118TH CONGRESS 1ST SESSION	S.
To enhance safety requ	rements for trains transporting hazardous materials, and for other purposes.

IN THE SENATE OF THE UNITED STATES

Mr.	Brown	(for	himself,	Mr.	Vance,	Mr.	Casey,	Mr.	Rubio,	Mr
	FETTERM	IAN, a	nd Mr. H	[AWLF	ey) introd	uced	the follow	ving k	oill; which	was
	read twice	e and	referred t	o the	Committe	ee on				

A BILL

To enhance safety requirements for trains transporting hazardous materials, 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; TABLE OF CONTENTS.
- 4 (a) SHORT TITLE.—This Act may be cited as the
- 5 "Railway Safety Act of 2023".
- 6 (b) Table of Contents.—The table of contents for
- 7 this Act is as follows:
 - Sec. 1. Short title; table of contents.
 - Sec. 2. Defined term.
 - Sec. 3. Safety requirements for trains transporting hazardous materials.
 - Sec. 4. Rail car inspections.
 - Sec. 5. Defect detectors.
 - Sec. 6. Safe Freight Act of 2023.

- Sec. 7. Increasing maximum civil penalties for violations of rail safety regulations.
- Sec. 8. Safer tank cars.
- Sec. 9. Hazardous materials training for first responders.
- Sec. 10. Rail safety infrastructure research and development grants.
- Sec. 11. Appropriations for tank car research and development.

1 SEC. 2. DEFINED TERM.

- 2 In this Act, the term "Secretary" means the Sec-
- 3 retary of Transportation.
- 4 SEC. 3. SAFETY REQUIREMENTS FOR TRAINS TRANS-
- 5 PORTING HAZARDOUS MATERIALS.
- 6 (a) Rulemaking.—Not later than 1 year after the
- 7 date of the enactment of this Act, the Secretary shall issue
- 8 regulations, or modify existing regulations, establishing
- 9 safety requirements, in accordance with subsection (b),
- 10 with which a shipper or rail carrier operating a train
- 11 transporting hazardous materials that is not subject to the
- 12 requirements for a high-hazard flammable train under sec-
- 13 tion 174.310 of title 49, Code of Federal Regulations,
- 14 shall comply with respect to the operation of each such
- 15 train and the maintenance of specification tank cars.
- 16 (b) Requirements.—The regulations issued pursu-
- 17 ant to subsection (a) shall require shippers and rail car-
- 18 riers—
- 19 (1) to provide advance notification and informa-
- tion regarding the transportation of hazardous mate-
- rials described in subsection (a) to each State emer-
- 22 gency response commissioner, the tribal emergency

1	response commission, or any other State or tribal
2	agency responsible for receiving the information no-
3	tification for emergency response planning informa-
4	tion;
5	(2) to include, in the notification provided pur-
6	suant to paragraph (1), a written gas discharge plan
7	with respect to the applicable hazardous materials
8	being transported; and
9	(3) to reduce or eliminate blocked crossings re-
10	sulting from delays in train movements.
11	(c) Additional Requirements.—In developing the
12	regulations required under subsection (a), the Secretary
13	shall include requirements regarding—
14	(1) train length and weight;
15	(2) train consist;
16	(3) route analysis and selection;
17	(4) speed restrictions;
18	(5) track standards;
19	(6) track, bridge, and rail car maintenance;
20	(7) signaling and train control;
21	(8) response plans; and
22	(9) any other requirements that the Secretary
23	determines are necessary.
24	(d) High-hazard Flammable Trains.—The Sec-
25	retary may modify the safety requirements for trains sub-

ject to section 174.310 of title 49, Code of Federal Regulations, to satisfy, in whole or in part, the rulemaking re-3 quired under subsection (a). 4 SEC. 4. RAIL CAR INSPECTIONS. 5 (a) Rulemaking.— 6 Inspection requirements.—Not later 7 than 1 year after date of the enactment of this Act, 8 the Secretary shall review and update, as necessary, 9 applicable regulations under chapters I and II of 10 subtitle B of title 49, Code of Federal Regulations— 11 (A) to create minimum time requirements 12 that a qualified mechanical inspector must 13 spend when inspecting a rail car or locomotive; 14 and 15 (B) to ensure that all rail cars and loco-16 motives in train consists that carry hazardous 17 materials are inspected by a qualified mechan-18 ical inspector at intervals determined by the 19 Secretary. 20 ABBREVIATED PRE-DEPARTURE INSPEC-21 TION.—The Secretary shall immediately amend sec-22 tion 215.13(c) of title 49, Code of Federal Regula-23 tions (permitting an abbreviated pre-departure in-24 spection procedure) with respect to rail cars in train

consists carrying hazardous materials.

25

1	(b) Audits.—
2	(1) In general.—Not later than 60 days after
3	the date of the enactment of this Act, the Secretary
4	shall initiate audits of Federal rail car inspection
5	programs, subject to the requirements under part
6	215 of title 49, Code of Federal Regulations,
7	which—
8	(A) consider whether such programs are in
9	compliance with such part 215;
10	(B) assess the type and content of training
11	and performance metrics that such programs
12	provide rail car inspectors;
13	(C) determine whether such programs pro-
14	vide inspectors with adequate time to inspect
15	rail cars;
16	(D) determine whether such programs re-
17	flect the current operating practices of the rail-
18	road carrier; and
19	(E) ensure that inspection programs are
20	not overly reliant on train crews.
21	(2) Audit scheduling.—The Secretary
22	shall—
23	(A) schedule the audits required under
24	paragraph (1) to ensure that—

1	(i) each Class I railroad is audited not
2	less frequently than once every 5 years;
3	and
4	(ii) a select number, as determined by
5	the Secretary, of Class II and Class III
6	railroads are audited annually; and
7	(B) conduct the audits described in sub-
8	paragraph (A)(ii) in accordance with—
9	(i) the Small Business Regulatory En-
10	forcement Fairness Act of 1996 (5 U.S.C.
11	601 note); and
12	(ii) appendix C of part 209 of title 49,
13	Code of Federal Regulations.
14	(3) Updates to inspection program.—If,
15	during an audit required under this subsection, the
16	auditor identifies a deficiency in a railroad's inspec-
17	tion program, the railroad shall update the program
18	to eliminate such deficiency.
19	(4) Consultation and cooperation.—
20	(A) Consultation.—In conducting any
21	audit required under this subsection, the Sec-
22	retary shall consult with the railroad being au-
23	dited and its employees, including any nonprofit
24	employee labor organization representing the
25	mechanical employees of the railroad.

1	(B) Cooperation.—The railroad being
2	audited and its employees, including any non-
3	profit employee labor organization representing
4	mechanical employees, shall fully cooperate with
5	any audit conducted pursuant to this sub-
6	section—
7	(i) by providing any relevant docu-
8	ments requested; and
9	(ii) by making available any employees
10	for interview without undue delay or ob-
11	struction.
12	(C) Failure to cooperate.—If the Sec-
13	retary determines that a railroad or any of its
14	employees, including any nonprofit employee
15	labor organization representing mechanical em-
16	ployees of the railroad is not fully cooperating
17	with an audit conducted pursuant to this sub-
18	section, the Secretary shall electronically notify
19	the Committee on Commerce, Science, and
20	Transportation of the Senate and the Com-
21	mittee on Transportation and Infrastructure of
22	the House of Representatives of such non-
23	cooperation.
24	(c) REVIEW OF REGULATIONS.—The Secretary shall
25	triennially determine whether any update to part 215 of

title 49, Code of Federal Regulations, is necessary to en-2 sure the safety of rail cars transported by rail carriers. 3 (d) Annual Report.—The Secretary shall publish an annual report on the public website of the Federal Rail-5 road Administration that— 6 (1) summarizes the findings of the prior year's 7 audits; 8 (2) summarizes any updates made pursuant to 9 this section; and 10 (3) excludes any confidential business informa-11 tion or sensitive security information. 12 (e) Rule of Construction.—Nothing in this sec-13 tion may be construed— 14 (1) to limit the deployment of pilot programs 15 for the installation, test, verification, and review of 16 automated rail and train inspection technologies; or 17 (2) to direct the Secretary to waive any existing 18 inspection requirements under chapter I or II of 19 subtitle B of title 49, Code of Federal Regulations, 20 as part of pilot programs. 21 SEC. 5. DEFECT DETECTORS. 22 (a) RULEMAKING.—Not later than 1 year after the 23 date of the enactment of this Act, the Secretary shall issue regulations establishing requirements for the installation, repair, testing, maintenance, and operation of wayside de-

1	fect detectors for each rail carrier operating a train consist
2	carrying hazardous materials.
3	(b) Requirements.—The regulations issued pursu-
4	ant to subsection (a) shall include requirements regard-
5	ing—
6	(1) the frequency of the placement of wayside
7	defect detectors, including a requirement that all
8	Class I railroads install a hotbox detector along
9	every 10-mile segment of rail track over which trains
10	carrying hazardous materials operate;
11	(2) performance standards for such detectors;
12	(3) the maintenance and repair requirements
13	for such detectors;
14	(4) reporting data and maintenance records of
15	such detectors;
16	(5) appropriate steps the rail carrier must take
17	when receiving an alert of a defect or failure from
18	or regarding a wayside defect detector; and
19	(6) the use of hotbox detectors to prevent
20	derailments from wheel bearing failures, including—
21	(A) the temperatures, to be specified by
22	the Secretary, at which an alert from a hotbox
23	detector is triggered to warn of a potential
24	wheel bearing failure; and

1	(B) any actions that shall be taken by a
2	rail carrier upon receiving an alert from a hot-
3	box detector of a potential wheel bearing fail-
4	ure.
5	(c) Defect and Failure Identification.—The
6	Secretary shall specify the categories of defects and fail-
7	ures that wayside defect detectors covered by regulations
8	issued pursuant to subsection (a) shall address, includ-
9	ing—
10	(1) axles;
11	(2) wheel bearings;
12	(3) brakes;
13	(4) signals;
14	(5) wheel impacts; and
15	(6) other defects or failures specified by the
16	Secretary.
17	SEC. 6. SAFE FREIGHT ACT OF 2023.
18	(a) Short Title.—This section may be cited as the
19	"Safe Freight Act of 2023".
20	(b) Freight Train Crew Size.—Subchapter II of
21	chapter 201 of title 49, United States Code, is amended
22	by inserting after section 20153 the following:
23	"§ 20154. Freight train crew size safety standards
24	"(a) Minimum Crew Size.—No freight train may be
25	operated without a 2-person crew consisting of at least 1

1	appropriately qualified and certified conductor and 1 ap-
2	propriately qualified and certified locomotive engineer.
3	"(b) Exceptions.—Except as provided in subsection
4	(c), the requirement under subsection (a) shall not apply
5	with respect to—
6	"(1) train operations on track that is not a
7	main line track;
8	"(2) a freight train operated—
9	"(A) by a railroad carrier that has fewer
10	than 400,000 total employee work hours annu-
11	ally and less than \$40,000,000 annual revenue
12	(adjusted for inflation, as calculated by the Sur-
13	face Transportation Board Railroad Inflation-
14	Adjusted Index and Deflator Factor Table);
15	"(B) at a speed of not more than 25 miles
16	per hour; and
17	"(C) on a track with an average track
18	grade of less than 2 percent for any segment of
19	track that is at least 2 continuous miles;
20	"(3) locomotives performing assistance to a
21	train that has incurred mechanical failure or lacks
22	the power to traverse difficult terrain, including
23	traveling to or from the location where assistance is
24	provided;
25	"(4) locomotives that—

1	"(A) are not attached to any equipment or
2	are attached only to a caboose; and
3	"(B) do not travel father than 30 miles
4	from the point of origin of such locomotive; and
5	"(5) train operations staffed with fewer than a
6	2-person crew at least 1 year before the date of en-
7	actment of this section, if the Secretary determines
8	that such operations achieve an equivalent level of
9	safety as would result from compliance with the re-
10	quirement under subsection (a).
11	"(c) Trains Ineligible for Exception.—The ex-
12	ceptions under subsection (b) may not be applied to—
13	"(1) a train transporting 1 or more loaded cars
14	carrying material toxic by inhalation (as defined in
15	section 171.8 of title 49, Code of Federal Regula-
16	tions);
17	"(2) a train transporting—
18	"(A) 20 or more loaded tank cars of a
19	Class 2 material or a Class 3 flammable liquid
20	in a continuous block; or
21	"(B) 35 or more loaded tank cars of a
22	Class 2 material or a Class 3 flammable liquid
23	throughout the train consist; or
24	"(3) a train with a total length of at least
25	7,500 feet.

- 1 "(d) WAIVER.—A railroad carrier may seek a waiver
- 2 of the requirements under this section in accordance with
- 3 section 20103(d).".
- 4 (c) CLERICAL AMENDMENT.—The analysis for sub-
- 5 chapter II of chapter 201 of title 49, United States Code,
- 6 is amended by inserting after the item relating to section
- 7 20153 the following:

"20154. Freight train crew size.".

8 SEC. 7. INCREASING MAXIMUM CIVIL PENALTIES FOR VIO-

- 9 LATIONS OF RAIL SAFETY REGULATIONS.
- 10 (a) Civil Penalties Related to Transporting
- 11 HAZARDOUS MATERIALS.—Section 5123(a) of title 49,
- 12 United States Code, is amended—
- 13 (1) in paragraph (1), in the matter preceding
- subparagraph (A), by striking "\$75,000" and insert-
- ing "the greater of 0.5 percent of the person's an-
- nual income or annual operating income or
- 17 \$750,000"; and
- 18 (2) in paragraph (2), by striking "\$175,000"
- and inserting "the greater of 1 percent of the per-
- son's annual income or annual operating income or
- 21 \$1,750,000".
- 22 (b) General Violations of Chapter 201.—Sec-
- 23 tion 21301(a)(2) of title 49, United States Code, is
- 24 amended—

1	(1) by striking "\$25,000." and inserting "the
2	greater of 0.5 percent of the person's annual income
3	or annual operating income or \$250,000"; and
4	(2) by striking "\$100,000." and inserting "the
5	greater of 1 percent of the person's annual income
6	or annual operating income or \$1,000,000".
7	(c) ACCIDENT AND INCIDENT VIOLATIONS OF CHAP-
8	TER 201; VIOLATIONS OF CHAPTERS 203 THROUGH
9	209.—Section 21302(a) is amended—
10	(1) in paragraph (1), by striking "203–209"
11	each place it appears and inserting "203 through
12	209"; and
13	(2) in paragraph (2)—
14	(A) by striking "\$25,000" and inserting
15	"the greater of 0.5 percent of the person's an-
16	nual income or annual operating income or
17	\$250,000''; and
18	(B) by striking "\$100,000" and inserting
19	"the greater of 1 percent of the person's annual
20	income or annual operating income or
21	\$1,000,000".
22	(d) Violations of Chapter 211.—Section
23	21303(a)(2) is amended—

1	(1) by striking "\$25,000." and inserting "the
2	greater of 0.5 percent of the person's annual income
3	or annual operating income or \$250,000"; and
4	(2) by striking "\$100,000." and inserting "the
5	greater of 1 percent of the person's annual income
6	or annual operating income or \$1,000,000".
7	SEC. 8. SAFER TANK CARS.
8	(a) Phase-out Schedule.—Beginning on May 1,
9	2025, a rail carrier may not use DOT-111 specification
10	railroad tank cars that do not comply with DOT-117,
11	DOT–117P, or DOT–117R specification requirements, as
12	in effect on the date of enactment of this Act, to transport
13	Class 3 flammable liquids regardless of the composition
14	of the train consist.
15	(b) Conforming Regulatory Amendments.—
16	(1) IN GENERAL.—The Secretary—
17	(A) shall immediately remove or revise the
18	date-specific deadlines in any applicable regula-
19	tions or orders to the extent necessary to con-
20	form with the requirement under subsection (a);
21	and
22	(B) may not enforce any date-specific
23	deadlines or requirements that are inconsistent
24	with the requirement under subsection (a).

1	(2) Rule of construction.—Except as re-
2	quired under paragraph (1), nothing in this section
3	may be construed to require the Secretary to issue
4	regulations to implement this section.
5	SEC. 9. HAZARDOUS MATERIALS TRAINING FOR FIRST RE-
6	SPONDERS.
7	(a) Annual Registration Fee.—Section 5108(g)
8	of title 49, United States Code, is amended by adding at
9	the end the following:
10	"(4) Additional fee for class I rail car-
11	RIERS.—In addition to the fees collected pursuant to
12	paragraphs (1) and (2), the Secretary shall establish
13	and annually impose and collect from each Class I
14	rail carrier a fee in an amount equal to
15	\$1,000,000.".
16	(b) Assistance for Local Emergency Response
17	Training.—Section 5116(j)(1)(A) of title 49, United
18	States Code, is amended—
19	(1) by striking "liquids" and inserting "mate-
20	rials"; and
21	(2) in paragraph (3), by amending subpara-
22	graph (A) to read as follows:
23	"(A) IN GENERAL.—To carry out the
24	grant program established pursuant to para-

1	graph (1), the Secretary may expend, during
2	each fiscal year—
3	"(i) the amounts collected pursuant to
4	section $5108(g)(4)$; and
5	"(ii) any amounts recovered during
6	such fiscal year from grants awarded
7	under this section during a prior fiscal
8	year.".
9	(c) Supplemental Training Grants.—Section
10	5128(b)(4) of title 49, United States Code is amended by
11	striking "\$2,000,000" and inserting "\$4,000,000".
12	SEC. 10. RAIL SAFETY INFRASTRUCTURE RESEARCH AND
10	
13	DEVELOPMENT GRANTS.
13 14	(a) Research Requirement.—The Administrator
14	
14 15	(a) Research Requirement.—The Administrator
141516	(a) Research Requirement.—The Administrator of the Federal Railroad Administration shall award
14151617	(a) Research Requirement.—The Administrator of the Federal Railroad Administration shall award grants, in accordance with section 22907 of title 49,
14151617	(a) RESEARCH REQUIREMENT.—The Administrator of the Federal Railroad Administration shall award grants, in accordance with section 22907 of title 49, United States Code, and the restrictions and limitations
14 15 16 17 18	(a) RESEARCH REQUIREMENT.—The Administrator of the Federal Railroad Administration shall award grants, in accordance with section 22907 of title 49, United States Code, and the restrictions and limitations on eligibility for Class I railroads under such section, for
141516171819	(a) Research Requirement.—The Administrator of the Federal Railroad Administration shall award grants, in accordance with section 22907 of title 49, United States Code, and the restrictions and limitations on eligibility for Class I railroads under such section, for research and development of wayside defect detectors to
14 15 16 17 18 19 20	(a) Research Requirement.—The Administrator of the Federal Railroad Administration shall award grants, in accordance with section 22907 of title 49, United States Code, and the restrictions and limitations on eligibility for Class I railroads under such section, for research and development of wayside defect detectors to better prevent the derailment of trains transporting haz-
14 15 16 17 18 19 20 21	(a) Research Requirement.—The Administrator of the Federal Railroad Administration shall award grants, in accordance with section 22907 of title 49, United States Code, and the restrictions and limitations on eligibility for Class I railroads under such section, for research and development of wayside defect detectors to better prevent the derailment of trains transporting hazardous materials.
14 15 16 17 18 19 20 21 22	(a) Research Requirement.—The Administrator of the Federal Railroad Administration shall award grants, in accordance with section 22907 of title 49, United States Code, and the restrictions and limitations on eligibility for Class I railroads under such section, for research and development of wayside defect detectors to better prevent the derailment of trains transporting hazardous materials. (b) Funding.—

1	\$22,000,000, which shall be used for the grants au-
2	thorized under subsection (a) for the improvement
3	and research of wayside defect defectors and the
4	prevention of derailments of trains containing haz-
5	ardous materials.
6	(2) Availability of funding.—Amounts ap-
7	propriated under this subsection shall remain avail-
8	able until expended
9	SEC. 11. APPROPRIATIONS FOR TANK CAR RESEARCH AND
10	DEVELOPMENT.
10 11	DEVELOPMENT. There is appropriated to the Pipeline and Hazardous
11	There is appropriated to the Pipeline and Hazardous
11 12	There is appropriated to the Pipeline and Hazardous Materials Safety Administration, out of any funds in the
11 12 13	There is appropriated to the Pipeline and Hazardous Materials Safety Administration, out of any funds in the Treasury not otherwise appropriated, \$5,000,000, which
11 12 13 14	There is appropriated to the Pipeline and Hazardous Materials Safety Administration, out of any funds in the Treasury not otherwise appropriated, \$5,000,000, which shall be used for expenses related to the development of—