# Second Regular Session Seventy-first General Assembly STATE OF COLORADO

## **PREAMENDED**

This Unofficial Version Includes Committee Amendments Not Yet Adopted on Second Reading

LLS NO. 18-0075.02 Thomas Morris x4218

**HOUSE BILL 18-1215** 

### **HOUSE SPONSORSHIP**

Arndt,

### SENATE SPONSORSHIP

(None),

#### **House Committees**

#### **Senate Committees**

Health, Insurance, & Environment Finance Appropriations

## A BILL FOR AN ACT

101	CONCERNING ENHANCED PROTECTIONS REGARDING THE DISPOSAL OF
102	NATURALLY OCCURRING RADIOACTIVE MATERIALS, AND, IN
103	CONNECTION THEREWITH, MAKING AN APPROPRIATION.

## **Bill Summary**

(Note: This summary applies to this bill as introduced and does not reflect any amendments that may be subsequently adopted. If this bill passes third reading in the house of introduction, a bill summary that applies to the reengrossed version of this bill will be available at <a href="http://leg.colorado.gov">http://leg.colorado.gov</a>.)

Current law allows the state board of health to adopt rules concerning the disposal of naturally occurring radioactive materials (NORM) only after the federal environmental protection agency (EPA) has adopted rules concerning the disposal of NORM. The EPA has not adopted the rules. The bill:

- ! Requires the state board to adopt rules for the disposal of NORM and technologically enhanced NORM (TENORM); and
- ! While the state board is conducting its rule-making investigation, temporarily prohibits the disposal of oil and gas exploration and production waste (EP waste) with potentially high concentrations of radionuclides at a facility that is not specifically approved and designated to receive the waste unless:
  - The generator of the waste has sampled and tested the EP waste on a per-shipment basis or in a representative and statistically valid manner approved by the state board; and
  - ! The results of the test indicate that the EP waste contains low levels of TENORM.

A generator of EP waste must file reports with the state board.

1 Be it enacted by the General Assembly of the State of Colorado:

SECTION 1. In Colorado Revised Statutes, 25-11-104, amend

3 (1) as follows:

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**25-11-104.** Rules to be adopted - fees - fund created - definitions - repeal. (1) (a) The state board shall formulate, adopt, and promulgate rules as provided in subsection (2) of this section that cover subject matter relative to radiation machines and radioactive materials, including naturally occurring radioactive materials, TENORM, and other sources of radiation. The subject matter of the rules must include: Licenses and registration; records; permissible levels of exposure; notification and reports of accidents; technical qualifications of personnel; technical qualifications of mammographers; handling, transportation, and storage; waste disposal; posting and labeling of hazardous sources and areas; surveys; monitoring; security of materials;

(b) The state board, may IN CONSULTATION WITH THE WATER

and financial assurance warranties.

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1	QUALITY CONTROL COMMISSION, THE SOLID AND HAZARDOUS WASTE
2	COMMISSION, AND THE COLORADO OIL AND GAS CONSERVATION
3	COMMISSION, SHALL adopt rules concerning the disposal of naturally
4	occurring radioactive materials, at any time after the promulgation by the
5	federal environmental protection agency or its successor of rules for the
6	disposal of naturally occurring radioactive materials INCLUDING
7	TENORM. THE RULES MUST INCLUDE REQUIREMENTS FOR GROUNDWATER
8	AND LEACHATE MONITORING FOR RADIONUCLIDES AT EACH DISPOSAL
9	FACILITY THAT ACCEPTS TENORM WASTE.
10	(c) BEFORE ADOPTING THE RULES SPECIFIED IN SUBSECTION (1)(b)
11	OF THIS SECTION, THE DEPARTMENT SHALL:
12	(I) CONVENE A STAKEHOLDER GROUP TO FACILITATE DECISIONS
13	AND APPROACHES TO THE HANDLING, TRANSPORTATION, BENEFICIAL USE,
14	AND DISPOSAL OF NATURALLY OCCURRING RADIOACTIVE MATERIALS AND
15	TENORM THAT ARE BASED ON A REASONABLE RELATIONSHIP TO THE
16	ECONOMIC, ENVIRONMENTAL, ENERGY, AND PUBLIC HEALTH COSTS AND
17	BENEFITS OF THE DECISIONS AND APPROACHES AND TO DISCUSS THE
18	DEVELOPMENT OF PROPOSED RULES AND THE IMPACTS THE RULES MIGHT
19	HAVE ON THE REGULATED COMMUNITY AND THE PUBLIC;
20	(II) INVITE REPRESENTATIVES OF AT LEAST THE FOLLOWING
21	INTEREST GROUPS TO PARTICIPATE IN THE STAKEHOLDER GROUP: THE OIL
22	AND GAS INDUSTRY, MINING INDUSTRY, POWER GENERATORS AND
23	SUPPLIERS, PUBLIC WATER PROVIDERS, PUBLIC WASTEWATER TREATMENT
24	PROVIDERS, SOLID WASTE LANDFILL OPERATORS, AND OTHER INTERESTED
25	OR AFFECTED PARTIES;
26	(III) REQUIRE ALL GENERATORS OF TENORM WASTE TO:
27	(A) REPORT TO THE DEPARTMENT THE VOLUMES AND TYPES OF

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1	I ENORM WASTE THEY GENERATE AND THE LOCATIONS AT WHICH THEY
2	DISPOSE OF THE WASTE; AND
3	(B) MAKE ALL TENORM WASTE STREAMS AVAILABLE FOR
4	REPRESENTATIVE SAMPLING AND DATA COLLECTION BY AN INDEPENDENT
5	THIRD PARTY CONTRACTED WITH BY THE STATE;
6	(IV) CONTRACT WITH AN INDEPENDENT THIRD PARTY TO PREPARE
7	A COMPREHENSIVE REPORT, WITH INPUT PROVIDED BY THE STAKEHOLDER
8	GROUP SPECIFIED IN SUBSECTION (1)(c)(I) OF THIS SECTION, THAT
9	ASSESSES THE MEASURABLE PUBLIC HEALTH IMPACTS FROM NATURALLY
10	OCCURRING RADIOACTIVE MATERIALS AND TENORM. THE REPORT MUST:
11	(A) ESTABLISH BACKGROUND RADIATION LEVELS IN VARIOUS
12	REGIONS OF THE STATE, IDENTIFY AND QUANTIFY WASTE STREAMS,
13	ANALYZE HISTORICAL BENEFICIAL USE AND DISPOSAL PRACTICES, AND
14	EVALUATE CURRENT ENGINEERING PRACTICES AND APPROPRIATE TEST
15	METHODS;
16	(B) IDENTIFY DATA GAPS AND ESTIMATED ECONOMIC IMPACTS
17	FROM REGULATING NATURALLY OCCURRING RADIOACTIVE MATERIALS
18	AND TENORM GENERATED BY THE INTEREST GROUPS SPECIFIED IN
19	SUBSECTION (1)(c)(II) OF THIS SECTION; AND
20	(C) INCLUDE A DETAILED REGULATORY REVIEW OF HOW OTHER
21	STATES REGULATE THE HANDLING, TRANSPORTATION, BENEFICIAL USE,
22	AND DISPOSAL OF NATURALLY OCCURRING RADIOACTIVE MATERIALS AND
23	TENORM.
24	(V) SUBMIT A DETAILED SUMMARY OF THE REPORT REQUIRED BY
25	SUBSECTION (1)(c)(IV) OF THIS SECTION TO THE GENERAL ASSEMBLY'S
26	COMMITTEES OF REFERENCE WITH JURISDICTION OVER PUBLIC HEALTH AND
27	NATURAL RESOURCES NO LATER THAN DECEMBER 31, 2020, WHICH

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1	SUMMARY INCLUDES A DESCRIPTION OF THE STAKEHOLDER PROCESS,
2	INCLUDING THE DEPARTMENT'S OUTREACH EFFORTS, THE NUMBER OF
3	MEETINGS HELD, AND ANY DISSENTING COMMENTS SUBMITTED BY
4	PARTICIPANTS IN THE STAKEHOLDER PROCESS. THE COMMITTEES OF
5	REFERENCE SHALL HOLD A HEARING ON THE ISSUES ADDRESSED IN THE
6	SUMMARY BY MARCH 1, 2021.
7	(VI) BASED ON THE FEEDBACK OF THE STAKEHOLDER GROUP, THE
8	REPORT PREPARED PURSUANT TO SUBSECTION $(1)(c)(IV)$ of this section,
9	AND THE HEARING HELD PURSUANT TO SUBSECTION $(1)(c)(V)$ OF THIS
10	SECTION, PROPOSE DRAFT RULES CONCERNING:
11	(A) THE CONCENTRATION OF RADIONUCLIDES IN SOLID WASTE
12	BELOW WHICH TENORM-CONTAINING WASTE MAY BE DISPOSED OF AT A
13	SOLID WASTES DISPOSAL SITE AND FACILITY, AT AN EP WASTE DISPOSAL
14	FACILITY, BY ANY OTHER MEANS OF LAND DISPOSAL THAT IS NOT
15	SPECIFICALLY APPROVED AND DESIGNATED TO RECEIVE THE WASTE, OR BY
16	DISCHARGE INTO STATE WATERS;
17	(B) THE CONCENTRATION OF RADIONUCLIDES IN SOLID WASTE
18	ABOVE WHICH TENORM-CONTAINING WASTE MUST BE DISPOSED OF AT
19	A FACILITY SPECIFICALLY APPROVED AND DESIGNATED TO RECEIVE THE
20	WASTE; AND
21	(C) THE MINIMUM TECHNICAL SPECIFICATIONS NECESSARY FOR
22	THE SAFE DISPOSAL OF TENORM-CONTAINING WASTE AND OTHER
23	SUBJECTS RELATED TO THE CHARACTERIZATION AND SAFE DISPOSAL OF
24	TENORM-CONTAINING WASTES.
25	(d) Until the state board adopts the rules specified in
26	SUBSECTION (1)(b) OF THIS SECTION:
27	(I) A PERSON SHALL COMPLY WITH THE "INTERIM POLICY AND

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1	GUIDANCE PENDING RULEMAKING FOR THE CONTROL AND DISPOSITION
2	OF TECHNOLOGICALLY-ENHANCED NATURALLY OCCURRING
3	RADIOACTIVE MATERIALS IN COLORADO", ISSUED BY THE DEPARTMENT,
4	DATED FEBRUARY 2007; AND
5	(II) IF THE SOLID WASTE WAS GENERATED FROM OIL AND GAS
6	EXPLORATION AND PRODUCTION, THE PERSON SHALL ALSO COMPLY WITH
7	THE LETTERS DATED NOVEMBER 7, 2017, AND NOVEMBER 14, 2017, FROM
8	THE MANAGER OF THE DEPARTMENT'S SOLID WASTE AND MATERIALS
9	MANAGEMENT PROGRAM REGARDING MANAGEMENT AND DISPOSAL OF
10	TENORM WASTES GENERATED BY OIL AND GAS EXPLORATION AND
11	PRODUCTION.
12	(e) Subsections (1)(c) and (1)(d) of this section and this
13	SUBSECTION (1)(e) WILL BE REPEALED IF THE STATE BOARD ADOPTS THE
14	RULES SPECIFIED IN SUBSECTION (1)(b) OF THIS SECTION. THE STATE
15	BOARD SHALL NOTIFY THE REVISOR OF STATUTES IN WRITING OF THE DATE
16	ON WHICH THE RULES SPECIFIED IN THIS SUBSECTION (1)(e) BECOME
17	EFFECTIVE BY E-MAILING THE NOTICE TO
18	REVISOROFSTATUTES.GA@STATE.CO.US. SUBSECTIONS (1)(c) AND (1)(d)
19	OF THIS SECTION AND THIS SUBSECTION (1)(e) ARE REPEALED, EFFECTIVE
20	UPON THE DATE IDENTIFIED IN THE NOTICE THAT THE RULES BECAME
21	EFFECTIVE OR, IF THE NOTICE DOES NOT SPECIFY THAT DATE, UPON THE
22	DATE OF THE NOTICE TO THE REVISOR OF STATUTES.
23	(f) This subsection (1) is enforceable pursuant to sections
24	30-20-113 AND 30-20-114.
25	(g) FOR PURPOSES OF THIS SUBSECTION (1):
26	(I) "EP WASTE DISPOSAL FACILITY" HAS THE MEANING
27	ESTABLISHED IN SECTION 30-20-109 (1.5)(a)(II).

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1	(II) "RADIONUCLIDES" INCLUDES RADIUM 226 AND RADIUM 228,
2	COMBINED; NATURAL THORIUM; AND NATURAL URANIUM.
3	(III) "SOLID WASTE" HAS THE MEANING ESTABLISHED IN SECTION
4	30-20-101 (6).
5	(IV) "SOLID WASTES DISPOSAL SITE AND FACILITY" HAS THE
6	MEANING ESTABLISHED IN SECTION 30-20-101 (8).
7	(V) "STATE WATERS" HAS THE MEANING ESTABLISHED IN SECTION
8	25-8-103 (19).
9	(VI) "TENORM" MEANS NATURALLY OCCURRING RADIOACTIVE
10	MATERIALS THAT HAVE BEEN CONCENTRATED OR EXPOSED TO THE
11	ACCESSIBLE ENVIRONMENT AS A RESULT OF HUMAN ACTIVITIES SUCH AS
12	MANUFACTURING, MINERAL EXTRACTION, OR WATER PROCESSING.
13	"TENORM" DOES NOT INCLUDE BACKGROUND RADIATION OF THE
14	ACCESSIBLE ENVIRONMENT; "BYPRODUCT MATERIAL" OR "SOURCE
15	MATERIAL", AS DEFINED BY COLORADO STATUTE OR RULE; OR ENRICHED
16	OR DEPLETED URANIUM AS DEFINED BY COLORADO OR FEDERAL STATUTE
17	OR RULE.
18	(c) (h) Notwithstanding any provision of section 25-11-103 (7)(h),
19	it is not necessary that a governmental entity own any site that is used for
20	the concentration, storage, or disposal of radioactive material if the owner
21	of the site complies with rules promulgated by the STATE board in
22	accordance with this section. The rules must ensure the long-term
23	protection of the public health and safety and may include financial
24	assurance warranties pursuant to this part 1, deed annotations and
25	restrictions, easement provisions, restrictive covenants, and adequate
26	markers to warn of the presence of radioactive materials.
27	SECTION 2 Appropriation For the 2018-19 state fiscal year

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\$16,596,405 is appropriated to the department of public health and environment for use by the hazardous materials and waste management division. This appropriation is from the general fund. To implement this act, the division may use this appropriation for personal services related to radiation management.

**SECTION 3.** Act subject to petition - effective date - applicability. (1) This act takes effect at 12:01 a.m. on the day following the expiration of the ninety-day period after final adjournment of the general assembly (August 8, 2018, if adjournment sine die is on May 9, 2018); except that, if a referendum petition is filed pursuant to section 1 (3) of article V of the state constitution against this act or an item, section, or part of this act within such period, then the act, item, section, or part will not take effect unless approved by the people at the general election to be held in November 2018 and, in such case, will take effect on the date of the official declaration of the vote thereon by the governor.

(2) This act applies to conduct occurring on or after the applicable effective date of this act.

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