

FINAL REGULATION ORDER

Airborne Toxic Control Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, and Facilities Where TRUs Operate

Amend article 8, Off-Road Airborne Toxic Control Measures section 2477 and adopt sections 2477.1, 2477.2, 2477.3, 2477.4, 2477.5, 2477.6, 2477.7, 2477.8, 2477.9, 2477.10, 2477.11, 2477.12, 2477.13, 2477.14, 2477.15, 2477.16, 2477.17, 2477.18, 2477.19, 2477.20, and 2477.21, within division 3, chapter 9, title 13, California Code of Regulations, to read as follows:

Note: Proposed amendments are shown in underline to indicate additions and ~~strikeout~~ to indicate deletions.

Article 8. Off-Road Airborne Toxic Control Measures

Section 2477. Airborne Toxic Control Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, and Facilities Where TRUs Operate.

~~(a)~~2477.1 Purpose.

Diesel particulate matter (PM) was identified in 1998 as a toxic air contaminant. This regulation implements provisions of the Diesel Risk Reduction Plan, adopted by the Air Resources Board in October, 2000, as mandated by the Health and Safety Code Sections 39650-39675, to reduce emissions of substances that have been determined to be toxic air contaminants. Specifically, this regulation ~~will~~ uses a phased approach to reduce the diesel PM emissions from in-use transport refrigeration units (TRUs) and TRU generator (gen) set equipment used to power electrically driven refrigerated shipping containers and trailers that are operated in California.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

~~(b)~~2477.2 Applicability.

~~(1)~~(a) Owners and operators: Except as provided in subsection ~~(c)~~2477.3, section 2477.5 of this regulation applies to owners and operators of diesel-fueled TRUs and TRU gen sets (see definition of operator and owner in subsection ~~(d)~~2477.4 that operate in the ~~s~~State of California, regardless of where the vehicle is based. This specifically includes California-based and non-California-based TRUs and TRU gen sets that are installed on trucks, trailers, shipping containers, and railcars.

~~(A) Operators and owners of California-based TRUs and TRU gen sets that are installed on trucks, or trailers, shipping containers, or railcars; and~~

~~(B) Operators and owners of non-California-based TRUs and TRU gen sets that are installed on trucks, trailers, shipping containers, or trailers.~~

(b) Terminal operators: Section 2477.6 of this regulation applies to operators of terminals located in California where TRU-equipped trucks, trailers, or shipping containers, or TRU gen sets are regularly garaged, maintained, operated, or dispatched from, including a dispatch office, cross-doc facility, maintenance shop, business, or private residence.

(c) Drivers: Section 2477.7 applies to drivers (as defined in section 2477.4) that drive trucks or trailers that use TRUs or TRU gen sets on California highways.

(d) Freight brokers and freight forwarders: Section 2477.8 applies to freight brokers and freight forwarders (as defined in section 2477.4) that arrange, hire, tender contracts for, or dispatch the transport of perishable goods on California highways or railways in trucks, trailers, shipping containers, or railcars that are equipped with TRUs or TRU gen sets.

(e) Carriers: Section 2477.9 applies to motor carriers (as defined in section 2477.4) that use, cause to be used, or dispatch TRU-equipped trucks, trailers, or railcars, or trailer chassis or shipping containers with TRU gen sets that are driven on California highways or railways.

(f) California-based shippers: Section 2477.10 applies to California-based shippers (as defined in section 2477.4) that arrange, tender contracts for, or dispatch the transport of perishable goods from any location in California in TRU-equipped or TRU gen set-equipped trucks, trailers, shipping containers, or railcars.

(g) California-based receivers: Section 2477.11 applies to California-based receivers (as defined in section 2477.4) that arrange, tender contracts for, or dispatch the transport of perishable goods to any location in California in TRU-equipped or TRU gen set-equipped trucks, trailers, shipping containers, or railcars.

(h) Lessors and Lessees: Section 2477.12 applies to any person that rents or leases (lessor) TRUs or TRU gen sets and those persons renting (renter) or leasing (lessee) such equipment that is operated in California or that is based in California.

(i) TRU and TRU gen set original equipment manufacturers: Section 2477.13 applies to original equipment manufacturers (as defined in section 2477.4) that direct TRU or TRU gen set sales to the California market.

- (j) TRU, TRU gen set, and TRU-equipped truck and trailer dealers located in California: Section 2477.14 applies to TRU, TRU gen set, and TRU-equipped truck and trailer dealers that maintain a business location in California and sell, maintain, or repair new or in-use TRUs, TRU gen sets, or TRU-equipped trucks or trailers.
- (k) Repair shops located in California that work on TRUs or TRU gen sets: Section 2477.15 applies to repair shops that maintain a business located in California and install replacement engines in TRUs or TRU gen sets, or retrofit TRUs or TRU gen sets with verified diesel emissions control strategies to comply with this subarticle.
- (l) Engine rebuilders: Section 2477.16 applies to TRU or TRU gen set engine rebuilders that sell to the California market.
- ~~(2)(m)~~ Facilities: Section 2477.17 This regulation applies to facilities located in California with 20 or more loading dock doors spaces serving refrigerated areas where perishable goods are loaded or unloaded for distribution on trucks, trailers, shipping containers, or rail cars that are equipped with TRUs and TRU gen sets and that are owned, leased, or contracted for by the facility, its parent company, affiliate, or subsidiary that are under facility control (see definition).
- ~~(3)(n)~~ To the extent not already covered under subsections ~~(b)(1) and (b)(2)~~ (a) through (m), above, ~~subsection (g)~~ 2477.18 of this regulation shall apply to any person engaged in this State in the business of selling to an ultimate purchaser, or renting or leasing new or used TRUs or TRU gen sets, including, but not limited to, manufacturers, distributors, and dealers, auctioneers, carriers, private fleets, independent owner-operators, and rental and leasing companies.
- (o) For purposes of this subarticle, the terms “lease,” “leased,” “lessor,” and “lessee” mean the same as “rental agreement,” “rented,” “owner of rented vehicle,” and “renter,” respectively.
- ~~(4) TRU and TRU gen set original equipment manufacturers that directly or indirectly sell or offer for sale TRUs and TRU gen sets to the California market.~~
- ~~(5) Severability. If any subsection, paragraph, subparagraph, sentence, clause, phrase, or portion of this regulations is, for any reason, held invalid, unconstitutional, or unenforceable by any court of competent jurisdiction, such portion shall be deemed as a separate, distinct, and independent provision, and such holding shall not affect the validity of the remaining portions of the regulation.~~

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

(e)2477.3 Exemptions.

(a) This regulation does not apply to military tactical support equipment.

(b) Obviously non-operational TRUs or TRU gen sets are exempt from certain sections of this subarticle, as specified below, except that the prohibitions in section 2477.18 apply with respect to selling, renting, or leasing to a person that could be reasonably expected to operate the TRU in California:

(1) Any TRU that is removed or separated from the truck or trailer van, shipping container, or rail car. This exemption does not include TRU gen sets that are not attached to a shipping container or trailer chassis.

(2) Any trailer TRU housing that remains attached to a trailer van, but the fuel tank and battery have been removed and a label with the word “NONOPERATIONAL” has been affixed or attached to the housing in letters that contrast sharply with the color of the TRU housing and can be seen from 50 feet during daylight hours when the vehicle is stationary.

(3) Any truck TRU housing that remains attached to a truck van, but the positive and negative battery cables, fuel supply and return lines, and condensate drain line have been removed so that there are no visible ancillary connections to the TRU housing and a label with the word “NONOPERATIONAL” has been affixed or attached to the housing in letters that contrast sharply with the color of the TRU housing and can be seen from 50 feet during daylight hours when the vehicle is stationary.

(4) Any TRU or TRU gen set that has no engine or fuel injection system installed, making the engine incapable of being started.

(5) TRU gen sets that have been quarantined in a designated area that is separated from other compliant TRU gen sets by a cordon or barrier with signs that read “NONCOMPLIANT – DO NOT OPERATE IN CALIFORNIA”. Bright red tags must be affixed to the TRU gen set control panel at all times while in California that read: “NONCOMPLIANT – DO NOT OPERATE IN CALIFORNIA”. TRU gen sets may be stored in a shipping container in lieu of being quarantined in a cordoned area.

(c) Transport refrigeration systems that are not driven by an integral diesel internal combustion engine are exempt from the requirements of this subarticle. Examples of exempt equipment include, but are not limited to:

(1) transport refrigeration systems that are driven by gasoline-fueled internal combustion engines;

(2) transport refrigeration systems that are driven by electric motors with no integral diesel engine providing power; or

(3) Pure cryogenic temperature control systems with no diesel engine driven refrigeration system integration.

(d) TRUs that are used during an emergency (as defined) are exempt from the in-use performance standards of section 2477.5(a) of this subarticle, provided the requirements of section 2477.5(j) are met. This exemption expires on January 1, 2025. California-based TRUs are not exempt from the ARBER registration requirements in section 2477.5(e).

(e) (1) Noncompliant TRUs on refrigerated railcars that are not operated while traveling through California shall be exempted provided the Executive Officer has previously approved a written compliance plan submitted by the railway carrier.

(2) The written compliance plan must clearly identify the monitoring, recordkeeping, and reporting procedures that the railway carrier will implement and utilize to ensure that noncompliant TRUs on refrigerated railcars will not operate while in California.

(3) The compliance plan shall establish monitoring, recordkeeping, and reporting procedural requirements that the Executive Officer finds are sufficient to identify non-compliant TRUs being moved on railways in California and to ensure that such TRUs will not operate at any time while they are present within California.

(A) The compliance plan must include, without limitation: the procedure for tracking and recording routes and dates of travel within California of each noncompliant TRU, information identifying each noncompliant TRU (e.g. the railway carrier's reporting mark followed by the one-to-six-digit number which together uniquely identifies the railcar), a description of the automated monitoring and recordkeeping system for reporting the TRU "engine on" or "engine off" status, and the procedure for expeditiously reporting violations observed and/or discovered by the railway carrier.

(B) A statement is required, signed by an authorized railroad representative, declaring that the railway carrier agrees to be bound by the compliance plan.

(4) Within 30 days of the submission of a complete compliance plan, the Executive Officer shall approve or disapprove the compliance plan based on the information submitted by a railway carrier as specified in sections 2477.3(e)(2) and (3) above, and based on good engineering judgment. If the compliance plan is disapproved, the Executive Officer shall inform the railway carrier of the reasons for the disapproval. The railway carrier may revise the compliance plan to address the basis for disapproval and resubmit the compliance plan for EO approval or disapproval.

(5) The railway carrier shall maintain records collected pursuant to the approved compliance plan for a period of at least three (3) years and make these records available to ARB upon request.

(f) Railway carriers are exempt from the owner or owner/operator requirements of section 2477.5 for any TRU or TRU gen set that is not owned by the railway carrier, provided:

(1) The TRU or TRU gen set is not leased by the railway carrier, in which case, section 2477.12 applies; or

(2) The railway carrier or its agent is only fueling, monitoring to assure proper operation, keeping in operation, arranging repairs at the request of the owner, or restarting the TRU or TRU gen set engine after an unscheduled shut-down or repair, and is not performing any of the other activities listed under the definition of "operate".

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

(d)2477.4 Definitions.

(a) For purposes of this regulation, the following definitions apply:

- (1) "Affiliate or Affiliation" refers to a relationship of direct or indirect control or shared interests between the subject business and another business.
- (2) "Alternative Fuel" means natural gas, propane, ethanol, methanol, or advanced technologies that do not rely on diesel fuel, except as a pilot ignition source at an average ratio of less than 1 part diesel fuel to 10 parts total fuel on an energy equivalent basis. Alternative fuels also means any of these fuels used in combination with each other or in combination with other non-diesel fuels. Alternative-fueled engines shall not have the capability of idling or operating solely on diesel fuel at any time.
- (3) "Alternative-Fueled Engine" means an engine that is fueled with a fuel meeting the definition of alternative fuel.
- (4) "Alternative Diesel Fuel" means any fuel used in diesel engines that is not commonly or commercially known, sold or represented as No. 1-D or No. 2-D, pursuant to the specification for Diesel Fuel Oils D975-81, and does not require engine or fuel system modifications for the engine to operate, although minor modifications (e.g. recalibration of the engine fuel control) may enhance performance. Examples of alternative diesel fuels include, but are

not limited to, biodiesel, Fischer Tropsch fuels, and emulsions of water in diesel fuel. Natural gas is not an alternative diesel fuel. An emission control strategy using a fuel additive will be treated as an alternative diesel fuel based strategy unless:

(A) The additive is supplied to the vehicle or engine fuel by an on-board dosing mechanism, or

(B) The additive is directly mixed into the base fuel inside the fuel tank of the vehicle or engine, or

(C) The additive and base fuel are not mixed until vehicle or engine fueling commences, and no more additive plus base fuel combination is mixed than required for a single fueling of a single engine or vehicle.

(5) "ARB" means the California Air Resources Board.

(6) "ARBER" means the ARB's Equipment Registration system.

~~(6)~~(7) "B100 Biodiesel Fuel" means 100% biodiesel fuel derived from vegetable oil or animal fat and complying with American Society for Testing Materials (ASTM) D 6751-02 and commonly or commercially known, sold, or represented as "neat" biodiesel or B100. B100 biodiesel fuel is an alternative diesel fuel.

~~(7)~~(8) "B100 Biodiesel-Fueled" (compression-ignition engine) means a compression-ignition engine that is fueled by B100 biodiesel fuel.

(9) "Broker" means a person, other than a motor carrier or an employee or agent of a motor carrier, that as a principal or agent sells, offers for sale, negotiates for, or holds itself out by solicitation, advertisement, or otherwise as selling, providing, or arranging for, transportation by motor carrier for compensation.

~~(8)~~(10) "Business" means an entity organized for profit including, but not limited to, an individual, sole proprietorship, partnership, limited liability partnership, corporation, limited liability company, joint venture, association or cooperative; or solely for purposes of the Prompt Payment Act (Government Code 927 et seq.), a duly authorized nonprofit corporation.

(11) "California-based shipper" means a shipper that operates a facility in California where wholesale freight is located prior to its transportation.

(12) "California-based receiver" means a receiver that operates a facility in California where wholesale freight is received.

- (9)(13) "California-Based TRUs and TRU Gen Sets" means TRUs and TRU gen sets equipped on trucks, trailers, shipping containers, or railcars that a reasonable person would find to be regularly assigned to terminals within California.
- (40)(14) "CARB Diesel Fuel" means any diesel fuel that is commonly or commercially known, sold or represented as diesel fuel No. 1-D or No. 2-D, pursuant to the specification for Diesel Fuel Oils D975-81 and meets the specifications defined in *13 CCR 2281, 13 CCR 2282, and 13 CCR 2284*.
- (41)(15) "Carbon Monoxide (CO)" means a colorless, odorless gas resulting from the incomplete combustion of hydrocarbon fuels.
- (42)(16) "Carrier" means ~~any person, party, or entity who undertakes the transport of goods from one point to another~~ "motor carrier".
- (43)(17) "Certification" means the obtaining of an Executive Order for a new off-road compression-ignition engine family that complies with the off-road compression-ignition emission standards and requirements specified in ~~the title 13 California Code of Regulations, Title 13, Section 2423~~. A "certified engine" is an engine that belongs to an engine family that has received a certification Executive Order.
- (44)(18) "Certification Data" means the ARB Executive Order number and related exhaust emission data for each test cycle mode used to certify the engine family and obtain the certification level shown in the certification Executive Order. Such data includes modal exhaust emissions data for nitrogen oxides, nonmethane hydrocarbons, carbon monoxide, and particulate matter includes, as a minimum, torque, engine speed, weighting factor, power, mass emission rate (grams per hour), and certification test fuel.
- (45)(19) "Compression Ignition (CI) Engine" means an internal combustion engine with operating characteristics significantly similar to the theoretical diesel combustion cycle. The regulation of power by controlling fuel supply in lieu of a throttle is indicative of a compression ignition engine.
- (46)(20) "Consignee" (see receiver).
- (47)(21) "Consignor" (see shipper).
- (48)(22) "Cryogenic Temperature Control System" means a heating and cooling system that uses a cryogen, such as liquid carbon dioxide or liquid nitrogen that is routed through an evaporator coil that cools air blown over the coil. The cryogenic system uses a vapor motor to drive a fan and alternator, and a propane-fired heater superheats the carbon dioxide for heating and defrosting. Electrically driven fans may be used instead of a vapor motor and

heating and defrost needs may be met by using electric heaters and/or vehicle engine coolant.

(23) “Delegation” means entrusting by contract another party to act on the owner’s behalf without forfeiture of any rights or property.

~~(19)~~(24)“Deterioration Factor (DF)” means a factor that is applied to the certification emission test data to represent emissions at the end of the useful life of the engine. Separate DFs apply to each measured pollutant, except that a combined NMHC+NOx DF applies to engines that do not use aftertreatment devices. Decreasing emissions over time would not be allowed to offset increasing emissions of the other pollutant in this combined DF.

~~(20)~~(25)“Diesel Fuel” means any fuel that is commonly or commercially known, sold, or represented as diesel fuel, including any mixture of primarily liquid hydrocarbons – organic compounds consisting exclusively of the elements carbon and hydrogen – that is sold or represented as suitable for use in an internal combustion, compression-ignition engine.

~~(21)~~(26)“Diesel-Fueled” means fueled by diesel fuel or CARB diesel fuel in whole or in part, except as allowed for a pilot ignition source under the definition for “alternative fuel”.

~~(22)~~(27)“Diesel Oxidation Catalyst (DOC)” means the use of a catalyst to promote the oxidation processes in diesel exhaust. Usually refers to an emission control device that includes a flow-through substrate where the surfaces that contact the exhaust flow have been catalyzed to reduce emissions of the organic fraction of diesel particulates, gas-phase hydrocarbons, and carbon monoxide.

~~(23)~~(28)“Diesel Particulate Filter (DPF)” means an emission control technology that reduces PM emissions by trapping the particles in a flow filter substrate. Periodically the collected particles are either physically removed or oxidized (burned off) in a process called regeneration.

~~(24)~~(29)“Diesel Particulate Matter” means the particles found in the exhaust of diesel-fueled CI engines. Diesel PM may agglomerate and adsorb other species to form structures of complex physical and chemical properties.

(30) “Dispatch” means to coordinate delivery, pickup, and drop-off schedules of vehicles; and monitor the delivery of freight from these vehicles.

(31) “Dispatched driver” means the driver of a truck or tractor-trailer combination that has been dispatched by a motor carrier, freight broker or forwarder, shipper, or receiver.

(32) “Driver” means a person who physically operates a truck or tractor. Drivers may also be an owner or an operator. Drivers are not railroad engineers.

~~(25)~~(33)“Dual-Fuel Engine” means an engine designed to operate on a combination of alternative fuel, such as compressed natural gas (CNG) or liquefied petroleum gas (LPG), and conventional fuel, such as diesel or gasoline. These engines have two separate fuel systems, which either inject both fuels simultaneously into the engine combustion chamber or fumigate the gaseous fuel with the intake air and inject the liquid fuel into the combustion chamber.

~~(26)~~(34)“Effective model year” or “effective engine model year” is an alternative model-year designation (see definition of “model year”) for a new replacement engine, rebuilt replacement engine, or flexibility engine when the engine does not meet, at the time of manufacture, the most stringent emission tier standard for a new engine in effect for the horsepower rating of the engine. When an engine is manufactured to meet a less stringent prior-tier emissions standard than is currently in effect, the effective model year is the last year that the prior-tier emission standard was in effect. Table 1 lists the tier standards that apply to TRUs and TRU gen sets and the corresponding effective model years.

**Table 1
Effective Model Year**

<i>Prior-Tier Engine Emissions Standard</i>	<i>Tier Standard Effective Years</i>	<i>Effective Model Year</i>
Tier 1, 25-50 Hp (trailer)	1999-2003	2003
Tier 1, under 25 Hp (truck)	2000-2004	2004
Tier 2, 25-50 Hp (trailer)	2004-2007	2007
Tier 2, under 25 Hp (truck)	2005-2007	2007
Tier 4i, 25-50 hp (trailer)	2008-2012	2012 ¹

(35) “Electric-Standby-Equipped TRU” means a TRU that is equipped with an integral diesel-fueled internal combustion engine and electric-powered motor and the refrigeration system may be driven by either the diesel-fueled internal combustion engine or the integral electric motor.

(36) “Electronic Tracking System” means a system that meets the following criteria:

¹ Effective model year applies for this tier only after Tier 4f becomes effective in 2013 for 25 to less than 50 hp engines.

- (A) The tracking device must acquire, at a minimum, date, time, TRU engine hour meter reading, and location data at a rate of at least one reading per minute, with no more than 10 minutes data gap.
- (B) The tracking device must be capable of determining if the TRU or TRU gen set location is within California and determining the TRU engine run time in California for each day.
- (C) The tracking records must be collected by an independent entity with no business relationship to the owner or operator of the TRU or TRU gen set being tracked, other than to provide the tracking service. The data shall be stored on a server that is secure from tampering and inaccessible to the TRU or TRU gen set owner or operator, other than to download reports over the Internet. An inspector shall have free access to download reports from this website over the Internet that show the TRU or TRU gen set engine operation in California for each day.

~~(27)~~(37) “Emergency” means any of the following times:

- (A) A failure or loss of normal power service that is not part of an “interruptible service contract” (see definition in ~~subsection (d)~~section 2477.4);
- (B) A failure of a facility’s internal power distribution system, provided the failure is beyond the reasonable control of the operator;
- (C) When an affected facility is placed under an involuntary “rotating outage” (see definition in ~~subsection (d)~~section 2477.4).
- (D) When the President of the United States or the Governor of the State of California declares a state of emergency related to any type of disaster where TRU-equipped trucks or trailers provide foodservice to incident responders, including but not limited to, forest fires and earthquakes.
- (E) When the National Interagency Fire Center dispatches mobile catering service businesses with TRU-equipped trucks or trailers to provide foodservice to incident responders located in California.

(38) “Emissions Control Group” has the same meaning as defined in title 13 CCR, section 2701

~~(28)~~(39) “Emission Control Strategy” means any device, system, or strategy employed with a diesel-fueled CI engine that is intended to reduce emissions. Examples of emission control strategies include, but are not limited to, particulate filters, diesel oxidation catalysts, selective catalytic reduction systems, alternative fuels, fuel additives used in combination with particulate filters, alternative diesel fuels, and combinations of the above.

~~(29)~~(40) “Emissions Rate” means the weight of a pollutant emitted per unit of time (e.g., grams per second).

~~(30)~~(41) “Executive Officer” means the Executive Officer of the California Air Resources Board or his or her delegate.

~~(31)~~(42)“Facility” means any facility where TRU-equipped trucks, trailers, shipping containers or railcars are loaded or unloaded with perishable goods. This includes, but is not limited to, grocery distribution centers, food service distribution centers, cold storage warehouses, and intermodal facilities. Each business entity at a commercial development is a separate facility for the purposes of this regulation, provided the businesses are “independently owned and operated” (see definition in ~~subsection (d)~~subsection 2477.4).

~~(32)~~(43)“Facility Control (of TRUs or TRU Gen Sets)” means the TRUs or TRU gen sets located at the facility are owned or leased by the facility, its parent company, affiliate, or a subsidiary, or under contract for the purpose of providing carrier service to the facility, and the TRUs' or TRU gen sets' arrival, departure, loading, unloading, shipping and/or receiving of cargo is determined by the facility, parent company, affiliate, or subsidiary (e.g. scheduled receiving, dispatched shipments).

~~(33)~~(44)“Fischer-Tropsch Diesel Fuel” See “ultra-low-aromatic synthetic diesel fuel”.

~~(34)~~(45)“Flexibility engine” means an engine installed in new equipment by an original equipment manufacturer under the Transitional Program for Equipment Manufacturers in accordance with title 40 Code of Federal Regulations (40 CFR) sections 89.102 and 1039.625, and title 13 CCR section 2423(d). Such engines shall use the “effective model year” designation for purposes of compliance with this subarticle, except as allowed under ~~subsection (e)(1)(B)~~section 2477.5(b)(5)(A).

(46) “Freight Broker” means “broker”, as defined herein.

(47) “Freight Forwarder” means a person holding itself out to the general public (other than as a pipeline, rail, motor, or water carrier) to provide transportation of property for compensation and in the ordinary course of its business does the following:

(A) Assembles and consolidates, or provides for assembling and consolidating, shipments and performs or provides for break-bulk and distribution operations of the shipments;

(B) Assumes responsibility for the transportation from the place of receipt to the place of destination; and

(C) Uses for any part of the transportation a motor carrier or rail carrier.

~~(35)~~(48)“Fuel Additive” means any substance designed to be added to fuel or fuel systems or other engine-related engine systems such that it is present in-cylinder during combustion and has any of the following effects: decreased emissions, improved fuel economy, increased performance of the engine; or assists diesel emission control strategies in decreasing emissions, or improving fuel economy or increasing performance of the engine.

~~(36)~~(49)"Generator Set (gen set)" means a CI engine coupled to a generator used as a source of electricity.

(50) "Highway" has the same meaning as defined in California Vehicle Code section 360.

(51) "Hybrid electric TRU" means a TRU that is powered by an integral diesel-fueled internal combustion engine coupled to an electric generator that provides electric power to an electric motor-driven refrigeration system and fans within the same housing and is designed to control the environment of temperature sensitive products that are transported in trucks and refrigerated trailers. Hybrid electric TRUs may be capable of both cooling and heating.

~~(37)~~(52)"Hybrid Cryogenic Temperature Control System" means a temperature control system that uses a cryogenic temperature control system in conjunction with a conventional TRU.

~~(38)~~(53)"Independently Owned and Operated" means a business concern that independently manages and controls the day-to-day operations of its own business through its ownership and management, without undue influence by an outside entity or person that may have an ownership and/or financial interest in the management responsibilities of the applicant business or small business.

~~(39)~~(54)"Intermodal Facility" means a facility involved in the movement of goods in one and the same loading unit or vehicle which uses successively several modes of transport without handling of the goods themselves in changing modes. Such a facility is typically involved in loading and unloading refrigerated shipping containers and trailers to and from railcars, trucks, and ocean-going ships.

~~(40)~~(55)"Interruptible Service Contract" means any arrangement in which a nonresidential electrical customer agrees to reduce or consider reducing its electrical consumption during periods of peak demand or at the request of the System Operator in exchange for compensation, or assurances not to be blacked out or other similar non-monetary assurances.

~~(41)~~(56)"In-Use TRU, TRU gen set, or engine" means a TRU, TRU gen set, or engine that is not a "new" TRU, TRU gen set, or engine.

~~(42)~~(57)"Low Emission TRU (LETRU or L)" means a TRU or TRU gen set that meets the performance standards described under ~~paragraph (e)(1)(A)1. or~~ (e)(1)(A)2. section 2477.5(a)(1) and (2).

~~(43)~~(58)"Manufacturer" means a business as defined in Government Code § 14837(c).

~~(44)~~(59) “Military tactical support equipment (TSE)” means equipment that meets military specifications, owned by the U.S. Department of Defense and/or the U.S. military services, and used in combat, combat support, combat service support, tactical or relief operations, or training for such operations.

~~(45)~~(60) “Model Year (MY)” means the following:

- (A) The designation used for engines manufactured to meet the emissions tier standard in effect for new engines at time of manufacture (see alternative designation, “effective model year, defined above); and
- (B) The diesel-fueled engine manufacturer’s annual production period, which includes January 1st of a calendar year, or if the manufacturer has no annual production period, the calendar year.

(61) “Motor Carrier” means a person providing motor vehicle transportation for compensation.

~~(46)~~(62) “New TRU, TRU Gen Set, or Engine” means any TRU, TRU gen set, or engine that has never been subject to a retail sale or lease to an “ultimate purchaser” (see definition in ~~sub~~section 2477.4).

~~(47)~~(63) “Nitrogen Oxide (NO_x)” means compounds of nitric oxide (NO), nitrogen dioxide (NO₂), and other oxides of nitrogen. Nitrogen oxides are typically created during combustion processes and are major contributors to smog formation and acid deposition.

~~(48)~~(64) “Non-California-Based TRUs and TRU Gen Sets” means TRUs and TRU gen sets that are equipped on or used in trucks, trailers, shipping containers, or railcars that a reasonable person would find to be regularly assigned to terminals outside of California and operate in California from time to time for the purpose of transporting perishable goods into or out of the state.

~~(49)~~(65) “Non-methane Hydrocarbons (NMHC)” means the sum of all hydrocarbon air pollutants except methane. NMHCs are precursors to ozone formation.

(66) “Nonretail Delivery or Pick-up Point” means wholesale perishable goods distribution facilities or businesses in the supply chain prior to retail facilities or businesses. This includes, but is not limited to, food manufacturing facilities, shipper warehouses, transfer points, distribution centers, cold storage warehouses, and intermodal facilities where perishable goods are loaded or unloaded.

~~(50)~~(67) “Operate” means to start, cause to function, program the temperature controller, select an operating program or otherwise control, fuel, monitor to assure proper operation, or keep in operation. A TRU that is operational (e.g. capable of being operated) shall be considered to operate if it is in California.

~~(54)~~(68) “Operator” means any person (as defined), party or entity that operates a TRU or TRU gen set for the purposes of transporting perishable goods, excluding an employee driver and third party maintenance and repair service, and including but not limited to a: ~~(A) — M~~manufacturer, producer, supplier, carrier, shipper, consignor, consignee, receiver, distribution center, or warehouse of perishable goods; An operator may also be the driver if it is also the owner (e.g. independent owner-operator).
~~(B) An individual, trust, firm, joint stock company, business concern, partnership, limited liability company, association, or corporation including but not limited to, a government corporation;~~
~~(C) Any city, county, district, commission, the state or any department, agency, or political subdivision thereof, any interstate body, and the federal government or any department or agency thereof to the extent permitted by law.~~

(69) “Original equipment manufacturer (OEM)” means any person that originally manufactured new equipment for sale in commerce. This does not include a dealer who receives new equipment for sale in commerce.

~~(52)~~(70) “Owner” means any person that legally holds the title (or its equivalent) showing ownership of a TRU or TRU gen set, excluding a bank or other financial lending institution, and including but not limited to:

~~(A) Manufacturer, producer, supplier, carrier, shipper, consignor, consignee, receiver, distribution center, warehouse;~~

~~(B) An individual, trust, firm, joint stock company, business concern, partnership, limited liability company, association, or corporation including but not limited to, a government corporation;~~

~~(C) Any city, county, district, commission, the state or any department, agency, or political subdivision thereof, any interstate body, and the federal government or any department or agency thereof to the extent permitted by law.~~

means, except as modified by paragraphs (A) or (B) below, the person legally holding title (or its equivalent) to the TRU or TRU gen set, or either the person (see definition) registered as the owner or lessee of a vehicle by the California Department of Motor Vehicles or its equivalent in another state, province, or country, as evidenced on the vehicle registration document carried in the vehicle to which the TRU is attached, unless such person, can clearly demonstrate, with

written documentation, that another person (e.g., a lessee) is financially responsible for the maintenance of the TRU or TRU gen set, including responsibility for installing and maintaining the emissions control technologies on the TRU or TRU gen set, and registering the TRU with the California Air Resources Board's Equipment Registration (ARB ER) system, as required by this subarticle. An owner may also be a driver or operator.

(A) Banks, other financial lending institutions, or other entities engaged in the act of financing TRUs are not owners, for the purposes of this subarticle unless they otherwise have an obligation to comply with this regulation (e.g., contractually responsible for the maintenance of a TRU under a sales or lease agreement).

(B) For a TRU-equipped truck or trailer, or TRU gen set owned by the federal government and not registered in any state or local jurisdiction, the owner means the department, agency, branch, or other entity of the United States, including the United States Postal Service, to which the vehicles in the fleet are assigned or which have responsibility for maintenance of the vehicles.

~~(53)~~(71) "Owner/Operator" means a requirement applies to the owner and/or operator of a TRU or TRU gen set, as determined by agreement or contract between the parties if the two are separate business entities.

~~(54)~~(72) "Parent Company" means a company that has a controlling interest in another company, usually through ownership of more than one-half the voting stock.

~~(55)~~(73) "Particulate Matter (PM)" means the particles found in the exhaust of CI engines, which may agglomerate and adsorb other species to form structures of complex physical and chemical properties.

(74) "Person" means an individual, corporation, business trust, estate, trust, partnership, limited liability company, association, joint venture, government, governmental subdivision, agency, or instrumentality, public corporation, or any other legal or commercial entity.

(75) Prior-Tier Replacement Engine" means a new replacement engine manufactured under title 40 CFR, section 89.1003 and 1068.240, and title 13 CCR, section 2423(j), as those sections existed on August 31, 2012, that meets a prior tier of the new engine emissions standards than the tier of standards currently in effect at the time of manufacture.

(76) "Rail Carrier" means a person providing common carrier railroad transportation for compensation, but does not include street, suburban, or interurban electric railways not operated as part of the general system of rail transportation

- ~~(56)~~(77) “Rated Brake Horsepower” means the power delivered, according to the statement of the engine manufacturer, at the rated speed.
- ~~(57)~~(78) “Real Emission Reductions” means that an action is taken that results in reductions in the PM emission rate of an in-use engine (e.g. a VDECS is installed that reduced the PM emissions rate by more than 50%).
- ~~(58)~~(79) “Receiver” means the person, ~~party, or entity~~ that receives shipped goods, cargo, or commodities.
- ~~(59)~~(80) “Refrigerated Trailer” means a trailer van, railcar, or shipping container equipped with a TRU or TRU gen set. Pursuant to Health and Safety Code section 39618, refrigerated trailers are mobile sources and shall be regulated by the ARB on a statewide basis.
- (81) “Repower” means to replace an existing engine in a vehicle or piece of equipment with another engine that is within the same category as the original engine and that is certified to emissions standards that are more stringent than the emission standards of the original engine (e.g. replacing a Tier 1 engine with a Tier 2 or later engine).
- (82) “Retail Delivery Point” means facilities or businesses where perishable goods are delivered to retail businesses that sell these goods to end users. This includes, but is not limited to, grocery stores, convenience stores, drug stores, restaurants, and prison or school cafeterias.
- ~~(60)~~(83) “Rotating Outage” means a controlled involuntary curtailment of electrical power service to consumers as ordered by the system operator - see definition in subsection ~~(d)~~2477.4.
- (84) “Semitrailer” means a “Semitrailer” as defined in section 550 of the California Vehicle Code.
- ~~(64)~~(85) “Shipper” means the person, party, or entity who usually owns or supplies the commodities shipped/transported by a carrier, or that has possession of freight prior to its transportation. This may include, but is not limited to, food manufacturers, processors, packing plants, temporary cold storage facilities, and distribution centers.
- ~~(62)~~(86) “System Operator” means one of the several organizations that control energy in California. System operators include, but are not limited to, the California Independent System Operator, the Los Angeles Department of Water and Power, the Imperial Irrigation District, the Sacramento Municipal Utility District.

~~(63)~~(87) "Terminal" means any place where a TRU or TRU gen set equipped truck, trailer, shipping container, railcar or TRU gen set is regularly garaged, maintained, operated, or dispatched from, including a dispatch office, cross-dock facility, maintenance shop, business, or private residence.

(88) "Terminal Operator" means the person that owns a terminal.

~~(64)~~(89) "Tier 4 Nonroad/Off-road Emission Standards" means the emission standards and associated procedures promulgated by U.S. Environmental Protection Agency in "Control of Emissions of Air Pollution from Nonroad Diesel Engines and Fuel; Final Rule" (Vol. 69, No. 124 Fed.Reg. pp. 38957-39273 (June 29, 2004)).

(90) "Third Party Agreement Confirmation Information" means the information used to notify ARB that responsibility for registering a TRU in ARBER has been delegated to the lessee or to a consultant.

~~(65)~~(91) "Transport Refrigeration Unit (TRU)" means refrigeration systems powered by integral internal combustion engines designed to control the environment of temperature sensitive products that are transported in trucks and refrigerated trailers. TRUs may be capable of both cooling and heating.

(92) "Trailer" means a semitrailer.

~~(66)~~(93) "TRU Generator Set (TRU gen set)" means a generator set that is designed and used to provide electric power to electrically driven refrigeration units of any kind. This includes, but is not limited to gen sets that provide electricity to electrically powered refrigeration systems for semi-trailer vans and shipping containers.

~~(67)~~(94) "Ultimate Purchaser" means with respect to a new TRU, TRU gen set, or engine, the first person who in good faith purchases a new TRU, TRU gen set, or engine for purposes other than resale.

~~(68)~~(95) "Ultra-Low-Aromatic Synthetic Diesel Fuel" means fuel produced from natural gas, coal, or biomass by the Fischer-Tropsch gas-to-liquid chemical conversion process, or similar process that meets the following properties:

Table 2

<i>Property</i>	<i>ASTM</i>	<i>Value</i>
Sulfur Content (ppmw)	D5453-93	<1
Total Aromatic Content (wt %)	D5186-96	<1.5%
Polynuclear Aromatic Content (wt %)	D5186-96	<0.5%
Natural Cetane Number	D613-84	>74

~~(69)~~(96) “Ultra-Low Emission TRU (ULETRU or U)” means a TRU or TRU gen set that meets the performance standards described under subparagraphs ~~(e)(1)(A)1-~~2477.5(a)(1) and ~~(e)(1)(A)2-~~2477.5(a)(2) or that uses an “alternative technology” in accordance with subparagraph ~~(e)(1)(A)3-~~2477.5(a)(3).

~~(70)~~(97) “Verification Classification Level” means the classification assigned to a Diesel Emission Control Strategy by the Executive Officer as defined in the *Verification Procedure, Warranty and In-Use Compliance Requirements for In-Use Strategies to Control Emission from Diesel Engines (13 CCR Sections 2700-2710)*. PM reductions correspond as follows: Level 1: ≥25%; Level 2: ≥50%; Level 3: ≥85% or 0.01 g/hp-hr.

~~(71)~~(98) “Verified Diesel Emission Control Strategy” (VDECS) means an emission control strategy designed primarily for the reduction of diesel particulate matter emissions that has been verified per the *Verification Procedure, Warranty and In-Use Compliance Requirements for In-Use Strategies to Control Emissions from Diesel Engines (13 CCR Sections 2700-2710)*. Examples of diesel retrofit systems that may be verified include, but are not limited to, diesel particulate filters, diesel oxidation catalysts, fuel additives (e.g. fuel-borne catalysts), alternative fuels (e.g. dual fuel), alternative diesel fuels, and combinations of the above.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

~~(e)~~2477.5 **Requirements for Owners or Owner/Operators.**

~~(1)~~ **In-Use Operation:**

~~(A)~~(a) **In-Use Performance Standards:** In accordance with the schedule set forth below in paragraph ~~(e)~~(1)(B), no owner or owner/operator shall operate a TRU or TRU gen set in California unless it meets the in-use emission category performance standards set forth below.

~~4.~~(1) In-Use performance standard categories for TRU and TRU gen set engines with rated brake horsepower less than 25 horsepower (<25 hp) are shown in Table 3, along with the engine certification standards or the level of Verified Diesel Emission Control Strategy (VDECS) (see definition) that is necessary to qualify for each category.

**Table 3
<25 HP TRU and TRU Gen Set In-Use PM Performance Standards**

<i>In-Use Emission Category</i>	<i>Engine Certification (g/hp-hr)</i>	<i>Level of VDECS Equipped with</i>
Low Emission TRU (LETRU or L)	0.30 ²	Level 2
Ultra-Low Emission TRU (ULETRU or U)	NA ³	Level 3

a.(A) Compliance with the in-use performance standards can be achieved by:

1.1. Using a certified engine meeting the applicable nonroad/off-road emissions standards for all regulated pollutants and the in-use PM performance standard. Only engines for which certification data and deterioration factors have been provided to ARB shall be considered when determining compliance. The Executive Officer will consider such submittals, publish, and make available a list of qualifying engines.

1.2. Equipping the engine with the required Level of VDECS.

2.(2) In-Use performance standard categories for TRU and TRU gen set engines with rated brake horsepower greater than or equal to 25 horsepower (≥25 hp) are shown in Table 4, along with the engine certification standards or the level of VDECS that is necessary to qualify for each category.

**Table 4
≥25 HP TRU and TRU Gen Set In-Use PM Performance Standards**

<i>In-Use Emission Category</i>	<i>Engine Certification (g/hp-hr)</i>	<i>Level of VDECS Equipped with</i>
Low Emission TRU (LETRU or L)	0.22 ⁴	Level 2
Ultra-Low Emission TRU (ULETRU or U)	0.02 ⁵	Level 3

² The Engine Certification value for the Low Emission TRU category corresponds to the "Interim" Tier 4 Nonroad/Off-road Emission Standards that are to go into effect in 2008.

³ Not Applicable – must choose another compliance option.

⁴ The Engine Certification value for Low Emission TRU category corresponds to the "Interim" Tier 4 Nonroad/Off-road Emission Standards that are to go into effect in 2008.

⁵ The Engine Certification value for the Ultra-Low Emission TRU category corresponds to the Tier 4 "final" Nonroad/Off-road Emission Standards that will go into effect in 2012 or 2013.

a-(A) Compliance with the in-use performance standards can be achieved by:

~~1.1.~~ Using a certified engine meeting the applicable nonroad/off-road emissions standards for all regulated pollutants and the in-use PM performance standard. Only engines for which certification data and deterioration factors have been provided to ARB shall be considered when determining compliance. The Executive Officer will consider such submittals, publish, and make available a list of qualifying engines.

~~1.2.~~ Equipping the engine with the required Level of VDECS.

~~3.(3)~~ As an alternative to meeting the ULETRU in-use performance standards in subsections ~~2477.5(ea)(1)(A)1.~~ and ~~(2).~~, an owner/operator may operate a TRU or TRU gen set in California meeting one of the *Alternative Technology* options listed below. Alternative Technologies qualify to meet the ULETRU in-use performance standard only if the TRU or TRU gen set is operated under the conditions included in the description listed below.

a-(A) Hybrid Electric TRU or ~~E~~electric standby-equipped TRU may qualify as an Alternative Technology, provided the following conditions are met:

1. ~~that t~~The TRU is not operated shall not operate under diesel engine power while at a nonretail facility, except during:
 - a. An emergency (as defined);
 - b. Normal ingress, egress, and yard maneuvering, limited to 5 minutes per movement inside the facility fenceline or property boundary; or
 - c. Unit/engine pre-trip inspections, troubleshooting diagnostics, and post-repair check-out (however, this exception does not apply to the initial van chill-down before loading);
2. The facility or facilities that a TRU is normally based or frequents to load or unload perishable goods shall be equipped with electric power plugs located in the parking areas and loading spaces and the TRU shall be plugged into these power plugs during initial chill-down and whenever the refrigerated van or container contains perishable products;
3. All nonretail delivery and pick-up points (as defined) that the E/S-equipped TRU frequents to load or unload goods shall be equipped with electric power plugs if the van load includes perishable goods. Electric power plugs shall be located in the parking areas and loading spaces and the TRU shall be plugged into these power plugs during initial chill-down and whenever the refrigerated van or container contain perishable goods and may need to operate;

4. The TRU engine run time at retail delivery points (as defined) shall not exceed 30 minutes, otherwise electric power plugs are also required at those retail delivery points and must be used to prevent engine operations that exceed 30 minutes at the delivery point;
5. The TRU shall be equipped with non-resettable engine hour meters and electric power use hour meters;
6. At least 50 percent of an owner's hybrid electric or electric standby-equipped TRUs shall be equipped with an electronic tracking systems by December 31, 2012, and 100 percent of an owner's hybrid electric or electric standby-equipped TRUs shall be equipped with electronic tracking systems by December 31, 2013; and
7. The TRU shall be registered in ARBER in accordance with section 2477.5(e).

- b.(B) ~~Cryogenic temperature control systems or h~~Hybrid cryogenic temperature control systems may qualify as an Alternative Technology, provided the following conditions are met:
1. ~~that~~The TRU does not operate under diesel engine power while at a nonretail facility, except during:
 - a. An emergency;
 - b. Normal ingress and egress yard maneuvering; or
 - c. Unit/engine pre-trip inspections, diagnostics, and repair operations;
 2. The TRU engine run time at retail delivery points (as defined) shall not exceed 30 minutes, otherwise purely cryogenic temperature control shall be used at those retail delivery points to prevent engine operations that exceed 30 minutes at the delivery point;
 3. The TRU shall be equipped with non-resettable engine hour meter and cryogenic system use hour meter;
 4. The TRU shall be equipped with an electronic tracking system;
and
 5. The TRU shall be registered in ARBER in accordance with section 2477.5(e).

- e.(C) Alternative-fueled engines (see definition in ~~subsection (d)~~2477.4). If the engine is a CI engine, a VDECS is required.

Note: If the engine is not a compression ignition diesel fueled engine, this regulation would not apply, but the engine may have to meet other emission standards (e.g. large spark-ignited engine standards if >25 hp).

- d.~~(D)~~ Fuel exclusively with an alternative diesel fuel (see definition in subsection ~~(d)~~2477.4) that has been verified as a VDECS, provided it is used in accordance with the requirements of subsection 2477.5(eh)(21)(A) and the alternative diesel fuel contains no conventional diesel or CARB diesel fuel, except in trace amounts.
- e.~~(E)~~ Power by fuel cells. If a reformer is used with diesel fuel as the source of hydrocarbons, then emissions must be evaluated and verified through the *Verification Procedure Warranty and In-Use Compliance Requirements for In-Use Strategies to Control Emissions from Diesel Engines* (13CCR section 2700 – 2710).
- f.~~(F)~~ Equip with any other system approved by the Executive Officer to not emit diesel PM or increase public health risk while at a facility.

~~(B)(b)~~ In-Use Compliance Dates: In-use compliance dates are based upon the engine MY model year or effective MY model year (as defined in section 2477.4, as listed below, except as allowed in under subparagraphs ~~(e)(1)(B)~~5.a-2477.5(b)(5)(A) and (C)^{6,7}. Compliance dates may also be extended if the requirements of subparagraphs 2477.5(f), (g), (k), (l) or (m) are met.

- 1.~~(1)~~ No owner or owner/operator shall operate a 2001 and older model year (MY) TRU or TRU gen set engine in California unless it meets the in-use performance criteria set forth in ~~paragraph (e)(1)(A)~~ section 2477.5(a) for
 - a.~~(A)~~ LETRU on or before December 31, 2008, and
 - b.~~(B)~~ ULETRU on or before December 31, 2015, as shown in Tables 5 and 6.
- 2.~~(2)~~ No owner or owner/operator shall operate a 2002 MY TRU or TRU gen set engine in California unless it meets the in-use performance criteria set forth in ~~paragraph (e)(1)(A)~~ section 2477.5(a) for
 - a.~~(A)~~ LETRU on or before December 31, 2009, and
 - b.~~(B)~~ ULETRU on or before December 31, 2016, as shown in Tables 5 and 6.
- 3.~~(3)~~ No owner or owner/operator shall operate a 2003 MY TRU or TRU gen set engine in California unless it meets the in-use performance criteria set forth in ~~subsection (e)(1)(A)~~2477.5(a) for

⁶ Further explanation is provided in section 2477.5(i).

⁷ Compliance dates may also be extended if the requirements of subparagraphs 2477.5(f), (g), (k), (l) or (m) are met.

a.(A) LETRU on or before December 31, 2010, and

b.(B) ULETRU on or before December 31, 2017, as shown in Tables 5 and 6.

4.(4) No owner or owner/operator shall operate a 2004 MY and subsequent MY TRU or TRU gen set engine in California unless it meets the in-use performance criteria set forth in ~~paragraph (e)(1)(A)~~ section 2477.5(a) for ULETRU on or before December 31st of the seventh year past the engine's model year, as shown in Tables 5⁸ and 6^{8,9}, with the following exception:

a.(A) Less than 25 hp model year 2004 engines shall meet the in-use performance criteria set forth in ~~paragraph (e)(1)(A)~~ section 2477.5 (a), shown in Table 5, for:

1. LETRU on or before December 31, 2011, and

2. ULETRU by December 31, 2018.

**Table 5: <25 HP TRU and TRU Gen Set Engines
In-Use Compliance Dates**

MY	In-Use Compliance Year ⁷⁹													
	'07	'08	'09	'10	'11	'12	'13	'14	'15	'16	'17	'18	'19	'20
'01 & Older		L	L	L	L	L	L	L	U	U	U	U	U	U
'02			L	L	L	L	L	L	L	U	U	U	U	U
'03				L	L	L	L	L	L	L	U	U	U	U
'04					L	L	L	L	L	L	L	U	U	U
'05 ^{8,10}						U	U	U	U	U	U	U	U	U
'06							U	U	U	U	U	U	U	U
'07								U	U	U	U	U	U	U
'08									U	U	U	U	U	U
'09										U	U	U	U	U
'10											U	U	U	U
'11												U	U	U
'12													U	U
'13 ⁸														U

⁶⁸ Model years 2013, and subsequent (not shown in tables 5 and 6), shall meet ULETRU by December 31st of the seventh year after the engine model year or effective model year, except as allowed under ~~(e)(1)(B)~~ section 2477.5(b)(5).

⁷⁹ Compliance date is December 31st of the compliance year shown. "MY" means model year. Black shaded areas are years with no in-use performance standard requirements since in-use compliance year precedes engine model year. Dark shaded areas without letter codes have no in-use performance standard requirements, pending in-use compliance date. "L" means must meet LETRU in-use performance standards. "U" means must meet ULETRU in-use performance standards.

^{8,10} TRUs and TRU gen sets with MY 2005 engines and subsequent MY engines shall be required to comply with ULETRU requirements by the end of the seventh year after the model year or effective model year, except as allowed under ~~subparagraph (e)(1)(B)~~ subsection 2477.5(b)(5)(A).

**Table 6: ≥25 HP TRU and TRU Gen Set Engines
In-Use Compliance Dates**

MY	In-Use Compliance Year ⁹¹¹													
	'07	'08	'09	'10	'11	'12	'13	'14	'15	'16	'17	'18	'19	'20
'01 & Older		L	L	L	L	L	L	L	U	U	U	U	U	U
'02			L	L	L	L	L	L	L	U	U	U	U	U
'03				L	L	L	L	L	L	L	U	U	U	U
'04 ¹⁰¹²					U	U	U	U	U	U	U	U	U	U
'05						U	U	U	U	U	U	U	U	U
'06							U	U	U	U	U	U	U	U
'07								U	U	U	U	U	U	U
'08									U	U	U	U	U	U
'09										U	U	U	U	U
'10											U	U	U	U
'11												U	U	U
'12													U	U
'13 ⁸														U

5.(5) Requirements for TRUs or TRU gen sets that are equipped with flexibility engines and operated in California.

a.(A) Flexibility engines installed in TRUs and TRU gen sets manufactured prior to March 7, 2011, and operated in California shall meet the in-use performance standards of ~~subsection (e)(1)(A)~~ section 2477.5(a) by December 31st of the seventh year after the TRU or TRU gen set engine's manufacture year instead of the effective model year provided the TRU or TRU gen set owner registers the flexibility engine equipped TRU or TRU gen set in ARBER in accordance with ~~subsection (e)(1)(E)~~ section 2477.5(e) by May 6, 2011.

b.(B) To allow TRU and TRU gen set owners to meet the registration requirements of ~~subparagraph (a)~~ subsection (A) above, the original equipment manufacturer shall by April 6, 2011:
 1. Provide the following unit and flexibility engine information to ARB in electronic format:

⁹¹¹ Compliance date is December 31st of the compliance year shown. "MY" means model year. Black shaded areas are years with no in-use performance standard requirements since in-use compliance year precedes engine model year. Dark shaded areas without letter codes have no in-use performance standard requirements, pending in-use compliance date. "L" means must meet LETRU in-use performance standards. "U" means must meet ULETRU in-use performance standards.

¹⁰¹² TRUs and TRU gen sets with MY 2004 engines and subsequent MY engines shall be required to comply with ULETRU requirements by the end of the seventh year after the model year or effective model year, except as allowed under ~~subparagraph (e)(1)(B)~~ section 2477.5(b)(5)(A). Tier 4 final standards go into effect in 2013 which would meet ULETRU in-use performance standards in the 25 to less than 50 hp category. If the engines installed by original equipment manufacturers do not meet ULETRU in 2013, then ~~subparagraph (e)(1)(A)~~ section 2477.5(b)(5)(C) applies.

- ia. TRU or TRU gen set manufacturer;
- ii. TRU or TRU model name;
- iii. TRU or TRU gen set serial number;
- iv. TRU manufacture date;
- v. Engine manufacturer;
- vi. Engine Family;
- vii. Engine manufacture year; and
- viii. Engine serial number;

- ii. Notify the TRU or TRU gen set owners in writing that:
 - ia. The unit they own is equipped with a flexibility or TPEM engine; and
 - ib. The owner must register the TRU or TRU gen set that is equipped with a flexibility engine in ARBER by May 6, 2011;

- iii. Provide directly or through its dealers instructions and assistance on registration in ARBER to all owners of TRUs and TRU gen sets equipped with flexibility engines that request such help, which shall include specific instructions and assistance that ensures that information entered in ARBER is consistent with what appears on the unit label and engine emissions label, including the model year.

e.(C) The following requirements shall apply to flexibility engines installed in TRUs and TRU gen sets manufactured after March 7, 2011, and operated in California:

- i. The owner of a TRU or TRU gen set that is operated in California shall comply with the in-use performance standards set forth in subsection (e)(1)(A) ~~2477.5(a)~~ by December 31st of the seventh year after the engine's effective model year.

- ii. The original equipment manufacturer shall provide ~~the following~~ a written disclosures to the ~~interested~~ ultimate purchaser of a TRU or TRU gen set that is equipped with a flexibility engine prior to its sale: in accordance with section 2477.13(a)(3).
 - i. ~~The TRU or TRU gen set has a flexibility engine that meets a less stringent emissions standard than was in effect at the time the flexibility engine was manufactured;~~
 - ii. ~~The effective model year of the flexibility engine;~~
 - iii. ~~If the owner registers the unit in ARBER, the owner must report the effective model year of the engine, not the model year of engine manufacture, and failure to do so may result in the owner being cited;~~

~~iv. If the TRU or TRU gen set is operated in California, the owner will be responsible at a future date for the engine meeting the ULETRU in-use standard based on the effective model year of the engine, in accordance with subsection (e)(1)(B)~~

(6) The manufacture year of the TRU unit may be used instead of the TRU engine model year to determine the TRU ATCM in-use performance standards that must be met and the related compliance dates; however, this exception only applies if the unit manufacture year shown on the TRU unit label is no more than one year later than the engine model year shown on the TRU engine emissions label. If the difference between the engine model year on the engine emissions label and the unit manufacture year is greater than one year, then the engine model year shall be used in accordance with subsections 2477.5(b)(1), (2), (3), and (4).

(A) If the owner complies with the TRU ATCM in-use performance standard by retrofitting with a VDECS, the engine model year shown on the engine emissions label shall be used to determine engine compatibility with the VDECS, in accordance with the Executive Order for that VDECS.

(B) If the owner of a TRU is required to apply for an ARB Identification Number (IDN), in accordance with section 2477.5(e), the engine model year that is shown on the engine emissions label shall be entered on the IDN application in the engine model year space.

~~(C)~~**(c) Replacements Due to VDECS Failures.**

~~1.~~(1) If a VDECS fails within its warranty period, the owner/operator of the TRU or TRU gen set must replace it with the same VDECS or a higher verification classification level, if available.

~~2.~~(2) If a VDECS fails outside its warranty period and a higher verification classification level VDECS is available, then the owner/operator of the TRU or TRU gen set shall upgrade to the highest level VDECS required under paragraphs ~~2477.5(ea)(1)(A)1.~~ and ~~2477.5(ea)(42)(A)2.~~ that is determined to be cost-effective by the Executive Officer.

~~(D)~~**(d) In-Use Recordkeeping and Reporting.** In-use recordkeeping and reporting shall be completed by the owner or operator in accordance with the requirements of subsection ~~(f)(1)~~ following:-

(1) An owner that is also an operator, shall complete and maintain the operator report in accordance with section 2477.6(a).

- (2) An owner that has elected to comply by using a verified alternative diesel fuel shall comply with the recordkeeping requirements in section 2477.5(h)(1).
- (3) An owner that has elected to comply by using a hybrid electric TRU or electric standby-equipped TRU must meet the following recordkeeping, and reporting requirements for each unit.

(A) Beginning November 14, 2012, manual recordkeeping is required for all such units until automated monitoring, recordkeeping, and reporting is required under the phased compliance schedule in subparagraph (B), below. Manual records shall include the following, for each TRU that is equipped with electric standby or hybrid electric:

1. ARB Identification Number of the unit, issued under section 2477.5(e);
2. Date;
3. Address of each stationary location lasting more than 5 minutes. This record may be a location code for each stationary location, provided the owner or operator also provides a cross-reference of location codes with the corresponding physical addresses;
4. Time of arrival and departure, and the elapsed time calculated from those readings to show the duration of the stationary position;
5. Engine hour meter readings taken at arrival and departure and the elapsed time calculated from those readings to show the TRU engine run time while the vehicle is at the stationary location; and
6. Electric shore power driven electric motor hour meter readings taken at arrival and departure and the elapsed time that electric shore power drove the refrigeration system while the vehicle is at the stationary location.

(B) Automated monitoring, recordkeeping, and reporting is required for at least 50 percent of an owner's TRUs by December 31, 2012 and 100 percent of an owners TRUs by December 31, 2013.

Automated monitoring, recordkeeping and reporting is required with an electronic tracking system (as defined in section 2477.4) and shall include data that includes the following for each stationary location lasting more than 5 minutes (300 seconds):

1. ARB Identification Number of the unit, issued under section 2477.5(e);
2. Date;

3. Address of each stationary location lasting more than 5 minutes (300 seconds). This record may be the GPS coordinates and a location code for each stationary location, provided the owner or operator also provides a cross-reference of location codes with the corresponding physical addresses;
4. Time of arrival and departure, and the elapsed time calculated from those readings to show the duration of the stationary position;
5. Engine hour meter readings taken at arrival and departure and the elapsed time calculated from those readings to show the TRU engine run time while the vehicle is at the stationary location;
6. Electric motor hour meter readings taken at arrival and departure and the elapsed time that electric shore power is powering the refrigeration system while the vehicle is at the stationary location; and
7. The electronic tracking system shall generate a report that lists all stationary locations lasting more than 5 minutes where the TRU engine operated for more than 30 minutes, resulting in a violation.

(C) Records shall be kept available for a minimum of three (3) years and shall be compiled and made available to ARB upon request.

(D) Record submittals shall include the owner's or responsible official's signature after the statement: "I certify under penalty of perjury under the laws of the State of California that the information provided is true, accurate, and complete."

(4) Hybrid cryogenic temperature control recordkeeping. An owner that has elected to comply by using a hybrid cryogenic temperature control system must meet the following automatic monitoring, recordkeeping, and reporting requirements with an electronic tracking system (as defined in section 2477.4). Automated recordkeeping shall include data that includes the following for each stationary location lasting more than 300 seconds (5 minutes):

(A) ARB Identification Number of the unit, issued under section 2477.5(e);

(B) Date;

(C) Location: GPS coordinates or coded, with full address in code look-up table;

(D) Time of arrival and departure, and the elapsed time calculated from those readings to show the duration of the stationary position;

(E) Engine hour meter readings taken at arrival and departure and the elapsed time calculated from those readings to show the TRU engine run time while the vehicle is stationary;

- (F) Cryogenic system use hour meter readings taken at arrival and departure and the elapsed time calculated from those readings to show the cryogenic system run time while the vehicle is stationary;
- (G) The electronic tracking system shall generate a report that lists all stationary locations lasting more than 5 minutes where the TRU engine operated for more than 30 minutes, resulting in a violation;
- (H) Records shall be kept available for a minimum of three (3) years and shall be compiled and made available to ARB upon request;
and
- (I) Record submittals shall include the owner's or responsible official's signature after the statement: "I certify under penalty of perjury under the laws of the State of California that the information provided is true, accurate, and complete."

(E)(e) ARB Identification Numbering Requirements. Identification numbers (IDN) will be issued to help expedite the inspection procedure and prevent shipping delays¹³

4-(1) California-based TRUs and TRU gen sets:

a-(A) On or before January 31, 2009, owners or owner/operators of all California-based TRUs and TRU gen sets subject to this regulation shall apply for an ARB IDN for all California-based TRUs or TRU gen sets operated by the owner or owner/operator by submitting an application that includes the information listed below.

1. Company Information

- a. ~~Operator~~ Company/business name, address, and contact information for the responsible official (e.g. title, phone number, email address, ~~fax number~~).
- b. Company/business tax identification number/federal employer identification number (EIN) or equivalent for other country (e.g. Canadian Business Number).

II. ~~Owner name, address, and contact information (if other than operator).~~

2. Rental or lease status. Indicate if the unit is a rental unit (no contract term) or a lease unit (under contract term, typically more than one year)

3. Applicant identity indication. Indicate who is filling out application, either:

- a. The owner (or an employee of owner), or
- b. A third party entering the application information under a third party agreement between the owner or lessor and a consultant or lessee.

III. TRU or TRU gen set unit information:

¹³ IDNs are obtained by registering a TRU or TRU gen set in the ARB's Equipment Registration (ARBER) system.

- a. Unit Type:
 - i. Truck TRU;
 - ii. Trailer TRU;
 - iii. Refrigerated railcar TRU;
 - iv. Refrigerated domestic shipping container TRU; or
 - v. TRU generator set.
 - b. make Unit manufacturer,
 - c. Unit model,
 - d. Unit model year, and
 - e. Unit serial number.
5. Other TRU or TRU generator set identifying numbers. Provide all that apply:
- a. If unit is installed on a truck or trailer, provide:
 - i. Vehicle Identification Number (VIN), and
 - ii. Vehicle license number, country of issuance, and state or province of issuance;
 - iii. Unique Bureau International de Container (BIC) Code, if trailer is multimodal
 - b. If unit is installed on refrigerated railcar, provide railcar reporting mark;
 - c. If unit is installed on domestic refrigerated shipping container, provide unique BIC Code;
 - d. If unit is a TRU gen set, provide unique BIC Code;
 - e. Provide company equipment number if company has labeled the equipment.
6. TRU status information. Indicate if the unit is:
- a. Active (unit is operational);
 - b. Removed from service (unit is scrapped or inactive for foreseeable future); or
 - c. Sold. If last registered owner sold unit, then they must provide:
 - i. Date of sale, and
 - ii. New owner's company name, address, and contact information
- IV.7. TRU engine information. Provide the following:
- a. Engine make, manufacturer;
 - b. Engine model;
 - c. Engine model year, or "MY"; and
 - d. Engine serial number;
 - e. Engine power rating. Indicate either:
 - i. Under 25 hp (under 19 kW), or
 - ii. 25 hp or greater (19 Kw or greater);
 - f. Engine family; and
 - g. Emissions standard tier that engine meets.
- V. Terminal or terminals that the TRU equipped truck or trailer is assigned to, with address and contact information.

- VI. Other associated identification numbers, which may include (as applicable):
- i. ~~Vehicle Identification Number (VIN) of the TRU-equipped truck or trailer.~~
 - ii. ~~Vehicle license number of the TRU-equipped truck or trailer.~~
 - iii. ~~Railcar recording mark and car number.~~
 - iv. ~~Shipping container number (for TRU-equipped shipping containers only).~~
 - v. ~~Company equipment number (if any).~~
- VII. ~~Compliance status with in-use performance standards, under paragraph (e)(1)(A) requirements sections 2477.5(a) and (b). If compliance not as yet required, mark N/A.~~
- i. ~~Date when compliance was achieved.~~
 - ii. ~~What performance standard was met (e.g. LETRU or ULETRU).~~
 - iii. ~~How compliance was achieved (e.g. new compliant TRU, TRU engine replacement, or description of VDECS that was used).~~
 - iv. ~~Identify who did the installation work (if applicable).~~
 - a. Indicate if the ULETRU Early Compliance Extension has been granted
 - b. Indicate if compliance was achieved with an engine option:
 - i. Indicate if the engine currently in the unit is an original engine;
 - ii. Indicate if the engine currently in the unit is a new replacement engine and if so, provide:
 - I. Emissions standard tier that the engine meets; and
 - II. Installation date.
 - iii. Indicate if the engine currently in the unit is a rebuilt replacement engine installed to comply with the in-use requirements and if so, provide:
 - I. Emissions standard tier that the engine meets;
 - II. Rebuild year; and
 - III. Installation date.
 - c. Indicate if compliance was achieved with VDECS retrofit, and if so:
 - i. Provide the following from the VDECS label:
 - I. VDECS manufacturer name;
 - II. VDECS Family Name;
 - III. VDECS serial number;
 - IV. VDECS manufacture year; and
 - ii. Provide the VDECS installation date.
 - d. Indicate if compliance was achieved by using an Alternative Technology option under section 2477.5(a)(3), and if so provide the type used and the date installed or employed:
 - i. Electric standby-equipped TRU or hybrid electric TRU;

- ii. Hybrid cryogenic temperature controlled system;
 - iii. Alternative-fueled engine;
 - iv. Fueled exclusively with pure alternative diesel fuel;
 - v. Powered by fuel cells; or
 - vi. Other system approved by the Executive Officer.
 - e. If compliance was achieved by replacing an engine or retrofitting with a VDECS, provide the installer's company name, physical address, and contact information.
9. Indicate what state or province that the TRU or TRU gen set is based in:
- a. California; or
 - b. Outside of California. If based outside of California identify:
 - i. U.S. state;
 - ii. Mexican state; or
 - iii. Canadian province.
10. Owner's or responsible official's signature, after the statement: "I certify under penalty of perjury under the laws of the State of California that the information provided is true, accurate, and complete."
- ~~b.~~(B) Applications shall be submitted by one of the following methods:
- ~~1.~~1 Mail or deliver a physical report to ARB at the address listed immediately below:

~~CALIFORNIA AIR RESOURCES BOARD~~
~~STATIONARY SOURCE DIVISION (TRU)~~
~~P.O. BOX 2815~~
~~SACRAMENTO, CA 95812~~

California Air Resources Board
Stationary Source Division (SSD/ARBER)
P.O. Box 2815
Sacramento, CA 95812
 - ~~2.~~2 Electronically submit through ARB's the ARBER website web site. The web address will be identified in an advisory at: <http://www.arb.ca.gov/arber/arber.htm>
 - 3. Electronically submit by email to: arber@arb.ca.gov
- ~~e.~~(C) TRUs and TRU gen sets added to an owner's or owner/operator's TRU operations after January 31, 2009 shall be brought into compliance with ~~subsection 2477.5(e)(1)(E)~~. An application shall be submitted to ARB within 30 days of the unit entering the operator's control:
- ~~1.~~1 Requesting an ARB I.D. number for a new TRU or TRU gen set that was not previously numbered, or

accordance with subparagraph 2477.5(e)(1)(E)4.e., above. The non-California-based owner or owner/operator would then permanently affix or paint the identification number on the TRU or TRU gen set chassis in clear view, in accordance with subparagraph 2477.5(e)(1)(E)4.f.(F), above.

- (3) Owners or owner/operators may use alternative unique equipment identification markings instead of affixing an ARB IDN, provided the following conditions are met:
- (A) The owner or owner/operator registers the TRU or TRU gen set in ARBER and enters the unique equipment number in ARBER.
 - (B) The alternative identification number shall be truly unique. Examples of unique identification numbers include the Reporting Marks that are issued by the American Association of Railroads' contractor, RailInc, for their UMLER system and the BIC Codes issued by Bureau International de Containers. Company equipment numbers that are not truly unique on a worldwide basis do not qualify.
 - (C) Alternative identification numbers must be affixed or attached to both sides of the TRU gen set, shipping container (if the TRU is permanently attached), semitrailer, or railcar and meet all of the requirements of subparagraph 2477.5.(e)(1)(F).
 - (D) The ARB IDN shall be used in the Operator Report under section 2477.6(a).

(F)(f) Early Compliance with LETRU In-Use Performance Standards.

4.(1) For 2002 and older MY TRU and TRU gen set engines, owners or owner/operators or owners that meet the LETRU in-use performance standard earlier than required in paragraph (e)(1)(B)2477.5(b) may apply to the Executive Officer for a delay in the ULETRU in-use performance standard. Except as provided below, early compliance would be achieved through any of the options available in paragraph (e)(1)(A)2477.5(a).

a.(A) This delay would not be available to the owner or owner/operator or owner if the engine manufacturer of the replacement engine is using the early compliance with engine emissions standards in U.S. EPA's Averaging, Banking, and Trading Program (or California's equivalent program).

b.(B) Early compliance is conditioned upon real emission reductions (refer to definition in subsection (d)2477.4) occurring earlier than the applicable compliance deadline.

~~e.~~(C) This delay may not be available to the owner or owner/operator or owner if public funds were used for early compliance. The applicant shall disclose whether public funds were used for any portion of early compliance and what program the funding came from.

~~2.~~(2) Early LETRU compliance with real emission reductions would allow specific units to delay compliance with ULETRU in-use performance standards by up to three years, according to the rounding conventions and examples listed below.

~~a.~~(A) Each year of early compliance with the LETRU in-use performance standards would be rewarded with 1 year delay in the ULETRU in-use performance standard.

~~i.~~1. One full year early compliance qualifies for one full year delay in meeting ULETRU compliance.

~~ii.~~2. Two full years early compliance qualifies for two full years delay in meeting ULETRU compliance.

~~iii.~~3. Three full years early compliance qualifies for three full years delay in meeting ULETRU compliance.

~~b.~~(B) A partial year of early LETRU compliance would be rounded to the nearest full year for the delayed ULETRU requirements.

~~i.~~1. Early LETRU compliance of 183 days or more in a calendar year would count toward a one year ULETRU delay.

~~ii.~~2. Early LETRU compliance of 182 days or less in a calendar year would not count toward a ULETRU delay.

~~3.~~(3) Upon receipt of an application to delay ULETRU compliance, the Executive Officer shall determine if the application demonstrates early compliance with LETRU in-use performance standards in accordance with ~~subsection (e)(1)(F)1-2477.5(f)(1)~~, and if the application is approved, shall delay the in-use ULETRU compliance date for specific TRUs and TRU gen sets operating in California in accordance with subparagraph ~~(e)(1)(F)2-2477.5(f)(2)~~.

~~4.~~(4) Upon approval of the application, ARB shall issue a certificate and ARB identification number in accordance with ~~subsection (e)(1)(E)1-e-2477.5(e)(1)(E)~~ which acknowledges early compliance with LETRU requirements and discloses the number of years delay granted, and resulting ULETRU compliance date.

~~5.~~(5) The owner or owner/operator shall maintain a legible copy of the certificate in a water-tight sleeve mounted inside the TRU or TRU gen set chassis housing. The owner or owner/operator shall paint the identification number in clear view in accordance with ~~subsection (e)(1)(E)1.f.2477(e)(1)(F)~~ on the specific TRU or TRU gen set that was granted the compliance extension.

(g) ULETRU Extension for Compliance by Original Compliance Date

(1) An owner of model year 2001 and older TRUs or TRU gen sets that complied by the original December 31, 2008, compliance date may qualify for a one year extension to the ULETRU compliance date, provided the following conditions are met:

(A) The original engine was retrofit with a Level 2 VDECS, or

(B) The original TRU was repowered with a replacement engine meeting either:

1. Tier 4 final Non-Road/Off-Road Emission Standards, if the engine is rated at less than 25 hp, or
2. Tier 4 interim Non-Road/Off-Road Emission Standards, if the engine is rated between 25 hp and less than 50 hp, or

(C) The original TRU was replaced with a new unit equipped with an engine meeting either:

1. Tier 4 final Non-Road/Off-Road Emission Standards, if the engine is rated at less than 25 hp, or
2. Tier 4 interim Non-Road/Off-Road Emission Standards, if the engine is rated between 25 hp and less than 50 hp, and

(D) The TRU or TRU gen set is registered in ARBER, the compliance information is complete and correct, and the IDN has been affixed to both sides of the TRU or TRU gen set housing.

(2) Owner must apply for the ULETRU extension at least 90 days before the ULETRU compliance date by submitting an ARB application that includes the following information:

(A) Owner name and Owner-Operator Number (OON);

(B) The affected unit's IDN;

(C) A statement that the unit was in compliance on or before December 31, 2008, and the IDN has been affixed to both sides of the TRU or TRU gen set housing in accordance with section 2477.5(e)(1)(F);

(D) Documentation that demonstrates that the LETRU in-use standard was met before December 31, 2008;

(E) In the case of a unit replacement, documentation on the old noncompliant unit that was replaced; and

(F) Owner's or responsible official's signature, after the statement: "I certify under penalty of perjury under the laws of the State of California that the information provided is true, accurate, and complete."

(3) The owner or responsible official must submit an application for "ULETRU Extension for Compliance by the Original Compliance Date" to the Executive Officer by one of the following methods:

(A) Mail or deliver to ARB at the address listed immediately below:

California Air Resources Board
Stationary Source Division (ARB/ER/TRU)
P.O. Box 2815
Sacramento, CA 95812

(B) Electronically submit by email to: arber@arb.ca.gov; or

(C) Electronically submit through ARB's ARBER website at:
<http://www.arb.ca.gov/arber/arber.htm>

(4) Upon receipt of application for ULETRU extension, the Executive Officer shall determine if the application demonstrates the unit qualifies for ULETRU extension.

(5) Upon approval of the application, the Executive Officer shall:

(A) Change the "Compliant Through" date in ARBER; and

(B) Notify the owner with a revised ARBER TRU Certification showing the new "Compliant Through" date.

(2)(h) Fuel Requirements.

~~(A)(1)~~ Owners or Owner/Operators Choosing to Use Alternative Diesel Fuels. Owners or owner/operators choosing to use alternative diesel fuels in compression ignition TRU and TRU gen set engines to meet the requirements of subsection (e)(1)2477.5(a) shall:

~~1.(A)~~ Maintain records in accordance with subsection (f)(1)(B) of this regulation that document exclusive use of the chosen fuel or additive for each affected engine and hours of engine operation. Appropriate records would be copies of receipts or invoices of appropriate fuel and/or fuel additive and engine hour meter logs.

1. Records shall be kept available for a minimum of three (3) years and shall be compiled and made available to the ARB upon request.

~~2.(B)~~ Use only fuel that is a VDECS alternative diesel fuel that contains no conventional diesel or CARB diesel fuel in TRUs or TRU gen sets operated in California.

~~3.(C)~~ Permanently affix a label in clear view near the fill spout that identifies the proper fuel that is required to be in compliance.

~~4.(D)~~ In the event that the owner or owner/operator decides to revert to using conventional diesel or CARB diesel fuel, the owner or owner/operator shall comply with the requirements of subsection (e)(1)2477.5(a) within 10 days of discontinuation of alternative diesel fuel use. Within 10 days of discontinuation, the owner or owner/operator shall notify the Executive Officer in writing of this change in fuel use and shall include an update to any ARB I.D. number application the compliance information submitted to ARBER or annual report submitted to comply with subsections (e)(1)(E), 2477.5(e), (e)(1)(F) 2477.5(f), or (f)(1)2477.6.

~~(B)(2)~~ Owners or Owner/Operators that Retrofit TRUs or TRU Gen Sets with a VDECS. Owners or owner/operators that retrofit TRUs or TRU gen sets with a VDECS that requires certain fuel properties to be met in order to achieve the required PM reduction or PM emissions shall only fuel the subject TRU or TRU gen set with fuel that meets these specifications when operating in the state of California. In addition, owners or owner/operators that choose a VDECS that requires certain fuel properties to be met in order to prevent damage to the VDECS or an increase in toxic air contaminants, other harmful compounds, or in the nature of the emitted PM shall only fuel the subject TRU or TRU gen set with fuel that meets these specifications.

(i) Compliance by Replacing Engines.

A new or rebuilt replacement engine shall meet more stringent emissions standards than the original engine. The new or rebuilt replacement engine must subsequently meet the in-use performance standard requirements of section 2477.5(a) by the compliance dates of section 2477.5(b), which are based on the new or rebuilt replacement engine's model year or effective model year (see definition).

(1) Current tier new replacement engines. Current tier new replacement engines shall use the engine model year to determine requirements and compliance dates. The engine model year is shown on the engine emissions label if the engine is manufactured when an emissions standard tier is in effect.

Emissions label language examples include, but are not limited to:

(A) "THIS ENGINE MEETS 2008 INT. TIER 4 EMISSION REGULATIONS FOR U.S. EPA AND CALIFORNIA NONROAD CI ENGINES." This label language indicates the engine is a current-tier 2008 model year engine for the purposes of in-use requirements and registration.

(B) "THIS ENGINE COMPLIES WITH U.S. EPA AND CALIFORNIA REGULATIONS FOR 2009 M.Y. NONROAD AND STATIONARY/OFF-ROAD DIESEL ENGINES." This label language indicates the engine is a current-tier 2009 model year engine for the purposes of in-use requirements and registration.

(2) Prior tier new replacement engines. Prior-tier new replacement engines shall use the effective model year (see definition) to determine requirements and compliance dates. The manufacture year and the installation year of a prior tier replacement engine shall not be used to determine the in-use requirements and the compliance dates. Prior-tier new replacement engine emissions labels typically do not clearly show the effective model year, but provide dates that indicate the prior-tier emissions standard that the engine meets. The year in the first sentence of the replacement engine emission label is the first year of the tier met. The date in the second sentence of the replacement engine label is the first day of the next tier standard. Table 1 in section 2477.4 and the following example of replacement engine emissions label language show how these labels shall be interpreted for this subarticle:

(A) "THIS ENGINE COMPLIES WITH CALIFORNIA OFF-ROAD AND U.S. EPA NONROAD EMISSION REQUIREMENTS FOR 2004 ENGINES UNDER 13 CCR 2423(j) AND 40 CFR 89.1003(b)(7). SELLING OR INSTALLING THIS ENGINE FOR ANY PURPOSE OTHER THAN TO REPLACE AN OFF-ROAD ENGINE BUILT BEFORE JANUARY 1, 2008 MAY BE A VIOLATION OF CALIFORNIA AND FEDERAL LAW SUBJECT TO CIVIL PENALTY." The first sentence includes the year 2004 (the first year of the tier). The second sentence indicates the next tier started on January 1, 2008, so the last year of the tier the engine met would be 2007.

The center column of Table 1 shows the effective years 2004 to 2007 matches a Tier 2 engine in the 25-50 hp (trailer) category.

(3) Rebuilt replacement engines. Rebuilt replacement engines must meet the requirements of section 2477.16.

(A) Prior tier rebuilt replacement engines. If the rebuilt engine meets a prior tier emissions standard, then the effective model year (see definition) shall be used to determine the requirements and compliance dates. The rebuild year and the installation year of a prior tier replacement engine shall not be used to determine the in-use requirements and the compliance dates.

(B) Current tier rebuilt replacement engines. If the rebuilt engine meets the tier standard that is currently in effect, then the model year is the year that the rebuild is completed and this year shall be used to determine the requirements and compliance dates.

(i) Mobile Catering Company Exemption Requirements.

(1) The Executive Officer may grant a one year exemption to mobile catering companies for TRUs that are not compliant with the in-use performance standards under section 2477.5(a) if the following conditions are met:

(A) The mobile catering company must be under contract with the National Interagency Fire Center to provide mobile catering food service to emergency incidents for the year that the exemption would apply.

(B) All California-based TRUs shall comply with the ARBER registration requirements under section 2477.5(e) and have an ARB Identification Number (IDN) affixed to both sides of the TRU housing. All TRUs owned or leased by the mobile catering company that are based outside of California that the owner wants included in the mobile catering company exemption must be registered in ARBER in accordance with section 2477.5(e).

(C) The mobile catering company must submit an application each year for a Mobile Catering Company Exemption to the Executive Officer by one of the following methods:

1. Mail or deliver to ARB at the address listed immediately below:

California Air Resources Board
Stationary Source Division (ARBER/TRU)
P.O. Box 2815
Sacramento, CA 95812

2. Electronically submit by email to: arber@arb.ca.gov; or

3. Electronically submit through ARB's ARBER website at:
<http://www.arb.ca.gov/arber/arber.htm>
- (D) Applications for Mobile Catering Service Exemption shall include the following information:
1. Business name;
 2. Business street address, state, zip code;
 3. Business phone number;
 4. Responsible official's name;
 5. Responsible official's mobile phone number;
 6. Federal Tax Identification Number (EIN) and Owner-Operator Number (OON) issued to the owner by ARBER when they registered in ARBER.
 7. A list of ARB IDNs issued by ARBER for all TRUs that are to be included under the exemption. For TRUs that are not in compliance with the in-use standards under section 2477(a) that do not have ARB IDNs, provide the unit serial number instead of the IDN on this list;
 8. A copy of the mobile catering company's contract with the National Interagency Fire Center shall be provided with the application; and
 9. Owner's or responsible official's signature, after the statement: "I certify under penalty of perjury under the laws of the State of California that the information provided is true, accurate, and complete."
- (E) The owner shall update the application information within 30 days of any changes to the information submitted. For example, if the owner buys, sells, or leases TRUs, the IDN and unit serial number list required under subparagraph (j)(1)(D)7. shall be amended.
- (F) The owner shall provide the driver with a copy of the current Mobile Catering Service Exemption that has been approved by the Executive Officer and the Mobile Food and Shower Service Request Form issued by the National Interagency Fire Center for the incident they are traveling to or from.
- (G) During transit on California highways, the driver must, upon request:
1. Present to the ARB inspector the Mobile Catering Service Exemption that has been approved by the Executive Officer and the Mobile Food and Shower Service Request Form issued by the National Interagency Fire Center, and
 2. Allow the ARB inspector to inspect the TRU to confirm the Mobile Catering Service exemption applies to the equipment.
- (H) All circumstances at the time of inspection shall be consistent with the Mobile Catering Service Exemption that has been approved by the Executive Officer and the Mobile Food and Shower Service Request Form issued by the National Interagency Fire Center.
- (I) Mobile Catering Company Exemptions shall expire on December 31st of each year. Mobile catering companies shall re-apply for this exemption annually.

(k) Compliance Extension for In-Use Performance Standards Based on Unavailability of Compliance Technology.

(1) If there is no compliance technology available for a specific TRU or TRU gen set within six months of a compliance date, the Executive Officer may grant a one year extension of the compliance deadline, provided the following conditions are met:

(A) A person or applicant must submit a written application to the Executive Officer that demonstrates the absence of any suitable compliance option that can be used on the specific equipment and the owner cannot otherwise meet the requirements of section 2477.5(a) by the compliance dates of section 2477.5(b). The application for and issuance of any extension pursuant to this subsection shall be subject to the following requirements:

1. Except for the units for which the extension is sought, the applicant shall demonstrate that all other units subject to the owner or operator's direct control meet the requirements of sections 2477.5(a) and (b);
2. The application shall be submitted to and received by the Executive Officer no later than six months before the compliance date of the engine for which the extension is requested;
3. The application shall identify each unit and engine for which the extension is requested;
4. For each engine identified in paragraph 2477.5(k)(1)(A)3., immediately above, the applicant shall provide a detailed description of the reasons and factors that serve as the basis for the applicant's claim that no suitable control technologies are available. The description shall include, without limitation, detailed engineering diagrams and calculations that support the applicants claim that there are no suitable control technologies available.
 - a. For a replacement engine to be determined suitable or unsuitable, the concerns that will be considered are if the replacement engine will physically fit and functionally perform in the equipment.
5. Owners or responsible officials shall provide their signature, after the statement: "I certify under penalty of perjury under the laws of the State of California that the information provided is true, accurate, and complete."
6. The owner or responsible official must submit an application for Compliance Extension to the Executive Officer by one of the following methods:
 - a. Mail or deliver to ARB at the address listed immediately below:

California Air Resources Board
Stationary Source Division (ARB/ER/TRU)
P.O. Box 2815
Sacramento, CA 95812

- b. Electronically submit by email to: arber@arb.ca.gov; or
 - c. Electronically submit through ARB's ARBER website at: <http://www.arb.ca.gov/arber/arber.htm>
7. The TRU or TRU gen set shall be registered in ARBER under section 2477.5(e).

(B) The Executive Officer may grant additional one-year extensions provided the same procedures are followed, as described in section 2477.5(k)(1), immediately above.

(I) Compliance Extension for In-Use Performance Standards Based on Delays Due to Private Financing, Equipment Manufacture Delays, or Installer Delays.

(1) The Executive Officer may grant a one-time, maximum four month extension to the normal compliance date set forth in section 2477.5(b) for meeting the in-use performance standards set forth in section 2477.5(a), provided certain conditions are met:

(A) The owner must have ordered the compliance technology from the manufacturer no later than two months before the compliance date for VDECS retrofit compliance technologies and no later than four months before the compliance date for engine replacements, unit replacements, and trailer replacements, and the purchase order must be consistent with these limits:

(B) The TRU or TRU gen set is registered in ARBER;

(C) An extension application is submitted before the compliance deadline that explains in detail why a compliance extension is needed and how much additional time to comply is needed, including:

1. If delivery is the cause for delay, explain the status, and provide documentation from the manufacturer to demonstrate this is true, along with an updated delivery schedule.
2. If installation is the cause for delay, report the date that compliance technology was delivered, explain the installation status and provide documentation from the installer to demonstrate the facts, along with an updated installation schedule.
3. If there are other circumstances causing the delay, such as financing, explain the status and provide documentation from the financier to demonstrate this is true, along with an updated schedule.
4. The owner or responsible official shall provide their signature, after the statement: "I certify under penalty of perjury under the laws of the State of California that the information provided is true, accurate, and complete."

5. The owner or responsible official must submit an application for Compliance Extension to the Executive Officer by one of the following methods:

a. Mail or deliver to ARB at the address listed immediately below:

California Air Resources Board
Stationary Source Division (ARBER/TRU)
P.O. Box 2815
Sacramento, CA 95812

b. Electronically submit by email to: arber@arb.ca.gov; or

c. Electronically submit through ARB's ARBER website at:
<http://www.arb.ca.gov/arber/arber.htm>

(m) ULETRU Extension for Compliance with LETRU.

(1) The ULETRU compliance dates required under subparagraphs 2477.5(b)(1) through (4) may be extended one year for TRUs or TRU gen sets equipped with MY 2003 or older engines if they complied by meeting the LETRU In-Use Performance Standard by the compliance dates listed below and the following qualifications are met:

(A) Compliance with LETRU was achieved by the following compliance dates:

1. December 31, 2009 for MY 2001 and older engines;
2. December 31, 2009 for MY 2002 engines; and
3. December 31, 2010 for MY 2003 engines.

(B) The original engine met the LETRU in-use standard by being retrofit with a Level 2 VDECS; or

(C) The unit was repowered with a replacement engine meeting the LETRU in-use standard:

1. Tier 4 final Non-Road/Off-Road Emission Standards, if the engine is rated at less than 25 hp
2. Tier 4 interim Non-Road/Off-Road Emission Standards, if the engine is rated between 25 hp and less than 50 hp

(D) The original TRU or TRU gen set was replaced with a new TRU or TRU gen set that is equipped with an engine that meets the LETRU in-use performance standard:

1. Tier 4 final Non-Road/Off-Road Emission Standards, if the engine is rated at less than 25 hp, or
2. Tier 4 interim Non-Road/Off-Road Emission Standards, if the engine is rated between 25 hp and less than 50 hp, or

(E) The unit is registered in ARBER under subparagraph 2477.5(e)

(F) Owner must apply for the ULETRU extension by submitting an application to the Executive Officer at least 90 days before the ULETRU compliance date that includes the following information:

1. Owner name and Owner-Operator Number (OON);

2. The affected unit's IDN;
 3. A statement that the unit was in compliance on or before the compliance date required under section 2477.5(m)(1)(A), above;
 4. Documentation that demonstrates that the LETRU in-use standard was met before the compliance date required under section 2477.5(m)(1)(A), above;
 5. In the case of a unit replacement that meets LETRU, additional information that demonstrates the old noncompliant unit that was replaced, including:
 - a. A statement that the owner replaced a MY 2003 or older (actual model year must be specified) TRU or TRU gen set with a new TRU or TRU gen set that was equipped with an engine that is certified to meet a new engine emissions standard that meets the LETRU in-use performance standard;
 - b. Receipts for the purchase of the new TRU or TRU gen set, dated on or before the compliance date required under section 2477.5(m)(1)(A), above;
 - c. Documentation for the old, replaced TRU or TRU generator set that supports the statement in subparagraph 2477.5(m)(1)(F)5.a., above; and
 6. Owner's or responsible official's signature, after the statement: "I certify under penalty of perjury under the laws of the State of California that the information provided is true, accurate, and complete."
- (G) The owner or responsible official must submit an application for ULETRU Compliance Extension for Compliance with LETRU for TRU or TRU gen set replacement under subparagraph 2477.5(m)(1)(C), above, to the Executive Officer by one of the following methods:

1. Mail or deliver to ARB at the address listed immediately below:

California Air Resources Board
Stationary Source Division (ARBER/TRU)
P.O. Box 2815
Sacramento, CA 95812

2. Electronically submit by email to: arber@arb.ca.gov; or
3. Electronically submit through ARB's ARBER website at: <http://www.arb.ca.gov/arber/arber.htm>

(n) Safe Passage for Noncompliant Equipment Traveling in California.

- (1) The Executive Officer may grant a safe passage permit to a TRU or TRU gen set owner to travel on California highways with a specific noncompliant TRU or TRU gen set, provided the following conditions are met:

- (A) The purpose of traveling on California highways is to take the noncompliant equipment to a dealer or installer to bring the equipment into compliance.
- (B) Only one permit shall be allowed if the specific TRU or TRU gen set must comply with the ULETRU in-use standard, and two permits shall be allowed if the specific TRU or TRU gen set must comply with both the LETRU and ULETRU in-use standards.
- (C) The TRU or TRU gen set shall not be operating (with the engine running) while in a noncompliant state in California;
- (D) No temperature-sensitive products shall be transported in a vehicle with a noncompliant TRU or TRU gen set;
- (E) The owner shall submit an application for a safe passage permit to the Executive Officer. Safe passage permit applications shall be submitted by one of the following methods:
 - 1. Mail or deliver a physical report to ARB at the address listed immediately below:

California Air Resources Board
Stationary Source Division (ARBER/TRU)
P.O. Box 2815
Sacramento, CA 95812

- 2. Electronically submit by email to: arber@arb.ca.gov
- 3. Electronically submit through ARB's ARBER website at: <http://www.arb.ca.gov/arber/arber.htm>
- (F) Applications for safe passage permits shall include the following information:
 - 1. Owner's name;
 - 2. Business name (if different);
 - 3. Owner's street address, state, zip code;
 - 4. Contact person's name;
 - 5. Contact person's business phone number;
 - 6. Date(s) transport will take place;
 - 7. Statement that the reason for transporting the noncompliant equipment on California highways is strictly to take the noncompliant equipment to a dealer or installer to bring the equipment into compliance;
 - 8. TRU or TRU gen set serial number;
 - 9. Vehicle Identification Number (VIN), BIC Code (for TRU gen sets and domestic shipping containers), or railcar reporting mark;
 - 10. Physical address of starting location or point of entry into California;
 - 11. Dealer's or installer's business name and physical address where compliance technology will be installed; and
 - 12. Owner's or responsible official's signature, after the statement: "I certify under penalty of perjury under the laws of the State of California that the information provided is true, accurate, and complete."
- (G) The Executive Officer shall provide a decision within 15 days of the application submittal.

- (H) The owner shall provide the driver with a copy of the safe passage permit that has been approved by the Executive Officer.
- (I) During transit on California highways, the driver must, upon request:
1. Show an inspector that no temperature-sensitive products are being transported;
 2. Present to the inspector the safe passage permit for the noncompliant TRU or TRU gen set that has been approved by the Executive Officer; and
 3. Allow the inspector to inspect the TRU or TRU gen set to confirm the permit applies to the noncompliant equipment.
- (J) All circumstances at the time of inspection shall be consistent with the safe passage permit.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

(f) Monitoring, Recordkeeping, and Reporting Requirements.

~~(1) TRU and TRU Gen Set Operator Recordkeeping and Reporting.~~

2477.6 Requirements for Terminal Operators.

~~(A)(a) Operator Reporting.~~

- ~~1.(1) All terminal operators subject to this regulation shall submit an Operator Report to ARB by January 31, 2009, for each terminal located in California that shall include the following information:~~
- ~~a.(A) Terminal Operator name, address, and contact information for the responsible official (phone number, email address, fax number).~~
 - ~~b.(B) List of all terminals owned or leased by the operator located within California, with Terminal address, phone number, and terminal contact name for each California terminal where TRUs or TRU generator sets are garaged, maintained, operated, or dispatched from.~~
 - ~~c.(C) TRU and TRU gen set inventory information List of ARB Identification Numbers issued in accordance with section 2477.5(e) for each all TRUs and TRU gen sets based in California that is owned or leased by the operator assigned to each California terminal:~~
 - ~~I. TRU or gen set make, model, model year, and serial number.~~
 - ~~II. TRU owner, and if other than operator, owner name, address, and contact.~~

- III. ~~Engine make, model, model year, and serial number.~~
- IV. ~~Terminal(s) that the TRU is assigned to.~~
- V. ~~ARB TRU or TRU gen set identification number, if already issued. If the ARB identification number has not been issued or there has been a change in the other identification numbers listed below since the prior annual report, then provide the following identification numbers (as applicable):~~
 - i. ~~Vehicle Identification Number.~~
 - ii. ~~Vehicle license number.~~
 - iii. ~~Railcar recording mark and car number.~~
 - iv. ~~Shipping container number (for TRU-equipped shipping containers only).~~
 - v. ~~Company equipment number.~~
- VI. ~~Compliance status with paragraph (e)(1)(A) requirements.~~

~~2.(2)~~ The Operator Report shall be updated within 30 days when changes to any of the above operator information occur. An Operator Report shall be submitted to ARBER within 30 days of the start-up of any new facility and shall be removed from ARBER within 30 days of a terminal shutting down.

~~a.(A)~~ Operator Reports shall be submitted by one of the following methods:

- ~~1.~~ Mail or deliver a physical report to ARB at the address listed immediately below:

~~CALIFORNIA AIR RESOURCES BOARD
STATIONARY SOURCE DIVISION (TRU)
P.O. BOX 2815
SACRAMENTO, CA 95812~~

California Air Resources Board
Stationary Source Division (ARBER/TRU)
P.O. Box 2815
Sacramento, CA 95812

- ~~II.2.~~ Electronically submit through ARB's ARBER website web site at: http://www.arb.ca.gov/arber/arber.htm. The web address will be identified in an advisory.
3. Electronically submit by email to: arber@arb.ca.gov

~~3-(3)~~ Failure to report or submittal of false information is a separate violation of state law of this rule and subject to civil penalty.

~~(B) Alternative Diesel Fuel Use and Fuel Additive Recordkeeping and Reporting.~~

- ~~1.~~ Operators that choose a compliance pathway that involves the use of alternative diesel fuel in accordance with subparagraph (e)(1)(A)3.d. (e.g. B100 biodiesel fuel or ultra-low aromatic synthetic diesel fuel) and/or a VDECS that includes the use of a fuel additive (e.g. fuel borne catalyst) shall maintain records that document exclusive use of the chosen fuel or additive for each affected CI engine and hours of operation. Appropriate records would be copies of receipts or invoices of appropriate fuel and/or fuel additive and daily operating hour logs.
- ~~2.~~ Records shall be kept available for a minimum of three (3) years and shall be compiled and made available to the ARB upon request.
- ~~3.~~ Failure to keep records or submittal of false information is a violation of state law subject to civil penalty.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

2477.7 Requirements for Drivers.

- (a) Beginning January 1, 2013, a driver shall not operate a TRU-equipped truck or tractor-trailer equipped with a TRU or TRU gen set on a California highway unless the TRU or TRU gen set complies with section 2477.5(a).
- (b) A driver must, upon request, provide the following available information to authorized enforcement personnel:
 - (1) Driver's license;
 - (2) Truck or tractor registration;
 - (3) Trailer registration;
 - (4) Bill of lading or freight bill with origin and destination of freight being transported, the consignor (shipper) and consignee (receiver);
 - (5) The company name and contact information of the carrier that dispatched the driver; and

- (6) The company name and contact information of the business entity (e.g. shipper, freight broker, freight forwarder, or receiver) that arranged, hired, or contracted for the transport of the perishable goods being hauled, subject to the requirements in sections 2477.8, 2477.9, 2477.10, and 2477.11.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

2477.8 Requirements for Freight Brokers and Freight Forwarders.

- (a) Beginning January 1, 2013, freight brokers and freight forwarders that arrange, hire, contract for, or dispatch the transport of perishable goods in TRU-equipped or TRU gen set-equipped trucks, tractor-trailers, shipping containers, or railcars on California highways or railways must:
- (1) Require the carriers they hire or contract with for transport of perishable goods, to only dispatch TRU-equipped trucks, trailers, shipping containers, and railcars or TRU gen sets that comply with section 2477.5(a) if they travel on California highways or railways.
 - (2) Provide the following information to the carrier for their dispatched driver who will be traveling on a California highway or railway:
 - (A) Freight broker's or freight forwarder's business name;
 - (B) Freight broker's or freight forwarder's street address, state, zip code;
 - (C) Freight broker's or freight forwarder's contact person's name; and
 - (D) Freight broker or freight forwarder contact person's business phone number.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

2477.9 Requirements for Motor Carriers.

- (a) Beginning January 1, 2013, motor carriers that dispatch TRU-equipped trucks, trailers, or shipping containers equipped with a TRU or TRU gen set that travel on a highway within California must:
- (1) Only dispatch TRUs or TRU gen sets that comply with section 2477.5.
 - (2) Provide the following information to a dispatched driver who will be traveling on a highway within California:
 - (A) Carrier's business name;
 - (B) Carrier's street address, state, zip code;
 - (C) Carrier contact person's name; and
 - (D) Carrier contact person's business phone number.

(3) Provide the dispatched driver with the business name, address, contact person, and phone number of the business entity (e.g. freight broker, freight forwarder, shipper or receiver) that arranged, hired, contracted for, or dispatched the transport of the perishable goods being hauled.

(b) Carriers may also have to comply with terminal operator requirements, under section 2477.6, if they have terminals located in California.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

2477.10 Requirements for California-Based Shippers.

(a) Beginning January 1, 2013, California-based shippers that arrange, hire, contract for, or dispatch the transport of perishable goods in TRU-equipped trucks, trailers, shipping containers, or railcars, or TRU gen sets on California highways or railways must:

- (1) Dispatch TRUs or TRU gen sets that comply with section 2477.5(a) if they travel on California highways or railways; or
- (2) Require the carriers they hire or contract with for transport of perishable goods, to only dispatch TRUs or TRU gen sets that comply with section 2477.5(a) if they travel on California highways or railways; and
- (3) Provide the following information to the carrier or a dispatched driver who will be traveling on a highway within California:
 - (A) Shipper's business name and address;
 - (B) Receiver's business name and address;
 - (C) Freight broker or forwarder business name and address (if any); and
 - (D) Contact person's name, and phone number at the shipper, broker, or receiver with knowledge of the transport arrangements.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

2477.11 Requirements for California-Based Receivers.

(a) Beginning January 1, 2013, California-based receivers that arrange, hire, contract for, or dispatch the transport of perishable goods in TRU-equipped trucks, trailers, shipping containers, or railcars; or TRU gen sets on California highways or railways must:

- (1) Dispatch TRUs or TRU gen sets that comply with section 2477.5(a) if they travel on California highways or railways; or

- (2) Require the carriers they hire or contract with for transport of perishable goods, to only dispatch TRUs or TRU gen sets that comply with section 2477.5(a) if they travel on California highways or railways; and
- (3) Provide the following information to the carrier or a dispatched driver who will be traveling on a highway within California:
 - (A) Shipper's business name, address;
 - (B) Receiver's business name, address;
 - (C) Freight broker or forwarder business name and address (if any); and
 - (D) Contact person's name, and phone number at the shipper, broker, or receiver with knowledge of the transport arrangements.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

2477.12 Requirements for Lessors and Lessees.

(a) Lessors shall be subject to all of the following:

- (1) The lessor is responsible for the owner requirements set forth in section 2477.5. See the definition of "owner" in section 2477.4 for clarification related to banks and financial institutions.
 - (A) The lessor may delegate the responsibility for applying for an IDN (registering in ARBER) under section 2477.5(e) to the lessee, if the following conditions are met:
 - 1. The lease contract must show clear delegation of the ARBER registration requirements to the lessee;
 - 2. The lessor must submit third party agreement confirmation information for leased units to ARB at least 10 days prior to the lessee applying for an IDN. The following information is required:
 - a. Unit serial numbers for each TRU or TRU gen set;
 - b. Unique company equipment number;
 - c. Vehicle license number;
 - d. Vehicle Identification Number (VIN);
 - f. Lessor company name, address, federal tax ID (EIN), contact person, and contact information;
 - g. Lessee company name, address, federal tax I.D (EIN), contact person, and contact information;
 - e. Copy of the contract pages of the lease contract with the language highlighted that identifies the lessee as the responsible party for registration; and
 - f. Owner's/lessor's or responsible official's signature, after the statement: "I certify under penalty of perjury under the laws of the State of California that the information provided is true, accurate, and complete."

3. The lessor must submit third party agreement confirmation information for leased units to the Executive Officer by one of the following methods:
a. Mail or deliver to ARB at the address listed immediately below:

California Air Resources Board
Stationary Source Division (ARBER/TRU)
P.O. Box 2815
Sacramento, CA 95812

b. Electronically submit by email to: arber@arb.ca.gov

4. The lessor must notify the lessee in writing of this delegation.

(B) The lessor shall not delegate owner requirements for complying with the in-use standards under section 2477.5(a) to the lessee unless the lessor is a bank or financial institution (see definition of "owner" in section 2477.4).

(2) When TRUs or TRU gen sets are at a lessor's California terminal for 30 or more days, the lessor shall be subject to the operator report requirements set forth in section 2477.6.

(b) Lessees shall be subject to all of the following:

(1) The terminal operator requirements set forth in section 2477.6 if a leased or rented TRU or TRU generator set has been assigned to the lessee's California terminal for 30 or more days.

(2) If delegated by contract and the lessor has submitted third party agreement confirmation information for leased units to ARB under section 2477.12(a)(1)(A) and notified the lessee of delegation under section 2477.12(a)(1)(A)3., the lessee is responsible for the registration requirements of section 2477.5(e) and shall complete all of the following:

(A) Submit a registration application for an IDN after at least 10 days of the lessor submitting the third party agreement confirmation information for leased units to ARB, but no more than 30 days after the lessor's notice;

(B) Submit a copy of the ARBER TRU Certification to the lessor within 30 days after registration in ARBER is completed and an ARBER TRU Certification is issued; and

(C) Affix (attach) the IDN to the TRU or TRU gen set housing within 30 days in accordance with subparagraph 2477.5(e)(1)(F).

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

2477.13 Requirements for TRU and TRU Gen Set Original Equipment Manufacturers.

(a) TRU and TRU original equipment manufacturers that equip TRUs or TRU gen sets with flexibility engines, as defined in section 2477.4, shall do all of the following:

(1) Beginning November 14, 2012, provide written notification to the Executive Officer of their intent to equip TRUs or TRU gen sets with flexibility engines. This notification shall be submitted at least 12 months in advance of the first flexibility engine being installed in production, to:

California Air Resources Board
Stationary Source Division (TRU)
P.O. Box 2815
Sacramento, CA 95812

(2) Beginning February 12, 2013, provide supplemental labels that list all of the engine information needed to register the TRU or TRU gen set in ARBER under section 2477.5(e), if the engine manufacturer's emissions label does not provide this information.

(A) The supplemental label shall be permanently affixed to the flexibility engine in an easily accessible place, in accordance with 40 CFR 89.110 (for Tier 1 or Tier 2) or 40 CFR 1039.135 (for Tier 4). Alternative supplemental label locations and font sizes may be necessary, such as on the equipment frame, subject to Executive Officer approval.

(3) Beginning February 12, 2013, the original equipment manufacturer shall provide written disclosures with new TRUs or TRU gen sets that are equipped with flexibility engines. These written disclosures may be included with documentation that is shipped with the TRU or TRU gen set and must include instructions to dealers telling them they are required by California law to notify the ultimate purchaser of these disclosures prior to sale and to pass these written disclosures to the ultimate purchaser at point of sale. The following disclosures are required:

(A) The TRU or TRU gen set is equipped with a flexibility engine. Flexibility engines meet less stringent emissions standards than the emission standards that were in effect at the time the flexibility engine was manufactured.

(B) Provide the effective model year of the flexibility engine, as shown in section 2477.4, Table 1.

(C) Notify the ultimate purchaser that if they register the TRU or TRU gen set in ARBER under section 2477.5(e), they are required report the effective model year of the engine, not the year that the engine was manufactured. Noncompliance may result in penalty.

(D) If the TRU or TRU gen set is operated in California, the owner will be required to bring the engine into compliance with the ULETRU in-use standard seven years after the effective model year of the engine, in accordance with section 2477.5(a) and (b).

(3)(b) Original Equipment Manufacturer Reporting

(A)(1) Current Production Reports: Beginning April 6, 2011, and by January 1st and June 30th of each calendar year thereafter, TRU and TRU gen set original equipment manufacturers shall provide to ARB the information listed below for all TRUs and TRU gen sets that will be manufactured and marketed for sale in the following markets: California, United States, Canada, and Mexico. The following data shall be provided for TRUs and TRU gen sets that will be produced during the six month period following the report due date for each market area:

1.(A) TRU or TRU genset manufacturer and model name, as it appears on the unit label; and

2.(B) The following engine information for each TRU or TRU gen set model:

- a.1. Engine manufacturer;
- b.2. Engine model, as it appears on the engine emissions label;
- c.3. Engine model, as it appears on the serial number label, if different;
- d.4. Engine Family;
- e.5. Rated horsepower and rated speed;
- f.6. Displacement (liters);
- g.7. Exhaust Emissions Control System;
- h.8. Tier standard met; and
- i.9. ARB's Executive Order that the engines are manufactured under.

3.(C) Current Production Reports shall be submitted by one of the following methods:

- a.1. Mail or deliver a physical report in electronic format to ARB at the address listed immediately below:

~~CALIFORNIA AIR RESOURCES BOARD
STATIONARY SOURCE DIVISION (TRU)
1001 I STREET
SACRAMENTO, CA 95814~~

California Air Resources Board
Stationary Source Division (TRU)
1001 I Street
Sacramento, CA 95814

~~b~~.2. Electronically submit to ARB's TRU Program via email at:
~~tru~~arber@arb.ca.gov

~~4~~.~~(D)~~ Original equipment manufacturers that produce less than 100 TRUs or TRU gen sets per calendar year may submit Current Production Year Reports within ten days of installing the first engine in a production run of a new model.

~~(B)~~~~(2)~~ Prior Production Reports:

~~1~~.~~(A)~~ Prior unit and engine data. TRU and TRU gen set original equipment manufacturers shall:

~~a~~.1. By April 6, 2011, provide a production report to ARB with the information listed below in subparagraph ~~(f)~~~~(3)~~~~(B)~~~~1~~.~~a~~.~~2477.13(b)(2)(A)1~~, for the previous five calendar years for each TRU or TRU gen set produced for sale in California, North America, Canada, and Mexico; or

~~b~~.2. If the TRU or TRU gen set original equipment manufacturer elects not to provide the information in subparagraph ~~(f)~~~~(3)~~~~(B)~~~~1~~.~~a~~.~~2477.13(b)(2)(A)1~~, then within 30 days of any request from ARB, the TRU or TRU gen set original equipment manufacturer shall provide a production report to ARB with the information listed below in subparagraph ~~(f)~~~~(3)~~~~(B)~~~~1~~.~~a~~.~~2477.13(b)(2)(C)~~ for the unit and engine serial numbers provided in ARB's request.

~~2~~.~~(B)~~ Monthly production reports. TRU and TRU gen set original equipment manufacturers shall either:

~~a~~.1. Beginning April 6, 2011, provide by the 15th of each calendar month, a monthly production report to ARB with the information listed below in subparagraph ~~(f)~~~~(3)~~~~(B)~~~~1~~.~~a~~.~~2477.13(b)(2)(C)~~ for the previous calendar month for each TRU or TRU gen set produced for sale in California, North America, Canada, and Mexico; or

~~b~~.2. As an alternative, the TRU or TRU gen set original equipment manufacturer may request reporting that is equivalent to and at least as effective as subparagraph ~~(f)~~~~(3)~~~~(B)~~~~2~~.~~a~~.~~2477.13(b)(2)(B)1~~, immediately above, subject to Executive Officer approval.

~~3~~.~~(C)~~ Original equipment manufacturers shall provide the following information for each TRU and TRU gen set:

~~a~~.1. TRU or TRU gen set model name, as it appears on the unit label;

~~b~~.2. TRU or TRU gen set serial number;

~~c~~.3. Engine manufacturer;

~~d~~.4. Engine model, as it appears on the engine emissions label;

~~e~~.5. Engine model, as it appears on the serial number label, if different;

- f.6. Engine Family;
- g.7. Engine serial number;
- h.8. Rated horsepower and rated speed; and
- i.9. Tier standard met.

4.(D) Prior Production Reports and Flexibility Engine Reports shall be submitted on CD or DVD to:

~~CALIFORNIA AIR RESOURCES BOARD
STATIONARY SOURCE DIVISION (TRU)
1001 I STREET
SACRAMENTO, CA 95814~~

California Air Resources Board
Stationary Source Division (TRU)
1001 I Street
Sacramento, CA 95814

~~(C)~~(3) Confidentiality of current and prior production reports. TRU and TRU gen set original equipment manufacturers may designate current and prior production report information as confidential or trade secret, and such information will be handled in accordance with title 17 CCR, section 91000.

(c) Beginning February 12, 2013, TRU and TRU gen set original equipment manufacturers (OEM) that sell TRUs, TRU gen sets, or replacement engines in California shall:

(1) Provide a supplemental label with all new and rebuilt replacement engines that provides the information that is required to register the unit in ARBER under section 2477.5(e), if the engine manufacturer's emissions label does not provide this information. If a prior-tier replacement engine (as defined in section 2477.4) is used, the effective model year (as defined in section 2477.4) shall be listed on the supplemental label.

(A) The supplemental label shall be permanently affixed to the replacement engine in an easily accessible place, in accordance with 40 CFR 89.110 (for Tier 1 or Tier 2 engines) or 40 CFR 1039.135 (for Tier 4 engines). Alternative supplemental label locations and font sizes may be necessary if accessible engine surface space is not available, subject to Executive Officer approval.

(2) Provide a registration information document with each new TRU and TRU gen set, that includes:

(A) All of the TRU or TRU gen set unit information that is needed to register the TRU or TRU gen set in ARBER under section 2477.5(e). This information must be the same as the information on the unit label that is attached to the unit.

- (B) All of the TRU or TRU gen set engine information needed to register in ARBER under section 2477.5(e). This information must be the same as the information on the engine labels that are attached to the engine.
- (C) The registration information document shall include a certification statement by the TRU OEM stating that the unit registration information provided is exactly the same as listed on the TRU or TRU gen set unit label and the engine registration information provided is exactly the same as listed on the engine labels.
- (D) As an alternative to providing the registration information document, the TRU or TRU gen set original equipment manufacturer may provide a web-based, on-line lookup system for registration information that is at least as effective as section 2477.13(c)(2)(A), (B), and (C), subject to advance Executive Officer approval. In determining whether a specific web-based, on-line lookup system for registration information is at least as effective as section 2477.13(c)(2)(A), (B), and (C), the Executive Officer shall consider information submitted by the manufacturer and shall exercise good scientific and engineering judgment.

(3) Provide a registration information document with each new and rebuilt replacement engine supplied by the OEM that includes:

- (A) All of the engine information needed to register in ARBER under section 2477.5(e). This information must be the same as the information on the new replacement engine labels or rebuilt replacement engine supplemental labels (see section 2477.16(b)) that are attached to the engine or an alternative location approved by the Executive Officer.
- (B) The registration information document shall include a certification statement by the TRU OEM stating that the engine registration information provided is exactly the same as listed on the replacement engine labels.
- (C) Include entry spaces and instructions for the dealer or installer to fill in the unit information that is needed to register the unit in ARBER pursuant to section 2477.5(e)(1)(A)4. Include a certification statement for the dealer or installer to sign under, stating that the unit information entered is exactly the same as listed on the unit label that the replacement engine is installed into.
- (D) As an alternative to providing the registration document, the TRU or TRU gen set original equipment manufacturer may provide a web-based, on-line lookup system for registration information that is at least as effective as section 2477.13(c)(3)(A), (B), and (C), subject to advance Executive Officer approval. In determining whether a specific web-based, on-line lookup system for registration information is at least as effective as section 2477.13(c)(2)(A), (B), and (C), the Executive Officer shall consider information submitted by the manufacturer and shall exercise good scientific and engineering judgment.

(d) Beginning November 14, 2012, OEMs shall provide written disclose with each prior-tier replacement engine they supply that shall be passed on to interested buyers prior to sale of a prior-tier replacement engine notifying them that the engine was manufactured to meet less stringent emissions standards than are currently required. This notification must also provide the effective model year of the prior-tier replacement engine and the ULETRU compliance deadline.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

2477.14 Requirements for TRU, TRU Gen Set, and TRU-Equipped Truck and Trailer Dealers.

(a) Beginning February 12, 2013, dealers that sell and/or install TRUs, TRU gen sets, or replacement engines in California shall:

(1) Pass the registration information document provided by the TRU or TRU gen set OEM (under section 2477.13) or print-out from the OEM's web-based look-up system (under section 2477.13(c)(2)(D) or 2477.13(c)(3)(D)) to the ultimate purchaser upon sale of a new TRU or TRU gen set that includes the TRU or TRU gen set unit information and the TRU engine information required for registration under section 2477.5(e).

(2) Pass the registration information document provided by the TRU or TRU gen set OEM under (section 2477.13) or print-out from the OEM's web-based look-up system (under section 2477.13(c)(2)(D) or 2477.13(c)(3)(D)), or engine rebuilder (under section 2477.16) to the ultimate purchaser upon sale of a new replacement engine, or rebuilt replacement engine that includes the engine information required for registration under section 2477.5(e).

(3) If an engine is not supplied by a TRU OEM, the dealer shall provide a registration information document that lists all of the TRU or TRU gen set engine information needed to register in ARBER under section 2477.5(e)(1)(A)7. This information must be exactly the same as the information on the engine emissions label that is attached to the engine. The registration information document must include a certification statement by the dealer stating that the engine information provided is exactly the same as listed on the engine emissions label.

(4) If a new TRU or TRU gen set is equipped with a flexibility engine, the dealer shall notify the ultimate purchaser of the written disclosures provided by the OEM under section 2477.13(a)(3) prior to sale and shall pass these disclosures to the ultimate purchaser at point of sale of a new TRU or TRU gen set.

(b) Dealers that sell TRUs or TRU gen sets from businesses located in California may purchase, receive, or otherwise acquire and have in their possession, TRUs or TRU gen sets that are noncompliant with the in-use performance standards of section 2477.5(a) and the registration requirements of section 2477.5(e), if the following conditions are met:

(1) The noncompliant TRUs or TRU gen sets are not sold for use in California prior to being brought into compliance with the requirements;

(2) The noncompliant TRU or TRU gen set is sold to a person that would not be reasonably expected to do business in California and a written disclosure to the buyer in the bill of sale is required in accordance with section 2477.18(b)(1);

(3) The noncompliant TRUs or TRU gen sets are not rented or leased prior to being brought into compliance with these requirements;

(4) The noncompliant TRUs or TRU gen sets are not operated at the dealers place of business or on California highways for the purposes of controlling the environment of temperature sensitive products while in California. This condition applies to TRU or TRU gen sets under the dealer's control. This condition does not apply to TRUs or TRU gen sets owned by others that are being repaired by the dealer; and

(5) If a noncompliant TRU or TRU gen set is in transit on California highways:

(A) The TRU or TRU gen set shall not be operating;

(B) The dealer shall be responsible for ensuring that no temperature-sensitive products are transported in the vehicle;

(C) The dealer shall provide the driver with written evidence that the noncompliant TRU or TRU gen set is under the control of the dealer, including the following information:

1. Dealer's business name;

2. Dealer's street address, state, zip code;

3. Dealer contact person's name;

4. Dealer contact person's business phone number;

5. Date(s) transport will take place;

6. Statement of the reason for transporting the noncompliant equipment

7. TRU or TRU gen set serial number

8. Physical address of starting location;

9. Physical address of ending location; and

10. Dealer owner's or responsible official's signature, after the statement: "I certify under penalty of perjury under the laws of the State of California that the information provided is true, accurate, and complete."

(D) During transit on California highways, the driver, upon request, must show an inspector that no temperature-sensitive products are being transported and must present written evidence provided by the dealer that the noncompliant TRU or TRU gen set is under the control of a dealer; and

(E) All circumstances at the time of inspection shall be consistent with the requirements under section 2477.14(b)(5).

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

2477.15 Requirements for Repair Shops Located in California that Work on TRUs or TRU Gen Sets.

(a) Repair shops located in California that sell and/or install new or rebuilt replacement engines into TRUs or TRU gen sets shall:

(1) Pass the registration information document provided by the TRU or TRU gen set OEM (under section 2477.13) or engine rebuilder (under section 2477.16) to the ultimate purchaser upon sale of a new or rebuilt replacement engine that includes the engine information needed to register in ARBER, as listed in section 2477.5(e)(1)(A)7.

(2) Beginning February 12, 2013, if an engine is not supplied by a TRU OEM, the installer shall provide a registration information document that lists all of the TRU or TRU gen set engine information needed to register in ARBER, as listed in section 2477.5(e)(1)(A)7.

(A) This information must be exactly the same as the information on the engine emissions label that is attached to the engine.

(B) The registration information document shall provide a certification statement by the repair shop responsible official stating that the engine information provided is exactly the same as listed on the engine emissions label.

(3) Beginning February 12, 2013, provide the unit information on the registration information document that is needed to register the unit in ARBER for TRU or TRU gen set that the new or rebuilt replacement engine is installed into. The unit information that is required is listed in section 2477.5(e)(1)(A)4.

(A) The repair shop responsible official shall provide a certification statement on the registration information document stating that the unit information provided is exactly the same as listed on the unit label.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

2477.16 Requirements for Engine Rebuilders.

- (a) If a TRU engine is being rebuilt to remain in compliance with the in-use standards of section 2477.5(a), it must be rebuilt in accordance with the 40 CFR, sections 89.130 and 1068.120, and 13 CCR, section 2423(l), as these sections existed on August 31, 2012, and shall meet the following requirements:
- (1) To remain in compliance with the in-use performance standards, the engine must be rebuilt to a configuration of a more stringent emissions standard tier than the original engine;
 - (2) The engine must be rebuilt to a certified configuration of matched components. "Matched components" means a complete set of components corresponding to the certified emissions configuration (tier) of the engine that is being used as the reference for the rebuilt engine.
- (b) Beginning November 14, 2012, engine rebuilders shall provide a supplemental label with each rebuilt engine that includes the following information:
- (1) Name of the engine rebuilder;
 - (2) Engine manufacturer of the original engine
 - (3) Engine model;
 - (4) Engine model year:
 - (A) Prior tier engines. If the rebuilt engine meets a prior-tier emissions standard, then the effective model year is required (see definition of effective model year in section 2477.4);
 - (B) Current tier engines. If the rebuilt engine meets the tier standard that is currently in effect, then the model year is the year that the rebuild is completed.
 - (5) Horsepower rating of the certified configuration of the rebuilt engine;
 - (6) Emissions standard tier met by the certified configuration (e.g. Tier 4i); and
 - (7) Calendar year that the rebuild was completed.
- (c) Supplemental labels shall be permanently affixed to the rebuilt engine in an easily accessible place, in accordance with 40 CFR, section 89.110 (for Tier 1 or Tier 2) or 40 CFR, section 1039.135 (for Tier 4). Alternative supplemental label locations and font sizes may be necessary if surface space is not available, subject to Executive Officer approval.
- (d) Beginning January 13, 2013, engine rebuilders shall provide the following documentation, within 30 days of request, that demonstrates they have complied with the engine rebuilding practices of 40 CFR, sections 89.130 and 1068.120, and 13 CCR, section 2423(l):
- (1) Information that demonstrates there is a reasonable technical basis for knowing that the rebuilt engine is equivalent, from an emissions standpoint, to an engine that complies with the certification standards applicable to the emissions tier standard of the rebuilt engine (i.e. tolerances, calibrations, specifications). Such equivalency would exist if the following two conditions are met:
 - (A) Parts installed (whether the parts are new, used, or rebuilt) are such that a person familiar with the design and function of engines would reasonably believe that the parts perform the same function with respect to emission control as the original parts; and

(B) Any parameter adjustment or design element change is made only in accordance with the original engine manufacturer's instructions or where data or other reasonable technical basis exists that such parameter adjustment or design element change, when performed on the rebuilt engine, is not expected to adversely affect in-use emissions.

(2) The technical demonstration must be signed and stamped by a licensed professional mechanical engineer.

(e) Beginning February 12, 2013, engine rebuilders shall provide a registration information document with the rebuilt engine that includes:

(1) All of the TRU or TRU gen set engine information needed to register in ARBER pursuant to subparagraph 2477.5(e)(1)(A)7 except that engine family may be omitted for rebuilt engines. This information must be the same as the information on the rebuilt engine's re-label and supplemental emissions label that is attached to the engine. The registration information document would include a certification statement by the engine rebuilder, or third party installer stating that the engine information provided is exactly the same as listed on the engine emissions label.

(2) A separate section of the registration information document shall include entry spaces for all of the TRU or TRU gen set unit information that is required to register the unit in ARBER pursuant to subparagraphs 2477.5(e)(1)(A)4 and 5. The registration information document would include a certification statement, with a signature space for the third party installer, stating that the unit information provided is exactly the same as listed on the unit label.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

~~(2) Facility Monitoring, Recordkeeping, and Reporting.~~

~~(A)2477.17 Facility Reporting.~~

~~(A)(a)~~ All facilities subject to this subsection shall submit a Facility Report to ARB by January 31, 2006, containing the following information, as of December 31, 2005:

~~1-(1)~~ Contact information for the facility's responsible official.

~~2-(2)~~ Provide all North American Industrial Classification System codes (NAICS) applicable to the facility.

~~3-(3)~~ The number of loading dock doors serving refrigerated storage space.

~~4-(4)~~ The number of square feet of refrigerated storage space.

~~5-(5)~~ The number of TRUs or TRU gen sets under facility control by model year and horsepower category.

~~6.~~(6) The number of refrigerated trucks, trailers, shipping containers, or railcars leased or rented.

~~7.~~(7) The total annual TRU engine operating hours for all TRUs or TRU gen sets under facility control during 2005 (e.g. total TRU engine operating time for both on-road and off-road operations).

~~8.~~(8) The average weekly number of inbound refrigerated trucks, trailers, shipping containers, and railcars delivering goods to the facility during 2005, calculated by dividing the annual total inbound refrigerated loads by 52.

~~9.~~(9) The average weekly number of outbound refrigerated trucks, trailers, shipping containers and railcars delivering goods from the facility during 2005, calculated by dividing the annual total outbound refrigerated loads by 52.

~~10.~~(10) The average total number of hours per week that outbound TRU or TRU gen set engines operate while at the facility during 2005. Average TRU or TRU gen set engine operating time at facility for outbound refrigerated loads may be used if the result is representative of the outbound TRU or TRU gen set operations at facilities, as determined by the Executive Officer. Average values would be determined for outbound loads based on recordkeeping, conducted in accordance with subparagraph (f)(2)(B)2., and applied to the total annual number of refrigerated outbound loads, and then weekly averages calculated as follows: Average TRU or TRU gen set engine operating time per outbound refrigerated load multiplied by the total annual number of outbound loads, divided by 52 weeks equals the average total number of hours per week that outbound TRU or TRU gen set engines operate while at the facility.

~~11.~~(11) The average total number of hours per week that inbound TRU or TRU gen set engines operate while at the facility during 2005. Average TRU or TRU gen set engine operating time at facility for inbound refrigerated loads may be used if the result is representative of the inbound TRU or TRU gen set operations at facilities, as determined by the Executive Officer. Average values would be determined for inbound loads based on recordkeeping, conducted in accordance with subparagraph (f)(2)(B)2., and applied to the total annual number of refrigerated inbound loads, and then weekly averages calculated as follows: Average TRU or TRU gen set engine operating time per inbound refrigerated load multiplied by the total annual number of inbound loads, divided by 52 weeks equals the average total number of hours per week that inbound TRU or TRU gen set engines operate while at the facility.

~~12.~~(12) The number of refrigerated trailers (as defined) that are used at the facility for cold storage, the total annual number of hours of TRU engine operation associated with these refrigerated trailers, and the total annual number of hours of operation using electric standby associated with these refrigerated trailers.

~~(B)~~(b) Recordkeeping.

~~1.~~(1) Recordkeeping that substantiates the information reported in the Facility Report shall be maintained and shall be compiled and made available to State inspectors upon request for a minimum of three (3) years.

~~2.~~(2) The Executive Officer may approve alternative recordkeeping and calculation procedures for determining the average weekly hours of TRU engine operation at a facility for inbound and outbound refrigerated loads, provided the Executive Officer finds that the alternative procedures meet the intent of ~~subparagraph (f)(2)~~section 2477.17.

~~(C)~~(c) Facility Report Submittals. Facility Reports shall be submitted by one of the following methods:

~~1.~~(1) Mail or deliver a physical report to ARB at the address listed immediately below:

~~CALIFORNIA AIR RESOURCES BOARD
STATIONARY SOURCE DIVISION (TRU)
P.O. BOX 2815
SACRAMENTO, CA 95812~~
California Air Resources Board
Stationary Source Division (TRU)
1001 I Street
Sacramento, CA 95814

~~2.~~(2) Electronically submit through ARB's web site. ~~The web address will be identified in an advisory.~~ by email to: tru@arb.ca.gov

~~(D)~~(d) Failure to ~~r~~Report or ~~s~~Submittal of ~~f~~False ~~i~~Information. Failure to report or submittal of false information is a separate violation of ~~state law~~ subject to civil penalty this rule.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

(g) 2477.18 Prohibitions.

~~(1)(a)~~ Except as allowed under section 2477.14(b), No person who is engaged in this State in the business of selling to an ultimate purchaser, or renting or leasing new or used TRUs or TRU gen sets, including, but not limited to, manufacturers, distributors, and dealers, auctioneers, and motor carriers shall intentionally or negligently import, deliver, purchase, receive, or otherwise acquire a new or used TRU or TRU gen set engine that does not meet the performance requirements or alternatives set forth in section 2477.5(ea)(1) above.

~~(2)(b)~~ Except as allowed under section 2477.14(b), No person who is engaged in this State in the business of selling to an ultimate purchaser new or used TRU or TRU gen set engines, including, but not limited to, manufacturers, distributors, and dealers, auctioneers, and motor carriers shall sell, or offer to sell, to an ultimate purchaser who is a resident of this State or a person that could reasonably be expected to do business in this State a new or used TRU or TRU gen set engine that does not meet the performance requirements or alternatives set forth in section 2477.5(ea)(1) above.

(1) If a noncompliant TRU or TRU gen set is sold to a person who is a resident outside this State, then the bill of sale shall disclose to the buyer that the TRU or TRU gen set is not compliant for use in California and the TRU or TRU gen set must meet the in-use performance standards of section 2477.5 before operating in the State, and if the TRU is based in the State, then it must be registered in ARBER. The following statement must be included in the bill of sale of any noncompliant TRU or TRU gen set: "This TRU does not currently meet California's in-use performance standards under title 13, California Code of Regulations, section 2477.5, and is therefore not compliant for use in California."

(2) No owner of a TRU that is equipped with an Alternative Technology under section 2477.5(a)(3) (e.g. hybrid electric or electric standby) shall sell the TRU or TRU gen set, without disclosing in writing that it must be used in a way that qualifies it as an Alternative Technology in accordance with section 2477.5(a)(3) in order to be compliant.

~~(3)(c)~~ No person who is engaged in this State in the business of renting or leasing new or used TRU or TRU gen set engines, including, but not limited to, manufacturers, distributors, and dealers, and carriers shall lease, offer to lease, rent, or offer to rent, in this state any new or used TRU or TRU gen set engine that does not meet the performance requirements or alternatives set forth in section 2477.5(ea)(1) above.

~~(4)(d)~~ Operators of affected facilities and operators of affected TRUs and TRU gen sets are prohibited from taking action to divert affected TRUs to alternative staging areas in order to circumvent the requirements of this section.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

(h)2477.19 Penalties.

(1)(a) All persons, as defined in section 19 of the Health and Safety Code, found to be in violation of title 13, CCR, sections 2477 through 2477.18 may be cited and subject to the penalty provisions set forth in Health and Safety Code sections 39674, 39675, 42400 et seq., 42402 et seq., and 42410. Where a violation involves multiple TRUs, TRU gen sets, or TRU engines, there is a separate violation for each such unit.

(b) Failure to keep records, report, or submittal of false information is a violation of this rule subject to penalty.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

2477.20 Authority to Request Additional Information.

The Executive Officer may request that additional information be submitted as part of the review of any extension application, exemption, or other action that delays or defers a compliance date or action.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.

2477.21 Severability.

If any subsection, paragraph, subparagraph, sentence, clause, phrase, or portion of this regulation is, for any reason, held invalid, unconstitutional, or unenforceable by any court of competent jurisdiction, such portion shall be deemed as a separate, distinct, and independent provision, and such holding shall not affect the validity of the remaining portions of the regulation.

NOTE: Authority cited: sections 39600, 39601, 39618, 39658, 39659, 39666, 39667, 43013, 43018, California Health and Safety Code. Reference: sections 39618, 39650, 39658, 39659, 39666, 39667, 39674, 39675, 42400, 42400.1, 42400.2, 42400.3.5, 42402, 42402.2, 42410, 40717.9, 43013, and 43018, California Health and Safety Code.