Session of 2025

SENATE BILL No. 171

By Committee on Utilities

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AN ACT concerning the department of health and environment; relating to 1 2 radiation protection and control; authorizing the secretary of health and environment to license nuclear fusion systems; establishing such 3 4 licensure fee; authorizing the secretary to impose late fees for any expired radiation protection and control license; amending K.S.A. 2024 5 6 Supp. 48-1603 and 48-1606 and repealing the existing sections. 7 8 Be it enacted by the Legislature of the State of Kansas: 9 Section 1. K.S.A. 2024 Supp. 48-1603 is hereby amended to read as 10 follows: 48-1603. As used in this act: 11 "By-product material" means: (1) Any radioactive material, except (a) 12 special nuclear material, yielded in or made radioactive by exposure to the radiation incident to the process of producing or utilizing special nuclear 13 14 material: 15 (2) the tailings or wastes produced by the extraction or concentration of uranium or thorium from any ore processed primarily for its source 16 17 material content: 18 (3) (A) any discrete source of radium-226 that is produced, extracted 19 or converted after extraction for use for a commercial, medical or research 20 activity; or 21 (B) any material that: 22 (i) Has been made radioactive by use of a particle accelerator; and 23 (ii) is produced, extracted or converted after extraction for use for a commercial, medical or research activity; or 24 25 (4) any discrete source of naturally occurring radioactive material, 26 other than source material, that: 27 (A) The secretary declares by order would pose a threat to the public health and safety or the common defense and security similar to the threat 28 29 posed by a discrete source of radium-226 after the United States nuclear 30 regulatory commission, or any successor thereto, determines the same; and 31 (B) is extracted or converted after extraction for use in a commercial, 32 medical or research activity. 33 (b) "Department" means the Kansas department of health and 34 environment 35 (c) "Civil penalty" means any monetary penalty levied on a licensee 36 or registrant because of violations of statutes, regulations, licenses or

1 registration certificates, but does not include criminal penalties.

2 (d) "Closure" or "site closure" means all activities performed at a 3 waste disposal site, such as stabilization and contouring, to assure that the 4 site is in a stable condition so that only minor custodial care, surveillance 5 and monitoring are necessary at the site following termination of licensed 6 operation.

7 (e) "Decommissioning" means final operational activities at a facility 8 to dismantle site structures, to decontaminate site surfaces and remaining 9 structures, to stabilize and contain residual radioactive material and to 10 carry out any other activities to prepare the site for postoperational care.

11 (f) "Disposal of low-level radioactive waste" means the isolation of 12 such waste from the biosphere.

(g) "Electronic product" means any manufactured or assembled:

(1) Product which, when in operation, contains or acts as part of an
 electronic circuit and emits, or in the absence of effective shielding or
 other controls would emit, electronic product radiation; or

17 (2) article-which *that* is intended for use as a component part, or 18 accessory of a product described in this subsection and-which *that* in 19 operation emits, or in the absence of effective shielding or other controls 20 would emit, such radiation.

(h) "Electronic product radiation" means any ionizing or nonionizing,
electromagnetic or particulate radiation, or any sonic, infrasonic, or
ultrasonic wave, which *that* is emitted from an electronic product as the
result of the operation of an electronic circuit in such product.

(i) "General license" means a license effective pursuant to rules and
regulations promulgated by the secretary of health and environment,
without the filing of an application to transfer, acquire, own, possess or use
quantities of, or devices or equipment utilizing by-product, source, special
nuclear materials, or other radioactive material occurring naturally or
produced artificially.

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(j) "High-level radioactive waste" means:(1) Irradiated reactor fuel:

(2) liquid wastes resulting from the operation of the first cycle solvent
extraction system, or equivalent, and the concentrated wastes from
subsequent extraction cycles, or equivalent, in a facility for uranium
processing irradiated reactor fuel; and

(3) solids into which such liquid wastes have been converted.

38 (k) "Low-level radioactive waste" means radioactive waste not39 classified as:

40 (1) NORM waste or TENORM waste at concentrations and from 41 sources established in rules and regulations adopted by the secretary on or 42 before July 1, 2016;

43 (2) high-level radioactive waste;

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1 (3) transuranic waste: 2

(4) spent nuclear fuel; or

(5) by-product material as defined in subsection (a)(2).

4 (1)"Person" means any individual, corporation, partnership, firm, 5 association, trust, estate, public or private institution, group, agency, 6 political subdivision of this state, or any other state or political subdivision 7 or agency thereof, and any legal successor, representative, agency, or 8 agency of the foregoing, other than. "Person" does not include the United States nuclear regulatory commission, or any successor thereto, and other 9 than or any federal government-agencies agency licensed by the United 10 States nuclear regulatory commission, or any successor thereto. 11

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(m) "Radiation" means:

13 (1) Ionizing radiation including gamma rays, X-rays, alpha particles, 14 beta particles; and including neutrons;

(2) any electromagnetic radiation other than ionizing radiation-which 15 16 that is generated during the operation of an electronic product; or

17 (3) any sonic, ultrasonic; or infrasonic wave-which that is emitted 18 from an electronic product as a result of the operation of an electronic 19 circuit in such product.

20 (n) "Radioactive material" means any material, solid, liquid or gas, 21 which that emits ionizing radiation spontaneously.-It "Radioactive 22 material" includes accelerator produced, by-product, naturally occurring, 23 source and special nuclear materials.

(o) "Secretary" means the secretary of the Kansas department of 24 25 health and environment.

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(p) "Source material" means:

(1) Uranium, thorium or any other material-which that the secretary 27 28 declares by order to be source material after the United States nuclear 29 regulatory commission, or any successor thereto, has determined the 30 material to be such; or

31 (2) ores containing one or more of the foregoing materials, in such 32 concentration as the secretary declares by order to be source material after 33 the United States nuclear regulatory commission, or any successor thereto, 34 has determined the material in such concentration to be source material.

(q) "Source material mill tailings" means the tailings or waste 35 36 produced by the extraction or concentration of uranium or thorium from 37 any ore processed primarily for its source material content, including 38 discrete surface wastes resulting from underground solution extraction 39 processes but not including underground ore bodies depleted by such 40 solution extraction process.

41 (r) "Source material milling" means any processing of ore, including 42 underground solution extraction of unmined ore, primarily for the purpose 43 of extracting or concentrating uranium or thorium therefrom-and which 1 *that* results in the production of source material mill tailings.

(s) "Sources of radiation" means, collectively, radioactive material
 and radiation generating equipment.

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(t) "Special nuclear material" means:

5 (1) Plutonium, uranium 233, uranium enriched in the isotope 233 or 6 in the isotope 235, and any other material-which *that* the secretary declares 7 by order to be special nuclear material after the United States nuclear 8 regulatory commission, or any successor thereto, has determined the 9 material to be such, but does not include source material; or

10 (2) any material artificially enriched by any of the foregoing, but does 11 not include source material.

(u) "Specific license" means a license issued after application, to use,
 manufacture, produce, transfer, receive, acquire, own or possess quantities
 of, or devices or equipment utilizing by-product, source, special nuclear
 materials, or other radioactive material occurring naturally or produced
 artificially.

(v) "Spent nuclear fuel" means irradiated nuclear fuel that has
undergone at least one year's decay since being used as a source of energy
in a power reactor. "Spent nuclear fuel" includes the special nuclear
material, by-product material, source material and other radioactive
material associated with fuel assemblies.

(w) "Transuranic waste" means radioactive waste containing alpha
 emitting transuranic elements, with radioactive half-lives greater than five
 years, in excess of 10 nanocuries per gram.

(x) "Naturally occurring radioactive material" or "NORM" means any
nuclide that is radioactive in the nuclide's natural physical state. "NORM"
does not include accelerator produced, by-product, source or special
nuclear material.

(y) "NORM waste" means solid waste as defined in K.S.A. 65-3402,
and amendments thereto, that is contaminated with NORM.

(z) "Technologically enhanced NORM" or "TENORM" means
NORM whose radionuclide concentrations are increased by or as a result
of past or present human practices. "TENORM" does not include
accelerator produced, by-product, source or special nuclear material.

(aa) "TENORM waste" means solid waste as defined in K.S.A. 653402, and amendments thereto, that is contaminated with TENORM.

(bb) "Fusion system" means a system that, through use of byproduct
material or production of byproduct material, induces fusion reactions.
"Fusion system" includes particle accelerators that induce fusion
reactions and any radiation, radioactive material and supporting
structures, systems and components that are used to contain, process or
control radiation and radioactive materials used in or resulting from
fusion reactions.

Sec. 2. K.S.A. 2024 Supp. 48-1606 is hereby amended to read as 1 follows: 48-1606. (a) The secretary of health and environment shall be 2 responsible for state radiation control. 3

(b) The secretary, for the protection of the public health and safety, 4 shall develop programs for evaluation of hazards associated with use of 5 sources of radiation. 6 7

(c) The secretary may:

8 (1) Advise, consult and cooperate with other agencies of the state, the 9 federal government, other states and interstate agencies, political subdivisions and with groups concerned with control of sources of 10 11 radiation:

12 (2) accept and administer grants or gifts, conditional or otherwise, in furtherance of its functions, from the federal government and from other 13 14 sources, public or private;

(3) collect and disseminate information relating to control of sources 15 16 of radiation:

17 (4) encourage, participate in, or conduct studies, investigations, training, research and demonstrations relating to control of sources of 18 19 radiation:

20 (5) in accordance with the laws of the state, employ, compensate and 21 prescribe the powers and duties of such individuals as may be necessary to 22 carry out the responsibilities set forth herein;

23 (6) institute training programs for the purpose of qualifying personnel to carry out the provisions of this act, and make personnel available for 24 participation in any program or programs of the federal government, other 25 states or interstate agencies in furtherance of the purposes of this act; 26

(7) fix, charge and collect fees for licenses and registrations, and 27 renewals thereof, issued under the nuclear energy development and 28 29 radiation control act to cover all or any part of the cost of administering such act; and 30

31 (8) receive any moneys in the form of grants, gifts, licensing or 32 registration fees, or as paid under an agreement with the secretary or as reimbursement for remedial action costs. 33

(d) Subject to the following limitations, the secretary may assess a fee 34 35 for the following categories of radiation protection services:

36 Fee Category:

37 Special nuclear material 1.

- 38 Licenses for possession and use of special nuclear material in Α 39 sealed sources contained in devices used in industrial
- measuring systems 40
- Maximum annual fee.....\$950 41
- Any licenses not otherwise specified in this table for 42 B. 43 possession and use of special nuclear material, except licenses

1			authorizing special nuclear material in unsealed form in
2			combination that would constitute a critical mass
3			Maximum annual fee\$2,250
4	2.	Source	e material
4 5	2.	A.	Licenses that authorize only the possession, use and/or
5 6		A.	installation of source material for shielding
7			Maximum annual fee\$365
8		р	All other source material licenses not otherwise specified in
o 9		В.	1
9 10			this table Maximum annual fee\$5,700
10	3.	Dadia	pactive or byproduct material
11	5.	A.	Licenses of broad scope for possession and use of radioactive
12		A.	or byproduct material issued for processing or manufacturing
13			of items containing radioactive or byproduct material for
14 15			commercial distribution
15			Maximum annual fee\$10,900
17		B.	Other licenses for possession and use of radioactive or
18		D.	byproduct material issued for processing or manufacturing of
19			items containing radioactive or byproduct material for
20			commercial distribution
20			Maximum annual fee\$3,300
22		C.	Licenses authorizing the processing or manufacturing and
22		C.	distribution or redistribution of radiopharmaceuticals,
23 24			generators, reagent kits and/or sources and devices containing
25			radioactive or byproduct material. This category also includes
26			the possession and use of source material for shielding when
27			included on the same license
28			Maximum annual fee\$5,450
29		D.	Licenses and approvals authorizing distribution or
30		D.	redistribution of radiopharmaceuticals, generators, reagent kits
31			and/or sources or devices not involving processing of
32			radioactive or byproduct material. This category also includes
33			the possession and use of source material for shielding when
34			included on the same license
35			Maximum annual fee\$2,350
36		E.	Licenses for possession and use of radioactive or byproduct
37			material in sealed sources for irradiation of materials in which
38			the source is not removed from its shield (self-shielded units)
39			Maximum annual fee\$1,800
40		F.	Licenses for possession and use of less than 10,000 curies of
41			radioactive or byproduct material in sealed sources for
42			irradiation of materials in which the source is exposed for
43			irradiation purposes. This category also includes underwater

1 2		irradiators for irradiation of materials in which the source is not exposed for irradiation purposes
3		Maximum annual fee\$3,300
4	G.	Licenses for possession and use of 10,000 curies or more of
5		radioactive or byproduct material in sealed sources for
6		irradiation of materials in which the source is exposed for
7		irradiation purposes. This category also includes underwater
8		irradiators for irradiation of materials in which the source is
9		not exposed for irradiation purposes
10		Maximum annual fee\$12,050
11	H.	Licenses issued to distribute items containing radioactive or
12		byproduct material that require device review to persons
13		exempt from licensing, except specific licenses authorizing
14		redistribution of items that have been authorized for
15		distribution to persons exempt from licensing
16		Maximum annual fee\$3,000
17	I.	Licenses issued to distribute items containing radioactive or
18		byproduct material or quantities of radioactive or byproduct
19		material that do not require device review to persons exempt
20		from licensing, except for specific licenses authorizing
21		redistribution of items that have been authorized for
22		distribution to persons exempt from licensing
23		Maximum annual fee\$3,050
24	J.	Licenses issued to distribute items containing radioactive or
25		byproduct material that require sealed source and/or device
26		review to persons generally licensed, except specific licenses
27		authorizing redistribution of items that have been authorized
28		for distribution to persons generally licensed
29		Maximum annual fee\$1,100
30	Κ.	Licenses issued to distribute items containing radioactive or
31		byproduct material or quantities of radioactive or byproduct
32		material that do not require sealed source and/or device review
33		to persons generally licensed, except specific licenses
34		authorizing redistribution of items that have been authorized
35		for distribution to persons generally licensed
36		Maximum annual fee\$700
37	L.	Licenses of broad scope for possession and use of radioactive
38		or byproduct material issued for research and development that
39		do not authorize commercial distribution
40		Maximum annual fee\$5,900
41	М.	Other licenses for possession and use of radioactive or
42		byproduct material issued for research and development that
43		do not authorize commercial distribution

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1			Maximum annual fee\$2,800
2		N.	Licenses that authorize services for other licensees, except (1)
3		14.	Licenses that authorize only calibration and/or leak testing
4			services are subject to the fees specified in fee category 3P;
5			and (2) licenses that authorize waste disposal services are
6			subject to the fees specified in fee categories 4A, 4B and 4C
7			Maximum annual fee\$3,050
8		О.	Licenses for possession and use of radioactive or byproduct
9		0.	material for industrial radiography operations. This category
10			also includes the possession and use of source material for
11			shielding when authorized on the same license
12			Maximum annual fee\$6,100
13		P.	All other specific radioactive or byproduct material licenses
14			not otherwise specified in this table
15			Maximum annual fee\$1,250
16		Q.	Registration of generally licensed devices or sources
17			Maximum annual fee\$225
18	4.	Waste	disposal and processing
19		A.	Licenses authorizing the possession and use of waste
20			radioactive, by-product, source or special nuclear material for a
21			commercial low-level radioactive waste disposal facility.
22			Maximum annual feeFull cost
23		i.	Amendment to license concerning safety and environmental
24			questions
25			Maximum amendment feeFull cost
26		ii.	\mathcal{O} 1
27			(no safety or environment questions)
28			Maximum amendment feeFull cost
29		В.	Licenses specifically authorizing the receipt of waste
30			radioactive or byproduct material, source material or special
31			nuclear material from other persons for the purpose of
32			packaging or repackaging the material. The licensee will
33			dispose of the material by transfer to another person authorized
34			to receive or dispose of the material
35		a	Maximum annual fee\$5,150
36		C.	Licenses specifically authorizing the receipt of prepackaged
37			waste radioactive or byproduct material, source material or
38			special nuclear material from other persons. The licensee will
39			dispose of the material by transfer to another person authorized
40			to receive or dispose of the material
41 42	F	Wall	Maximum annual fee\$3,700
42 43	5.	A.	ogging Licenses for possession and use of radioactive or byproduct
43		A.	Licenses for possession and use of radioactive of byproduct

1			material, source material and/or special nuclear material for
2			well logging, well surveys and tracer studies other than field
3			flooding tracer studies
4			Maximum annual fee\$2,350
5		В.	Licenses for possession and use of radioactive or byproduct
6			material for field flooding tracer studies
7			Maximum annual fee\$2,350
8	6.	Nucle	ear laundries
9		A.	Licenses for commercial collection and laundry of items
10			contaminated with radioactive or byproduct material, source
11			material or special nuclear material
12			Maximum annual fee\$11,550
13	7.	Medi	cal licenses
14		A.	Licenses issued for human use of radioactive or byproduct
15			material, source material or special nuclear material in sealed
16			sources contained in teletherapy devices. This category also
17			includes the possession and use of source material for shielding
18			when authorized on the same license
19			Maximum annual fee\$5,500
20		B.	Licenses of broad scope issued to medical institutions or two
21			or more physicians authorizing research and development,
22			including human use of radioactive or byproduct material
23			except licenses for radioactive or byproduct material, source
24			material or special nuclear material in sealed sources contained
25			in teletherapy devices. This category also includes the
26			possession and use of source material for shielding when
27			authorized on the same license. Separate annual fees will not
28			be assessed for pacemaker licenses issued to medical
29			institutions who also hold nuclear medicine licenses under
30			categories 7B or 7C
31			Maximum annual fee\$12,350
32		C.	Other license issued for human use of radioactive or byproduct
33		C.	material, source material and/or special nuclear material except
34			licenses for radioactive or byproduct material, source material
35			or special nuclear material in sealed sources contained in
36			teletherapy devices. This category also includes the possession
37			and use of source material for shielding when authorized on
38			the same license. Separate annual fees will not be assessed for
39			pacemaker licenses issued to medical institutions who also
40			hold nuclear medicine licenses under categories 7B or 7C
40 41			Maximum annual fee\$2,300
41	8.	Civil	defense
42 43	σ.	A.	Licenses for possession and use of radioactive or byproduct
+J		A.	Electises for possession and use of fauloactive of byproduct

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1 2			material, source material or special nuclear material for civil defense activities
2 3			Maximum annual fee\$650
3 4	9.	Daria	
	9.		e, product or sealed source safety evaluation
5		A.	Safety evaluation review of devices or products containing
6			radioactive or byproduct material, source material or special
7			nuclear material, except reactor fuel devices, for commercial
8			distribution. This fee shall apply to each device or product
9		Б	Maximum annual fee\$3,500
10		B.	Safety evaluation review of devices or products containing
11			radioactive or byproduct material, source material or special
12			nuclear material manufactured in accordance with the unique
13 14			specifications of, and for use by, a single applicant, except
			reactor fuel devices. This fee shall apply to each device or
15 16			product \$2.500
10 17		C	Maximum annual fee\$3,500
		C.	Safety evaluation of sealed sources containing radioactive or
18 19			byproduct material, source material or special nuclear material,
19 20			except reactor fuel, for commercial distribution. This fee shall
20 21			apply to each device or product
21 22		D	Maximum annual fee\$1,100 Registrations issued for the safety evaluation of sealed sources
22		D.	containing radioactive or byproduct material, source material
23 24			or special nuclear material, manufactured in accordance with
24 25			the unique specifications of, and for use by, a single applicant.
23 26			This fee shall apply to each device or product
20 27			Maximum annual fee\$365
27	10.	Spee	ial projects
28 29	10.	A.	Hourly rate for radiation control program activities for which
29 30		A.	there is not an established fee category or for radiation
30			protection services provided to nonlicensees and nonregistrants
32			Maximum hourly rate
33	11.	Reci	procity
33 34	11.	A.	Licensees who conduct activities under a reciprocal agreement
35		A.	Maximum annual fee\$750
36		B.	Registrants who conduct activities under a reciprocal
37		D.	agreement
38			Maximum annual fee\$200
39	12.	X_r9	y machines
40	14.	A-1 a	Base registration fee per facility
40 41		п.	Maximum annual fee\$200
42		B.	Registration fee for each x-ray tube at a facility. This fee is in
43		D.	addition to the base registration fee
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1	Maximum annual fee per x-ray tube\$50
2	13. Accelerators
3	A. Particle accelerators
4	Maximum annual fee\$300
5	14. New license and registration applications
6	A. New license and registration applications. Equal to annual fee
7	of applicable category
8	15. Fusion system
9	A. Licenses that authorize only the possession, use
10	or installation of a fusion system
11	Maximum annual fee\$40,000
12	For licenses or registrations that authorize more than one activity, an
13	annual fee shall be assessed for each of the applicable categories.
14	(e) (1) An additional fee up to 50% of the maximum annual fee shall
15	be assessed for each noncontiguous site where radioactive material is
16	stored or used under the same license, per category.
17	(2) As used in this subsection, "noncontiguous site" means a location
18	more than one mile away from the main safety office where licensure
19	records are maintained.
20	(f) The secretary may assess a late fee for any license or registration
21	that is not timely renewed. Such late fee may be assessed as follows:
22	(1) For any license or registration that is renewed one to 30 days
23	after the expiration date of a license or registration, the secretary may
24	assess a maximum late fee in an amount not to exceed 25% of the annual
25	license or registration fee; and
26	(2) for any license or registration that is renewed 31 days or more
27	after the expiration date of a license or registration, the secretary may
28	assess a maximum late fee in an amount not to exceed 50% of the annual
29	license or registration fee.
30	(g) The secretary shall adopt rules and regulations fixing the fees for
31	the radiation protection services provided under this act and shall
32	periodically increase or decrease such fees consistent with the need to
33	cover all or any part of the cost of administering such act.
34	Sec. 3. K.S.A. 2024 Supp. 48-1603 and 48-1606 are hereby repealed.
35	Sec. 4. This act shall take effect and be in force from and after its
36	publication in the statute book.