CERTIFICATION OF ENROLLMENT

**ENGROSSED SECOND SUBSTITUTE HOUSE BILL 1663**

Chapter 179, Laws of 2022

67th Legislature

2022 Regular Session

LANDFILLS—METHANE EMISSIONS

EFFECTIVE DATE: June 9, 2022

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| Passed by the House March 9, 2022  Yeas 58 Nays 38  LAURIE JINKINS  **Speaker of the House of Representatives**  Passed by the Senate March 4, 2022  Yeas 30 Nays 17  DENNY HECK  **President of the Senate** | CERTIFICATE  I, Bernard Dean, Chief Clerk of the House of Representatives of the State of Washington, do hereby certify that the attached is **ENGROSSED SECOND SUBSTITUTE HOUSE BILL 1663** as passed by the House of Representatives and the Senate on the dates hereon set forth.  BERNARD DEAN  Chief Clerk |
| Approved March 25, 2022 10:35 AM | March 28, 2022 |
| JAY INSLEE  **Governor of the State of Washington** | **Secretary of State**  **State of Washington** |

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**ENGROSSED SECOND SUBSTITUTE HOUSE BILL 1663**

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AS AMENDED BY THE SENATE

Passed Legislature - 2022 Regular Session

**State of Washington 67th Legislature 2022 Regular Session**

**By** House Appropriations (originally sponsored by Representatives Duerr, Fitzgibbon, Ryu, Berry, Leavitt, Ramel, Thai, Walen, Valdez, Goodman, Gregerson, Macri, Peterson, Slatter, Tharinger, Kloba, Pollet, Harris-Talley, and Hackney)

AN ACT Relating to reducing methane emissions from landfills; amending RCW 70A.65.080, 70A.15.1010, and 70A.65.260; reenacting and amending RCW 70A.15.3160; adding a new chapter to Title 70A RCW; and prescribing penalties.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF WASHINGTON:

NEW SECTION. **Sec.**  The definitions in this section apply throughout this chapter unless the context clearly requires otherwise.

(1) "Active municipal solid waste landfill" means a municipal solid waste landfill that has accepted or is accepting solid waste for disposal and has not been closed in accordance with the requirements set forth in WAC 173-351-500 as it existed on January 10, 2022.

(2) "Air pollution" is presence in the outdoor atmosphere of one or more air contaminants in sufficient quantities and of such characteristics and duration as is, or is likely to be, injurious to human health, plant or animal life, or property, or which unreasonably interfere with enjoyment of life and property. For the purpose of this chapter, air pollution does not include air contaminants emitted in compliance with chapter 17.21 RCW.

(3) "Ambient air" means the surrounding outside air.

(4) "Authority" means any air pollution control agency whose jurisdictional boundaries are coextensive with the boundaries of one or more counties.

(5) "Closed municipal solid waste landfill" means a municipal solid waste landfill that is no longer accepting solid waste for disposal and has been closed in accordance with the requirements set forth in WAC 173-351-500 as it existed on January 10, 2022.

(6) "Department" means the department of ecology.

(7) "Emission" means a release of air contaminants into the ambient air.

(8) "Gas collection system" means any system that employs various gas collection wells and connected piping, and mechanical blowers, fans, pumps, or compressors to create a pressure gradient and actively extract landfill gas.

(9) "Gas control device" means any device used to dispose of or treat collected landfill gas including, but not limited to, enclosed flares, internal combustion engines, boilers and boiler-to-steam turbine systems, fuel cells, and gas turbines.

(10) "Gas control system" means any system that disposes of or treats collected landfill gas by one or more of the following means: Combustion; gas treatment for subsequent sale, or sale for processing offsite, including for transportation fuel and injection into a natural gas pipeline.

(11) "Municipal solid waste landfill" means a discrete area of land or an excavation that receives household waste and that is not a land application site, surface impoundment, injection well, or pile.

(12) "Person" means an individual, firm, public or private corporation, association, partnership, political subdivision of the state, municipality, or governmental agency.

NEW SECTION. **Sec.**  (1) This chapter applies to all municipal solid waste landfills that received solid waste after January 1, 1992, except as provided in subsection (2) of this section.

(2) This chapter does not apply to the following landfills:

(a) Landfills that receive only hazardous waste, or are currently regulated under the comprehensive environmental response, compensation, and liability act, 42 U.S.C. chapter 103; and

(b) Landfills that receive only inert waste or nondecomposable wastes.

(3) The department must adopt rules to implement this chapter. The rules adopted by the department must be informed by landfill methane regulations adopted by the California air resources board, the Oregon environmental quality commission, and the United States environmental protection agency.

NEW SECTION. **Sec.**  (1) Each owner or operator of an active municipal solid waste landfill having fewer than 450,000 tons of waste in place must submit an annual waste in place report to the department or local authority pursuant to section 7 of this act.

(a) The waste in place report must be prepared for the period of January 1st through December 31st of each year. The report must be submitted to the department or local authority during the subsequent calendar year, with the date of submission to be established by rule as adopted by the department.

(b) The waste in place report must be submitted annually until either:

(i) The active municipal solid waste landfill reaches a size greater than or equal to 450,000 tons of waste in place; or

(ii) The owner or operator submits a closure notification pursuant to section 7 of this act*.*

(2) Each owner or operator of either an active municipal solid waste landfill having greater than or equal to 450,000 tons of waste in place or a closed municipal solid waste landfill having greater than or equal to 750,000 tons of waste in place must calculate the landfill gas heat input capacity pursuant to section 8 of this act and the department's implementing rules and must submit a landfill gas heat input capacity report to the department or local authority.

(a) If the calculated landfill gas heat input capacity is less

than 3,000,000 British thermal units per hour recovered, the owner or operator must:

(i) Recalculate the landfill gas heat input capacity annually using the procedures specified in section 8 of this act and the department's implementing rules; and

(ii) Submit an annual landfill gas heat input capacity report to the department or local authority until either of the following conditions are met:

(A) The calculated landfill gas heat input capacity is greater than or equal to 3,000,000 British thermal units per hour recovered; or

(B) If the municipal solid waste landfill is active, the owner or operator submits a closure notification pursuant to section 7 of this act.

(b) If the landfill gas heat input capacity is greater than or equal to 3,000,000 British thermal units per hour recovered, the owner or operator must either:

(i) Comply with the requirements of this chapter and the department's implementing rules; or

(ii) Demonstrate to the satisfaction of the department or local authority that after four consecutive quarterly monitoring periods there is no measured concentration of methane of 200 parts per million by volume or greater using the instantaneous surface monitoring procedures specified in section 8 of this act and the department's implementing rules. Based on the monitoring results, the owner or operator must do one of the following:

(A) If there is any measured concentration of methane of 200 parts per million by volume or greater from the surface of an active, inactive, or closed municipal solid waste landfill, comply with this chapter and the department's implementing rules adopted pursuant to section 2 of this act;

(B) If there is no measured concentration of methane of 200 parts per million by volume or greater from the surface of an active municipal solid waste landfill, recalculate the landfill gas heat input capacity annually as required in (a) of this subsection until such time that the owner or operator submits a closure notification pursuant to section 7 of this act and the department's implementing rules adopted pursuant to section 2 of this act; or

(C) If there is no measured concentration of methane of 200 parts per million by volume or greater from the surface of a closed or inactive municipal solid waste landfill, the requirements of this chapter and the department's implementing rules adopted pursuant to section 2 of this act no longer apply, provided that the following information is submitted to and approved by the department or local authority:

(I) A waste in place report pursuant to section 7 of this act and the department's implementing rules adopted pursuant to section 2 of this act; and

(II) All instantaneous surface monitoring records.

NEW SECTION. **Sec.**  (1) The owner or operator of any municipal solid waste landfill that has a calculated landfill gas heat input capacity greater than or equal to 3,000,000 British thermal units per hour recovered must install a gas collection and control system that meets the requirements of this section and the department's implementing rules adopted pursuant to section 2 of this act, unless the owner or operator demonstrates to the satisfaction of the department or local authority that after four consecutive quarterly monitoring periods there is no measured concentration of methane of 200 parts per million by volume or greater using the instantaneous surface monitoring procedures specified in section 8 of this act and the department's implementing rules adopted pursuant to section 2 of this act. If a municipal solid waste landfill partners with a third party to operate all or a portion of the gas collection and control system or energy recovery device, the obligation to comply with the requirements of this chapter are the responsibility of the owner or operator of the relevant portion of the gas collection and control system or energy recovery device.

(2) The gas collection and control system must handle the expected gas generation flow rate from the entire area of the municipal solid waste landfill and must collect gas at an extraction rate to comply with the surface methane emission limits set forth in section 5 of this act and the department's implementing rules.

(3) The gas collection and control system must be designed and operated so that there is no landfill gas leak that exceeds 500 parts per million by volume, measured as methane, at any component under positive pressure.

(4) The gas collection and control system, if it uses a flare, must achieve a methane destruction efficiency of at least 99 percent by weight and must use either an enclosed flare or, if the system uses an open flare, the open flare must comply with the following requirements:

(a) The open flare must meet the requirements of 40 C.F.R. Sec. 60.18 (as last amended by 73 Fed. Reg. 78209, December 22, 2008);

(b) An open flare installed and operating prior to December 31, 2022, may operate until January 1, 2032, unless the owner or operator demonstrates to the satisfaction of the department or local authority that the landfill gas heat input capacity is less than 3,000,000 British thermal units per hour pursuant to section 8 of this act and the department's implementing rules adopted pursuant to section 2 of this act and is insufficient to support the continuous operation of an enclosed flare or other gas control device; and

(c) The owner or operator may temporarily operate an open flare during the repair or maintenance of the gas control system, or while awaiting the installation of an enclosed flare, or to address offsite gas migration issues. Any owner or operator seeking to temporarily operate an open flare must submit a written request to the department or local authority pursuant to section 10 of this act and the department's implementing rules adopted pursuant to section 2 of this act.

(5) If the gas collection and control system does not use a flare, it must either route the collected gas to an energy recovery device or devices, or must route the collected gas to a treatment system that processes the collected gas for subsequent sale or use.

(6) If a gas collection and control system routes the collected gas to an energy recovery device or devices, the owner or operator of the energy recovery device or devices must comply with the following requirements:

(a) The device or devices must achieve a methane destruction efficiency of at least 97 percent by weight, except for lean-burn internal combustion engines that were installed and operating prior to January 1, 2022, which must reduce the outlet methane concentration to less than 3,000 parts per million by volume, dry basis corrected to 15 percent oxygen; and

(b) If a boiler or a process heater is used as the gas control device, the landfill gas stream must be introduced into the flame zone, except that where the landfill gas is not the primary fuel for the boiler or process heater, introduction of the landfill gas stream into the flame zone is not required.

(7) If a gas collection and control system routes the collected gas to a treatment system that processes the collected gas for subsequent sale or use, the owner or operator of the treatment system must ensure the system achieves a methane leak rate of three percent or less by weight. Venting of processed landfill gas to the ambient air is not allowed. If the processed landfill gas cannot be routed for subsequent sale or use, then the treated landfill gas must be controlled according to subsection (4) of this section.

(8) The owner or operator of a municipal solid waste landfill must conduct a source test for any gas control device or devices subject to this section using the test methods identified in section 8 of this act and the department's implementing rules adopted pursuant to section 2 of this act. If a gas control device is currently in compliance with source testing requirements as of the effective date of this section, the owner or operator must conduct the source test no less frequently than once every five years. If a gas control device is currently not in compliance with source testing requirements as of the effective date of this section, or if a subsequent source test shows the gas control device is out of compliance, the owner or operator must conduct the source test no less frequently than once per year until two subsequent consecutive tests both show compliance. Upon two subsequent consecutive compliant tests, the owner or operator may return to conducting the source test no less frequently than once every five years.

NEW SECTION. **Sec.**  (1) Except as provided in section 4 of this act, beginning January 1st of the year following the year in which the department adopts rules to implement this chapter, or upon commencing operation of a newly installed gas collection and control system or modification of an existing gas collection and control system pursuant to section 4 of this act, whichever is later, and except as provided by the department to accommodate significant technological improvements, which may include the installation of an energy recovery device or devices, not to exceed 24 months after the department adopts rules to implement this chapter, no location on a municipal solid waste landfill surface may exceed the following methane concentration limits, dependent upon whether the owner or operator of the municipal solid waste landfills conducts, pursuant to section 6 of this act, instantaneous surface emissions monitoring or integrated surface emissions monitoring:

(a) Five hundred parts per million by volume, other than nonrepeatable, momentary readings, as determined by instantaneous surface emissions monitoring; or

(b) An average methane concentration limit of 25 parts per million by volume as determined by integrated surface emissions monitoring.

(2) Any reading exceeding the limits set forth in subsection (1) of this section must be recorded as an exceedance and the following actions must be taken:

(a) The owner or operator must record the date, location, and value of each exceedance, along with retest dates and results. The location of each exceedance must be clearly marked and identified on a topographic map of the municipal solid waste landfill, drawn to scale, with the location of both the monitoring grids and the gas collection system clearly identified; and

(b) The owner or operator must take corrective action, which may include, but not be limited to, maintenance or repair of the cover, or well vacuum adjustments. The location or locations of any exceedance must be remonitored within 10 calendar days of a measured exceedance.

(3) The requirements of this section do not apply to:

(a) The working face of the landfill;

(b) Areas of the landfill surface where the landfill cover material has been removed for the purpose of installing, expanding, replacing, or repairing components of the landfill cover system, the landfill gas collection and control system, the leachate collection and removal system, or a landfill gas condensate collection and removal system;

(c) Areas of the landfill surface where the landfill cover material has been removed for law enforcement activities requiring excavation; or

(d) Areas of the landfill in which the landfill owner or operator, or a designee of the owner or operator, is engaged in active mining for minerals or metals.

NEW SECTION. **Sec.**  (1) The owner or operator of a municipal solid waste landfill with a gas collection and control system must conduct instantaneous or integrated surface monitoring of the landfill surface according to the requirements specified in implementing rules adopted by the department pursuant to section 2 of this act.

(2) The owner or operator of a municipal solid waste landfill with a gas collection and control system must monitor the gas control system according to the requirements specified in implementing rules adopted by the department pursuant to section 2 of this act.

(3) The owner or operator of a municipal solid waste landfill with a gas collection and control system must monitor each individual wellhead to determine the gauge pressure according to the requirements specified in implementing rules adopted by the department pursuant to section 2 of this act.

NEW SECTION. **Sec.**  (1) The owner or operator of a municipal solid waste landfill must maintain records and prepare reports as prescribed in this section and in the department's implementing rules adopted pursuant to section 2 of this act.

(2) The owner or operator of a municipal solid waste landfill must maintain records related to monitoring, testing, landfill operations, and the operation of the gas control device, gas collection system, and gas control system. The records must be provided by the owner or operator to the department or local authority within five business days of a request from the department or local authority.

(3) The owner or operator of a municipal solid waste landfill that ceases to accept waste must submit a closure notification to the department or local authority within 30 days of ceasing to accept waste.

(4) The owner or operator of a municipal solid waste landfill must submit a gas collection and control system equipment removal report to the department or local authority within 30 days of well capping or the removal or cessation of operation of the gas collection, treatment, or control system equipment.

(5) The owner or operator of either an active municipal solid waste landfill with 450,000 or more tons of waste in place or a closed municipal solid waste landfill with 750,000 or more tons of waste in place must prepare an annual report for the period of January 1st through December 31st of each year. The annual report must include a calculation of landfill gas heat input capacity. Each annual report must be submitted to the department and local authority during the subsequent calendar year, with the date of submission to be established through rules adopted by the department.

(6) The owner or operator of an active municipal solid waste landfill with fewer than 450,000 tons of waste in place must submit a waste in place report to the department or local authority.

NEW SECTION. **Sec.**  (1) Any instrument used for the measurement of methane must be a hydrocarbon detector or other equivalent instrument approved by the department or local authority based on standards adopted by the department that address calibration, specifications, and performance criteria.

(2) The determination of landfill gas heat input capacity must be calculated consistent with the department's implementing rules adopted pursuant to section 2 of this act.

(3) The owner or operator of a municipal solid waste landfill must measure the landfill surface concentration of methane using a hydrocarbon detector meeting the requirements of this section and the department's implementing rules adopted pursuant to section 2 of this act.

(4) The owner or operator of a municipal solid waste landfill must measure leaks using a hydrocarbon detector meeting the requirements of this section and the department's implementing rules adopted pursuant to section 2 of this act.

(5) The expected gas generation flow rate must be determined according to the department's implementing rules adopted pursuant to section 2 of this act.

(6) The control device destruction efficiency must be determined according to the department's implementing rules adopted pursuant to section 2 of this act.

(7) Gauge pressure must be determined using a hand-held manometer, magnehelic gauge, or other pressure measuring device approved by the department or local authority.

(8) Alternative test methods may be used if they are approved in writing by the department or local authority.

NEW SECTION. **Sec.**  (1) The department or local authority must allow the capping or removal of the gas collection and control system at a closed municipal solid waste landfill, provided the following three requirements are met:

(a) The gas collection and control system was in operation for at least 15 years, unless the owner or operator demonstrates to the satisfaction of the department or local authority that due to declining methane rates, the municipal solid waste landfill will be unable to operate the gas collection and control system for a 15 year period;

(b) Surface methane concentration measurements do not exceed the limits specified in section 5 of this act; and

(c) The owner or operator submits an equipment removal report to the department or local authority pursuant to section 7 of this act and the department's implementing rules adopted pursuant to section 2 of this act.

(2) Nothing in this section may be interpreted to modify or supersede requirements related to the capping or removal of gas collection and control systems that may exist under the state clean air act, the federal clean air act, or rules adopted pursuant to either the state clean air act or the federal clean air act.

NEW SECTION. **Sec.**  (1) The owner or operator of a municipal solid waste landfill may request alternatives to the compliance measures, monitoring requirements, and test methods and procedures set forth in sections 4, 6, and 8 of this act, and the department's implementing rules adopted pursuant to section 2 of this act. Any alternatives requested by the owner or operator must be submitted in writing to the department.

(2) The criteria that the department may use to evaluate alternative compliance option requests include, but are not limited to: Compliance history; documentation containing the landfill gas flow rate and measured methane concentrations for individual gas collection wells or components; permits; component testing and surface monitoring results; gas collection and control system operation, maintenance, and inspection records; and historical meteorological data.

(3) The department must review the requested alternatives and either approve or disapprove the alternatives within 120 days. The department may request that additional information be submitted as part of the review of the requested alternatives.

(4) If a request for an alternative compliance option is denied, the department must provide written reasons for the denial.

(5) The department must deny a request for alternative compliance measures if the request does not provide levels of enforceability or methane emissions control that are equivalent to those set forth in this chapter or in the department's implementing rules adopted pursuant to section 2 of this act.

NEW SECTION. **Sec.**  The department or local authority may request that any owner or operator of a municipal solid waste landfill demonstrate that a landfill does not meet the applicability criteria specified in section 2 of this act. Such a demonstration must be submitted to the department or local authority within 90 days of a written request received from the department or local authority.

NEW SECTION. **Sec.**  Any person who violates this chapter or any rules that implement this chapter may incur a civil penalty pursuant to RCW 70A.15.3160. The department shall waive penalties in the event the owner or operator of the landfill is actively taking corrective actions to control any methane exceedances. Penalties collected under this section must be deposited into the air pollution control account created in RCW 70A.15.1010 and may only be used to implement chapter 70A.--- RCW (the new chapter created in section 18 of this act).

NEW SECTION. **Sec.**  The department and local authorities may assess and collect such fees as may be necessary to recover the direct and indirect costs associated with the implementation of this chapter.

**Sec.**  RCW 70A.65.080 and 2021 c 316 s 10 are each amended to read as follows:

(1) A person is a covered entity as of the beginning of the first compliance period and all subsequent compliance periods if the person reported emissions under RCW 70A.15.2200 for any calendar year from 2015 through 2019, or if additional data provided as required by this chapter indicates that emissions for any calendar year from 2015 through 2019 equaled or exceeded any of the following thresholds, or if the person is a first jurisdictional deliverer and imports electricity into the state during the compliance period:

(a) Where the person owns or operates a facility and the facility's emissions equal or exceed 25,000 metric tons of carbon dioxide equivalent;

(b) Where the person is a first jurisdictional deliverer and generates electricity in the state and emissions associated with this generation equals or exceeds 25,000 metric tons of carbon dioxide equivalent;

(c) Where the person is a first jurisdictional deliverer importing electricity into the state and the cumulative annual total of emissions associated with the imported electricity, whether from specified or unspecified sources, exceeds 25,000 metric tons of carbon dioxide equivalent. In consultation with any linked jurisdiction to the program created by this chapter, by October 1, 2026, the department, in consultation with the department of commerce and the utilities and transportation commission, shall adopt by rule a methodology for addressing imported electricity associated with a centralized electricity market;

(d) Where the person is a supplier of fossil fuel other than natural gas and from that fuel 25,000 metric tons or more of carbon dioxide equivalent emissions would result from the full combustion or oxidation, excluding the amounts for fuel products that are produced or imported with a documented final point of delivery outside of Washington and combusted outside of Washington; and

(e)(i) Where the person supplies natural gas in amounts that would result in exceeding 25,000 metric tons of carbon dioxide equivalent emissions if fully combusted or oxidized, excluding the amounts for fuel products that are produced or imported with a documented final point of delivery outside of Washington and combusted outside of Washington, and excluding the amounts: (A) Supplied to covered entities under (a) through (d) of this subsection; and (B) delivered to opt-in entities;

(ii) Where the person who is not a natural gas company and has a tariff with a natural gas company to deliver to an end-use customer in the state in amounts that would result in exceeding 25,000 metric tons of carbon dioxide equivalent emissions if fully combusted or oxidized, excluding the amounts: (A) Supplied to covered entities under (a) through (d) of this subsection; and (B) the amounts delivered to opt-in entities;

(iii) Where the person is an end-use customer in the state who directly purchases natural gas from a person that is not a natural gas company and has the natural gas delivered through an interstate pipeline to a distribution system owned by the purchaser in amounts that would result in exceeding 25,000 metric tons of carbon dioxide equivalent emissions if fully combusted or oxidized, excluding the amounts: (A) Supplied to covered entities under (a) through (d) of this subsection; and (B) delivered to opt-in entities.

(2) A person is a covered entity as of the beginning of the second compliance period and all subsequent compliance periods if the person reported emissions under RCW 70A.15.2200 or provided emissions data as required by this chapter for any calendar year from 2023 through 2025, where the person owns or operates a waste to energy facility utilized by a county and city solid waste management program and the facility's emissions equal or exceed 25,000 metric tons of carbon dioxide equivalent.

(3)((~~(a)~~)) A person is a covered entity beginning January 1, 2031, and all subsequent compliance periods if the person reported emissions under RCW 70A.15.2200 or provided emissions data as required by this chapter for any calendar year from 2027 through 2029, where the person owns or operates a((~~:~~

~~(i) Landfill utilized by a county and city solid waste management program and the facility's emissions equal or exceed 25,000 metric tons of carbon dioxide equivalent; or~~

~~(ii) Railroad~~)) railroad company, as that term is defined in RCW 81.04.010, and the railroad company's emissions equal or exceed 25,000 metric tons of carbon dioxide equivalent.

((~~(b) Subsection (a) of this subsection does not apply to owners or operators of landfills that:~~

~~(i) Capture at least 75 percent of the landfill gas generated by the decomposition of waste using methods under 40 C.F.R. Part 98, Subpart HH - Municipal Solid Waste landfills, and subsequent updates; and~~

~~(ii) Operate a program, individually or through partnership with another entity, that results in the production of renewable natural gas or electricity from landfill gas generated by the facility.~~

~~(c) It is the intent of the legislature to adopt a greenhouse gas reduction policy specific to landfills. If such a policy is not enacted by January 1, 2030, the requirements of this subsection (3) take full effect.~~))

(4) When a covered entity reports, during a compliance period, emissions from a facility under RCW 70A.15.2200 that are below the thresholds specified in subsection (1) or (2) of this section, the covered entity continues to have a compliance obligation through the current compliance period. When a covered entity reports emissions below the threshold for each year during an entire compliance period, or has ceased all processes at the facility requiring reporting under RCW 70A.15.2200, the entity is no longer a covered entity as of the beginning of the subsequent compliance period unless the department provides notice at least 12 months before the end of the compliance period that the facility's emissions were within 10 percent of the threshold and that the person will continue to be designated as a covered entity in order to ensure equity among all covered entities. Whenever a covered entity ceases to be a covered entity, the department shall notify the appropriate policy and fiscal committees of the legislature of the name of the entity and the reason the entity is no longer a covered entity.

(5) For types of emission sources described in subsection (1) of this section that begin or modify operation after January 1, 2023, and types of emission sources described in subsection (2) of this section that begin or modify operation after 2027, coverage under the program starts in the calendar year in which emissions from the source exceed the applicable thresholds in subsection (1) or (2) of this section, or upon formal notice from the department that the source is expected to exceed the applicable emissions threshold, whichever happens first. Sources meeting these conditions are required to transfer their first allowances on the first transfer deadline of the year following the year in which their emissions were equal to or exceeded the emissions threshold.

(6) For emission sources described in subsection (1) of this section that are in operation or otherwise active between 2015 and 2019 but were not required to report emissions for those years under RCW 70A.15.2200 for the reporting periods between 2015 and 2019, coverage under the program starts in the calendar year following the year in which emissions from the source exceed the applicable thresholds in subsection (1) of this section as reported pursuant to RCW 70A.15.2200 or provided as required by this chapter, or upon formal notice from the department that the source is expected to exceed the applicable emissions threshold for the first year that source is required to report emissions, whichever happens first. Sources meeting these criteria are required to transfer their first allowances on the first transfer deadline of the year following the year in which their emissions, as reported under RCW 70A.15.2200 or provided as required by this chapter, were equal to or exceeded the emissions threshold.

(7) The following emissions are exempt from coverage in the program, regardless of the emissions reported under RCW 70A.15.2200 or provided as required by this chapter:

(a) Emissions from the combustion of aviation fuels;

(b) Emissions from watercraft fuels supplied in Washington that are combusted outside of Washington;

(c) Emissions from a coal-fired electric generation facility exempted from additional greenhouse gas limitations, requirements, or performance standards under RCW 80.80.110;

(d) Carbon dioxide emissions from the combustion of biomass or biofuels;

(e)(i) Motor vehicle fuel or special fuel that is used exclusively for agricultural purposes by a farm fuel user. This exemption is available only if a buyer of motor vehicle fuel or special fuel provides the seller with an exemption certificate in a form and manner prescribed by the department. For the purposes of this subsection, "agricultural purposes" and "farm fuel user" have the same meanings as provided in RCW 82.08.865.

(ii) The department must determine a method for expanding the exemption provided under (e)(i) of this subsection to include fuels used for the purpose of transporting agricultural products on public highways. The department must maintain this expanded exemption for a period of five years, in order to provide the agricultural sector with a feasible transition period; ((~~and~~))

(f) Emissions from facilities with North American industry classification system code 92811 (national security); and

(g) Emissions from municipal solid waste landfills that are subject to, and in compliance with, chapter 70A.--- RCW (the new chapter created in section 18 of this act).

(8) The department shall not require multiple covered entities to have a compliance obligation for the same emissions. The department may by rule authorize refineries, fuel suppliers, facilities using natural gas, and natural gas utilities to provide by agreement for the assumption of the compliance obligation for fuel or natural gas supplied and combusted in the state. The department must be notified of such an agreement at least 12 months prior to the compliance obligation period for which the agreement is applicable.

(9)(a) The legislature intends to promote a growing and sustainable economy and to avoid leakage of emissions from manufacturing to other locations. The legislature further intends to see innovative new businesses locate and grow in Washington that contribute to Washington's prosperity and environmental objectives.

(b) Consistent with the intent of the legislature to avoid the leakage of emissions to other jurisdictions, in achieving the state's greenhouse gas limits in RCW 70A.45.020, the state, including lead agencies under chapter 43.21C RCW, shall pursue the limits in a manner that recognizes that the siting and placement of new or expanded best-in-class facilities with lower carbon emitting processes is in the economic and environmental interests of the state of Washington.

(c) In conducting a life-cycle analysis, if required, for new or expanded facilities that require review under chapter 43.21C RCW, a lead agency must evaluate and attribute any potential net cumulative greenhouse gas emissions resulting from the project as compared to other existing facilities or best available technology including best-in-class facilities and emerging lower carbon processes that supply the same product or end use. The department may adopt rules to determine the appropriate threshold for applying this analysis.

(d) Covered emissions from an entity that is or will be a covered entity under this chapter may not be the basis for denial of a permit for a new or expanded facility. Covered emissions must be included in the analysis undertaken pursuant to (c) of this subsection. Nothing in this subsection requires a lead agency or a permitting agency to approve or issue a permit to a permit applicant, including to a new or expanded fossil fuel project.

(e) A lead agency under chapter 43.21C RCW or a permitting agency shall allow a new or expanded facility that is a covered entity or opt-in entity to satisfy a mitigation requirement for its covered emissions under chapter 316, Laws of 2021 and under any greenhouse gas emission mitigation requirements for covered emissions under chapter 43.21C RCW by submitting to the department the number of compliance instruments equivalent to its covered emissions during a compliance period.

**Sec.**  RCW 70A.15.3160 and 2021 c 317 s 25, 2021 c 315 s 16, and 2021 c 132 s 1 are each reenacted and amended to read as follows:

(1)(a) Except as provided in RCW 43.05.060 through 43.05.080 and 43.05.150, and in addition to or as an alternate to any other penalty provided by law, any person who violates any of the provisions of this chapter, chapter 70A.25, 70A.60, 70A.450, ((~~or 70A.60~~)) 70A.535 ((~~RCW~~)), or 70A.--- RCW (the new chapter created in section 18 of this act), RCW 76.04.205, or any of the rules in force under such chapters or section may incur a civil penalty in an amount not to exceed ten thousand dollars per day for each violation. Each such violation shall be a separate and distinct offense, and in case of a continuing violation, each day's continuance shall be a separate and distinct violation. Enforcement actions related to violations of RCW 76.04.205 must be consistent with the provisions of RCW 76.04.205.

(b) Any person who fails to take action as specified by an order issued pursuant to this chapter shall be liable for a civil penalty of not more than ten thousand dollars for each day of continued noncompliance.

(2)(a) Penalties incurred but not paid shall accrue interest, beginning on the ninety-first day following the date that the penalty becomes due and payable, at the highest rate allowed by RCW 19.52.020 on the date that the penalty becomes due and payable. If violations or penalties are appealed, interest shall not begin to accrue until the thirty-first day following final resolution of the appeal.

(b) The maximum penalty amounts established in this section may be increased annually to account for inflation as determined by the state office of the economic and revenue forecast council.

(3) Each act of commission or omission which procures, aids or abets in the violation shall be considered a violation under the provisions of this section and subject to the same penalty. The penalties provided in this section shall be imposed pursuant to RCW 43.21B.300.

(4)(a) Except as provided in (b) of this subsection, all penalties recovered under this section by the department or the department of natural resources shall be paid into the state treasury and credited to the air pollution control account established in RCW 70A.15.1010 or, if recovered by the authority, shall be paid into the treasury of the authority and credited to its funds. If a prior penalty for the same violation has been paid to a local authority, the penalty imposed by the department under subsection (1) of this section shall be reduced by the amount of the payment.

(b) All penalties recovered for violations of chapter 70A.60 RCW must be paid into the state treasury and credited to the refrigerant emission management account created in RCW 70A.60.050.

(5) To secure the penalty incurred under this section, the state or the authority shall have a lien on any vessel used or operated in violation of this chapter which shall be enforced as provided in RCW 60.36.050.

(6) Public or private entities that are recipients or potential recipients of department grants, whether for air quality related activities or not, may have such grants rescinded or withheld by the department for failure to comply with provisions of this chapter.

(7) In addition to other penalties provided by this chapter, persons knowingly underreporting emissions or other information used to set fees, or persons required to pay emission or permit fees who are more than ninety days late with such payments may be subject to a penalty equal to three times the amount of the original fee owed.

(8) The department shall develop rules for excusing excess emissions from enforcement action if such excess emissions are unavoidable. The rules shall specify the criteria and procedures for the department and local air authorities to determine whether a period of excess emissions is excusable in accordance with the state implementation plan.

**Sec.**  RCW 70A.15.1010 and 2021 c 315 s 13 are each amended to read as follows:

(1) The air pollution control account is established in the state treasury. All receipts collected by or on behalf of the department from RCW 70A.15.2200(2), and receipts from nonpermit program sources under RCW 70A.15.2210(1) and 70A.15.2230(7), and all receipts from RCW 70A.15.5090 ((~~and~~)), 70A.15.5120, and section 12 of this act shall be deposited into the account. Moneys in the account may be spent only after appropriation. Expenditures from the account may be used only to develop and implement the provisions of this chapter, chapters 70A.25 and 70A.--- (the new chapter created in section 18 of this act) RCW, and RCW 70A.60.060. Moneys collected under section 12 of this act may only be used to implement chapter 70A.--- RCW (the new chapter created in section 18 of this act).

(2) The amounts collected and allocated in accordance with this section shall be expended upon appropriation except as otherwise provided in this section and in accordance with the following limitations:

Portions of moneys received by the department of ecology from the air pollution control account shall be distributed by the department to local authorities based on:

(a) The level and extent of air quality problems within such authority's jurisdiction;

(b) The costs associated with implementing air pollution regulatory programs by such authority; and

(c) The amount of funding available to such authority from other sources, whether state, federal, or local, that could be used to implement such programs.

(3) The air operating permit account is created in the custody of the state treasurer. All receipts collected by or on behalf of the department from permit program sources under RCW 70A.15.2210(1), 70A.15.2260, 70A.15.2270, and 70A.15.2230(7) shall be deposited into the account. Expenditures from the account may be used only for the activities described in RCW 70A.15.2210(1), 70A.15.2260, 70A.15.2270, and 70A.15.2230(7). Moneys in the account may be spent only after appropriation.

**Sec.**  RCW 70A.65.260 and 2021 c 316 s 29 are each amended to read as follows:

(1) The climate commitment account is created in the state treasury. The account must receive moneys distributed to the account from the climate investment account created in RCW 70A.65.250. Moneys in the account may be spent only after appropriation. Projects, activities, and programs eligible for funding from the account must be physically located in Washington state and include, but are not limited to, the following:

(a) Implementing the working families tax rebate in RCW 82.08.0206;

(b) Supplementing the growth management planning and environmental review fund established in RCW 36.70A.490 for the purpose of making grants or loans to local governments for the purposes set forth in RCW 43.21C.240, 43.21C.031, 36.70A.500, and 36.70A.600, for costs associated with RCW 36.70A.610, and to cover costs associated with the adoption of optional elements of comprehensive plans consistent with RCW 43.21C.420;

(c) Programs, activities, or projects that reduce and mitigate impacts from greenhouse gases and copollutants in overburdened communities, including strengthening the air quality monitoring network to measure, track, and better understand air pollution levels and trends and to inform the analysis, monitoring, and pollution reduction measures required in RCW 70A.65.020;

(d) Programs, activities, or projects that deploy renewable energy resources, such as solar and wind power, and projects to deploy distributed generation, energy storage, demand-side technologies and strategies, and other grid modernization projects;

(e) Programs, activities, or projects that increase the energy efficiency or reduce greenhouse gas emissions of industrial facilities including, but not limited to, proposals to implement combined heat and power, district energy, or on-site renewables, such as solar and wind power, to upgrade the energy efficiency of existing equipment, to reduce process emissions, and to switch to less emissions intensive fuel sources;

(f) Programs, activities, or projects that achieve energy efficiency or emissions reductions in the agricultural sector including:

(i) Fertilizer management;

(ii) Soil management;

(iii) Bioenergy;

(iv) Biofuels;

(v) Grants, rebates, and other financial incentives for agricultural harvesting equipment, heavy-duty trucks, agricultural pump engines, tractors, and other equipment used in agricultural operations;

(vi) Grants, loans, or any financial incentives to food processors to implement projects that reduce greenhouse gas emissions;

(vii) Renewable energy projects;

(viii) Farmworker housing weatherization programs;

(ix) Dairy digester research and development;

(x) Alternative manure management; and

(xi) Eligible fund uses under RCW 89.08.615;

(g) Programs, activities, or projects that increase energy efficiency in new and existing buildings, or that promote low carbon architecture, including use of newly emerging alternative building materials that result in a lower carbon footprint in the built environment over the life cycle of the building and component building materials;

(h) Programs, activities, or projects that promote the electrification and decarbonization of new and existing buildings, including residential, commercial, and industrial buildings;

(i) Programs, activities, or projects that improve energy efficiency, including district energy, and investments in market transformation of high efficiency electric appliances and equipment for space and water heating;

(j) Clean energy transition and assistance programs, activities, or projects that assist affected workers or people with lower incomes during the transition to a clean energy economy, or grow and expand clean manufacturing capacity in communities across Washington state including, but not limited to:

(i) Programs, activities, or projects that directly improve energy affordability and reduce the energy burden of people with lower incomes, as well as the higher transportation fuel burden of rural residents, such as bill assistance, energy efficiency, and weatherization programs;

(ii) Community renewable energy projects that allow qualifying participants to own or receive the benefits of those projects at reduced or no cost;

(iii) Programs, activities, or other worker-support projects for bargaining unit and nonsupervisory fossil fuel workers who are affected by the transition away from fossil fuels to a clean energy economy. Worker support may include, but is not limited to: (A) Full wage replacement, health benefits, and pension contributions for every worker within five years of retirement; (B) full wage replacement, health benefits, and pension contributions for every worker with at least one year of service for each year of service up to five years of service; (C) wage insurance for up to five years for workers reemployed who have more than five years of service; (D) up to two years of retraining costs, including tuition and related costs, based on in-state community and technical college costs; (E) peer counseling services during transition; (F) employment placement services, prioritizing employment in the clean energy sector; and (G) relocation expenses;

(iv) Direct investment in workforce development, via technical education, community college, institutions of higher education, apprenticeships, and other programs including, but not limited to:

(A) Initiatives to develop a forest health workforce established under RCW 76.04.521; and

(B) Initiatives to develop new education programs, emerging fields, or jobs pertaining to the clean energy economy;

(v) Transportation, municipal service delivery, and technology investments that increase a community's capacity for clean manufacturing, with an emphasis on communities in greatest need of job creation and economic development and potential for commute reduction;

(k) Programs, activities, or projects that reduce emissions from landfills and waste-to-energy facilities through diversion of organic materials, methane capture or conversion strategies, ((~~or other means~~)) installation of gas collection devices and gas control systems, monitoring and reporting of methane emissions, or other means, prioritizing funding needed for any activities by local governments to comply with chapter 70A.--- RCW (the new chapter created in section 18 of this act);

(l) Carbon dioxide removal projects, programs, and activities; and

(m) Activities to support efforts to mitigate and adapt to the effects of climate change affecting Indian tribes, including capital investments in support of the relocation of Indian tribes located in areas at heightened risk due to anticipated sea level rise, flooding, or other disturbances caused by climate change. The legislature intends to dedicate at least $50,000,000 per biennium from the account for purposes of this subsection.

(2) Moneys in the account may not be used for projects or activities that would violate tribal treaty rights or result in significant long-term damage to critical habitat or ecological functions. Investments from this account must result in long-term environmental benefits and increased resilience to the impacts of climate change.

NEW SECTION. **Sec.**  Sections 1 through 13 of this act constitute a new chapter in Title 70A RCW.

NEW SECTION. **Sec.**  If any provision of this act or its application to any person or circumstance is held invalid, the remainder of the act or the application of the provision to other persons or circumstances is not affected.

**--- END ---**

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