112TH CONGRESS 1ST SESSION

S. 1270

To prohibit the export from the United States of certain electronic waste, and for other purposes.

IN THE SENATE OF THE UNITED STATES

June 23, 2011

Mr. Whitehouse (for himself, Mr. Brown of Ohio, and Ms. Murkowski) introduced the following bill; which was read twice and referred to the Committee on Environment and Public Works

A BILL

To prohibit the export from the United States of certain electronic waste, 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.
- This Act may be cited as the "Responsible Elec-
- 5 tronics Recycling Act".
- 6 SEC. 2. ELECTRONIC WASTE EXPORT RESTRICTIONS.
- 7 (a) AMENDMENT.—Subtitle C of the Solid Waste
- 8 Disposal Act (42 U.S.C. 6921 et seq.) is amended by add-
- 9 ing at the end the following new section:

1	"SEC. 3024. ELECTRONIC WASTE EXPORT RESTRICTIONS.
2	"(a) In General.—Beginning on the date that is 24
3	months after the date of enactment of this section, no per-
4	son shall export restricted electronic waste to a country
5	described in subsection (e).
6	"(b) Definitions; Rule of Construction.—For
7	purposes of this section:
8	"(1) Consignee.—The term 'consignee' means
9	the ultimate repair, refurbishment, treatment, stor-
10	age, or disposal facility in a receiving country to
11	which restricted electronic waste will be sent.
12	"(2) Covered electronic equipment.—
13	"(A) IN GENERAL.—The term 'covered
14	electronic equipment' means the following used
15	items, whole or in fragments, including parts
16	components, or assemblies thereof:
17	"(i) Computers.
18	"(ii) Central processing units.
19	"(iii) Mobile computers (including
20	notebooks, netbooks, tablets, and e-book
21	readers).
22	"(iv) Computer accessories (including
23	input devices, webcams, speakers, data
24	storage devices, servers, and monitors).
25	"(v) Televisions (including portable
26	televisions and portable DVD players).

1	"(vi) Video display devices (including
2	digital picture frames and portable video
3	devices).
4	"(vii) Digital imaging devices (includ-
5	ing printers, copiers, facsimile machines,
6	image scanners, and multifunction ma-
7	chines).
8	"(viii) Television peripheral devices
9	(including video cassette recorders, DVD
10	players, video game systems, game control-
11	lers, signal converter boxes, and cable and
12	satellite receivers).
13	"(ix) Digital cameras and projectors.
14	"(x) Digital audio players.
15	"(xi) Telephones and electronic com-
16	munication equipment (including cellular
17	phones and wireless internet communica-
18	tion devices).
19	"(xii) Networking devices (including
20	routers, network cards, modems, and
21	hubs).
22	"(xiii) Audio equipment.
23	"(xiv) Portable video game systems.
24	"(xv) Personal digital assistants.

1	"(xvi) Portable global positioning sys-
2	tem navigation devices.
3	"(xvii) Other used electronic products
4	the Administrator determines to be similar
5	under the procedures promulgated in ac-
6	cordance with subsection (c).
7	"(B) Exception.—The term 'covered elec-
8	tronic equipment' shall not include parts of a
9	motor vehicle.
10	"(3) Restricted electronic waste.—
11	"(A) In General.—The term 'restricted
12	electronic waste' means—
13	"(i) items of covered electronic equip-
14	ment, that include, contain, are derived
15	from, or consist of—
16	"(I) cathode ray tubes or cathode
17	ray tube glass in any form, or cathode
18	ray tube phosphor residues or dusts in
19	any form;
20	"(II) a lamp or other device con-
21	taining mercury phosphor;
22	"(III) batteries containing—
23	"(aa) lead, cadmium, or
24	mercury; or

1	"(bb) organic solvents exhib-
2	iting the characteristic of ignit-
3	ability, as defined in section
4	261.21 of title 40, Code of Fed-
5	eral Regulations;
6	"(IV) switches or any other de-
7	vices containing mercury;
8	"(V) hexavalent chromium;
9	"(VI) other than batteries de-
10	scribed in subclause (III), items con-
11	taining antimony, barium, cadmium,
12	lead, thallium, beryllium, arsenic, or
13	selenium, including—
14	"(aa) circuit boards;
15	"(bb) printer drums;
16	"(cc) liquid crystal displays;
17	"(dd) flatscreen glass; and
18	"(ee) light emitting diodes;
19	or
20	"(ii) any other covered electronic
21	equipment, or materials derived therefrom,
22	containing any other toxic material, in ele-
23	mental or compound form, identified by
24	the Administrator under subsection (c).

1	"(B) Exceptions.—The term restricted
2	electronic waste' shall not apply to items de-
3	scribed in this subparagraph.
4	"(i) DE MINIMIS.—Covered electronic
5	equipment described in subparagraphs
6	(A)(i)(VI) and (A)(ii), including separated
7	component streams (such as plastics or
8	metals), which does not exceed de minimis
9	levels set by the Administrator under sub-
10	section (d).
11	"(ii) Reuse.—Covered electronic
12	equipment that is—
13	"(I) tested prior to export pursu-
14	ant to subsection (i)(1), and found to
15	be—
16	"(aa) functional for the pur-
17	pose for which the equipment
18	was designed, or, in the case of
19	multifunction devices, fully func-
20	tional for at least one of the pri-
21	mary purposes for which the
22	equipment was designed; and
23	"(bb) appropriately pack-
24	aged for shipment to prevent the
25	equipment from losing

1	functionality due to damage dur-
2	ing transit; and
3	"(II) appropriately labeled or
4	marked pursuant to subsection
5	(i)(3)(A).
6	"(iii) Certain cathode ray tube
7	GLASS.—Furnace-ready cathode ray tube
8	glass cullet, cleaned of all phosphors, to be
9	used as a direct feedstock in a lead-glass
10	manufacturing furnace without further
11	processing or preparation required other
12	than quality control, which the competent
13	authority in the importing country states
14	in writing is not waste.
15	"(iv) Warranties.—Customer re-
16	turns, to point of sale, to original equip-
17	ment manufacturers, or to contractual
18	warranty collectors, of recently purchased
19	covered electronic equipment that is ei-
20	ther—
21	"(I) under original equipment
22	manufacturer warranty to customers;
23	or
24	"(II) under warranty from the
25	original design manufacturer or origi-

1 nal component manufacturer to the
2 original equipment manufacturer, or
otherwise returned by the original
4 purchaser of the electronic equipment,
5 due to defect or customer dissatisfac-
6 tion, and the manufacturer accepts
such returns for the purposes of re-
8 pair or replacement in order to return
9 to the customer a functional working
product or part of the same type and
11 model, except that products and parts
12 covered in this subparagraph shall not
13 include—
14 "(aa) covered electronic
equipment accepted for return
16 from individuals or businesses
17 under general takeback, recy-
18 cling, trade-in (for purposes of
19 recycling, disposal, sales pro-
20 motions, or obtaining credit for
21 product purchases or leases) or
buy-back programs, events, or
policies designed to collect used

or waste electronic equipment;

24

1 "(bb) covered electr	onic
2 equipment returned at the en	d of
3 leases to customers; or	
4 "(cc) covered electr	onic
5 equipment collected by asset	re-
6 covery programs.	
7 "(v) Recalls of coverage of the coverage of	ered
8 electronic equipment by an original eq	uip-
9 ment manufacturer, original design ma	anu-
o facturer, or original component manu	fac-
1 turer where—	
2 "(I) the covered electronic eq	uip-
ment is subject to recall notice iss	sued
4 by the Consumer Product Sa	fety
5 Commission or other pertinent I	Fed-
6 eral authority;	
7 "(II) the original design ma	anu-
8 facturer or original component ma	anu-
9 facturer requires the defective coverage of the facturer requires the facturer requires the defective coverage of the facturer requires the	ered
0 electronic equipment to be physic	eally
1 returned to that manufacturer a	ıs a
2 term of the warranty; and	
3 "(III) any export of recalled	cov-
4 ered electronic equipment is to	o a
5 country from whose competent	au-

1	thority the Administrator receives
2	written consent pursuant to sub-
3	section $(h)(2)$.
4	"(4) Rule of construction regarding
5	CHEMICAL ELEMENTS.—Any reference to a chemical
6	element shall be construed to be a reference to that
7	element in compound or elemental form.
8	"(c) Additional Covered Electronic Equip-
9	MENT AND RESTRICTED MATERIALS.—Not later than 18
10	months after the date of enactment of this section, the
11	Administrator shall, after notice and opportunity for pub-
12	lic comment, and after consultation with appropriate Fed-
13	eral and State agencies, develop and promulgate proce-
14	dures for identifying—
15	"(1) similar electronic equipment to add to the
16	list of covered electronic equipment under subsection
17	(b)(2); and
18	"(2) additional restricted toxic materials to add
19	to the list in subsection (b)(3)(A)(ii), the presence of
20	which in covered electronic equipment poses a poten-
21	tial hazard to human health or the environment.
22	Such procedures shall include a method for any interested
23	party to propose a new product or material for review by
24	the Administrator

- 1 "(d) DE MINIMIS LEVELS.—Not later than 18
- 2 months after the date of enactment of this section, the
- 3 Administrator shall, after notice and opportunity for pub-
- 4 lic comment, and after consultation with appropriate Fed-
- 5 eral and State agencies, develop and promulgate proce-
- 6 dures for identifying de minimis levels for restricted elec-
- 7 tronic waste described in subparagraphs (A)(i)(VI) and
- 8 (A)(ii) of subsection (b)(3), below which such waste is de-
- 9 termined by the Administrator not to pose a potential haz-
- 10 and to human health or the environment.
- 11 "(e) Countries to Which Prohibition Ap-
- 12 PLIES.—The countries referred to in subsection (a) are all
- 13 countries which are not—
- 14 "(1) members of the Organization for Economic
- 15 Co-operation and Development or the European
- 16 Union; or
- 17 "(2) Liechtenstein.
- 18 "(f) Notice to Administrator.—No person shall
- 19 export covered electronic equipment described in sub-
- 20 section (b)(3)(B) to a country described in subsection (e)
- 21 unless, not later than 60 days before the initial export
- 22 shipment, such person transmits to the Administrator
- 23 written notice of an intended export. Such a notification
- 24 may cover export activities extending over a maximum of
- 25 12 months for the same type of covered electronic equip-

1	ment, exported to the same facility via the same transit
2	countries. The notification shall include the following in-
3	formation:
4	"(1) The name, mailing address, telephone
5	number, and if applicable, the Environmental Pro-
6	tection Agency or Resource Conservation and Recov-
7	ery Act identification number.
8	"(2) Documentation of licensing of the exporter
9	under subsection (g).
10	"(3) The name and site address of the con-
11	signee and any alternate consignee.
12	"(4) A statement from the exporter that in-
13	cludes—
14	"(A) a description of the type and total
15	quantity of covered electronic equipment that
16	will be exported to the consignee;
17	"(B) the estimated frequency or rate at
18	which such covered electronic equipment is to
19	be exported, and the period of time over which
20	such covered electronic equipment is to be ex-
21	ported;
22	"(C) all points of entry to and departure
23	from each country through which the covered
24	electronic equipment will pass in transit;

1	"(D) a description of the means by which
2	each shipment of the covered electronic equip-
3	ment will be transported, including the mode of
4	transportation and type or types of container;
5	and
6	"(E) a description of the manner in which
7	the covered electronic equipment will be treated,
8	stored, or disposed of in the receiving country.
9	"(5) A list of all transit countries through
10	which the covered electronic equipment will be trans-
11	ported, and a description of the approximate length
12	of time the covered electronic equipment will remain
13	in each country and the nature of its handling while
14	there.
15	"(g) License.—Covered electronic equipment may
16	only be exported to a country described in subsection (e)
17	under the exceptions to restricted electronic waste in sub-
18	section (b)(3)(B) by an entity licensed by the Adminis-
19	trator under regulations is sued under subsection (i)(2).
20	"(h) Additional Export Conditions for War-
21	RANTIES AND RECALLS.—
22	"(1) In general.—No person shall export cov-
23	ered electronic equipment to a country described in
24	subsection (e) under the exceptions to restricted

1	electronic waste in subsections $(b)(3)(B)(iv)$ or (v)
2	unless—
3	"(A) the export is made by an original
4	equipment manufacturer or its contractual
5	agent to the original design manufacturer or
6	original component manufacturer's site of last
7	assembly, or to a company contracted to make
8	warranty repairs, for the purposes of business
9	credit to the original equipment manufacturer,
10	repair or refurbishment and subsequent reuse,
11	or replacement;
12	"(B) the original equipment manufacturer
13	has a presence and assets in the United States;
14	and
15	"(C) the person who exports the covered
16	electronic equipment—
17	"(i) keeps copies of normal business
18	records, such as contracts, demonstrating
19	that each shipment of exported covered
20	electronic equipment is intended for repair
21	or refurbishment and subsequent reuse, or
22	replacement, which documentation shall be
23	retained for a period of at least 3 years
24	after the date of export; and

1	"(ii) submits an annual report to the
2	Administrator on the amount and types of
3	waste resulting from the refurbishment or
4	replacement process, and how it was dis-
5	posed of or recycled, which shall include—
6	"(I) number and weight of units
7	of products returned by the original
8	equipment manufacturer for repair,
9	refurbishment, or replacement listed
10	by category and country of destina-
11	tion; and
12	"(II) the covered electronic
13	equipment, or materials derived there-
14	from, sent onward to further reuse,
15	disposal, or recycling following repair,
16	refurbishment, or replacement, listed
17	by weight, a description of the wastes,
18	and the ultimate country destination.
19	"(2) Acknowledgment of consent.—
20	"(A) Requirement.—No person shall ex-
21	port covered electronic equipment to a country
22	described in subsection (e) under the exceptions
23	to restricted electronic waste in subsections
24	(b)(3)(B)(iv) or (v) until the Administrator—

l	"(i) obtains the written consent of the
2	competent authority of the receiving coun-
3	try, and of each country through which the
1	covered electronic equipment will pass in
5	transit; and

- "(ii) transmits to the exporter an Acknowledgment of Consent reflecting receipt of each country's consent.
- "(B) COUNTRY NOTIFICATION.—In cooperation with other appropriate agencies, the Administrator shall provide notification in writing of an intended export submitted under subsection (f) to the receiving country and any transit countries.
- "(C) Consent and exporter notification.—When the receiving country and all transit countries consent in writing to the receipt or transit of the covered electronic equipment, the Administrator shall transmit an Acknowledgment of Consent to the exporter. The consent from a receiving or transit country may be for a notice of multiple shipments or a specified duration as described in subsection (f). The exporter shall attach a copy of the Acknowledgment of Consent to the shipping papers or

1	equivalent documents to ensure that the Ac-
2	knowledgment of Consent accompanies the ship-
3	ment of covered electronic equipment.
4	"(3) WITHDRAWAL OF CONSENT.—Where the
5	receiving country or a transit country objects to re-
6	ceipt or transit of the covered electronic equipment,
7	or withdraws a prior consent, the Administrator
8	shall notify the exporter in writing.
9	"(i) REGULATIONS.—Not later than 18 months after
10	the date of enactment of this section, the Administrator
11	shall issue regulations for carrying out this section, includ-
12	ing—
13	"(1) testing requirements for covered electronic
14	equipment proposed to be exported under subsection
15	(b)(3)(B)(ii);
16	"(2) establishing a process for licensing entities
17	under subsection (g);
18	"(3) in consultation with the appropriate Fed-
19	eral agency or agencies, provisions for an efficient
20	export control regime which will allow for—
21	"(A) requiring a person exporting under
22	this section to use appropriate labeling or
23	marking, distinguishing among—
24	"(i) covered electronic equipment as
25	permitted under this section;

1	"(ii) restricted electronic waste de-
2	scribed in this section; and
3	"(iii) tested working covered electronic
4	equipment as permitted under this section;
5	and
6	"(B) enforcement mechanisms, tests, and
7	procedures in coordination with enforcement
8	procedures administered by other appropriate
9	Federal agencies; and
10	"(4) establishing a registry of violators, where-
11	by any person or entity found to be exporting re-
12	stricted electronic waste in violation of this section
13	shall be listed on a public registry on a website
14	maintained by the Administrator for a period of 5
15	years after each violation.
16	"(j) CIRCUIT BOARDS.—For the purposes of export
17	to Organization for Economic Co-operation and Develop-
18	ment member countries, circuit boards shall be subject to
19	the Amber Control Procedure as described in the Organi-
20	zation for Economic Co-operation and Development Con-
21	trol System for waste recovery.".
22	(b) Table of Contents Amendment.—The table
23	of contents for the Solid Waste Disposal Act is amended
24	by adding after the item relating to section 3023 the fol-
25	lowing new item:

[&]quot;Sec 3024. Electronic waste export restrictions.".

19 SEC. 3. ENFORCEMENT. 2 (a) Criminal Penalties.—Section 3008(d) of the 3 Solid Waste Disposal Act (42 U.S.C. 6928(d)) is amend-4 ed— (1) by striking "or" at the end of paragraph 5 6 (6);(2) by inserting "or" at the end of paragraph 7 8 (7)(B); and 9 (3) by inserting after paragraph (7) the fol-10 lowing new paragraph: 11 "(8) knowingly exports restricted electronic 12 waste in violation of section 3024;". 13 (b) Inspections.—Section 3007(a) of the Solid Waste Disposal Act (42 U.S.C. 6927(a)) is amended— (1) by inserting "or restricted electronic 15 16 wastes" after "or has handled hazardous wastes"; 17 and 18 by inserting "or restricted electronic (2)19 wastes" after "or other place where hazardous

- 21 SEC. 4. RARE EARTH MATERIALS RECYCLING RESEARCH
- 22 **INITIATIVE.**

wastes".

- 23 (a) Definitions.—In this section:
- 24 (1) Administrator.—The term "Adminis-
- 25 trator" means the Administrator of the Environ-
- 26 mental Protection Agency.

20

1	(2) Initiative.—The term "Initiative" means
2	the Rare Earth Materials Recycling Research Initia-
3	tive established under subsection (b).
4	(3) Rare earth material.—The term "rare
5	earth material" means any of the following chemical
6	elements in any physical form or chemical combina-
7	tion:
8	(A) Scandium.
9	(B) Yttrium.
10	(C) Lanthanum.
11	(D) Cerium.
12	(E) Praseodymium.
13	(F) Neodymium.
14	(G) Promethium.
15	(H) Samarium.
16	(I) Europium.
17	(J) Gadolinium.
18	(K) Terbium.
19	(L) Dysprosium.
20	(M) Holmium.
21	(N) Erbium.
22	(O) Thulium.
23	(P) Ytterbium.
24	(Q) Lutetium.

1	(R) Other elements identified by the Sec-
2	retary as rare or in critical supply.
3	(4) Secretary.—The term "Secretary" means
4	the Secretary of Energy.
5	(b) Establishment.—Not later than 120 days after
6	the date of enactment of this Act, the Secretary, in con-
7	sultation with the Administrator and the heads of other
8	appropriate Federal agencies, shall establish the Rare
9	Earth Materials Recycling Research Initiative to assist in
10	and coordinate the development of research in the recy-
11	cling of rare earth materials found in electronic devices.
12	(c) Grants.—Under the Initiative, the Secretary
13	shall establish a competitive research application program
14	under which the Secretary shall provide grants to appli-
15	cants to conduct research on one or more of the following
16	activities:
17	(1) The safe removal, separation, and recycling
18	of rare earth material from electronics.
19	(2) Technology, component, and material design
20	of electronics more suitable for disassembly and re-
21	cycling of rare earth material.
22	(3) Collection, logistics, and reverse supply
23	chain optimization as related to recycling rare earth
24	materials from electronics.

- 1 (d) Grant Requirements.—The Secretary shall
- 2 issue requirements for applying for grants under the Ini-

3 tiative.

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