1	State of Arkansas	As Engrossed: H2/10/21		
2	93rd General Assembly	A Bill		
3	Regular Session, 2021		HOUSE BILL 1154	
4				
5	By: Representative Ladyma	n		
6	By: Senator D. Wallace			
7				
8		For An Act To Be Entitled		
9	AN ACT TO AMEND AND UPDATE THE ARKANSAS CODE			
10	REGARDINO	G REGULATION OF IONIZING RADIATION TO	O COMPLY	
11	WITH FEDI	ERAL LAWS AND REGULATIONS; AND FOR O	ГНЕR	
12	PURPOSES	•		
13				
14				
15		Subtitle		
16	TO A	AMEND AND UPDATE THE ARKANSAS CODE		
17	REG	ARDING REGULATION OF IONIZING		
18	RAD	IATION TO COMPLY WITH FEDERAL LAWS A	ND	
19	REG	ULATIONS.		
20				
21				
22	BE IT ENACTED BY THE	GENERAL ASSEMBLY OF THE STATE OF ARE	KANSAS:	
23				
24	SECTION 1. Ark	kansas Code § 20-21-202(3), concerni	ng the purpose of the	
25	subchapter regarding	ionizing radiation, amended to read	as follows:	
26	(3) To e	establish procedures for assumption a	and performance of	
27	certain regulatory re	esponsibilities with respect to by p	r oduct, source, and	
28	special nuclear mater	rials <u>radioactive materials</u> and radia	ation equipment and	
29	to provide for regist	tration of persons providing radiatio	⊃n machine	
30	installation service	personnel; and		
31				
32	SECTION 2. Ark	kansas Code § 20-21-203 is amended to	o read as follows:	
33	20-21-203. Def	finitions.		
34	As used in this	s subchapter:		
35	(1) "Acc	celerator or particle accelerator, me	edical" means a	
36	device used to impart	t kinetic energy of not greater than	one hundred	

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    megaelectronvolts (100 MeV) to electrically charged particles such as
 2
    electrons, protons, deuterons, and helium ions, and which is used for medical
 3
    purposes;
 4
                 (2) "Accelerator or particle accelerator, nonmedical" means a
 5
     device used to impart kinetic energy of not greater than one hundred
6
    megaelectronvolts (100 MeV) to electrically charged particles such as
 7
    electrons, protons, deuterons, and helium ions, and which is not used for
8
    medical purposes;
9
                 (3) "Accelerator-produced radioactive material" means any
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    material made radioactive, so as to emit radiation spontaneously, by a
11
    particle accelerator;
12
                (4) [Repealed.]
13
                (5)(4) "Assembler" means any person who is engaged in the
14
    business of installing or offering to install radiation machines or
15
     components associated with radiation machines;
16
                (6) [Repealed.]
17
                (7)(5) "By-product material" means:
                      (A) Any any radioactive material, except special nuclear
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19
     material, yielded in or made radioactive by exposure to the radiation
20
     incident to the process of producing or utilizing special nuclear material;
21
                      (B) The tailings or wastes produced by the extraction or
22
     concentration of uranium or thorium from ore processed primarily for its
23
    source material content, including discrete surface wastes resulting from
    uranium solution extraction processes. Underground ore bodies depleted by
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25
     these solution extraction operations do not constitute by-product material
    within this definition;
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27
                      (C)(i) Any discrete source of radium-226 that is produced,
     extracted, or converted after extraction, before, on or after August 8, 2005,
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29
     for use for a commercial, medical, or research activity; or
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                            (ii) Any material that:
                                   (a) Has been made radioactive by use of a
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32
    particle accelerator; and
33
                                   (b) Is produced, extracted, or converted after
    extraction, before, on, or after August 8, 2005, for use for a commercial,
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35
    medical, or research activity; and
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                       (D) Any discrete source of naturally occurring radioactive
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T	material, other than source material, that:
2	(i) The United States Nuclear Regulatory Commission,
3	in consultation with the Administrator of the United States Environmental
4	Protection Agency, the United States Secretary of Energy, the United States
5	Secretary of Homeland Security, and the head of any other appropriate federal
6	agency, determines would pose a threat similar to the threat posed by a
7	discrete source of radium-226 to the public health and safety or the common
8	defense and security; and
9	(ii) Before, on, or after August 8, 2005, is
10	extracted or converted after extraction for use in a commercial, medical, or
11	research activity;
12	$\frac{(8)}{(6)}$ "Calibration sources — consulting services" means any
13	individual, group of individuals, or company possessing a sealed radioactive
14	source used for the calibration of radiation-measuring instruments or
15	radiation machines devices as authorized by a radioactive material license;
16	(9) "Category I-A hospital" means a hospital or medical center
17	that meets one (1) of the following criteria:
18	(A) Has a nuclear medicine department, one (1) or more X-
19	ray machines, and one (1) or more particle accelerator units; or
20	(B) Has a nuclear medicine department, eleven (11) or more
21	X-ray machines, and one (1) or more teletherapy units;
22	(10) "Category I-B hospital" means a hospital or medical center
23	that has a nuclear medicine department, has ten (10) or fewer X-ray machines,
24	and has one (1) or more teletherapy units;
25	(11) "Category II-A hospital" means a hospital or medical center
26	that meets one (1) of the following criteria:
27	(A) Has a nuclear medicine department and eleven (11) or
28	more X-ray machines;
29	(B) Has a nuclear medicine department and one (1) or more
30	particle accelerator units;
31	(C) Has one (1) or more X-ray machines and one (1) or more
32	particle accelerator units; or
33	(D) Has eleven (11) or more X-ray machines and one (1) or
34	more teletherapy units;
35	(12) "Category II-B hospital" means a hospital or medical center
36	that meets one (1) of the following criteria:

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1
                       (A) Has a nuclear medicine department and ten (10) or
 2
     fewer X-ray machines;
 3
                       (B) Has a nuclear medicine department and one (1) or more
 4
     teletherapy units; or
 5
                       (C) Has ten (10) or fewer X-ray machines and one (1) or
 6
     more teletherapy units;
 7
                 (13) "Category III hospital" means a hospital or medical center
8
     that meets one (1) of the following criteria:
9
                       (A) Has a nuclear medicine department;
10
                       (B) Has one (1) or more X-ray machines; or
11
                       (C) Has one (1) or more teletherapy units;
12
                 (14) "Chiropractor" means a person licensed by the Arkansas
13
     State Board of Chiropractic Examiners;
14
                 \frac{(15)}{(7)} "Civil penalty" means any monetary penalty levied on a
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     licensee or registrant because of violation of statutes, regulations rules,
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     licenses, or registration certificates but does not include criminal
17
     penalties;
18
                 (8) "Closure" means all activities performed at a waste disposal
19
     site, such as stabilization and contouring, to assure that the site is in a
20
     stable condition so that only minor custodial care, surveillance, and
     monitoring are necessary at the site following termination of licensed
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22
     operation;
23
                 (16)(9) "Decommissioning" means final operational activities at
24
     a facility to dismantle site structures, to decontaminate site surfaces and
25
     remaining structures, to stabilize and contain residual radioactive material,
26
     and to carry out any other activities to prepare the site for post-
27
     operational care;
28
                 (17)(10) "Dental radiographic unit" means any X-ray device that
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     is subject to the requirements for intraoral dental radiographic systems set
     forth in the rules for control of sources of ionizing radiation promulgated
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31
     by the State Board of Health;
32
                 (18) [Repealed.]
33
                 (19)(11) "Gas chromatograph and X-ray fluorescence devices"
     means analytical laboratory instruments designed for qualitative and
34
35
     quantitative analysis using radioactive material as a component of the
     instrument detector or as a fluorescence excitation source;
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- 1 (20)(A)(12)(A) "General license" means a license effective
 2 pursuant to rules promulgated by the State Radiation Control Agency without
 3 the filing of an application with the Department of Health or the issuance of
 4 licensing documents to particular persons to transfer, acquire, own, possess,
 5 or use quantities of radioactive material or devices or equipment utilizing
 6 radioactive material.
 7 (B) "Specific license" means a license issued to a named
- 7 (B) "Specific license" means a license issued to a named
 8 person upon application filed pursuant to rules promulgated under this
 9 subchapter to use, manufacture, produce, transfer, receive, acquire, own, or
 10 possess quantities of radioactive material or equipment utilizing radioactive
 11 material.
- 12 (C) "Academic broad license" means any radioactive
 13 material license issued to a college or university and subject to the special
 14 requirements for "specific licenses of broad scope" as set forth in the rules
 15 for control of sources of ionizing radiation promulgated by the State Board
 16 of Health.
- 17 (D) "Academic radioactive material license" means any 18 radioactive material license issued to a college or university, excluding 19 academic broad licenses;
 - (21)(13) "High-level radioactive waste" means:
- 21 (A) Irradiated reactor fuel;

- 22 (B) Liquid wastes resulting from the operation of the 23 first cycle solvent extraction system, or equivalent, and the concentrated 24 wastes from subsequent extraction cycles, or equivalent, in a facility for 25 reprocessing irradiated reactor fuel; and
- 26 (C) Solids into which such liquid wastes have been converted;
- 28 (22)(14) "Industrial units" means X-ray machines used within the 29 manufacturing industry and other industries and in industrial radiography;
- (23)(15) "In vitro laboratory testing" means nonhuman use of radioactive material for laboratory testing in accordance with a general license authorized by the rules for control of sources of ionizing radiation promulgated by the State Board of Health;
- 34 (24)(16) "Ionizing radiation" means gamma rays and X-rays, alpha 35 and beta particles, high-speed electrons, neutrons, protons, and other 36 nuclear particles, but it does not include sound or radio waves or visible,

1 infrared, or ultraviolet light; 2 (25)(17) "Irradiator" means a device or facility which contains 3 and uses sealed sources for the irradiation of objects or materials; 4 (26)(18) "Low-level radioactive waste" means radioactive waste 5 not classified as high-level radioactive waste, transuranic waste, spent 6 nuclear fuel, or by-product material as defined in Section 11e. (2) of the 7 Atomic Energy Act of 1954; 8 (27)(19) "Mobile nuclear medicine service" means the 9 transportation and medical use of by-product material and diagnostic 10 instrumentation; 11 (28)(20) "Naturally occurring radioactive material" means any 12 material of natural origin that emits radiation spontaneously, excluding 13 uranium, thorium, and the tailings produced in their extraction or 14 concentration; 15 (29)(21) "Nuclear gauge" means a device that uses radioactive 16 material as a means of measurement or testing; 17 (30)(22) "Nuclear medicine" means human use of radioactive 18 material for diagnostic or therapeutic purposes, not including radioisotope 19 teletherapy; 20 $\frac{(31)}{(23)}$ "Nuclear pharmacy" means a facility licensed by the 21 Arkansas State Board of Pharmacy for the purpose of compounding and 22 dispensing prescription drugs which contain or are intended to be used with 23 radioactive material. In addition, the facility is intended to provide 24 service for more than one (1) medical licensee; 25 (32) "Others", as used in the contexts of registration, means any X-ray machine which is not otherwise included in the definitions in this 26 27 section: 28 (33)(24) "Panoramic wet source storage irradiator" means a 29 controlled human access irradiator in which the sealed source is contained in a storage pool, usually containing water, and in which the sealed source is 30 31 fully shielded when not in use. The sealed source is exposed within a 32 radiation room that is maintained as inaccessible during use by interlocked 33 controls; 34 (34)(25) "Person" means: (A) Any any individual, corporation, partnership, firm, 35

association, trust, estate, public or private institution, group, agency of

1 this state, political subdivision of this state, of any other state, or 2 political subdivision or agency thereof; and 3 (B) Any any legal successor, representative, agent, or 4 agency of the foregoing, other than the United States Atomic Energy 5 Commission, or any successor thereto, and other than United States Covernment 6 agencies licensed by the United States Atomic Energy Commission, or any 7 successor thereto but not including United States Government agencies; 8 (35)(26) "Physician" means any individual possessing a valid 9 physician's and surgeon's certificate issued by this state a doctor of medicine or doctor of osteopathy licensed by the Arkansas State Medical Board 10 11 to prescribe drugs in the practice of medicine; 12 (36) "Podiatrist" means a person licensed by the Arkansas Board 13 of Podiatric Medicine; 14 (37)(27) "Private practice" means any use of radioactive 15 material subject to the requirements for licensing of individual physicians 16 for human use of radioactive materials as set forth in the rules for control 17 of sources of ionizing radiation promulgated by the State Board of Health, 18 excluding those installations subject to the requirements for X-ray and 19 electron therapy systems with energies of one megaelectronvolt (1 MeV) and 20 above and for teletherapy as set forth in the same rules; (38)(28) "Radiation equipment" means any manufactured product or 21 22 device, or component part of a product or device, or any machine or system 23 which during operation can generate or emit ionizing radiation, except those 24 which emit radiation only from radioactive material; 25 (39)(29)(A) "Radioactive material" means any material, whether 26 solid, liquid, or gas, which emits ionizing radiation spontaneously. 27 (B) "Radioactive material" includes accelerator produced, 28 by-product, naturally occurring, source, and special nuclear materials; 29 (40)(30) "Radioactive waste management" means storage, 30 treatment, or disposal of radioactive wastes; 31 (41)(31) "Radiography" means the examination of the macroscopic 32 structure of materials by nondestructive methods utilizing sources of 33 ionizing radiation; 34 $\frac{(42)}{(32)}$ (32)(A) "Radioisotope teletherapy" means the use of radiation from a sealed radioactive source for medical treatment. 35 36 (B) "Radioisotope teletherapy" This does not include

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     radiation from sealed radioactive sources implanted within individuals or on-
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     surface contact with individuals;
                 (43)(33) "Reciprocity" means the reciprocal recognition of
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     licenses, registrations, or the equivalent issued by the United States
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     Nuclear Regulatory Commission or any agreement state other than Arkansas,
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     subject to provisions for reciprocal recognition of licenses, registrations,
 7
     or the equivalent as set forth in the rules for control of sources of
8
     ionizing radiation promulgated by the State Board of Health;
                 (44)(34) "Registration" means registration with the Department
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     of Health by any person possessing any source of ionizing radiation in
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     accordance with rules and standards adopted by the Department of Health
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     promulgated by the State Board of Health;
                 (45)(35) "Service personnel" means any person who is engaged in
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14
     the business of offering or performing:
15
                       (A) Repair or service of radiation machines and associated
     radiation machine components;
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17
                       (B) Repair or service of devices containing radioactive
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     material;
19
                       (B)(C) Calibration of radiation machines;
                       (C)(D) Calibration of radiation instrumentation or
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     devices; or
22
                       (D)(E) Furnishing personnel dosimetry services to State
23
     Radiation Control Agency licensees or registrants;
24
                 (36)(A) "Source material" means:
25
                             (i) Uranium, thorium, or any combination thereof, in
     any physical or chemical form; or
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27
                             (ii) Ores that contain by weight one-twentieth of
     one percent (0.05%) or more of uranium, thorium, or any combination thereof.
28
                       (B) "Source material" does not include special nuclear
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     material;
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                 (37) "Sources of radiation" means, collectively, radioactive
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     material and radiation equipment;
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                 (46)(38) "Special nuclear material" means:
                       (A) Plutonium, <del>uranium 233</del> uranium-233, uranium enriched
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     in the isotope 233 or in the isotope 235, and any other material which the
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     Governor declares by order to be special nuclear material after that the
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1	United States Atomic Energy Commission, or any successor thereto, has	
2	determined the material to be such Nuclear Regulatory Commission under the	
3	provisions of § 51 of the Atomic Energy Act of 1954, as amended, determines	
4	to be special nuclear material but does not include source material; or	
5	(B) Any material artificially enriched by any of the	
6	foregoing but does not include source material;	
7	(39)(A) "Spent nuclear fuel" means fuel that has been	
8	withdrawn from a nuclear reactor following irradiation, has undergone at	
9	least one (1) year's decay since being used as a source of energy in a power	
10	reactor, and has not been chemically separated into its constituent elements	
11	by reprocessing.	
12	(B) "Spent nuclear fuel" includes special nuclear	
13	material, by-product material, source material, and other radioactive	
14	material associated with fuel assemblies;	
15	(47) "Source material" means:	
16	(A) Uranium, thorium, or any other material which the	
17	Governor declares by order to be source material after the United States	
18	Atomic Energy Commission, or any successor thereto, has determined the	
19	material to be such; or	
20	(B) Ores containing one (1) or more of the foregoing	
21	materials, in such concentration as the Governor declares by order to be	
22	source material after the United States Atomic Energy Commission, or any	
23	successor thereto, has determined the material in such concentration to be	
24	source material;	
25	(48) "Sources of radiation" means, collectively, radioactive	
26	material and radiation equipment;	
27	(40) "Transuranic waste" means radioactive waste containing	
28	alpha-emitting transuranic elements, with radioactive half-lives greater than	
29	five (5) years, in excess of ten (10) nanocuries per gram;	
30	$\frac{(49)(41)}{(41)}$ "Veterinary medicine radiographic systems" means any X-	
31	ray device that is subject to the requirements for veterinary medicine	
32	radiographic installations set forth in the rules for control of sources of	
33	ionizing radiation promulgated by the State Board of Health;	
34	(50)(42) "Wireline service operation" means any evaluation or	
35	mechanical service which is performed in the well-bore a wellbore, using	
36	devices on a wireline: and	

1 (51)(43) "X-ray tube" means any electron tube which is designed 2 to be used primarily for the production of X-rays.

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4 SECTION 3. Arkansas Code § 20-21-207 is amended to read as follows:

- 5 20-21-207. State Radiation Control Agency Powers and duties
- 6 generally.
- 7 <u>(a)</u> For the protection of the occupational and public health and 8 safety, the State Radiation Control Agency shall:
- 9 (1) Develop programs for evaluation and control of hazards 10 associated with the use of sources of ionizing radiation;
- 11 (2) Develop programs, with due regard for compatibility with 12 federal programs, for regulation of by-product, source, and special nuclear 13 materials radioactive material and for regulation of radiation equipment;
- (3) Formulate, adopt, promulgate, and repeal codes and rules
 which may provide for licensing or registration relating to control, storage,
 or disposal of sources of ionizing radiation with due regard for
 compatibility with the regulatory programs of the United States Government;
 - (4) Issue such orders or modifications as may be necessary in connection with proceedings under this subchapter. This power is intended for use in conjunction with any licensing or registration authority;
 - (5) Advise, consult, and cooperate with other agencies of the state, the United States Government, other states and interstate agencies, political subdivisions, and groups concerned with control of sources of ionizing radiation;
 - (6) Have the authority to accept and administer loans, grants, or other funds or gifts, conditional or otherwise, in furtherance of its functions, from the United States Government and from other sources, public or private;
- 29 (7) Encourage, participate in, or conduct studies, 30 investigations, training, research, and demonstrations relating to control of 31 sources of ionizing radiation; and
- 32 (8) Collect and disseminate information relating to control of 33 sources of ionizing radiation, including:
- 34 (A) Maintenance of a file of all license <u>or registration</u> 35 applications, issuances, denials, amendments, transfers, renewals, 36 modifications, suspensions, and revocations;

1 (B) Maintenance of a file of general license registrants 2 possessing sources of ionizing radiation requiring registration under this subchapter and any administrative or judicial action pertaining thereto; and 3 4 (C) Maintenance of a file of all rules and regulations 5 relating to regulation of sources of ionizing radiations radiation, pending 6 or promulgated, and proceedings thereon;. 7 (9)(A)(b)(1) Be The State Radiation Control Agency is authorized 8 to acquire by purchase, acceptance, or condemnation, for and on behalf of the 9 State of Arkansas, any lands, buildings, and grounds where radioactive by-10 products and wastes produced by industrial, medical, agricultural, 11 scientific, or other organizations can be concentrated, stored, or otherwise 12 disposed of in a manner consistent with the public health and safety. (B)(2) The State Radiation Control Agency may exercise its 13 14 power to condemn as prescribed by law for condemnation by the Arkansas 15 Department of Transportation in § 27-67-301 et seq.; 16 (3) The State Radiation Control Agency shall not approve any 17 application for a license to receive radioactive waste from other persons for 18 disposal on land not owned by the state or the United States Government. 19 (10)(A) Allow the Secretary of the Department of Health or his 20 or her authorized representative to require the posting of a bond by licensees to provide funds in the event of abandonment, default, or other 21 22 inability of the licensee to meet the requirements of the State Radiation 23 Control Agency. The State Radiation Control Agency may establish bonding 24 requirements by classes of licensee and by range of monetary amounts. In 25 establishing the requirements, the State Radiation Control Agency shall give 26 consideration to the potential for contamination, injury, cost of disposal, 27 and reclamation of the property. 28 (c)(1)(A) For licensed activities involving commercial burial of 29 radioactive waste, the State Radiation Control Agency shall, and for other 30 classes of licensed activity the State Radiation Control Agency may, establish by rule standards and procedures to ensure that the licensee will 31 32 provide an adequate surety or other financial arrangement to permit the 33 completion of all requirements established by the State Radiation Control 34 Agency for the decontamination, closure, decommissioning, and reclamation of sites, structures, and equipment used in conjunction with such licensed 35 36 activity, in case the licensee should default for any reason in performing

1	such requirements.		
2	(B)(i) The State Radiation Control Agency shall deposit		
3	the proceeds from all forfeited bonds into a special fund known as and call		
4	the "Radiation Reclamation Fund". All sureties required under subdivision		
5	(c)(l)(A) of this section that are forfeited shall be paid to the State		
6	Radiation Control Agency for deposit by the Treasurer of State in a special		
7	fund called the "Radiation Site Closure and Reclamation Fund".		
8	(ii) All moneys in the Radiation Reclamation Fund		
9	the Radiation Site Closure and Reclamation Fund are appropriated to the Sta		
10	Radiation Control Agency for use in effectuating protection of public health		
11	and safety and may be expended by the State Radiation Control Agency as		
12	necessary to complete such requirements on which licensees have defaulted.		
13	(iii) Moneys in the Radiation Reclamation Fund the		
14	Radiation Site Closure and Reclamation Fund shall not be used for normal		
15	operating expenses of the State Radiation Control Agency.		
16	(C) A bond deemed acceptable in Arkansas shall be a bond		
17	issued by a fidelity or surety company authorized to do business in Arkansas,		
18	a personal bond secured by such collateral as the secretary deems		
19	satisfactory, a cash bond, or a letter of credit.		
20	(D)(i) All state, local, or other governmental agencies or		
21	subdivisions shall be exempt from the requirements of this subdivision (10).		
22	(ii) The secretary may exempt classes of licensees		
23	from the requirements of this section when a finding is made that the		
24	exemption will not result in a significant risk to the public health and		
25	safety; and		
26	(11)(A)(2)(A) Allow The State Radiation Control Agency shall		
27	allow the secretary Secretary of the Department of Health or his or her		
28	authorized representative to require a licensee to deposit funds on an		
29	annual, semiannual, or quarterly basis into a trust fund established for the		
30	exclusive purpose set out in this subdivision $\frac{(11)(c)(2)}{(2)}$.		
31	(B) The Perpetual Maintenance Fund shall be defined so as		
32	to embrace each of the following:		
33	(i) A source of revenue to provide for perpetual		
34	care and the continuing long-term surveillance, maintenance, and other care		
35	of a radioactive waste concentration, storage, and disposal site as describe		
36	in subdivision (9) subsection (b) of this section or a source of revenue to		

- 1 provide for perpetual care and the continuing long-term surveillance,
- 2 <u>maintenance</u>, and other care of a formerly licensed activity still containing
- 3 or having associated with it radioactive material, the activity having ceased
- 4 to operate by reason of default, abandonment, or decommissioning;
- 5 (ii) The Perpetual Maintenance Fund shall have two
- 6 (2) inputs:
- 7 (a) Fees which are contributed by the lessee
- 8 or licensee resulting from the operation of concentrating, storing, or
- 9 disposing of radioactive material as set forth in subdivision (9) subsection
- 10 (b) of this section; and
- 11 (b)(1) Moneys accrued as interest on a trust
- 12 fund established by a licensee.
- 13 <u>(2)</u> These funds All trust fund moneys
- 14 <u>including moneys accrued as interest on the trust fund</u>, shall be
- 15 automatically transferred to the Perpetual Maintenance Fund in the event of
- 16 default, abandonment, or decommissioning;
- 17 (iii) Moneys in the Perpetual Maintenance Fund shall
- 18 be appropriated to the State Radiation Control Agency for use in a way
- 19 consonant with this subchapter, including such items as perpetual care,
- 20 maintenance, and surveillance long-term site surveillance, maintenance, and
- 21 other care; and
- 22 (iv) All licensee contributions to the Perpetual
- 23 Maintenance Fund shall be payable to the secretary and deposited by the
- 24 Treasurer of State.
- 25 $\frac{(B)(C)(i)}{(B)(C)(i)}$ To provide for the proper care and surveillance
- of licensed sites subject to subdivision $\frac{(11)(A)}{(c)(2)(B)(i)}$ of this
- 27 section, the state shall have the right to acquire by gift, transfer,
- 28 purchase, or condemnation from another government agency or private person
- 29 any lands, buildings, and grounds necessary to fulfill the purposes of this
- 30 section.
- 31 <u>(ii)</u> Any gift, transfer, purchase, or condemnation
- 32 shall be subsequently subject to be approved and accepted by the state.
- 33 (C) To effectuate the provisions of this subchapter, the
- 34 State Radiation Control Agency, by lease or license with any person, may
- 35 provide for the operation of a site. Any lessee or licensee operating under
- 36 the provisions of this subdivision (11) shall be subject to subdivision (10)

of public health and safety.

l of this section.

- (D)(i) The funds required by this subdivision (11) (c)(2)
 shall be established at such rate that interest on the sum of all funds
 reasonably anticipated as payable shall provide an annual amount equal to the
 anticipated reasonable costs necessary to maintain, monitor, and otherwise
 supervise and care for the lands and facilities as required in the interest
- 8 (ii) In arriving at the rate of funds to be
 9 deposited, the State Radiation Control Agency shall consider the nature of
 10 the licensed material, size and type of activity, estimated future receipts,
 11 and estimated future expenses of maintenance, monitoring, and supervision.
- (E)(i) Recognizing that ultimate responsibility to protect the public health and safety must be reposed in a solvent government, without regard to the existence of any particular agency or department thereof, all lands, buildings, and grounds acquired by the state under subdivision (11)(B) (c)(2)(C) of this section shall be owned in fee simple absolute by the state for purposes stated in subdivision (11)(B) (c)(2)(C) of this section.
- (ii) All radioactive material received at the site
 and located therein at time of acquisition of ownership by the state becomes
 the property of the state.
- 21 (F)(i) If a person licensed by any governmental agency 22 other than the State of Arkansas desires to transfer a site to the state for 23 the purpose of administering or providing perpetual long-term care, a lump-24 sum deposit shall be made to a trust fund.
- 25 (ii) The amount of the deposit shall be determined 26 by the secretary, taking into consideration the factors stated in subdivision 27 (11)(D) (c)(2)(D) of this section.
- 28 (3) The sureties or other financial arrangements and funds
 29 required by subdivisions (c)(1) and (2) of this section shall be established
 30 in amounts sufficient to ensure compliance with those standards, if any,
 31 established by the United States Nuclear Regulatory Commission pertaining to
 32 closure, decommissioning, reclamation, and long-term site surveillance and
 33 care of such facilities and sites.
- 34 (4) All state, local, or other governmental agencies or 35 subdivisions shall be exempt from the requirements of subdivisions (c)(1) and 36 (2) of this section.

1 (5) The State Radiation Control Agency may by contract, 2 agreement, lease, or license with any person, including another state agency, provide for the decontamination, closure, decommissioning, reclamation, 3 4 surveillance, or other care of a site subject to subsection (c) of this 5 section as needed to carry out the purposes of this section. 6 7 SECTION 4. Arkansas Code § 20-21-209 is amended to read as follows: 8 20-21-209. State Radiation Control Agency - Recognition of other 9 licenses or registrations. 10 Rules promulgated pursuant to this subchapter may provide for 11 recognition of other state or federal licenses or registrations, or 12 equivalents, as the State Radiation Control Agency may deem desirable, 13 subject to such licensing or registration requirements as the agency may 14 prescribe. 15 SECTION 5. Arkansas Code § 20-21-213 is amended to read as follows: 16 17 20-21-213. Licensing and registration requirements generally. 18 (a) The State Radiation Control Agency shall provide by rule for 19 general or specific licensing of accelerator-produced material, by-product 20 material, source material, special nuclear material radioactive material, or 21 devices or equipment utilizing such material, and for licensing or 22 registration of radiation equipment. 23 The rule shall provide for amendment, suspension, or revocation of 24 licenses and registrations. 25 (c) The rule shall provide that: 26 (1) Each application for a specific license, or license or 27 registration of radiation equipment, shall be in writing and shall state such 28 information as the agency by rule may determine to be necessary to decide the 29 technical, insurance, and financial qualifications or any other 30 qualifications of the applicant as the agency may deem reasonable and 31 necessary to protect the occupational and public health and safety; 32 (2) The agency may at any time after the filing of the 33 application and before the expiration of the license or registration require 34 further written statements and may make such inspections as the agency may 35 deem necessary in order to determine whether the license or registration 36 should be granted or denied or whether the license or registration should be

1	modified, suspended, or revoked;
2	(3) All applications and statements shall be signed by the
3	applicant, or licensee, or registrant;
4	(4) The agency may require any applications or statements to be
5	made under oath or affirmation;
6	(5) Each license or registration shall be in such \underline{a} form and
7	contain such terms and conditions as the agency may by rule prescribe;
8	(6) No license issued under this subchapter and no right to
9	possess or utilize sources of ionizing radiation granted by any license shall
10	be assigned or in any manner disposed of No license or registration issued
11	under this subchapter nor any right under a license or registration shall be
12	transferred, assigned, or in any manner disposed of unless the agency shall,
13	after securing full information, find that the transfer is in accordance with
14	the provisions of this subchapter and shall give its consent in writing;
15	(7) The terms and conditions of all licenses or registrations
16	shall be subject to amendment, revision, or modification by rules or orders
17	issued in accordance with this subchapter;
18	(8) Licenses issued by the agency shall:
19	(A) Be nontransferable;
20	$\frac{(B)(A)}{(B)}$ Be renewed every five (5) to ten (10) years based
21	on risk factors as determined by the agency; and
22	$\frac{(C)(B)}{(B)}$ Expire at a time specified by the agency; and
23	(9) Registrations issued shall:
24	(Λ) Be nontransferable;
25	$\frac{(B)(A)}{(B)}$ Be renewed at a time specified by the agency; and
26	$\frac{(C)(B)}{(B)}$ Expire one (1) year after issuance or at a time
27	specified by the agency.
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29	SECTION 6. Arkansas Code §§ $20-21-215-20-21-218$ are amended to read
30	as follows:
31	20-21-215. Licensing and registration requirements — Recognition of
32	other licenses or registrations.
33	Rules promulgated pursuant to this subchapter may provide for
34	recognition of other state or federal licenses or registrations, or
35	equivalents, as the State Radiation Control Agency shall may deem desirable,
36	subject to such $\underline{\text{licensing or}}$ registration requirements as the agency may

l prescribe.

20-21-216. Licensing and registration requirements—Termination.

(a) Any radioactive materials license issued or renewed after July 4,

1983, for any activity which results in the production of radioactive

material shall contain such terms and conditions as the State Radiation

Control Agency determines to be necessary to assure that before termination of the license:

- (1) The licensee will comply with decontamination, decommissioning, and reclamation standards prescribed by the agency, which shall be equivalent to or more stringent than those of the United States

 Nuclear Regulatory Commission or any successor thereto, for sites at which ores were processed primarily for their source material content and at which the radioactive material is deposited;
- (2) Ownership of any disposal site and the radioactive material which resulted from the licensed activity shall be transferred to either the United States or the state, if this state exercises the option to acquire land used for the disposal of the radioactive material; and
- (3) Any license which is in effect on July 4, 1983, and which is subsequently terminated without renewal shall comply with subdivisions (a)(1) and (2) of this section upon termination.
- (b) The agency shall require by rule or order that, before the termination of any license which is issued after July 4, 1983, title to the land including any interests therein other than land held in trust by the United States for any Indian tribe or owned by an Indian tribe subject to a restriction against alienation imposed by the United States, or land already owned by the United States or by this state, which is used pursuant to the license for the disposal of radioactive material shall be transferred to either the United States or to the state, unless the United States Nuclear Regulatory Commission or any successor thereto determines before the termination that transfer of title to the land and the material is not necessary or desirable to protect the public health, safety, or welfare, or to minimize danger to life or property.
- (c) If transfer of the title to the radioactive material and land to the state is required, the agency, following the United States Nuclear Regulatory Commission's determination that the licensee has complied with

1 applicable standards and requirements under his or her license, shall assume 2 title to the material or land and maintain the material and land in such 3 manner as will protect the public health and safety and the environment. 4 (d) The agency may undertake such monitoring, maintenance, and 5 emergency measures as are necessary to protect the public health and safety 6 for those materials and property for which it has assumed custody pursuant to 7 this subchapter. 8 (e) The transfer of title to land or radioactive materials to the 9 United States or to this state shall not relieve any licensee of liability 10 for any fraudulent or negligent acts done before the transfer. 11 (f) Other than administrative and legal costs incurred by the United States or by this state in carrying out the transfer, radioactive materials 12 or land transferred to the United States or to the state in accordance with 13 14 this section shall be transferred without cost. 15 16 20-21-217. Licensing and registration requirements - Compliance with 17 standards - Fees. 18 (a) In licensing and regulation of radioactive material or of any 19 activity which results in the production of radioactive materials so defined, 20 the State Radiation Control Agency shall require compliance with applicable standards promulgated by the State Radiation Control Agency which are 21 22 equivalent to or more stringent than standards adopted and enforced by the United States Nuclear Regulatory Commission for the same purpose, including 23 requirements and standards promulgated by the United States Environmental 24 25 Protection Agency. 26 (b)(a) Until the State Board of Health promulgates rules under 27 subsection (d) (c) of this section, the State Radiation Control Agency may 28 charge and collect the following annual fees associated with licensing and 29 registration of sources of ionizing radiation: 30 (1) Hospitals or medical centers: (A) Category I-A\$900.00 31 32 Category I-B700.00 33 (C) Category II-A650.00 34 (D) Category II-B450.00 35 Category III200.00

(2) Radioactive material licenses:

1	(A)	Private practice, other than teletherapy units or
2	particle accelerators	\$100.00
3	(B)	Radiography:
4		(i) In plant
5		500.00 for 2 or more bays
6		(ii) Field1,000.00
7	(C)	Wireline service operation300.00 for 1 to 3 sources
8	••••	500.00 for 4 or more sources
9	(D)	Academic:
10		(i) Broad500.00
11		(ii) Other200.00
12	(E)	Gas chromatograph devices and lead analyzers100.00
13	(F)	Nuclear gauges300.00 for 1 to 5 gauges
14		500.00 for 6 or more gauges
15	(G)	Particle accelerators, nonmedical200.00
16	(H)	In vitro laboratory testing25.00
17	(I)	Irradiators1,000.00
18	(J)	Nuclear pharmacy
19	(K)	Mobile nuclear medicine service
20	(L)	Consultants250.00
21	(3) Gener	al licensed devices: Initial registration and annual
22	fees for the receipt,	possession, or use of radioactive material under a
23	general license or a l	icense obtained through reciprocity, as defined by the
24	State Radiation Control Agency, shall be as follows:	
25	(A)	Certain measuring, gauging, and controlling devices
26		\$300.00
27	(B)	Generally licensed gas chromatographs200.00
28	(C)	Static elimination devices100.00
29	(D)	Source material devices500.00
30	(E)	Devices containing depleted uranium500.00
31	(F)	Public safety devices containing radioactive material
32		50.00
33	(G)	All other general license registrations other than
34	those specified above	150.00
35	(4) Other	::
36	(A)	Medical, therapy, nonhospital unit

I	\$250.00 for first unit	
2	175.00 for each additional unit	
3	(B) Particle accelerator, medical, nonhospital unit	
4	450.00 for first unit	
5	300.00 for each additional unit	
6	(C) State Board of Health Rules and Regulations for	
7	Control of Sources of Ionizing Radiation	
8	0.00 for first copy	
9	30.00 for each additional copy	
10	(D) Naturally occurring radioactive material license	
11	2,500.00	
12	(E) Amendment to existing license50.00 per amendment	
13	(5) Reciprocity:	
14	(A) Naturally occurring radioactive material\$2,500.00	
15	(B) Radiography, field1,000.00	
16	(C) Wireline500.00	
17	(D) Nuclear gauge500.00	
18	(E) Consultant100.00	
19	(6) Late fees: A late fee equal to ten percent (10%) of the	
20	applicable fee shall be charged for fees not received within sixty (60) days	
21	of the invoiced due date and for every sixty (60) days thereafter.	
22	(e)(b) The State Radiation Control Agency may charge and collect the	
23	following annual fees associated with X-ray registrations:	
24	(1) All X-ray units, sixty-five dollars (\$65.00) per tube up to	
25	a maximum of two hundred sixty dollars (\$260.00) (\$260); and	
26	(2) Vendor services providing radiation equipment services or	
27	radiation safety services, or both, sixty-five dollars (\$65.00).	
28	$\frac{(d)(1)(c)(1)}{(c)(1)}$ For the fees under subsection $\frac{(b)}{(a)}$ of this section,	
29	the board shall adopt rules to establish fees at a level to sustain	
30	operations of the State Radiation Control Agency's mandated programs.	
31	(2) The fees shall not:	
32	(A) Conflict with federal program schedules; or	
33	(B) Exceed twenty-five percent (25%) of the fees that	
34	would be levied by the United States Nuclear Regulatory Commission if the	
35	United States Nuclear Regulatory Commission were to regulate the State	
36	Radiation Control Agency's mandated programs.	

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- (e)(d) Each application for reciprocal recognition of an out-of-state license or of an out-of-state registration shall be accompanied by the applicable annual fee, provided that no fee has been submitted during the calendar year of the application.
- 5 (f)(1)(e)(1) The annual fee shall be based upon the calendar year, 6 January 1 through December 31, with fees for any given year due by December 7 31 of the previous year.
- 8 (2) $\underline{\text{(A)}}$ Applications for new licenses or registrations shall be 9 accompanied by the appropriate fees.
- 10 <u>(B) An applicant The applicants</u> shall be charged for a 11 full calendar year regardless of the month the license or registration is 12 issued.
- (3) Applications for amendments to licenses or registration
 certificates which result in a change to a more costly category shall be
 accompanied by a fee equal to the difference between the fee for the current
 category and the one to which the amended license or certificate will
 escalate.
- 18 (4) Fee payments shall be by check, draft, or money order made 19 payable to the Department of Health.
- 20 (5) In any case in which the State Radiation Control Agency
 21 finds that an applicant for a new license or new certificate of registration
 22 has failed to pay the fee prescribed in this section, the State Radiation
 23 Control Agency shall not process that application until the fee is paid.
 - (6) In any case in which the State Radiation Control Agency finds that a person has failed to pay a fee prescribed by this section within ninety (90) days of the date due, the State Radiation Control Agency may issue an order to show cause why that registration, license, or other service should not be revoked, suspended, or terminated, as appropriate.
- (g)(f) Annual fees shall not be required for those applicants,
 licensees, registrants, or other applicable persons whose use of sources of
 radiation is certified as financed solely by the General Revenue Fund Account
 of the State Apportionment Fund.
- 33 (h)(g) All fees levied and collected under this section are declared 34 to be special revenues and shall be deposited into the State Treasury, there 35 to be credited to the Public Health Fund.
- 36 (i)(h) Subject to the rules as may be implemented by the Chief Fiscal

- Officer of the State, the disbursing officer for the department may transfer all unexpended funds relative to licensing and registration for use of
- 3 radioactive materials and X-ray equipment that pertain to fees collected, as
- 4 certified by the Chief Fiscal Officer of the State, to be carried forward and
- 5 made available for expenditures for the same purpose for any following fiscal

6 year.

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- 8 20-21-218. Records.
- 9 (a)(1) The State Radiation Control Agency shall require each person
 10 who manufactures, possesses, distributes, sells, installs, repairs, or uses a
 11 source of ionizing radiation to maintain records relating to its receipt,
 12 storage, transfer, or disposal and such other records as the agency may
 13 require subject to such exemptions as may be provided by rule.
- 14 (2) The agency shall require each person who manufactures,
 15 possesses, distributes, sells, installs, repairs, or uses a source of
 16 ionizing radiation, or who furnishes personnel dosimetry services for agency
 17 licensees or registrants to maintain appropriate records showing the
 18 radiation exposure of all individuals for whom personnel monitoring is
 19 required by rules of the agency.
 - (b)(1) Copies of all records required by subsection (a) of this section shall be submitted to the agency upon request. The agency shall obtain these required records from each person who manufactures, possesses, distributes, sells, installs, repairs, or uses a source of ionizing radiation and from service personnel.
 - (2) Any person possessing or using a source of ionizing radiation shall furnish to each To each employee for whom personnel monitoring is required, a copy of the employee's personal exposure record, as follows: shall be given at the frequency required by rule.
- 29 (A) Annually;
- 30 (B) At any time the employee has received excessive
- 31 exposure; and
- 32 (C) Upon termination of employment.

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- 34 SECTION 7. Arkansas Code § 20-21-222(a), concerning administrative 35 proceedings related to ionizing radiation, is amended to read as follows:
- 36 (a) Under this subchapter:

1 (1) In any proceeding for the issuance or modification of rules 2 relating to control of sources of ionizing radiation, the State Radiation 3 Control Agency shall provide an opportunity for public participation through 4 written comments or a public hearing, or both; 5 (2) In any proceeding for the denial of an application for a 6 license or registration or for revocation, suspension, or modification of a 7 license or registration, the agency shall provide to the applicant, or 8 licensee, or registrant an opportunity for a hearing on the record; 9 (3) In any proceeding for licensing ores processed primarily for 10 their source material content or disposal of radioactive material or for 11 licensing commercial burial of radioactive wastes waste, the agency shall 12 provide: 13 (A) An opportunity, after public notice, for written comments and a public hearing with a transcript; 14 15 (B) An opportunity for cross examination; and 16 (C) A written determination of the action to be taken 17 which that is based upon findings included in the determination and upon 18 evidence presented during the public comment period; 19 (4)(A) In any proceeding for licensing ores processed primarily 20 for their source material content, for disposal of radioactive material, or 21 for licensing commercial burial of radioactive wastes waste, the agency shall 22 prepare for each licensed activity that has a significant impact on the human 23 environment a written analysis of the impact of the activity on the environment for each licensed activity which has a significant impact on the 24 25 human environment. 26 (B) The environmental impact analysis shall be available 27 to the public before the commencement of hearings held pursuant to 28 subdivision (a)(3) of this section and shall include: 29 $\frac{(A)}{(i)}$ An assessment of the radiological and 30 nonradiological impacts to the public health; 31 (B)(ii) An assessment of any impact on any waterway and 32 groundwater; 33 (C)(iii) Consideration of alternatives, including 34 alternative sites and engineering methods, to the activities to be conducted; 35 and

(D)(iv) Consideration of the long-term impacts including

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     decommissioning, decontamination, and reclamation of facilities and sites
     associated with the licensed activities and management of any radioactive
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     materials which will remain on the site after the decommissioning,
     decontamination, or and reclamation; and
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                 (5) The agency shall prohibit any major construction with
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     respect to any activity for which an environmental impact analysis is
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     required by subdivision (a)(4) of this section before completion of such \frac{an}{a}
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     analysis.
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                                        /s/Ladyman
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