As Reported by the House Energy and Natural Resources Committee

133rd General Assembly

Regular Session 2019-2020

Sub. H. B. No. 104

Representative Stein

Cosponsors: Representatives Arndt, Becker, Carfagna, Cupp, Dean, Hambley, Hood, Koehler, Lang, LaTourette, Lipps, Manning, G., McClain, Riedel, Romanchuk, Seitz, Wiggam, Wilkin

A BILL

То	amend se	ction 374	8.03 and	to enact	sections	1
	3748.23,	4164.01,	4164.04,	4164.05,	4164.07,	2
	4164.08,	4164.10,	4164.11,	4164.12,	4164.13,	3
	4164.15,	4164.16,	4164.18,	4164.19,	and 4164.20	4
	of the Re	evised Cod	de to enac	ct the Ad	vanced	5
	Nuclear 5	Technolog <u>y</u>	y Helping	Energize	Mankind	6
	(ANTHEM)	Act by es	stablishi	ng the Oh:	io Nuclear	7
	Developme	ent Author	ritv.			8

BE IT ENACTED BY THE GENERAL ASSEMBLY OF THE STATE OF OHIO:

Section 1. That section 3748.03 be amended and sections	9
3748.23, 4164.01, 4164.04, 4164.05, 4164.07, 4164.08, 4164.10,	10
4164.11, 4164.12, 4164.13, 4164.15, 4164.16, 4164.18, 4164.19,	11
and 4164.20 of the Revised Code be enacted to read as follows:	12
Sec. 3748.03. (A)(1) The governor, on behalf of the state,	13
may enter into agreements with the United States nuclear	14
regulatory commission as authorized by section 274(b) of the	15
"Atomic Energy Act of 1954," 68 Stat. 919, 42 U.S.C.A. 2011, as	16
amended, for the discontinuation of specified licensing and	17

neither conflict with nor supersede the rules adopted under

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Chapter 4164. of the Revised Code.	48
Sec. 4164.01. As used in this chapter, unless the context	49
otherwise requires, "authority" means the Ohio nuclear	50
development authority created and constituted under section	51
4164.04 of the Revised Code.	52
Sec. 4164.04. There is hereby created and constituted	53
within the department of commerce, the Ohio nuclear development	54
authority. The authority's exercise of powers conferred by this	55
chapter is the performance of an essential governmental function	56
and address matters of public necessity for which public moneys	57
may be spent and private property acquired.	58
Sec. 4164.05. (A) The authority shall consist of nine	59
members, appointed by the governor and confirmed by the senate,	60
representing the following three stakeholder groups within the	61
<pre>nuclear-engineering-and-manufacturing industry:</pre>	62
(1) Safety;	63
(2) Industry;	64
(3) Engineering research and development.	65
(B)(1) A member appointed from the safety group shall hold	66
at least a bachelor's degree in nuclear, mechanical, chemical,	67
or electrical engineering and at least one of the following	68
<pre>shall also apply:</pre>	69
(a) The member is a recognized professional in nuclear-	70
reactor safety or developing ISO 9000 standards.	71
(b) The member has been employed by or has worked closely	72
with the United States department of energy or the nuclear	73
regulatory commission and the member also has a professional	74
background in nuclear-energy-technology development or advanced-	75

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nuclear-reactor concepts.	76
(c) The member has been employed by a contractor that has	77
built concept reactors and the member also worked with hazardous	78
substances, either nuclear or chemical, during that employment.	79
(2) A member appointed from the industry group shall have	80
at least five years of experience in one or more of the	81
<pre>following:</pre>	82
(a) Nuclear-power-plant operation;	83
(b) Processing and extracting isotopes;	84
(c) Managing a facility that deals with hazardous	85
substances, either nuclear or chemical;	86
(d) Handling and storing nuclear waste.	87
(3) A member appointed from the engineering research and	88
development group shall hold at least a bachelor's degree in	89
nuclear, mechanical, chemical, or electrical engineering and the	90
member shall also be a recognized professional in at least one	91
of the following areas of study:	92
(a) Advanced nuclear reactors;	93
(b) Materials science involving the study of alloys and	94
metallurgy, ceramics, or composites;	95
(c) Molten-salt chemistry;	96
(d) Solid-state chemistry;	97
(e) Chemical physics;	98
(f) Actinide chemistry;	99
(g) Instrumentation and sensors;	100

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(h) Control systems.	101
(C) The members shall be United States citizens and	102
residents of this state.	103
(D) The members shall serve five-year terms.	104
(E) Any appointment to fill a vacancy on the authority	105
shall be made for the unexpired term of the member whose death,	106
resignation, or removal created the vacancy.	107
(F) Initial appointments under this section shall be made	108
not later than sixty days after the effective date of an	109
agreement with any of the following entities regarding the	110
delegation of authority relating to nuclear energy:	111
(1) The United States nuclear regulatory commission	112
pursuant to section 3748.03 of the Revised Code;	113
(2) The United States department of energy;	114
(3) Any branch of the United States military;	115
(4) Any other federal agency, department, or program	116
governing the construction and operation of noncommercial power-	117
producing nuclear reactors and the handling of radioactive	118
<pre>materials.</pre>	119
Sec. 4164.07. Immediately after appointment to the	120
authority under section 4164.05 of the Revised Code, the members	121
shall enter upon the performance of their duties.	122
Sec. 4164.08. Notwithstanding any law to the contrary, no	123
officer or employee of this state shall be deemed to have	124
forfeited, or shall have forfeited, the officer's or employee's	125
office or employment due to acceptance of membership on the	126
authority or by providing service to the authority.	127

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Sec. 4164.10. The authority is established for both of the	128
following purposes:	129
(A) To be an information resource for this state, the	130
United States nuclear regulatory commission, all branches of the	131
United States military, and the United States department of	132
energy on advanced-nuclear-research reactors, isotopes, and	133
<pre>isotope technologies;</pre>	134
(B) To make this state all of the following:	135
(1) A leader in the development and construction of new-	136
type advanced-nuclear-research reactors;	137
(2) A national and global leader in the commercial	138
<pre>production of isotopes and research;</pre>	139
(3) A leader in the research and development of high-	140
level-nuclear-waste reduction and storage technology.	141
Sec. 4164.11. The authority shall have all powers	142
necessary and convenient for carrying out its statutory	143
purposes, including the following powers:	144
(A) To adopt bylaws for the management and regulation of	145
its affairs;	146
(B) To develop and adopt a strategic plan for carrying out	147
the purposes set forth in this chapter;	148
(C) To foster innovative partnerships and relationships in	149
the state and among the state's public institutions of higher	150
education, private companies, federal laboratories, and	151
nonprofit organizations, to accomplish the purposes set forth in	152
this chapter;	153
(D) To identify and support, in cooperation with the	154

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public and private sectors, the development of education	155
<pre>programs related to Ohio's isotope industry;</pre>	156
(E) To assume any regulatory powers delegated from the	157
United States nuclear regulatory commission, the United States	158
department of energy, or any branch of the United States	159
military, or similar federal agencies, departments, or programs,	160
governing the construction and operation of noncommercial power-	161
producing nuclear reactors and the handling of radioactive	162
<pre>materials;</pre>	163
(F) To act in place of the governor in approving	164
agreements with the United States nuclear regulatory commission	165
and joint-development agreements with the United States	166
department of energy or an equivalent regulatory agency in the	167
event that any of the following occur:	168
(1) The authority requests the commission to delegate	169
rules for a state-based nuclear research-and-development	170
program.	171
(2) The authority requests to jointly develop advanced-	172
nuclear-research-reactor technology with the department under	173
the department's authority.	174
(3) The authority requests to jointly develop advanced-	175
nuclear-research-reactor technology with the United States	176
department of defense or another United States military agency	177
under the authority of the department or agency.	178
Sec. 4164.12. For the purpose of carrying out the Ohio	179
nuclear development authority's duties under sections 4164.01 to	180
4164.20 of the Revised Code, the authority may make use of the	181
staff and experts employed at the department of commerce in such	182
manner as is provided by mutual arrangement between the	183

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(E) Advanced-nuclear-reactor engineered-safety features	213
and their associated components, including design standards,	214
<pre>component design, system design, and structural design;</pre>	215
(F) Advanced-nuclear-reactor building, including	216
containment design, structural analysis, and architectural	217
analysis;	218
(G) Advanced-nuclear-reactor instrumentation and control	219
and application of computer science, including survey, monitor,	220
<pre>control, and protection systems;</pre>	221
(H) Advanced-nuclear-reactor-quality practices,	222
nondestructive-inspection practices, and in-service-inspection	223
<pre>technology;</pre>	224
(I) Advanced-nuclear-reactor plant design and	225
construction, debug, test-run, operation, maintenance, and	226
decommissioning technology;	227
(J) Advanced-nuclear-reactor economic methodology and	228
evaluation technology;	229
(K) Treatment, storage, recycling, and disposal technology	230
<pre>for advanced-nuclear-reactor and system-spent fuel;</pre>	231
(L) Treatment, storage, and disposal technology for	232
<pre>advanced-nuclear-reactor and system radioactive waste;</pre>	233
(M) Other areas that the parties or their executive agents	234
agree upon in writing.	235
Sec. 4164.16. The authority shall give priority to	236
projects that reduce nuclear waste and produce isotopes.	237
Sec. 4164.18. On or before the fourth day of July of each	238
year, the authority shall submit an annual report of its	239

activities to the governor, the speaker of the house of	240
representatives, the president of the senate, and the chairs of	241
the house and senate committees that oversee energy-related	242
issues. The report shall be posted to the authority's web site.	243
Sec. 4164.19. Nothing in this chapter shall be construed	244
to supersede any agreement between the department of health and	245
the United States nuclear regulatory commission entered into	246
under section 3748.03 of the Revised Code with respect to	247
regulating activities not within the scope of activities of the	248
authority.	249
Sec. 4164.20. The authority shall, under Chapter 119. of	250
the Revised Code, adopt rules provided for by the United States	251
nuclear regulatory commission, department of energy, department	252
of defense or another United States military agency, or a	253
comparable federal agency for an Ohio state nuclear technology	254
research program for the purposes of developing and studying	255
advanced-nuclear research reactors to produce isotopes and to	256
reduce this state's high-level nuclear waste. The rules shall	257
reasonably ensure Ohioans of their safety in respect to nuclear	258
technology research and development and radioactive materials.	259
Section 2. That existing section 3748.03 of the Revised	260
Code is hereby repealed.	261

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