115TH CONGRESS 2D SESSION **S**.

> To amend the Help America Vote Act of 2002 to require paper ballots and risk limiting audits in all Federal elections, and for other purposes.

IN THE SENATE OF THE UNITED STATES

Mr. WYDEN (for himself, Mrs. GILLIBRAND, Ms. WARREN, Mrs. MURRAY, Mr. MARKEY, and Mr. MERKLEY) introduced the following bill; which was read twice and referred to the Committee on _____

A BILL

- To amend the Help America Vote Act of 2002 to require paper ballots and risk limiting audits in all Federal elections, 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,

3 SECTION 1. SHORT TITLE.

- 4 This Act may be cited as the "Protecting American
- 5 Votes and Elections Act of 2018".

6 SEC. 2. FINDINGS.

- 7 Congress makes the following findings:
- 8 (1) Access to the ballot, free and fair elections,
- 9 and a trustworthy election process are at the core of

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1 American Democracy. Just as the Founding Fathers 2 signed their names to paper supporting their views 3 for a government by and for the people, access to 4 the paper ballot is the best way to ensure elections 5 stay by and for the American people. Using paper 6 provides an easily auditable, tamper proof, and sim-7 ple way for citizens to access their ballot. It is for 8 these reasons and more that using paper ballots to 9 ensure resilient and fair elections should be the pri-10 ority of this Nation.

11 (2) Risk-limiting audits will help to protect our 12 elections from cyberattacks, by ensuring that if the 13 electoral outcome is incorrect, for instance because 14 someone tampered with the electronic counts or re-15 porting, the audit has a large, known probability of 16 correcting the outcome by requiring a full hand 17 count. Paper ballots are vital to the audit process 18 since, other than through manual inspection of a 19 sample of paper ballots, there is currently no reliable 20 way to determine whether an election was hacked or 21 the outcome was miscalculated.

(3) Risk-limiting audits are a cost effective way
of auditing election results. They generally require
inspecting only a small percentage of the ballots cast
in an election, and proceed to a full hand count only

1	when sampling does not provide strong evidence that
2	the reported outcome is correct. This will ensure
3	that Americans have confidence in their election re-
4	sults, without the cost of a full recount of every bal-
5	lot in the country.
6	SEC. 3. PAPER BALLOT AND MANUAL COUNTING REQUIRE-
7	MENTS.
8	(a) IN GENERAL.—Section 301(a)(2) of the Help
9	America Vote Act of 2002 (52 U.S.C. $21081(a)(2)$) is
10	amended to read as follows:
11	"(2) Paper Ballot Requirement.—
12	"(A) VOTER-VERIFIED PAPER BALLOTS.—
13	"(i) Paper ballot requirement.—
14	(I) The voting system shall require the use
15	of an individual, durable, voter-verified,
16	paper ballot of the voter's vote that shall
17	be marked and made available for inspec-
18	tion and verification by the voter before
19	the voter's vote is cast and counted, and
20	which shall be counted by hand or read by
21	an optical character recognition device or
22	other counting device. For purposes of this
23	subclause, the term 'individual, durable,
24	voter-verified, paper ballot' means a paper
25	ballot marked by the voter by hand or a

1	paper ballot marked through the use of a
2	nontabulating ballot marking device or sys-
3	tem, so long as the voter shall have the op-
4	tion to mark his or her ballot by hand.
5	"(II) The voting system shall provide
6	the voter with an opportunity to correct
7	any error on the paper ballot before the
8	permanent voter-verified paper ballot is
9	preserved in accordance with clause (ii).
10	"(III) The voting system shall not
11	preserve the voter-verified paper ballots in
12	any manner that makes it possible, at any
13	time after the ballot has been cast, to asso-
14	ciate a voter with the record of the voter's
15	vote without the voter's consent.
16	"(ii) Preservation as official
17	RECORD.—The individual, durable, voter-
18	verified, paper ballot used in accordance
19	with clause (i) shall constitute the official
20	ballot and shall be preserved and used as
21	the official ballot for purposes of any re-
22	count or audit conducted with respect to
23	any election for Federal office in which the
24	voting system is used.

1	"(iii) MANUAL COUNTING REQUIRE-
2	MENTS FOR RECOUNTS AND AUDITS.—(I)
3	Each paper ballot used pursuant to clause
4	(i) shall be suitable for a manual audit,
5	and shall be counted by hand in any re-
6	count or audit conducted with respect to
7	any election for Federal office.
8	"(II) In the event of any inconsist-
9	encies or irregularities between any elec-
10	tronic vote tallies and the vote tallies de-
11	termined by counting by hand the indi-
12	vidual, durable, voter-verified, paper ballots
13	used pursuant to clause (i), and subject to
14	subparagraph (B), the individual, durable,
15	voter-verified, paper ballots shall be the
16	true and correct record of the votes cast.
17	"(iv) Application to all bal-
18	LOTS.—The requirements of this subpara-
19	graph shall apply to all ballots cast in elec-
20	tions for Federal office, including ballots
21	cast by absent uniformed services voters
22	and overseas voters under the Uniformed
23	and Overseas Citizens Absentee Voting Act
24	and other absentee voters.

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"(B) Special rule for treatment of
DISPUTES WHEN PAPER BALLOTS HAVE BEEN
SHOWN TO BE COMPROMISED.—
"(i) IN GENERAL.—In the event
that—
"(I) there is any inconsistency
between any electronic vote tallies and
the vote tallies determined by count-
ing by hand the individual, durable,
voter-verified, paper ballots used pur-
suant to subparagraph (A)(i) with re-
spect to any election for Federal of-
fice; and
"(II) it is demonstrated by clear
and convincing evidence (as deter-
mined in accordance with the applica-
ble standards in the jurisdiction in-
volved) in any recount, audit, or con-
test of the result of the election that
the paper ballots have been com-
promised (by damage or mischief or
otherwise) and that a sufficient num-
ber of the ballots have been so com-
promised that the result of the elec-
tion could be changed,

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1	the determination of the appropriate rem-
2	edy with respect to the election shall be
3	made in accordance with applicable State
4	law, except that the electronic tally shall
5	not be used as the exclusive basis for de-
6	termining the official certified result.
7	"(ii) Rule for consideration of
8	BALLOTS ASSOCIATED WITH EACH VOTING
9	MACHINE.—For purposes of clause (i),
10	only the paper ballots deemed com-
11	promised, if any, shall be considered in the
12	calculation of whether or not the result of
13	the election could be changed due to the
14	compromised paper ballots.".
15	(b) Conforming Amendment Clarifying Appli-
16	CABILITY OF ALTERNATIVE LANGUAGE ACCESSIBILITY.—
17	Section 301(a)(4) of such Act (52 U.S.C. 21081(a)(4))
18	is amended by inserting "(including the paper ballots re-
19	quired to be used under paragraph (2))" after "voting sys-
20	tem".
21	(c) Other Conforming Amendments.—Section
22	301(a)(1) of such Act (52 U.S.C. 21081(a)(1)) is amend-
23	ed—

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1	(1) in subparagraph (A)(i), by striking "count-
2	ed" and inserting "counted, in accordance with
3	paragraphs (2) and (3)";
4	(2) in subparagraph (A)(ii), by striking "count-
5	ed" and inserting "counted, in accordance with
6	paragraphs (2) and (3)";
7	(3) in subparagraph (A)(iii), by striking "count-
8	ed" each place it appears and inserting "counted, in
9	accordance with paragraphs (2) and (3) "; and
10	(4) in subparagraph (B)(ii), by striking "count-
11	ed" and inserting "counted, in accordance with
12	paragraphs (2) and (3) ".
13	(d) EFFECTIVE DATE.—Notwithstanding section
14	301(d) of the Help America Vote Act of 2002 (52 U.S.C.
15	21081(d)), each State and jurisdiction shall be required
16	to comply with the amendments made by this section for
17	the regularly scheduled election for Federal office in No-
18	vember 2020, and for each subsequent election for Federal
19	office.
20	SEC. 4. ACCESSIBILITY AND BALLOT VERIFICATION FOR IN-
21	DIVIDUALS WITH DISABILITIES.
22	(a) IN GENERAL.—Section 301(a)(3)(B) of the Help
23	America Vote Act of 2002 (52 U.S.C. 21081(a)(3)(B)) is
24	amended to read as follows:

1	"(B)(i) satisfy the requirement of subpara-
2	graph (A) through the use of at least 1 voting
3	system equipped for individuals with disabil-
4	ities, including nonvisual and enhanced visual
5	accessibility for the blind and visually impaired,
6	and nonmanual and enhanced manual accessi-
7	bility for the mobility and dexterity impaired, at
8	each polling place; and
9	"(ii) meet the requirements of subpara-
10	graph (A) and paragraph (2)(A) by using a sys-
11	tem that—
12	"(I) allows the voter to privately and
13	independently verify the permanent paper
14	ballot through the presentation, in acces-
15	sible form, of the printed or marked vote
16	selections from the same printed or
17	marked information that would be used for
18	any vote counting or auditing; and
19	"(II) allows the voter to privately and
20	independently verify and cast the perma-
21	nent paper ballot without requiring the
22	voter to manually handle the paper ballot;
23	and".

(b) SPECIFIC REQUIREMENT OF STUDY, TESTING,
 AND DEVELOPMENT OF ACCESSIBLE PAPER BALLOT
 VERIFICATION MECHANISMS.—

4 (1) STUDY AND REPORTING.—Subtitle C of
5 title II of such Act (52 U.S.C. 21081 et seq.) is
6 amended by inserting after section 246 the following
7 new section:

8 "SEC. 246A. STUDY AND REPORT ON ACCESSIBLE PAPER 9 BALLOT VERIFICATION MECHANISMS.

10 "(a) Study and Report.—The Director of the National Science Foundation shall make grants to not fewer 11 12 than 3 eligible entities to study, test, and develop acces-13 sible paper ballot voting, verification, and casting mechanisms and devices and best practices to enhance the acces-14 15 sibility of paper ballot voting and verification mechanisms for individuals with disabilities, for voters whose primary 16 17 language is not English, and for voters with difficulties in literacy, including best practices for the mechanisms 18 19 themselves and the processes through which the mecha-20 nisms are used.

"(b) ELIGIBILITY.—An entity is eligible to receive a
grant under this part if it submits to the Director (at such
time and in such form as the Director may require) an
application containing—

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1	((1) certifications that the entity shall specifi-
2	cally investigate enhanced methods or devices, in-
3	cluding non-electronic devices, that will assist such
4	individuals and voters in marking voter-verified
5	paper ballots and presenting or transmitting the in-
6	formation printed or marked on such ballots back to
7	such individuals and voters, and casting such ballots;
8	((2)) a certification that the entity shall com-
9	plete the activities carried out with the grant not
10	later than December 31, 2020; and
11	"(3) such other information and certifications
12	as the Director may require.
13	"(c) AVAILABILITY OF TECHNOLOGY.—Any tech-
14	nology developed with the grants made under this section
15	shall be treated as non-proprietary and shall be made
16	available to the public, including to manufacturers of vot-
17	ing systems.
18	"(d) Coordination With Grants for Tech-
19	NOLOGY IMPROVEMENTS.—The Director shall carry out
20	this section so that the activities carried out with the
21	grants made under subsection (a) are coordinated with the
22	research conducted under the grant program carried out
23	by the Commission under section 271, to the extent that
24	the Director and Commission determine necessary to pro-
25	vide for the advancement of accessible voting technology.

"(e) AUTHORIZATION OF APPROPRIATIONS.—There
 is authorized to be appropriated to carry out subsection
 (a) \$10,000,000, to remain available until expended.".

4 (2) CLERICAL AMENDMENT.—The table of con5 tents of such Act is amended by inserting after the
6 item relating to section 246 the following new item:
"Sec. 246A. Study and report on accessible paper ballot verification mechanisms.".

7 SEC. 5. RISK-LIMITING AUDITS.

8 (a) IN GENERAL.—Title III of the Help America
9 Vote Act of 2002 (52 U.S.C. 21081 et seq.) is amended
10 by inserting after section 303 the following new section:
11 "SEC. 303A. RISK-LIMITING AUDITS.

12 "(a) DEFINITIONS.—In this section:

13 "(1) RISK-LIMITING AUDIT.—

14 "(A) IN GENERAL.—The term 'risk-lim-15 iting audit' means a post-election process such 16 that, if the reported outcome of the contest is 17 incorrect, there is at least a 95 percent chance 18 that the audit will replace the incorrect outcome 19 with the correct outcome as determined by a 20 full, hand-to-eye tabulation of all votes validly 21 cast in that election contest that ascertains 22 voter intent manually and directly from voter-23 verifiable paper records.

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1 "(B) REPORTED OUTCOME.—The term 're-2 ported outcome' means the outcome of an elec-3 tion contest which is determined according to 4 the canvass and which will become the official, 5 certified outcome unless it is revised by an 6 audit, recount, or other legal process. 7 "(C) INCORRECT OUTCOME.—The term 'incorrect outcome' means an outcome that dif-8 9 fers from the outcome that would be determined 10 by a full tabulation of all votes validly cast in 11 that election contest, determining voter intent 12 manually, directly from voter-verifiable paper 13 records. 14 "(D) OUTCOME.—The term 'outcome' 15 means the winner or set of winners of an elec-16 tion contest, which might be candidates or posi-17 tions. 18 "(2) BALLOT MANIFEST.—The term 'ballot 19 manifest' means a record maintained by each county 20 that-"(A) is created without reliance on any 21 22 part of the voting system used to tabulate 23 votes;

24 "(B) functions as a sampling frame for25 conducting a risk-limiting audit; and

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1	"(C) contains the following information
2	about ballots cast and counted:
3	"(i) The total number of ballots cast
4	and counted in the election (including
5	undervotes, overvotes, and other invalid
6	votes).
7	"(ii) The total number of ballots cast
8	in each contest in the election (including
9	undervotes, overvotes, and other invalid
10	votes).
11	"(iii) A precise description of the
12	manner in which the ballots are physically
13	stored, including the total number of phys-
14	ical groups of ballots, the numbering sys-
15	tem for each group, a unique label for each
16	group, and the number of ballots in each
17	such group.
18	"(b) Requirement.—
19	"(1) IN GENERAL.—
20	"(A) AUDITS.—Each State and jurisdic-
21	tion shall administer risk-limiting audits of the
22	results of all elections for Federal office held in
23	the State in accordance with the requirements
24	of paragraph (2).

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1	"(B) FULL MANUAL TALLY.—If a risk-lim-
2	iting audit conducted under subparagraph (A)
3	leads to a full manual tally of an election con-
4	test, the State or jurisdiction shall use the re-
5	sults of the full manual tally as the official re-
6	sults of the election contest.
7	"(2) Audit requirements.—
8	"(A) Rules and procedures.—
9	"(i) IN GENERAL.—Risk-limiting au-
10	dits shall be conducted in accordance with
11	the rules and procedures established by the
12	chief State election official of the State not
13	later than 1 year after the date of the en-
14	actment of this section.
15	"(ii) Matters included.—The rules
16	and procedures established under clause (i)
17	may include the following:
18	"(I) Rules for ensuring the secu-
19	rity of ballots and documenting that
20	prescribed procedures were followed.
21	"(II) Rules and procedures for
22	ensuring the accuracy of ballot mani-
23	fests produced by jurisdictions.
24	"(III) Rules and procedures for
25	governing the format of ballot mani-

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1	fests, cast vote records, and other
2	data involved in risk-limiting audits.
3	"(IV) Methods to ensure that
4	any cast vote records used in a risk-
5	limiting audit are those used by the
6	voting system to tally the election re-
7	sults sent to the Secretary of State
8	and made public.
9	"(V) Procedures for the random
10	selection of ballots to be inspected
11	manually during each audit.
12	"(VI) Rules for the calculations
13	and other methods to be used in the
14	audit and to determine whether and
15	when the audit of each contest is com-
16	plete.
17	"(VII) Procedures and require-
18	ments for testing any software used to
19	conduct risk-limiting audits.
20	"(B) TIMING.—The risk-limiting audit
21	shall be completed not later than the date that
22	the result of the election is certified by the
23	State.
24	"(C) PUBLIC REPORT.—After the comple-
25	tion of the risk-limiting audit, the State shall

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1 publish a report on the results of the audit, to-2 gether with such information as necessary to 3 confirm that the audit was conducted properly. 4 "(c) EFFECTIVE DATE.—Each State and jurisdiction 5 shall be required to comply with the requirements of this 6 section for the regularly scheduled election for Federal of-7 fice in November 2020, and for each subsequent election 8 for Federal office.".

9 (b) CONFORMING AMENDMENTS RELATED TO EN10 FORCEMENT.—Section 401 of such Act (52 U.S.C. 21111)
11 is amended by striking "and 303" and inserting "303, and
12 303A".

13 (c) CLERICAL AMENDMENT.—The table of contents
14 for such Act is amended by inserting after the item relat15 ing to section 303 the following new item:
"Sec. 303A. Risk-limiting audits.".