SENATE BILL 253

М3 5lr0245 SB 889/21 – EHE CF HB 62 (PRE-FILED) By: Chair, Education, Energy, and the Environment Committee (By Request -Departmental - Commerce) Requested: October 4, 2024 Introduced and read first time: January 8, 2025 Assigned to: Education, Energy, and the Environment Committee Report: Favorable with amendments Senate action: Adopted Read second time: February 22, 2025 CHAPTER AN ACT concerning Controlled Hazardous Substance Facility Permit - Research Facilities -**Chemical Warfare Material Requirements** FOR the purpose of providing that certain provisions of law regarding chemical warfare material requirements under a controlled hazardous substance facility permit do not apply to certain research facilities under certain circumstances; establishing additional requirements applicable to research, development, and demonstration permits issued for the incineration of chemical warfare materials at a research <u>facility</u>; and generally relating to controlled hazardous substance facility permits. BY repealing and reenacting, with amendments, Article – Environment Section 7–239.1, 7–239.2, 7–239.3, and 7–239.4 Annotated Code of Maryland (2013 Replacement Volume and 2024 Supplement) BY adding to <u>Article – Environment</u> <u>Section 7–23</u>9.5 Annotated Code of Maryland (2013 Replacement Volume and 2024 Supplement)

EXPLANATION: CAPITALS INDICATE MATTER ADDED TO EXISTING LAW.

[Brackets] indicate matter deleted from existing law.

<u>Underlining</u> indicates amendments to bill.

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Strike out indicates matter stricken from the bill by amendment or deleted from the law by amendment.



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DEPARTMENT

MATERIALS.

DEMONSTRATION OF

OF

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FOR

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THE

RESEARCH,

TO

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DEVELOPMENT,

WARFARE

CHEMICAL

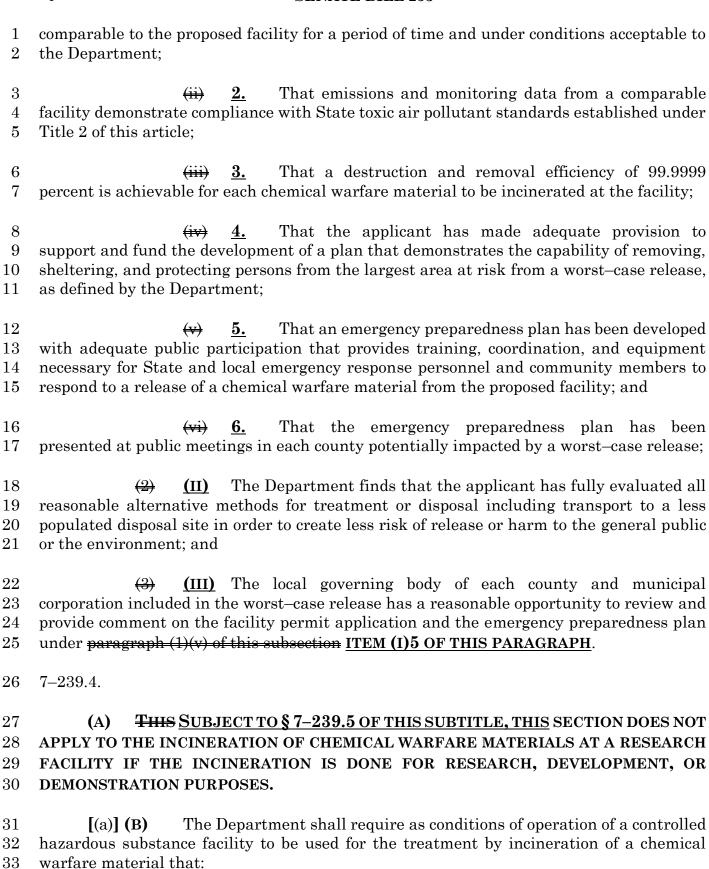
1 SECTION 1. BE IT ENACTED BY THE GENERAL ASSEMBLY OF MARYLAND, 2 That the Laws of Maryland read as follows: 3 Article - Environment 7-239.1. 4 5 In §§ 7–239.1 through 7–239.4 7–239.5 of this subtitle the following words 6 have the meanings indicated. 7 (b) "Chemical warfare material" means any of the following: (1) 8 (i) Adamsite (Phenarsazine chloride); 9 GA (Ethyl-N, N-dimethyl phosphoramidocyanidate); (ii) 10 (iii) GB (Isopropyl methyl phosphonofluoridate): 11 (iv) GD (Pinacolyl methylphosphonofluoridate); 12(v) H, HD (Bis(2-chloroethyl) sulfide); 13 (vi) HTHD 40 Τ (60)percent and percent (Bis[2(2-chloroethyl-thio)ethyl]ester)); 14 15 (vii) L (Dichloro(2-chlorovinyl)arsine); 16 (viii) T (2-2' Di (3-chloroethylthio)-diethyl ether); or 17 VX (O-ethyl-S-(2-diisopropylaminoethyl) (ix) methyl 18 phosphonothiolate). 19 (2) "Chemical warfare material" includes any substance that has chemical 20 warfare material as an active or principal ingredient or ingredients, and degradation products of chemical warfare material. 2122"Monitoring data" means data from actual stack emissions under all (c) 23operating conditions at a controlled hazardous substance facility. 24"Monitoring data" does not include trial burn data or data derived from (2)incineration of agent simulants. 2526 "RESEARCH FACILITY" MEANS A FACILITY DESIGNATED BY THE U.S. (D)

 $1 \quad 7-239.2.$

- 2 (a) The State of Maryland finds that the chemical warfare materials specified 3 under § 7–239.1 of this subtitle were designed for warfare, specifically the destruction of 4 human beings, and for no legitimate civilian industrial use.
- 5 (b) The State recognizes the need to dispose of these chemical warfare materials as safely as possible, ensuring the health and safety of State residents by the regulation of their release into the environment.
- 8 (c) Since these chemical warfare materials are highly toxic or carcinogenic, in 9 addition to any other applicable requirements at law, the State shall require [without 10 exemption or waiver] that an applicant for the treatment by incineration of chemical 11 warfare materials shall comply with all [the] APPLICABLE requirements of this subtitle 12 and all APPLICABLE regulations adopted under this subtitle.
- 13 **(D)** NOTHING IN THIS SECTION OR IN §§ 7–239.3 AND 7–239.4 THROUGH
 14 7–239.5 OF THIS SUBTITLE SHALL LIMIT THE AUTHORITY OF THE DEPARTMENT TO
 15 APPLY REGULATIONS ADOPTED UNDER THIS SUBTITLE TO A CHEMICAL WARFARE
 16 MATERIAL THAT IS A CONTROLLED HAZARDOUS SUBSTANCE.
- 17 7–239.3.
- 18 (A) THIS SECTION DOES NOT APPLY TO THE INCINERATION OF CHEMICAL
 19 WARFARE MATERIALS AT A RESEARCH FACILITY IF THE INCINERATION IS DONE FOR
 20 RESEARCH, DEVELOPMENT, OR DEMONSTRATION PURPOSES.
- 21 **(a)** A chemical warfare material that is a solid waste is a controlled 22 hazardous substance.
- 23 [(b)] (c) (1) <u>SUBJECT TO § 7–239.5 OF THIS SUBTITLE, THIS</u>
 24 <u>SUBSECTION DOES NOT APPLY TO THE INCINERATION OF CHEMICAL WARFARE</u>
 25 <u>MATERIALS AT A RESEARCH FACILITY IF THE INCINERATION IS DONE FOR</u>
 26 RESEARCH, DEVELOPMENT, OR DEMONSTRATION PURPOSES.
- 27 (2) In addition to any other applicable requirements, the Department may 28 not issue a permit for the construction, material alteration, or operation of a controlled 29 hazardous substance facility to be used for the treatment by incineration of a chemical 30 warfare material unless:
- 31 (1) (I) The permit applicant demonstrates to the satisfaction of the 32 Department prior to issuance of a controlled hazardous substance facility permit:
- 33 (i) <u>1.</u> That the proposed incinerator technology has consistently met all applicable federal and State performance standards in an operational facility

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(1)



Treatment by incineration be monitored on a continuous basis;

- 1 (2) Monitoring data be regularly reviewed by a qualified independent third 2 party selected by the Department; and
- 3 (3) Monitoring data and reviews be reported to the Department in the 4 manner and frequency determined appropriate by the Department.
- 5 **[(b)] (C)** Any permit issued under this section shall be for a quantity that is specifically identified and:
- 7 (1) May be renewed for good cause as to the length of time for completion 8 of the incineration authorized under the permit; but
- 9 (2) May not be modified as to the amount of controlled hazardous substance 10 to be destroyed.
- [(c)] (D) After destruction of the specific quantity of the controlled hazardous substance allowed by the terms of the permit issued under this section, the incinerator shall be disassembled and disposed of in accordance with all applicable federal and State performance standards and in a time period established by the permit.
- [(d)] (E) In addition to the facility permit fee required under § 7–237 of this subtitle, the applicant shall pay the compensation of an independent third party with whom the Department may contract for the review of application materials and monitoring data.
- 18 **7–239.5.**
- 19 (A) (1) THE DEPARTMENT MAY ISSUE A RESEARCH, DEVELOPMENT, AND 20 DEMONSTRATION PERMIT FOR THE INCINERATION OF CHEMICAL WARFARE 21 MATERIALS AT A RESEARCH FACILITY IN ACCORDANCE WITH THIS SECTION.
- 22 (2) THE REQUIREMENTS OF THIS SECTION ARE IN ADDITION TO ANY
 23 GENERAL REQUIREMENTS FOR RESEARCH, DEVELOPMENT, AND DEMONSTRATION
 24 PERMITS, INCLUDING GENERAL REQUIREMENTS RELATED TO PUBLIC
 25 PARTICIPATION IN THE PERMITTING PROCESS.
- 26 (B) A PERMIT ISSUED UNDER THIS SECTION SHALL:
- 27 (1) <u>Limit the duration of the permit in accordance with</u> 28 <u>Department regulations;</u>
- 29 (2) PROVIDE FOR THE RECEIPT AND TREATMENT BY THE RESEARCH
 30 FACILITY OF ONLY THOSE TYPES AND QUANTITIES OF CHEMICAL WARFARE
- 31 MATERIALS THAT THE DEPARTMENT CONSIDERS NECESSARY FOR PURPOSES OF
- 32 <u>DETERMINING THE EFFICACY AND PERFORMANCE CAPABILITIES OF THE</u>
- 33 INCINERATION TECHNOLOGY OR PROCESS; AND

1	(3) Subject to subsection (c) of this section, include
2	REQUIREMENTS AS THE DEPARTMENT CONSIDERS NECESSARY TO PROTECT HUMAN
3	HEALTH AND THE ENVIRONMENT, INCLUDING REQUIREMENTS REGARDING:
4	(I) MONITORING;
5	(II) OPERATION;
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6	(III) FINANCIAL RESPONSIBILITY;
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7	(IV) CLOSURE AND REMEDIAL ACTION; AND
0	(v) Any omited marging mile Departments concidence
8 9	(V) ANY OTHER MATTER THAT THE DEPARTMENT CONSIDERS NECESSARY RELATED TO TESTING AND PROVIDING INFORMATION TO THE
	NECESSARY RELATED TO TESTING AND PROVIDING INFORMATION TO THE DEPARTMENT WITH RESPECT TO THE OPERATION OF THE RESEARCH FACILITY.
10	DEPARTMENT WITH RESPECT TO THE OPERATION OF THE RESEARCH FACILITY.
11	(C) IN DEVELOPING PERMIT REQUIREMENTS UNDER THIS SECTION, THE
12	DEPARTMENT SHALL:
14	DEFINITION.
13	(1) REQUIRE CONTINUOUS NEAR-REAL TIME AIR EMISSIONS
14	MONITORING, WITH A LAG TIME OF NOT MORE THAN 10 MINUTES, DURING
15	INCINERATION; AND
16	(2) CONSIDER THE NEED FOR SOIL AND WATER POLLUTION
17	MONITORING.
18	(D) THE DEPARTMENT MAY ORDER AN IMMEDIATE TERMINATION OF ALL
19	INCINERATION OPERATIONS AT A RESEARCH FACILITY AT ANY TIME THE
20	DEPARTMENT DETERMINES THAT TERMINATION IS NECESSARY TO PROTECT
21	HUMAN HEALTH OR THE ENVIRONMENT.
22	(E) (1) THE DEPARTMENT SHALL REQUIRE A RESEARCH FACILITY THAT
23	RECEIVES A PERMIT UNDER THIS SECTION TO:
24	(I) AT LEAST ONCE EVERY YEAR, REPORT TO THE
25	DEPARTMENT ON OPERATIONS UNDER THE PERMIT, INCLUDING:
0.0	1 THE OHANGEMENT AND EXPERS OF OVERLEGAT WARRING
26	1. THE QUANTITIES AND TYPES OF CHEMICAL WARFARE
27	MATERIALS INCINERATED DURING THE REPORTING PERIOD;
28	2. The results of all emissions and pollution
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$\frac{1}{2}$	3. Any other information requested by the Department; and
3 4 5	(II) AT LEAST ONCE EVERY 2 YEARS, CONDUCT AND SUBMIT TO THE DEPARTMENT AN ASSESSMENT OF INCINERATION ACTIVITIES CONDUCTED UNDER THE PERMIT ON LOCAL ECOSYSTEMS, PUBLIC HEALTH, AND AIR QUALITY.
6	(2) THE DEPARTMENT:
7 8	(I) SHALL REVIEW ALL REPORTS AND ASSESSMENTS SUBMITTED UNDER THIS SUBSECTION; AND
9 10 11	(II) MAY, ON THE BASIS OF A REPORT OR ASSESSMENT SUBMITTED UNDER THIS SUBSECTION, MODIFY OR REVOKE A PERMIT ISSUED UNDER THIS SECTION.
12	(3) THE DEPARTMENT SHALL:
13 14 15 16	(I) TO THE EXTENT THAT DOING SO IS CONSISTENT WITH § 4-352 OF THE GENERAL PROVISIONS ARTICLE, MAKE ALL REPORTS AND ASSESSMENTS REQUIRED UNDER THIS SUBSECTION AVAILABLE ON THE DEPARTMENT'S WEBSITE; AND (II) IN ACCORDANCE WITH § 2-1257 OF THE STATE
18	GOVERNMENT ARTICLE, SUBMIT ALL REPORTS AND ASSESSMENTS REQUIRED
19 20	UNDER THIS SUBSECTION TO THE SENATE COMMITTEE ON EDUCATION, ENERGY AND THE ENVIRONMENT AND THE HOUSE ENVIRONMENT AND TRANSPORTATION
21	COMMITTEE.
22 23	SECTION 2. AND BE IT FURTHER ENACTED, That this Act shall take effect July 1, 2025.
	Approved:
	Governor.
	President of the Senate.
	Speaker of the House of Delegates.