

General Assembly

January Session, 2021

Substitute Bill No. 6499

AN ACT CONCERNING RADIATION SECURITY.

Be it enacted by the Senate and House of Representatives in General Assembly convened:

- Section 1. Section 22a-151 of the general statutes is repealed and the
 following is substituted in lieu thereof (*Effective October 1, 2021*):
- 3 As used in sections 22a-151 to 22a-158, inclusive:

(1) "By-product material" [means radioactive material as defined in
Section 11e of Public Law 85-256 (Act of September 2, 1957) and Public
Law 89-645 (Act of October 13, 1966), as amended or as interpreted or
modified by duly promulgated regulations of the United States Atomic
Energy Commission pursuant thereto] <u>has the same meaning as</u>
provided in 42 USC 2014, as amended from time to time;

10 (2) "Ionizing radiation" means gamma rays and x-rays, alpha and beta 11 particles, high speed electrons, neutrons, protons and other nuclear 12 particles, but not sound or radio waves, or visible, infrared or ultra 13 violet light. The Commissioner of Energy and Environmental Protection 14 shall be empowered to make regulations amending or modifying this 15 definition;

(3) "General license" means a license effective pursuant to regulationspromulgated by the Commissioner of Energy and Environmental

Protection without the filing of an application for, or issuance of a
licensing document for, the transfer, transport, acquisition, ownership,
possession or use of quantities of, or devices or equipment utilizing byproduct, source, special nuclear materials or other radioactive material
occurring naturally or produced artificially;

(4) "Specific license" means a license, issued after application, to use,
manufacture, produce, transfer, transport, 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;

28 (5) "Person" means any individual, corporation, limited liability 29 company, partnership, firm, association, trust, estate, public or private 30 institution, group, agency, political subdivision of this state, any other 31 state or political subdivision or agency thereof, and any legal successor, 32 representative, agent or agency of any of the foregoing, other than the 33 United States [Atomic Energy] <u>Nuclear Regulatory</u> Commission or any 34 successor thereto, and other than agencies of the government of the 35 United States licensed by the United States [Atomic Energy] Nuclear 36 Regulatory Commission or any successor thereto;

(6) "Registration" means registration in conformance with the
requirements of section 22a-148, as amended by this act. The issuance of
a specific license pursuant to sections 22a-151 to 22a-158, inclusive, shall
be deemed to satisfy fully any registration requirements set forth in said
section;

(7) "Source material" [means material as defined in Section 11z of
Public Law 85-256 (Act of September 2, 1957) and Public Law 89-645
(Act of October 13, 1966), as amended or as interpreted or modified by
duly promulgated regulations of the United States Atomic Energy
Commission pursuant thereto] has the same meaning as provided in 42
USC 2014, as amended from time to time;

48 (8) "Special nuclear material" [means material as defined in Section

49 11aa of Public Law 85-256 (Act of September 2, 1957) and Public Law 89-50 645 (Act of October 13, 1966), as amended or as interpreted or modified by duly promulgated regulations of the United States Atomic Energy 51 52 Commission pursuant thereto.] has the same meaning as provided in 53 section 42 USC 2014, as amended from time to time; 54 (9) "Radioactive materials" means any solid, liquid or gas that emits 55 ionizing radiation spontaneously; 56 (10) "Commissioner" means the Commissioner of Energy and 57 Environmental Protection or the commissioner's designee or agent. 58 Sec. 2. Section 22a-153 of the general statutes is repealed and the 59 following is substituted in lieu thereof (*Effective October 1, 2021*): 60 (a) The Commissioner of Energy and Environmental Protection shall 61 supervise and regulate in the interest of the public health and safety the 62 use of ionizing radiation within the state. 63 (b) Said commissioner may employ, subject to the provisions of 64 chapter 67, and prescribe the powers and duties of such persons as may 65 be necessary to carry out the provisions of sections 22a-151 to 22a-158, inclusive, as amended by this act. 66 67 (c) Said commissioner shall [make such regulations as may be 68 necessary to carry out the provisions of said sections] adopt regulations, 69 in accordance with the provisions of chapter 54, concerning sources of 70 ionizing radiation and radioactive materials, including, but not limited 71 to, regulations: 72 (1) Necessary to secure agreement state status from the United States 73 Nuclear Regulatory Commission pursuant to section 274 of the Atomic 74 Energy Act of 1954, 42 USC 2021, as amended from time to time; 75 (2) Relating to the construction, operation, control, tracking, security 76 or decommissioning of sources of ionizing radiation, including, but not 77 limited to, any modification or alteration of such sources;

78	(3) Relating to the production, transportation, use, storage,		
79	possession, management, treatment, disposal or remediation of		
80	radioactive materials;		
81	(4) Relating to planning for and responding to terrorist or other		
82	emergency events, or the potential for such events, that involve or may		
83	include radioactive materials;		
84	(5) Necessary to carry out the provisions of sections 22a-151 to 22a-		
85	158, inclusive, as amended by this act;		
86	(6) Establishing fees for the licensure of sources of ionizing radiation,		
87	that, in conjunction with the fees collected pursuant to section 22a-148,		
88	as amended by this act, shall be sufficient for the administration,		
89	implementation and enforcement of an ionizing radiation program; and		
90	(7) To reciprocate in the recognition of specific licenses issued by the		
91	United States Nuclear Regulatory Commission (NRC) or another state		
92	that has reached agreement with the NRC pursuant to 42 USC 2021(b),		
93	as amended from time to time.		
94	(d) The Governor, or the commissioner, is authorized to employ such		
95	consultants, experts and technicians as [he shall deem] are necessary for		
96	the purpose of conducting investigations and reporting [to him] on		
97	matters connected with the implementation of the provisions of [said]		
98	sections 22a-148 to 22a-158, inclusive, as amended by this act.		
99	(e) Any fees collected in accordance with section 22a-148, as amended		
100	by this act, or 22a-150, or any regulations adopted pursuant to		
101	subsection (c) of this section, shall be deposited in the General Fund.		
102	(f) The commissioner may establish radiation exposure guidelines for		
103	emergency responders and the public for the management of		
104	emergencies involving radioactive materials. Any such guidelines may		
105	be based upon the recommendations of the federal government and the		
106	National Council on Radiation Protection and Measurements.		

Sec. 3. Subsection (a) of section 22a-154 of the general statutes is
repealed and the following is substituted in lieu thereof (*Effective October*1, 2021):

110 (a) The Commissioner of Energy and Environmental Protection [may provide by regulation for] shall adopt regulations, in accordance with 111 112 the provisions of chapter 54, for the general or specific licensing of [by-113 product, source, special nuclear materials and other] sources of ionizing 114 radiation. [, or devices or equipment utilizing such materials, and for 115 amendment, suspension, or revocation of licenses issued pursuant 116 thereto] The commissioner may issue, deny, renew, modify, suspend or 117 revoke such licenses and may include such terms and conditions in such 118 licenses that the commissioner deems necessary.

119 Sec. 4. Section 22a-157 of the general statutes is repealed and the 120 following is substituted in lieu thereof (*Effective October 1, 2021*):

121 No person shall construct, operate, use, manufacture, produce, 122 transport, transfer, receive, acquire, decommission, own or possess any 123 source of ionizing radiation, unless [exempt, licensed or registered in 124 accordance with the provisions of sections 22a-148 to 22a-158, inclusive] 125 such activity is in compliance with all requirements of this chapter, 126 including any regulation adopted, or registration or license issued 127 pursuant to this chapter. No person shall produce, transport, store, 128 possess, manage, treat, remediate, distribute, sell, install, repair or 129 dispose of any radioactive materials, unless such activity is in 130 compliance with all requirements of this chapter, including any 131 regulation adopted, or registration or license issued pursuant to this 132 chapter. No person shall fail to register a source of ionizing radiation 133 required to be registered under this chapter, including as required by 134 any regulation adopted, or registration or license issued pursuant to this 135 chapter.

136 Sec. 5. (NEW) (*Effective October 1, 2021*) (a) The Commissioner of 137 Energy and Environmental Protection may take steps that the 138 commissioner deems necessary to protect human health and the 139 environment, including, but not limited to, investigating, monitoring, 140 abating, containing, mitigating or removing any hazard, potential 141 hazard, pollution, contamination or potential pollution or 142 contamination if: (1) Any person causes or is responsible for any 143 exposure hazard or potential exposure hazard from radioactive 144 materials, radioactive waste or a source of ionizing radiation, or causes 145 or is responsible for pollution, contamination or potential pollution or 146 contamination of any land, water, air or other natural resource of the 147 state through a discharge, spillage, uncontrolled loss, release, leakage, 148 seepage or filtration of radioactive material or radioactive waste, and 149 does not act immediately to prevent, abate, contain, mitigate or remove 150 such hazard, potential hazard, pollution, contamination, or potential 151 pollution or contamination, to the satisfaction of the commissioner, or (2) the person responsible is unknown, and such hazard, potential 152 153 hazard, pollution, contamination, or potential pollution or 154 contamination, is not being prevented, abated, contained, mitigated or 155 removed by the federal government, any state agency, any municipality 156 or any regional or interstate authority. The commissioner may enter into 157 a contract with any person for the purpose of carrying out the provisions 158 of this subsection.

159 (b) Any person who causes or is responsible for any exposure hazard 160 or potential exposure hazard from radioactive materials, radioactive 161 waste or a source of ionizing radiation or who causes or is responsible 162 for pollution, contamination, or potential pollution or contamination of 163 any land, water, air or other natural resource of the state through a 164 discharge, spillage, uncontrolled loss, release, leakage, seepage or 165 filtration of radioactive material or radioactive waste shall be liable for all costs and expenses incurred by the commissioner in accordance with 166 167 subsection (a) of this section, including all costs and expenses to restore 168 the air, water, land and other natural resources of the state, and shall be 169 liable for all attorneys' fees, court costs and any other legal expenses 170 incurred by the state regarding the recovery of such costs. Nothing in 171 this subsection shall preclude the commissioner from seeking additional 172 compensation or such other relief that a court may award, including

173 punitive damages. When such hazard, potential hazard, pollution, 174 contamination or potential pollution or contamination results from the 175 action or inaction of more than one person, each person shall be held 176 jointly and severally liable for such costs. Upon request of the 177 commissioner, the Attorney General shall bring a civil action to recover 178 all such costs and expenses from the person who caused or is 179 responsible for any such hazard, potential hazard, pollution, 180 contamination or potential pollution or contamination.

181 (c) Any person who prevents, abates, contains, removes or mitigates 182 any (1) exposure hazard or potential exposure hazard from radioactive 183 materials, radioactive waste or a source of ionizing radiation that is not 184 authorized by a provision of the general statutes, any regulation, 185 registration or license, or (2) any pollution or contamination or potential 186 pollution or contamination of any land, water, air or other natural 187 resources of the state through a discharge, spillage, uncontrolled loss, 188 release, leakage, seepage or filtration of radioactive material or 189 radioactive waste that is not authorized by a provision of the general 190 statutes, any regulation, registration or license, shall be entitled to 191 reimbursement of the reasonable costs incurred or expended for such 192 abatement, containment, removal or mitigation from any person whose 193 negligent, reckless, knowing or intentional action or inaction caused 194 such hazard, potential hazard, pollution, contamination or potential 195 pollution or contamination. When such hazard, potential hazard, 196 pollution, contamination or potential pollution or contamination results 197 from the action or inaction of more than one person, each such person 198 shall be held jointly and severally liable for such costs.

(d) Whenever the commissioner incurs contractual obligations in
carrying out the authority vested in the commissioner pursuant to
subsection (a) of this section and the person who causes or is responsible
for the hazard, potential hazard, pollution, contamination or potential
pollution or contamination does not assume the tasks and
responsibilities that are the subject of such contractual obligations, the
commissioner shall request the Attorney General to bring a civil action,

206 pursuant to subsection (b) of this section, to recover the costs and 207 expenses of such contractual obligations and other costs and expenses 208 provided for in subsection (b) of this section. If the person responsible 209 is unknown, the commissioner shall request the federal government to 210 assume such contractual obligations to the extent provided for by 211 federal law.

Sec. 6. Subsection (a) of section 22a-6a of the general statutes is repealed and the following is substituted in lieu thereof (*Effective October* 1, 2021):

215 (a) Any person who knowingly or negligently violates any provision 216 of section 14-100b or 14-164c, subdivision (3) of subsection (b) of section 217 15-121, section 15-171, 15-172, 15-175, 22a-5, 22a-6 or 22a-7, chapter 440, 218 chapter 441, section 22a-69 or 22a-74, subsection (b) of section 22a-134p, 219 sections 22a-148 to 22a-150, inclusive, as amended by this act, section 220 22a-153, as amended by this act, 22a-154, as amended by this act, section 221 22a-157, as amended by this act, section 22a-158, section 22a-162, 22a-222 171, 22a-174, 22a-175, 22a-177, 22a-178, 22a-181, 22a-183, 22a-184, 22a-223 190, 22a-208, 22a-208a, 22a-209, 22a-213, 22a-220, 22a-225, 22a-231, 22a-224 336, 22a-342, 22a-345, 22a-346, 22a-347, 22a-349a, 22a-358, 22a-359, 22a-225 361, 22a-362, 22a-365 to 22a-379, inclusive, 22a-401 to 22a-411, inclusive, 226 22a-416, 22a-417, 22a-424 to 22a-433, inclusive, 22a-447, 22a-449, 22a-450, 227 22a-451, 22a-454, 22a-458, 22a-461, 22a-462 or 22a-471, or any regulation, 228 order or permit adopted or issued thereunder by the Commissioner of 229 Energy and Environmental Protection shall be liable to the state for the 230 reasonable costs and expenses of the state in detecting, investigating, 231 controlling and abating such violation. Such person shall also be liable 232 to the state for the reasonable costs and expenses of the state in restoring 233 the air, waters, lands and other natural resources of the state, including 234 plant, wild animal and aquatic life to their former condition insofar as 235 practicable and reasonable, or, if restoration is not practicable or 236 reasonable, for any damage, temporary or permanent, caused by such 237 violation to the air, waters, lands or other natural resources of the state, 238 including plant, wild animal and aquatic life and to the public trust therein. Institution of a suit to recover for such damage, costs andexpenses shall not preclude the application of any other remedies.

Sec. 7. Section 16a-101 of the general statutes is repealed and the following is substituted in lieu thereof (*Effective October 1, 2021*):

As used in this chapter:

(1) "Atomic energy" [means all forms of energy released in the course
of nuclear fission or nuclear transformation] has the same meaning as
provided in 42 USC 2014, as amended from time to time;

(2) "By-product material" [means any radioactive materials, except
special nuclear materials, yielded in or made radioactive by exposure to
the radiation incident to the process of producing or utilizing special
nuclear materials] has the same meaning as provided in 42 USC 2014, as
amended from time to time;

(3) "Production facility" [means (A) any equipment or device capable
of the production of special nuclear material in such quantity as to be of
significance to the common defense and security, or in such manner as
to affect the health and safety of the public; or (B) any important
component part especially designed for such equipment or device] has
the same meaning as provided in 42 USC 2014, as amended from time
to time;

(4) "Special nuclear material" [means (A) plutonium and uranium enriched in the isotope 233 or in the isotope 235, and any other material which the Governor declares by order to be special nuclear material after the United States Atomic Energy Commission has determined the material to be such; or (B) any material artificially enriched by any of the foregoing] <u>has the same meaning as provided in 42 USC 2014, as</u> <u>amended from time to time;</u>

(5) "Utilization facility" [means (A) any equipment or device, except
an atomic weapon, capable of making use of special nuclear materials
in such quantity as to be of significance to the common defense and

security, or in such manner as to affect the health and safety of the public, or peculiarly adapted for making use of atomic energy in such quantity as to be of significance to the common defense and security, or in such manner as to affect the health and safety of the public; or (B) any important component part especially designed for such equipment or device.] <u>has the same meaning as provided in 42 USC 2014, as amended</u> <u>from time to time;</u>

(6) "Radioactive material" has the same meaning as provided in 42 USC 2014, as amended from time to time;

278 (7) "Source material" has the same meaning as provided in 42 USC
279 2014, as amended from time to time.

Sec. 8. Subsection (b) of section 22a-148 of the general statutes is
repealed and the following is substituted in lieu thereof (*Effective October*1, 2021):

283 (b) No person, firm, corporation, town, city or borough shall operate 284 or cause to be operated any source of ionizing radiation or shall 285 produce, transport, store, possess or dispose of radioactive materials 286 except under conditions which comply with regulations or with orders 287 imposed by the Commissioner of Energy and Environmental Protection 288 for the protection of the public health and preservation of the 289 environment. Such regulations or orders shall be based [to the extent deemed practicable by said department] on the regulations of the 290 291 United States [Atomic Energy] <u>Nuclear Regulatory</u> Commission, issued 292 under authority granted to said commission by the Atomic Energy Act 293 of 1954, [and entitled "Standards for Protection against Radiation" or, if 294 such regulations should be deemed inappropriate by the Commissioner 295 Energy and Environmental Protection, the of on latest 296 recommendations of the National Committee on Radiation, as 297 published by the United States Department of Commerce, National Bureau of Standards] as codified in 42 USC 2014, as amended from time 298 299 to time. No regulation pertaining to radiation sources and radioactive 300 materials proposed to be issued by the commissioner shall become

effective until thirty days after it has been submitted to the Coordinator
of Atomic Development Activities unless, upon a finding of emergency
need, the governor by order waives all or any part of said thirty-day
period. In no case shall any source of ionizing radiation be utilized
otherwise than at the lowest practical level consistent with the best use
of the radiation facilities or radioactive materials involved.

Sec. 9. Section 22a-152 of the general statutes is repealed and the following is substituted in lieu thereof (*Effective October 1, 2021*):

The Governor, on behalf of this state, is authorized to enter into agreements with the government of the United States providing for [discontinuance] <u>relinquishment</u> of certain of the programs of the government of the United States with respect to sources of ionizing radiation and the assumption thereof by this state, as provided for in the Atomic Energy Act of 1954, as amended.

This act shall take effect as follows and shall amend the following sections:			
Section 1	October 1, 2021	22a-151	
Sec. 2	<i>October</i> 1, 2021	22a-153	
Sec. 3	<i>October</i> 1, 2021	22a-154(a)	
Sec. 4	<i>October</i> 1, 2021	22a-157	
Sec. 5	<i>October</i> 1, 2021	New section	
Sec. 6	<i>October 1, 2021</i>	22a-6a(a)	
Sec. 7	<i>October 1, 2021</i>	16a-101	
Sec. 8	October 1, 2021	22a-148(b)	
Sec. 9	October 1, 2021	22a-152	

ENV Joint Favorable Subst.

FIN Joint Favorable