversee agen-
18	cy information security policies and practices, including—
19	"(1) developing and overseeing the implementa-
20	tion of policies, principles, standards, and guidelines
21	on information security, including through ensuring
22	timely agency adoption of and compliance with
23	standards promulgated under section 11331 of title
24	40;

1	"(2) requiring agencies, consistent with the
2	standards promulgated under such section 11331
3	and the requirements of this subchapter, to identify
4	and provide information security protections com-
5	mensurate with the risk and magnitude of the harm
6	resulting from the unauthorized access, use, disclo-
7	sure, disruption, modification, or destruction of—
8	"(A) information collected or maintained
9	by or on behalf of an agency; or
10	"(B) information systems used or operated
11	by an agency or by a contractor of an agency
12	or other organization on behalf of an agency;
13	"(3) coordinating the development of standards
14	and guidelines under section 20 of the National In-
15	stitute of Standards and Technology Act (15 U.S.C.
16	278g-3) with agencies and offices operating or exer-
17	cising control of national security systems (including
18	the National Security Agency) to assure, to the max-
19	imum extent feasible, that such standards and
20	guidelines are complementary with standards and
21	guidelines developed for national security systems;
22	"(4) overseeing agency compliance with the re-
23	quirements of this subchapter, including through

any authorized action under section 11303 of title

1	40, to enforce accountability for compliance with
2	such requirements;
3	"(5) reviewing at least annually, and approving
4	or disapproving, agency information security pro-
5	grams required under section 3554(b);
6	"(6) coordinating information security policies
7	and procedures with related information resources
8	management policies and procedures;
9	"(7) overseeing the operation of the Federal in-
10	formation security incident center required under
11	section 3555; and
12	"(8) reporting to Congress no later than March
13	1 of each year on agency compliance with the re-
14	quirements of this subchapter, including—
15	"(A) an assessment of the development,
16	promulgation, and adoption of, and compliance
17	with, standards developed under section 20 of
18	the National Institute of Standards and Tech-
19	nology Act (15 U.S.C. 278g-3) and promul-
20	gated under section 11331 of title 40;
21	"(B) significant deficiencies in agency in-
22	formation security practices;
23	"(C) planned remedial action to address
24	such deficiencies; and

- 1 "(D) a summary of, and the views of the
- 2 Director on, the report prepared by the Na-
- 3 tional Institute of Standards and Technology
- 4 under section 20(d)(10) of the National Insti-
- 5 tute of Standards and Technology Act (15
- 6 U.S.C. 278g-3).
- 7 "(b) NATIONAL SECURITY SYSTEMS.—Except for the
- 8 authorities described in paragraphs (4) and (8) of sub-
- 9 section (a), the authorities of the Director under this sec-
- 10 tion shall not apply to national security systems.
- 11 "(c) Department of Defense and Central In-
- 12 TELLIGENCE AGENCY SYSTEMS.—(1) The authorities of
- 13 the Director described in paragraphs (1) and (2) of sub-
- 14 section (a) shall be delegated to the Secretary of Defense
- 15 in the case of systems described in paragraph (2) and to
- 16 the Director of Central Intelligence in the case of systems
- 17 described in paragraph (3).
- 18 "(2) The systems described in this paragraph are sys-
- 19 tems that are operated by the Department of Defense, a
- 20 contractor of the Department of Defense, or another enti-
- 21 ty on behalf of the Department of Defense that processes
- 22 any information the unauthorized access, use, disclosure,
- 23 disruption, modification, or destruction of which would
- 24 have a debilitating impact on the mission of the Depart-
- 25 ment of Defense.

1	"(3) The systems described in this paragraph are sys-
2	tems that are operated by the Central Intelligence Agency,
3	a contractor of the Central Intelligence Agency, or another
4	entity on behalf of the Central Intelligence Agency that
5	processes any information the unauthorized access, use,
6	disclosure, disruption, modification, or destruction of
7	which would have a debilitating impact on the mission of
8	the Central Intelligence Agency.
9	"§ 3554. Agency responsibilities
10	"(a) In General.—The head of each agency shall—
11	"(1) be responsible for—
12	"(A) providing information security protec-
13	tions commensurate with the risk and mag-
14	nitude of the harm resulting from unauthorized
15	access, use, disclosure, disruption, modification,
16	or destruction of—
17	"(i) information collected or main-
18	tained by or on behalf of the agency; and
19	"(ii) information systems used or op-
20	erated by an agency or by a contractor of
21	an agency or other organization on behalf
22	of an agency;
23	"(B) complying with the requirements of
24	this subchapter and related policies, procedures,
25	standards, and guidelines, including—

1	"(i) information security standards
2	and guidelines promulgated under section
3	11331 of title 40 and section 20 of the Na-
4	tional Institute of Standards and Tech-
5	nology Act (15 U.S.C. 278g-3);
6	"(ii) information security standards
7	and guidelines for national security sys-
8	tems issued in accordance with law and as
9	directed by the President; and
10	"(iii) ensuring the standards imple-
11	mented for information systems and na-
12	tional security systems of the agency are
13	complementary and uniform, to the extent
14	practicable;
15	"(C) ensuring that information security
16	management processes are integrated with
17	agency strategic and operational planning and
18	budget processes, including policies, procedures,
19	and practices described in subsection $(e)(2)$;
20	"(D) as appropriate, maintaining secure
21	facilities that have the capability of accessing,
22	sending, receiving, and storing classified infor-
23	mation;
24	"(E) maintaining a sufficient number of
25	personnel with security clearances, at the ap-

1	propriate levels, to access, send, receive and
2	analyze classified information to carry out the
3	responsibilities of this subchapter; and
4	"(F) ensuring that information security
5	performance indicators and measures are in-
6	cluded in the annual performance evaluations of
7	all managers, senior managers, senior executive
8	service personnel, and political appointees;
9	"(2) ensure that senior agency officials provide
10	information security for the information and infor-
11	mation systems that support the operations and as-
12	sets under their control, including through—
13	"(A) assessing the risk and magnitude of
14	the harm that could result from the unauthor-
15	ized access, use, disclosure, disruption, modi-
16	fication, or destruction of such information or
17	information system;
18	"(B) determining the levels of information
19	security appropriate to protect such information
20	and information systems in accordance with
21	policies, principles, standards, and guidelines
22	promulgated under section 11331 of title 40
23	and section 20 of the National Institute of

Standards and Technology Act (15 U.S.C.

1	278g-3) for information security classifications
2	and related requirements;
3	"(C) implementing policies and procedures
4	to cost effectively reduce risks to an acceptable
5	level;
6	"(D) with a frequency sufficient to support
7	risk-based security decisions, testing and evalu-
8	ating information security controls and tech-
9	niques to ensure that such controls and tech-
10	niques are effectively implemented and oper-
11	ated; and
12	"(E) with a frequency sufficient to support
13	risk-based security decisions, conducting threat
14	assessments by monitoring information systems,
15	identifying potential system vulnerabilities, and
16	reporting security incidents in accordance with
17	paragraph (3)(A)(v);
18	"(3) delegate to the Chief Information Officer
19	or equivalent (or a senior agency official who reports
20	to the Chief Information Officer or equivalent), who
21	is designated as the 'Chief Information Security Of-
22	ficer', the authority and primary responsibility to de-
23	velop, implement, and oversee an agencywide infor-

mation security program to ensure and enforce com-

1	pliance with the requirements imposed on the agency
2	under this subchapter, including—
3	"(A) overseeing the establishment and
4	maintenance of a security operations capability
5	that through automated and continuous moni-
6	toring, when possible, can—
7	"(i) detect, report, respond to, con-
8	tain, and mitigate incidents that impair in-
9	formation security and agency information
10	systems, in accordance with policy provided
11	by the Director;
12	"(ii) commensurate with the risk to
13	information security, monitor and mitigate
14	the vulnerabilities of every information sys-
15	tem within the agency;
16	"(iii) continually evaluate risks posed
17	to information collected or maintained by
18	or on behalf of the agency and information
19	systems and hold senior agency officials
20	accountable for ensuring information secu-
21	rity;
22	"(iv) collaborate with the Director and
23	appropriate public and private sector secu-
24	rity operations centers to detect, report, re-
25	spond to, contain, and mitigate incidents

1	that impact the security of information
2	and information systems that extend be-
3	yond the control of the agency; and
4	"(v) report any incident described
5	under clauses (i) and (ii) to the Federal in-
6	formation security incident center, to other
7	appropriate security operations centers,
8	and to the Inspector General of the agen-
9	cy, to the extent practicable, within 24
10	hours after discovery of the incident, but
11	no later than 48 hours after such dis-
12	covery;
13	"(B) developing, maintaining, and over-
14	seeing an agencywide information security pro-
15	gram as required by subsection (b);
16	"(C) developing, maintaining, and over-
17	seeing information security policies, procedures,
18	and control techniques to address all applicable
19	requirements, including those issued under sec-
20	tion 11331 of title 40;
21	"(D) training and overseeing personnel
22	with significant responsibilities for information
23	security with respect to such responsibilities;
24	and

1	"(E) assisting senior agency officials con-
2	cerning their responsibilities under paragraph
3	(2);
4	"(4) ensure that the agency has a sufficient
5	number of trained and cleared personnel to assist
6	the agency in complying with the requirements of
7	this subchapter, other applicable laws, and related
8	policies, procedures, standards, and guidelines;
9	"(5) ensure that the Chief Information Security
10	Officer, in consultation with other senior agency offi-
11	cials, reports periodically, but not less than annually,
12	to the agency head on—
13	"(A) the effectiveness of the agency infor-
14	mation security program;
15	"(B) information derived from automated
16	and continuous monitoring, when possible, and
17	threat assessments; and
18	"(C) the progress of remedial actions;
19	"(6) ensure that the Chief Information Security
20	Officer possesses the necessary qualifications, includ-
21	ing education, training, experience, and the security
22	clearance required to administer the functions de-
23	scribed under this subchapter; and has information
24	security duties as the primary duty of that official;
25	and

1 "(7) ensure that components of that agency es-2 tablish and maintain an automated reporting mechanism that allows the Chief Information Security Of-3 ficer with responsibility for the entire agency, and all 5 components thereof, to implement, monitor, and hold 6 senior agency officers accountable for the implemen-7 tation of appropriate security policies, procedures, 8 and controls of agency components. 9 "(b) AGENCY PROGRAM.—Each agency shall develop, 10 document, and implement an agencywide information security program, approved by the Director and consistent 12 with components across and within agencies, to provide information security for the information and information systems that support the operations and assets of the 14 15 agency, including those provided or managed by another agency, contractor, or other source, that includes— 16 "(1) automated and continuous monitoring, 17 18 19

when possible, of the risk and magnitude of the harm that could result from the disruption or unauthorized access, use, disclosure, modification, or destruction of information and information systems that support the operations and assets of the agency;

"(2) consistent with guidance developed under section 11331 of title 40, vulnerability assessments

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1	and penetration tests commensurate with the risk
2	posed to agency information systems;
3	"(3) policies and procedures that—
4	"(A) cost effectively reduce information se-
5	curity risks to an acceptable level;
6	"(B) ensure compliance with—
7	"(i) the requirements of this sub-
8	chapter;
9	"(ii) policies and procedures as may
10	be prescribed by the Director, and infor-
11	mation security standards promulgated
12	pursuant to section 11331 of title 40;
13	"(iii) minimally acceptable system
14	configuration requirements, as determined
15	by the Director; and
16	"(iv) any other applicable require-
17	ments, including—
18	"(I) standards and guidelines for
19	national security systems issued in ac-
20	cordance with law and as directed by
21	the President; and
22	"(II) the National Institute of
23	Standards and Technology standards
24	and guidance;

1	"(C) develop, maintain, and oversee infor-
2	mation security policies, procedures, and control
3	techniques to address all applicable require-
4	ments, including those promulgated pursuant
5	section 11331 of title 40; and
6	"(D) ensure the oversight and training of
7	personnel with significant responsibilities for in-
8	formation security with respect to such respon-
9	sibilities;
10	"(4) with a frequency sufficient to support risk-
11	based security decisions, automated and continuous
12	monitoring, when possible, for testing and evaluation
13	of the effectiveness and compliance of information
14	security policies, procedures, and practices, includ-
15	ing—
16	"(A) controls of every information system
17	identified in the inventory required under sec-
18	tion $3505(e)$; and
19	"(B) controls relied on for an evaluation
20	under this section;
21	"(5) a process for planning, implementing, eval-
22	uating, and documenting remedial action to address
23	any deficiencies in the information security policies,
24	procedures, and practices of the agency;

1	"(6) with a frequency sufficient to support risk-
2	based security decisions, automated and continuous
3	monitoring, when possible, for detecting, reporting,
4	and responding to security incidents, consistent with
5	standards and guidelines issued by the National In-
6	stitute of Standards and Technology, including—
7	"(A) mitigating risks associated with such
8	incidents before substantial damage is done;
9	"(B) notifying and consulting with the
10	Federal information security incident center
11	and other appropriate security operations re-
12	sponse centers; and
13	"(C) notifying and consulting with, as ap-
14	propriate—
15	"(i) law enforcement agencies and rel-
16	evant Offices of Inspectors General; and
17	"(ii) any other agency, office, or enti-
18	ty, in accordance with law or as directed
19	by the President; and
20	"(7) plans and procedures to ensure continuity
21	of operations for information systems that support
22	the operations and assets of the agency.
23	"(c) Agency Reporting.—Each agency shall—
24	"(1) submit an annual report on the adequacy
25	and effectiveness of information security policies,

1	procedures, and practices, and compliance with the
2	requirements of this subchapter, including compli-
3	ance with each requirement of subsection (b) to—
4	"(A) the Director;
5	"(B) the Committee on Homeland Security
6	and Governmental Affairs of the Senate;
7	"(C) the Committee on Oversight and Gov-
8	ernment Reform of the House of Representa-
9	tives;
10	"(D) other appropriate authorization and
11	appropriations committees of Congress; and
12	"(E) the Comptroller General;
13	"(2) address the adequacy and effectiveness of
14	information security policies, procedures, and prac-
15	tices in plans and reports relating to—
16	"(A) annual agency budgets;
17	"(B) information resources management of
18	this subchapter;
19	"(C) information technology management
20	under this chapter;
21	"(D) program performance under sections
22	1105 and 1115 through 1119 of title 31, and
23	sections 2801 and 2805 of title 39;
24	"(E) financial management under chapter
25	9 of title 31, and the Chief Financial Officers

1	Act of 1990 (31 U.S.C. 501 note; Public Law
2	101–576);
3	"(F) financial management systems under
4	the Federal Financial Management Improve-
5	ment Act of 1996 (31 U.S.C. 3512 note); and
6	"(G) internal accounting and administra-
7	tive controls under section 3512 of title 31; and
8	"(3) report any significant deficiency in a pol-
9	icy, procedure, or practice identified under para-
10	graph (1) or (2)—
11	"(A) as a material weakness in reporting
12	under section 3512 of title 31; and
13	"(B) if relating to financial management
14	systems, as an instance of a lack of substantial
15	compliance under the Federal Financial Man-
16	agement Improvement Act of 1996 (31 U.S.C.
17	3512 note).
18	" \S 3555. Federal information security incident center
19	"(a) In General.—The Director shall ensure the
20	operation of a central Federal information security inci-
21	dent center to—
22	"(1) provide timely technical assistance to oper-
23	ators of agency information systems regarding secu-
24	rity incidents, including guidance on detecting and
25	handling information security incidents;

- 1 "(2) compile and analyze information about in-2 cidents that threaten information security;
- 3 "(3) inform operators of agency information 4 systems about current and potential information se-5 curity threats, and vulnerabilities; and
- 6 "(4) consult with the National Institute of 7 Standards and Technology, agencies or offices oper-8 ating or exercising control of national security sys-9 tems (including the National Security Agency), and 10 such other agencies or offices in accordance with law 11 and as directed by the President regarding informa-12 tion security incidents and related matters.
- "(b) National Security Systems.—Each agency operating or exercising control of a national security system shall share information about information security incidents, threats, and vulnerabilities with the Federal information security incident center to the extent consistent with standards and guidelines for national security systems, issued in accordance with law and as directed by the President.
- "(c) REVIEW AND APPROVAL.—The Director shall review and approve the policies, procedures, and guidance established in this subchapter to ensure that the incident center has the capability to effectively and efficiently detect, correlate, respond to, contain, mitigate, and reme-

- 1 diate incidents that impair the adequate security of the
- 2 information systems of more than one agency. To the ex-
- 3 tent practicable, the capability shall be continuous and
- 4 technically automated.

5 "§ 3556. National security systems

- 6 "The head of each agency operating or exercising
- 7 control of a national security system shall be responsible
- 8 for ensuring that the agency—
- 9 "(1) provides information security protections
- 10 commensurate with the risk and magnitude of the
- 11 harm resulting from the unauthorized access, use,
- disclosure, disruption, modification, or destruction of
- the information contained in such system;
- 14 "(2) implements information security policies
- and practices as required by standards and guide-
- lines for national security systems, issued in accord-
- ance with law and as directed by the President; and
- 18 "(3) complies with the requirements of this sub-
- chapter.".

20 SEC. 3. TECHNICAL AND CONFORMING AMENDMENTS.

- 21 (a) Table of Sections in Title 44.—The table
- 22 of sections for chapter 35 of title 44, United States Code,
- 23 is amended by striking the matter relating to subchapters
- 24 II and III and inserting the following:

"SUBCHAPTER II—INFORMATION SECURITY

[&]quot;Sec.

"3551. Purposes.

	"3552. Definitions. "3553. Authority and functions of the Director. "3554. Agency responsibilities. "3555. Federal information security incident center. "3556. National security systems.".
1	(b) Other References.—
2	(1) Section 1001(c)(1)(A) of the Homeland Se-
3	curity Act of 2002 (6 U.S.C. 511(e)(1)(A)) is
4	amended by striking "section 3532(3)" and insert-
5	ing "section 3552(b)".
6	(2) Section 2222(j)(5) of title 10, United States
7	Code, is amended by striking "section 3542(b)(2)"
8	and inserting "section 3552(b)".
9	(3) Section 2223(c)(3) of title 10, United
10	States Code, is amended, by striking "section
11	3542(b)(2)" and inserting "section 3552(b)".
12	(4) Section 2315 of title 10, United States
13	Code, is amended by striking "section 3542(b)(2)"
14	and inserting "section 3552(b)".
15	(5) Section 20 of the National Institute of
16	Standards and Technology Act (15 U.S.C. 278g–3)
17	is amended—
18	(A) in subsections $(a)(2)$ and $(e)(5)$, by
19	striking "section 3532(b)(2)" and inserting
20	"section 3552(b)"; and
21	(B) in subsection (e)(2), by striking "sec-
2.2.	tion 3532(1)" and inserting "section 3552(b)"

- 1 (6) Section 8(d)(1) of the Cyber Security Re-
- 2 search and Development Act (15 U.S.C. 7406(d)(1))
- 3 is amended by striking "section 3534(b)" and in-
- 4 serting "section 3554(b)".

5 SEC. 4. NO ADDITIONAL FUNDS AUTHORIZED.

- 6 No additional funds are authorized to carry out the
- 7 requirements of section 3554 of title 44, United States
- 8 Code, as amended by section 2 of this Act. Such require-
- 9 ments shall be carried out using amounts otherwise au-
- 10 thorized or appropriated.
- 11 SEC. 5. EFFECTIVE DATE.
- 12 This Act (including the amendments made by this
- 13 Act) shall take effect 30 days after the date of the enact-
- 14 ment of this Act.

Passed the House of Representatives April 26, 2012.

Attest:

KAREN L. HAAS,

Clerk.